

Environmental Assessment for Levee Repair of 14 Winter 2006 Critical Sites Sacramento River Bank Protection Project



Final Report

<i>Prepared for:</i>	<i>Prepared by:</i>
U.S. Army Corps of Engineers 1325 J Street Sacramento, CA 95814 Contact: Michael Dietl	Stillwater Sciences 850 G Street, Suite K Arcata, CA 95521
<i>and</i>	<i>and</i>
The Reclamation Board 3310 El Camino Ave Sacramento, CA 95821 Contact: Deborah Condon	Ayes Associates, Inc. 2151 River Plaza Dr. Suite 170 Sacramento, CA 95814
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Definitions of Abbreviations and Acronyms

Term	Definition
§	Section
a.m.	Ante meridiem
APE	Area of potential effect
BMP	Best management practice
CARB	California Air Resources Board
CDFG	California Department of Fish and Game
CDWR	California Department of Water Resources
CESA	California Endangered Species Act
CEQ	Council on Environmental Quality
CEQA	California Environmental Quality Act
CNDDB	California Department of Fish and Game's California Natural Diversity Database
CNPS	California Native Plant Society
CO	Carbon monoxide
Corps	U.S. Department of Defense, Army Corps of Engineers
CVRWQCB	Central Valley Regional Water Quality Control Board
D ₅₀	Median particle size diameter
dBA	Decibels in the A scale
e.g.	<i>exempli gratia</i> , for example
EA	Environmental Assessment
EA-IS	Environmental Assessment – Initial Study
EFH	Essential Fish Habitat
EIS/SEIR	Environmental Impact Statement/Supplemental Environmental Impact Report
EPA	U.S. Environmental Protection Agency
ESA	Endangered Species Act
ESU	Evolutionarily Significant Unit
et seq	<i>et sequentia</i> , and the following
FONSI	Finding of No Significant Impact
FRAQMD	Feather River Air Quality Management District
GIS	Geographic information system
H:V	Horizontal to vertical ratio
HTRW	Hazardous, toxic, and radioactive waste
i.e.	<i>id est</i> , that is
IWG	Interagency Working Group
IWM	Instream woody material
LF	Linear feet
mg/L	Milligrams per liter
MSWL	Mean summer water level
NEPA	National Environmental Policy Act
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
NO _x	Nitrogen oxides
NPDES	National Pollutant Discharge Elimination System

Term	Definition
NTU	Nephelometric turbidity unit
O&M	Operations and maintenance
p.m.	Post meridiem
PM ₁₀	Suspended particulate matter
PM _{2.5}	Particulate matter of respirable size
ppm	Parts per million
ppt	Parts per thousand
PRC	California Public Resources Code
Reclamation Board	State of California Reclamation Board
RM	River Mile
ROG	Reactive organic gas
RWQCB	Regional Water Quality Control Board
SAM	Standard Assessment Methodology
SHPO	California State Historic Preservation Office
SMAQMD	Sacramento Metropolitan Air Quality Management District
SRA	Shaded riverine aquatic
SRBPP	Sacramento River Bank Protection Project
SRFCP	Sacramento River Flood Control Project
SWPPP	Storm water pollution prevention plan
TSS	Total suspended solids
ug/m ³	Micrograms per cubic meter
USACE	U.S. Army Corps of Engineers
U.S.C.	U.S. Government Code
USFWS	U.S. Department of Interior, Fish and Wildlife Service
YSAQMD	Yolo-Solano Air Quality Management District

1 PURPOSE AND NEED FOR ACTION

1.1 Proposed Action

The U.S. Army Corps of Engineers (Corps) and the State of California Reclamation Board (Reclamation Board) propose to implement bank protection measures to prevent ongoing streambank erosion at 14 critically eroding sites along the Sacramento River and Steamboat Slough. The erosion sites are located along both sides of the river and slough, and are designated by river mile (RM), distance in miles from the mouth, and either “R” or “L” for right or left bank. The convention for right and left bank designation is “as facing downstream;” therefore Site RM 16.9L is located 16.9 miles from the mouth, on the left bank as one faces downstream. Eleven of the 14 sites are along the Sacramento River at RM 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L. Three critically eroding sites are along Steamboat Slough at RM 19.0R, 19.4R, and 22.7R. The 14 sites are located in Yolo, Sacramento, Sutter, and Solano counties. These 14 sites are included as critical erosion sites in Governor Schwarzenegger’s February 24, 2006 Declaration of State of Emergency of California Levee System, and March 7, 2006 Executive Order S-01-06. Colonel Ron Light, commander of the Corps’ Sacramento District, stated that the damage at 24 sites along the Sacramento and Bear rivers, Cache Creek, Steamboat Slough, and Sutter Slough, which was discovered in Summer 2006, is severe enough to constitute an imminent threat to the people who live behind these levees. At these sites, bank erosion requires immediate work to prevent levee failure.

As a result of the imminent threat of catastrophic levee failure, Governor Schwarzenegger declared a State of Emergency for California’s levee system on February 24, 2006 and issued Executive Order S-01-06 on March 6, 2006. On October 3, 2006, the Governor issued Executive Order S-18-06, which determined that conditions of extreme peril to the safety of persons and property continue to exist along California’s levees, and that emergency repairs are needed at newly identified critical levee erosion sites to prevent a catastrophic levee failure. On November 7, 2006, the Corps also issued a Declaration of Emergency for the 24 newly identified erosion sites in need of emergency repairs (USACE 2006a). These 24 sites include the 14 sites in this proposed Project. Erosion into the banks at these sites requires immediate work to prevent levee failure. The California Department of Water Resources (CDWR) is repairing the remaining 10 sites, which are not part of this proposed Project.

The proposed bank protection measures would include: (1) protecting the toe and upper slopes of the bank with rock; (2) establishing a berm around the mean summer water level (MSWL) to provide aquatic habitat during lower and higher river stages in winter and spring; (3) placing instream wood material (IWM) for aquatic habitat; and (4) planting pole and container plantings to stabilize the bank and provide riparian and shaded riverine aquatic habitat.

1.2 Project Location

The Project area extends along the Sacramento River from RM 16.9 to RM 78.0. The 14 erosion sites are located from the most downstream site near the town of Isleton in Sacramento County, to the most upstream site northeast of the town of Woodland also in Sacramento County (Figure 1). The RM locations and lengths of the 14 sites are listed (Table 1-1).

Table 1-1. Erosion site river mile locations, counties, and lengths.

Erosion site	Water body	County	Length of erosion (feet)
RM 16.9L	Sacramento River	Sacramento	210
RM 19.0R	Steamboat Slough	Solano	552
RM 19.4R	Steamboat Slough	Solano	272
RM 22.7R	Steamboat Slough	Sacramento	222
RM 33.0R	Sacramento River	Yolo	326
RM 33.3R	Sacramento River	Yolo	235
RM 43.7R	Sacramento River	Yolo	1,090
RM 44.7R	Sacramento River	Yolo	1,585
RM 47.0L	Sacramento River	Sacramento	1,156
RM 47.9R	Sacramento River	Yolo	1,031
RM 48.2R	Sacramento River	Yolo	1,039
RM 62.5R	Sacramento River	Yolo	255
RM 68.9L	Sacramento River	Sacramento	786
RM 78.0L	Sacramento River	Sutter	1,058
Total			9,817

1.3 Background

Over the years, at the 14 sites' river banks, continued erosion has threatened the stability of the levees in these areas. In downstream locations, the erosion appears to be due to wave run-up from tidal and wind action, as well as some recreational boat traffic during the summer months. The Corps, Reclamation Board, and their consultants have made several field assessments of these sites over the last few years. The levee berm has almost completely eroded away along the waterline at most sites, threatening the integrity of the upper banks. Bathymetric surveys conducted in April 2006 indicate the development of scour holes in the river bed near the toes of the levees in many locations. To fill those scour holes, the Project design includes filling the holes with rock toe protection. Rock and soil benches will also be installed on the levees' upper banks to protect these areas from further erosion, while maintaining existing vegetation as much as possible.

1.4 Project Authority

This Project is a component of the Sacramento River Bank Protection Project (SRBPP), which was authorized by Congress under the Flood Control Act of 1960 (Public Law 86-645). Congress authorized the SRBPP in accordance with the recommendations of the Chief of Engineers in Senate Document No. 103, 86th Congress, Second Session, entitled “Sacramento River Flood Control Project, California,” dated May 26, 1960. Authorization for environmental features associated with the Project was provided in the Water Resources Development Act of 1990. The SRBPP is a State-Federal partnership between the Corps and Reclamation Board.

Additionally, as noted above, the 14 sites within this proposed Project are among the 24 newly identified critical levee erosion sites that recently prompted the Corps to issue a Declaration of Emergency. The Governor of California and the Corps have both determined that emergency repairs are needed to prevent a catastrophic levee failure.

1.5 Purpose of the EA

This Environmental Assessment (EA): (1) describes the existing environmental resources in the Project area; (2) evaluates the significance of environmental effects on those resources, which occur due to the Project and its alternatives; and (3) if the effects are significant, determines and describes actions that may be taken to mitigate and reduce environmental effects such that effects become not significant. The purpose of this EA is to fulfill the federal permitting requirements for implementing the Project.

The California Governor’s Office and the Corps have declared states of emergency for the levee repair work, and this Project qualifies for an emergency exemption under CEQA and NEPA. This Project qualifies as a statutory exemption under CEQA (Pub. Res. Code 21080(4)), and under the specific provisions of the CEQA Guidelines (Section 15269), as follows;

- “(b) emergency repairs to publicly or privately owned service facilities necessary to maintain service essential to the public health, safety or welfare, and;
- (c) Specific actions necessary to prevent or mitigate an emergency. This does not include long-term projects undertaken for the purpose of preventing or mitigating a situation that has a low probability of occurrence in the short-term.”

Emergency exemptions under NEPA are described in 33 CFR 230.8,

“In responding to emergency situations to prevent or reduce imminent risk of life, health, property, or severe economic losses, district commanders may proceed without the specific documentation and procedural requirements of other Sections of this regulation. District commanders shall consider the probable environmental consequences in determining appropriate emergency actions and when requesting approval to proceed on emergency actions, will describe proposed NEPA documentation or reasons for exclusion from documentation. NEPA documentation should be accomplished prior to initiation of emergency work if time constraints render this practicable. Such documentation may also be accomplished after the completion of emergency work, if appropriate.

Emergency actions include Flood Control and Coastal Emergencies Activities

pursuant to Pub. L. 84-99, as amended, and projects constructed under Sections 3 of the River and Harbor Act of 1945 or 14 of the Flood Control Act of 1946 of the Continuing Authorities Program. When possible, emergency actions considered major in scope with potentially significant environmental impacts shall be referred through the division commanders to HQUSACE (CECW-RE) for consultation with CEQ about NEPA arrangements.

The Declaration of Emergency enables the Corps to begin repairs to the 14 critical sites by mid-December while concurrently completing the environmental assessments and mitigation plans.”

In addition, this EA will serve as a biological assessment to be provided to the National Marine Fisheries Service (NMFS) and the US Fish and Wildlife Service (USFWS) for the Section 7 Endangered Species Act (ESA) consultation, including evaluation of effects of the Project on listed and sensitive species and critical habitat, and the Magnuson-Stevens Fishery Conservation and Management Act essential fish habitat (EFH). A programmatic biological assessment is currently being prepared for the Sacramento River Bank Protection Project, but consultation will not be completed prior to the need to implement the proposed Project.

1.6 Decisions That Must be Made

The Corps and the California Governor’s Office have declared states of emergency for these erosion sites. Notices of Exemption for the 14 sites in the proposed Project will be issued pursuant to CEQA by the Reclamation Board.

1.7 Tiering

This EA is tiered to the 1987 EIR/SEIS IV for the Sacramento River Bank Protection Project. The EIR/SEIS IV document discusses the environmental and significant impacts associated with bank protection alternatives from Sacramento River Mile 0 at Collinsville to RM 194 just below Hamilton City. Significant or potentially significant impacts described in this document have been described in EIR/SIES IV and do not require the preparation of an EIR or SEIS since they have already been disclosed to the public in EIR/SIES IV.

2 ALTERNATIVES

2.1 No Action Alternative

Under this alternative, no action would be taken to halt erosion and protect the levee at the 14 erosion sites. In an unconfined river with no levees, continued erosion would normally contribute to natural cycles of habitat disturbance and renewal through channel migration. However, under current conditions with the existing levee system in place, continued erosion due to wave wash, flood flows, and human disturbance would increase the risk of levee failure and subsequent flooding in the surrounding areas. As such, the No Action alternative may result in “loss of life and significant damage to property” (Schwarzenegger 2006). Further, “if the state fails to maintain the levees, many communities could face catastrophic consequences of Katrina-like proportions” (Office of the Governor 2006). Because of these considerations, post-failure emergency repair measures would need to be implemented to protect the levee system from further failure. The nature of emergency repair measures would likely hinder the Corps’ ability to implement Best Management Practices (BMPs), site-specific mitigation, and other measures that would minimize impacts to aquatic and terrestrial communities.

2.2 Proposed Action Alternative

This alternative proposes to implement bank protection measures to prevent ongoing streambank erosion along the Sacramento River at Sites RM 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, 78.0L, and along Steamboat Slough at Sites RM 19.0R, 19.4R, and 22.7R. The Project features described below include: rock revetment at each erosion site; habitat disturbance; construction staging areas; construction sequencing and equipment; haul routes, borrow areas, and traffic; maintenance activities and work windows; and construction and maintenance schedules. The Proposed Action alternative would use a pit-run type gradation for the rock revetment with a median diameter (D_{50}) of 8 inches for toe protection.

2.3 Overall Project Features

Bank protection measures will be implemented at each of the 14 sites and, in total, the overall Project would consist of: (1) reinforcement of the bank toes with a total of 9,800 lineal feet (LF) of revetment covering a plan view area of 8.5 acres; (2) placement of a mixture of rock and soil (mixture of sand and silt suitable for plant growth) on upper banks and tops of the lower banks’ revetment to create riparian benches above the MSWL, covering a total area 13.4 acres; and (3) planting the benches and upper banks with vegetation to provide bank stabilization and riparian habitat. Sites nearest the delta experience tidal influences; tidal variations range from \pm 2–3 feet for the sites nearest the delta, with variations of \pm 0–1 feet at sites further upstream (see Section 4.4.2).

The construction will occur in two phases (Phases 1 and 2). Phase 1 construction will occur from November 13, 2006 to June 1, 2007; all Phase 1 work will be from the waterside. During Phase 2, which will occur from June 1 to November 30, 2007, construction at four sites

may occur from the landside (Sites RM 47.0L, 62.5R, 68.9L, and 78.0L), with work at two other Sites (RM 47.9R and 48.2R) from either water- or landside. The Phase 2 work at the remaining sites on the Sacramento River (Sites RM 16.9L, 33.0R, 33.3R, 43.7R, and 44.7R) and all three sites on Steamboat Slough (Sites RM 19.0R, 19.4R, and 22.7R) is likely to occur from the waterside.

Estimates of Project areas (acreages) above and below the mean summer water level are affected by Project construction (i.e., the Project footprint). Required material quantities are listed by site (Tables 2-1 and 2-2). The total Project surface area (i.e., the Project's construction footprint) is estimated to be 21.8 acres, resulting in the conversion of approximately 7.3 acres of existing open water habitat into riparian habitats, with an additional conversion of 0.7 acres of open water habitat into wetland habitat. In total, Phase 1 construction includes approximately 117,000 cubic yards of revetment that would be placed along the lower banks to reinforce the levee toe at the 14 sites. During Phase 2, approximately 97,000 cubic yards of additional rock and soil would be used to build up the benches and upper banks at the Project sites. The quantities of rock, soil and IWM to be placed may vary slightly from the above estimates due to conditions encountered at the site during construction, as well as Fall/Winter 2006/07 flow conditions.

Table 2-1. Acreages* for the Project construction footprint at each site.

Site	Water body	Total site area (ac)	Existing area above water (ac)	Existing area below water (ac)	Post-Project area above water (ac)	Post-Project area below water (ac)
RM 16.9L	Sacramento River	0.4	0.10	0.31	0.15	0.26
RM 19.0R	Steamboat Slough	0.9	0.44	0.44	0.63	0.25
RM 19.4R	Steamboat Slough	0.4	0.19	0.23	0.28	0.14
RM 22.7R	Steamboat Slough	0.4	0.14	0.30	0.20	0.23
RM 33.0R	Sacramento River	0.9	0.17	0.71	0.42	0.46
RM 33.3R	Sacramento River	0.7	0.19	0.51	0.38	0.32
RM 43.7R	Sacramento River	2.5	0.75	1.75	1.53	0.98
RM 44.7R	Sacramento River	3.6	1.46	2.19	2.62	1.02
RM 47.0L	Sacramento River	2.0	0.08	1.91	1.22	0.77
RM 47.9R	Sacramento River	3.1	0.66	2.42	1.14	1.94
RM 48.2R	Sacramento River	2.4	0.91	1.48	1.43	0.96
RM 62.5R	Sacramento River	0.6	0.09	0.53	0.35	0.27

Site	Water body	Total site area (ac)	Existing area above water (ac)	Existing area below water (ac)	Post-Project area above water (ac)	Post-Project area below water (ac)
RM 68.9L	Sacramento River	1.9	0.52	1.36	1.48	0.40
RM 78.0L	Sacramento River	1.9	0.39	1.56	1.51	0.44
Total		21.8	6.11	15.70	13.36	8.45

* Acreages were estimated as projected in plan view.

Table 2-2. Material quantities for Project sites.

Site	IWM removed (lineal ft) ¹	IWM Placed above MSWL ²	Rock placed ³ (yd ³)	Rock and soil mixture placed ³ (yd ³)	Total material placed ³ (yd ³)
RM 16.9L	30	NA	2,722	1,750	4,472
RM 19.0R	98	NA	2,044	5,111	7,155
RM 19.4R	12	NA	967	1,612	2,579
RM 22.7R	35	NA	1,842	2,138	3,980
RM 33.0R	25	293	7,848	2,656	10,504
RM 33.3R	15	212	5,361	2,559	7,920
RM 43.7R	65	981	14,533	14,533	29,066
RM 44.7R	243	1,427	19,372	17,846	37,218
RM 47.0L	72	1,040	8,734	5,823	14,557
RM 47.9R	140	928	13,365	9,317	22,682
RM 48.2R	107	935	13,930	8,774	22,704
RM 62.5R	40	230	5,138	2,361	7,499
RM 68.9L	50	707	10,189	10,946	21,135
RM 78.0L	20	952	10,698	11,756	22,454
Total	952	7,705	116,744	97,181	213,925

¹ Existing length of IWM estimated from % shoreline cover during visual bank-line surveys in November 2006.

² Length of anchored IWM to be placed estimated at 90% of site length.

³ Volume of revetment (Phase 1) and rock/soil mixture (Phase 2) estimated from site cross-sections.

For riparian reestablishment, riparian benches will be constructed to flood at river stages corresponding to high tide (where tidally influenced) at average winter/spring flows. Using similar planting plans to those included in an earlier design for five critical erosion sites on the

Sacramento River (USACE 2006b), container plants and pole cuttings would be installed along the lower bank, bench, and upper bank, with the long-term goal of providing riparian and shaded riverine aquatic (SRA) cover habitat as defined by USFWS (Fris and DeHaven 1993). These areas would be seeded and covered with erosion control measures to prevent soil loss during the first high water which would likely occur before plantings have become established.

Ten of the 14 Sites (RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L) will have anchored woody material placed on top of the riparian benches. Individual pieces will be anchored either parallel to the bank or at an oblique angle to the river flow. Woody materials would: (1) be between 23 and 35 feet long; (2) maintain a crown branch structure that is approximately 6–8 feet wide; and (3) retain limbs and root wads (to the extent feasible) for maximum habitat value.

In addition to the riparian benches, planted wetland benches will be constructed at five Sites (RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R). The wetland benches will be constructed to remain inundated at river stages corresponding to low tide at average summer/fall flows.

2.4 Work at Each Erosion Site

This section describes proposed work at each erosion site. Cross-sectional views and construction footprints for each site are presented (Figures 2–28). Total linear feet of revetment is an approximation, and may vary as much as 15% for each individual site and for the overall Project, cumulatively. Site extensions may be necessary due to erosive forces encountered during high winter flows.

2.4.1 Sacramento River Site RM 16.9 Left

Site RM 16.9L will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 2). Volume estimates of Phase 1 revetment, which will be placed below the summer water surface elevation, and of Phase 2 (Spring and Summer 2007) bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-3). Land use immediately adjacent to the site is residential and agricultural (Figure 3). A staging area may be available near the site, on the adjacent agricultural land. A dock is immediately downstream of the site. Signage and or buoys will be provided at each of the critical sites to warn people of potential hazards during construction.

Table 2-3. Work at Sacramento River erosion Site RM 16.9L

Work specification	Value or characteristic
Total length of revetment (LF)	210
Phase 1 area of Project site below median summer water surface (ac)	0.3
Phase 1 volume of revetment placed below summer water surface (cubic yds)	2,700
Phase 2 area of Project site above median summer water surface (ac)	0.2
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	1,800
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Length of Anchored woody materials (LF)	None
Construction access (waterside or landside)?	Waterside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	Yes
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (Highway 160), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows (*Salix* spp.) and white alder (*Alnus rhombifolia*), along with a variety of shrubs. On the emergent bench, the area will be covered 75–100% with tule (*Scirpus acutus* var. *occidentalis*), Californica bulrush (*Scirpus californicus*) or other emergent species (e.g., bur-reed [*Sparganium eurycarpum* ssp. *eurycarpum*] and cattail [*Typha* spp.]). No anchored woody materials are included in the design for this site.

2.4.2 Steamboat Slough Site RM 19.0 Right

Site RM 19.0R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 4). Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-4). Land use immediately adjacent to the site is residential and agricultural (Figure 5). A staging area may be available near the site, on the adjacent agricultural land.

Table 2-4. Work at Steamboat Slough erosion Site RM 19.0R.

Work specification	Value or characteristic
Total length of revetment (LF)	552
Phase 1 area of Project site below median summer water surface (ac)	0.3
Phase 1 volume of revetment placed below summer water surface (cubic yds)	2,000
Phase 2 area of Project site above median summer water surface (ac)	0.6
Phase 2 volume of revetment placed above summer median water surface (cubic yards)	5,100
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Length of Anchored woody materials (LF)	None
Construction access (waterside or landside)?	Waterside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	Yes
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (Ryer Road E.), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. On the emergent bench, the area will be covered 75–100% with tule, Californica bulrush or other emergent species (e.g., bur-reed and cattail). No anchored woody materials are included in the design for this site.

2.4.3 Steamboat Slough Site RM 19.4 Right

Site RM 19.4R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 6). Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-5). Land use immediately adjacent to the site is residential and agricultural (Figure 7). A staging area may be available near the site, on the adjacent agricultural land.

Table 2-5. Work at Steamboat Slough erosion Site RM 19.4R.

Work specification	Value or characteristic
Total length of revetment (LF)	272
Phase 1 area of Project site below median summer water surface (ac)	0.1
Phase 1 volume of revetment placed below summer water surface (cubic yds)	1,000
Phase 2 area of Project site above median summer water surface (ac)	0.3
Phase 2 volume of revetment placed above summer median water surface (cubic yards)	1,600
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Length of Anchored woody materials (LF)	None
Construction access (waterside or landside)?	Waterside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	Yes
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (Ryer Road E.), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. On the emergent bench, the area will be covered 75–100% with tule, Californica bulrush or other emergent species (e.g., bur-reed and cattail). No anchored woody materials are included in the design for this site.

2.4.4 Steamboat Slough Site RM 22.7 Right

Site RM 22.7R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 8). Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-6). Land use immediately adjacent to the site is residential and agricultural (Figure 9). A staging area may be available near the site, on the adjacent agricultural land.

Table 2-6. Work at Steamboat Slough erosion Site RM 22.7R.

Work specification	Value or characteristic
Total length of revetment (LF)	222
Phase 1 area of Project site below median summer water surface (ac)	0.2
Phase 1 volume of revetment placed below summer water surface (cubic yds)	1,800
Phase 2 area of Project site above median summer water surface (ac)	0.2
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	2,100
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Length of Anchored woody materials (LF)	None
Construction access (waterside or landside)?	Waterside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	Yes
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (Sutter Island Road), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. On the emergent bench, the area will be covered 75–100% with tule, Californica bulrush or other emergent species (e.g., bur-reed and cattail). No anchored woody materials are included in the design for this site.

2.4.5 Sacramento River Site RM 33.0 Right

Site RM 33.0R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 10). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-7). Land use immediately adjacent to the site is primarily agricultural with a few residences (Figure 11). A staging area may be available near the site, on the adjacent agricultural land.

Table 2-7. Work at Sacramento River erosion Site RM 33.0R.

Work specification	Value or characteristic
Total length of revetment (LF)	326
Phase 1 area of Project site below median summer water surface (ac)	0.5
Phase 1 volume of revetment placed below summer water surface (cubic yds)	7,800
Phase 2 area of Project site above median summer water surface (ac)	0.4
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	2,700
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Waterside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (Highway 160), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. Instream wood materials will be placed on the riparian bench to provide low velocity zones. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.4.6 Sacramento River Site RM 33.3 Right

Site RM 33.3R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 12). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, as well as Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-8). Land use immediately adjacent to the site is primarily agricultural with a few residences (Figure 13). A staging area may be available near the site, on the adjacent agricultural land. A bridge is immediately downstream, within 200 feet of the erosion site limits.

Table 2-8. Work at Sacramento River erosion Site RM 33.3R.

Work specification	Value or characteristic
Total length of revetment (LF)	235
Phase 1 area of Project site below median summer water surface (ac)	0.3
Phase 1 volume of revetment placed below summer water surface (cubic yds)	5,400
Phase 2 area of Project site above median summer water surface (ac)	0.4
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	2,600
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Waterside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (S. River Road, also called Highway 160), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. Instream wood materials will be placed on the riparian bench to provide low velocity zones. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.4.7 Sacramento River Site RM 43.7 Right

Site RM 43.7R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 14). Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-9). Land use immediately adjacent to the site is residential and agricultural (Figure 15). A staging area may be available near the site, on the adjacent agricultural land.

Table 2-9. Work at Sacramento River erosion Site RM 43.7R.

Work specification	Value or characteristic
Total length of revetment (LF)	1,090
Phase 1 area of Project site below median summer water surface (ac)	1.0
Phase 1 volume of revetment placed below summer water surface (cubic yds)	14,500
Phase 2 area of Project site above median summer water surface (ac)	1.3
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	14,500
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials (LF)	Yes
Construction access (waterside or landside)?	Waterside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	Yes
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (S. River Road), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. On the emergent bench, the area will be covered 75–100% with tule, Californica bulrush or other emergent species (e.g., bur-reed and cattail). Instream wood materials will be placed on the riparian bench to provide low velocity zones. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.4.8 Sacramento River Site RM 44.7 Right

Site RM 44.7R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 16). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-10). Land use immediately adjacent to the site is primarily agricultural with a few residences (Figure 17). A staging area may be available near the site, on the adjacent agricultural land. A dock is immediately downstream, within 200 feet of the erosion site limits.

Table 2-10. Work at Sacramento River erosion Site RM 44.7R.

Work specification	Value or characteristic
Total length of revetment (LF)	1,585
Phase 1 area of Project site below median summer water surface (ac)	1.0
Phase 1 volume of revetment placed below summer water surface (cubic yds)	19,400
Phase 2 area of Project site above median summer water surface (ac)	2.6
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	17,900
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Waterside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (S. River Road), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. Instream wood materials will be placed on the riparian bench to provide low velocity zones. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.4.9 Sacramento River Site RM 47.0 Left

Site RM 47.0L will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 18). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-11). Land use immediately adjacent to the site is primarily agricultural with a few residences (Figure 19). A staging area may be available near the site, on the adjacent agricultural land.

Table 2-11. Work at Sacramento River erosion Site RM 47.0L.

Work specification	Value or characteristic
Total length of revetment (LF)	1,156
Phase 1 area of Project site below median summer water surface (ac)	0.7
Phase 1 volume of revetment placed below summer water surface (cubic yds)	8,700
Phase 2 area of Project site above median summer water surface (ac)	1.2
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	5,800
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Phase 1 waterside, Phase 2 landside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (Freeport Road), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. Instream wood materials will be placed on the riparian bench to provide low velocity zones. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.4.10 Sacramento River Site RM 47.9 Right

Site RM 47.9R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 20). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-12). Land use immediately adjacent to the site is primarily agricultural with a few residences (Figure 21¹). A staging area may be available near the site, on the adjacent agricultural land.

¹ Note Project sites RM 47.9R and 48.2R are adjacent sites that were combined in this figure to make site RM 48.0R.

Table 2-12. Work at Sacramento River erosion Site RM 47.9R.

Work specification	Value or characteristic
Total length of revetment (LF)	1,031
Phase 1 area of Project site below median summer water surface (ac)	1.9
Phase 1 volume of revetment placed below summer water surface (cubic yds)	13,300
Phase 2 area of Project site above median summer water surface (ac)	1.1
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	9,300
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Phase 1 waterside, Phase 2 construction access not yet determined
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Unrestricted

Near the levee road (S. River Road), the area will be planted with native grasses. On the upper bank and riparian benches, an unrestricted revegetation planting plan includes deeper rooted trees such as valley oak (*Quercus lobata*), Fremont cottonwood (*Populus fremontii* ssp *fremontii*), and California sycamore (*Platanus racemosa*). Anchored salvage trees will be placed upon the riparian bench to provide low velocity zones during high flows. Anchored woody material lengths will be determined during final design. An old metal dock that appears unused is located within the erosion site limits.

2.4.11 Sacramento River Site RM 48.2 Right

Site RM 48.2R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 22). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-13). Land use immediately adjacent to the site is primarily agricultural with a few residences (Figure 23²). A staging area may be available near the site, on the adjacent agricultural land.

² Note Project sites RM 47.9R and 48.2R are adjacent sites that were combined in this figure to make site RM 48.0R.

Table 2-13. Work at Sacramento River erosion Site RM 48.2R.

Work specification	Value or characteristic
Total length of revetment (LF)	1,039
Phase 1 area of Project site below median summer water surface (ac)	1.0
Phase 1 volume of revetment placed below summer water surface (cubic yds)	13,900
Phase 2 area of Project site above median summer water surface (ac)	1.4
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	8,800
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Phase 1 waterside, Phase 2 construction access not yet determined
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Restricted

Near the levee road (S. River Road), the area will be planted with native grasses. On the upper bank and riparian benches, revegetation will follow a restricted planting plan that includes only shallow-rooted tree species, such as willows and white alder, along with a variety of shrubs. Instream wood materials will be placed on the riparian bench to provide low velocity zones. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.4.12 Sacramento River Site RM 62.5 Right

Site RM 62.5R will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 23). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-14). Land use immediately adjacent to the site is agricultural with a few residences (Figure 24), and the right of way for Interstate Highway I-80. A staging area may be available near the site, on the adjacent agricultural land. The Highway I-80 overpass is within the footprint of the Project.

Table 2-14. Work at Sacramento River erosion Site RM 62.5R.

Work specification	Value or characteristic
Total length of revetment (LF)	255
Phase 1 area of Project site below median summer water surface (ac)	0.3
Phase 1 volume of revetment placed below summer water surface (cubic yds)	5,100
Phase 2 area of Project site above median summer water surface (ac)	0.4
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	2,400
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Phase 1 waterside, Phase 2 landside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Unrestricted

Near the levee road (N. Harbor Blvd.), the area will be planted with native grasses. On the upper bank and riparian benches, an unrestricted revegetation planting plan includes deeper rooted trees such as valley oak, Fremont cottonwood, and California sycamore. Anchored salvage trees will be placed upon the riparian bench to provide low velocity zones during high flows. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.4.13 Sacramento River Site RM 68.9 Left

Site RM 68.9L will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 25). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-15). Land use immediately adjacent to the site is primarily agricultural with a few residences (Figure 26). A staging area may be available near the site, on the adjacent agricultural land.

Table 2-15. Work at Sacramento River erosion Site RM 68.9L.

Work specification	Value or characteristic
Total length of revetment (LF)	786
Phase 1 area of Project site below median summer water surface (ac)	0.4
Phase 1 volume of revetment placed below summer water surface (cubic yds)	10,200
Phase 2 area of Project site above median summer water surface (ac)	1.4
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	11,000
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Phase 1 waterside, Phase 2 landside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Unrestricted

Near the levee road (Garden Hwy.), the area will be planted with native grasses. On the upper bank and riparian benches, an unrestricted revegetation planting plan includes deeper rooted trees such as valley oak, Fremont cottonwood, and California sycamore. Anchored salvage trees will be placed upon the riparian bench to provide low velocity zones during high flows. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.4.14 Sacramento River Site RM 78.0 Left

Site RM 78.0L will require the typical levee restoration of quarry rock revetment at the toe (Phase 1) with upper bank and riparian bench construction of soil filled quarry stone (Phase 2) (Figure 27). No emergent or wetland bench is included in this design. Volume estimates of Phase 1 revetment to be placed below the summer water surface elevation, and of Phase 2 riparian bench and upper bank fill, were obtained from preliminary engineering drawings and the construction limits for each erosion site (Table 2-16). Land use immediately adjacent to the site is primarily agricultural with a few residences (Figure 28). A staging area may be available near the site, on the adjacent agricultural land.

Table 2-16. Work at Sacramento River erosion Site RM 78.0L.

Work specification	Value or characteristic
Total length of revetment (LF)	1,058
Phase 1 area of Project site below median summer water surface (ac)	0.4
Phase 1 volume of revetment placed below summer water surface (cubic yds)	10,700
Phase 2 area of Project site above median summer water surface (ac)	1.5
Phase 2 volume of revetment placed above summer median water surface (cubic yds)	11,800
Bank slope outside of planted bench areas (H:V)	2:1
Bank slope within planted bench areas (H:V)	10:1
Anchored woody materials	Yes
Construction access (waterside or landside)?	Phase 1 waterside, Phase 2 landside
Bank vegetation currently present within Project limits?	Yes
Trees currently present within Project limits?	Yes
Revegetation includes planted wetland bench	No wetland bench
Revegetation includes restricted or unrestricted plantings on riparian bench and upper bank	Unrestricted

Near the levee road (Garden Hwy.), the area will be planted with native grasses. On the upper bank and riparian benches, an unrestricted revegetation planting plan includes deeper rooted trees such as valley oak, Fremont cottonwood, and California sycamore. Anchored salvage trees will be placed upon the riparian bench to provide low velocity zones during high flows. Anchored woody material lengths will be determined during final design. All sites containing woody material are expected to have 80% coverage; this coverage will be a combination of IWM and smaller textured materials determined in the final design.

2.5 Habitat Disturbance

Construction would be conducted in a manner that minimizes disturbance of existing vegetation at the sites. During Phase 1, existing larger IWM will be retained to the extent feasible, with fill placed around and on top of the IWM while in place, resulting in an estimated 50% loss. No upper bank work is planned during Phase 1.

During Phase 2, there will be no grubbing or contouring of the sites. All fill materials will be placed on existing undisturbed ground with no excavation or movement of existing materials. All staging areas and/or disturbed areas will be seeded and covered with mulch to prevent erosion. Some pruning or trimming of tree limbs may be necessary prior to placing rock, although the exact amount at each site cannot be specified until the time of construction due to changing site conditions from the ongoing erosion. To the extent feasible, however, existing woody riparian vegetation will not be removed. Some clearing of shrubs, herbaceous vegetation,

and trees may occur. Clearing will be allowed only to the extent of the minimal access required to place bank protection material. All construction activities, including pruning and trimming of vegetation, will be supervised by a qualified biologist to ensure that these activities have a minimal effect on natural resources.

2.6 Construction Staging Areas

At all 14 erosion sites, Phase 1 bank protection activities will be conducted from cranes mounted on barges in the Sacramento River or Steamboat Slough. Waterside construction will minimize noise and traffic disturbances, and effects on existing vegetation. The contractor will use adjacent landside areas for staging of vehicles, plant materials, and other associated construction equipment, as necessary. Protective fencing will be installed to prevent vehicles from getting too close to the waterside edge of the existing bank materials. The exact locations of staging areas have not been determined, but agricultural properties that could accommodate staging areas are available at all sites.

2.7 Construction Sequencing and Equipment

During Phase 1, the contractor will first place revetment from the levee toe up to approximately MSWL. During Phase 2, a layer of biodegradable coir fabric will be placed on top of the revetment and covered with a layer of rock and soil to create the bench. Rock and soil will then be placed along the upper slopes. The contractor may choose to use excavators, loaders, and other construction equipment once the revetment has reached the MSWL.

Once construction of the bank is completed, the contractor will place soil along the upper banks, and install the IWM and plantings. The upper slope will also be hydroseeded and covered with erosion control measures, to minimize bank erosion before plantings have had time to become established. The contractor may decide to place soil along the entire length of the upper slope and install the plantings, or may construct only a section at a time, depending on material and equipment availability, or feasibility of construction. Willow cuttings and herbaceous vegetation will be installed after construction in the fall, whereas plants in containers may be installed the following spring following seasonal high water. Precise planting timelines will be determined upon the availability of planting materials and in coordination with the NMFS, USFWS, and California Department of Fish and Game (CDFG).

2.8 Haul Routes, Borrow Areas, and Traffic

Materials associated with Phase 1 (revetment) will be brought to the sites by barge on the Sacramento River. Depending on the site location, Phase 2 materials will be brought to the sites by either barge (waterside) or via surface roads (landside) (Table 2-17). At Sites RM 47.9R and 48.2R, Phase 2 construction access has not yet been determined.

Table 2-17. Construction access by phase.

Erosion site	Phase 1	Phase 2
RM 16.9L	Waterside	Waterside
RM 33.0R	Waterside	Waterside
RM 33.3R	Waterside	Waterside
RM 43.7R	Waterside	Waterside
RM 44.7R	Waterside	Waterside
RM 47.0L	Waterside	Landside
RM 47.9R	Waterside	Possibly landside
RM 48.2R	Waterside	Possibly landside
RM 62.5R	Waterside	Landside
RM 68.9L	Waterside	Landside
RM 78.0L	Waterside	Landside
RM 19.0R	Waterside	Waterside
RM 19.4R	Waterside	Waterside
RM 22.7R	Waterside	Waterside

Hauling routes to those sites requiring landside access will be via Interstate and US highways, state highways, and county roads; those six sites are all within 100 miles of the quarry where the soil/revetment mixture will likely originate (Section 4.7.1.1). Temporary lane closures may be required. Construction signs would be posted along the haul routes, and flaggers would be used, as necessary, to minimize traffic problems and ensure public safety near the construction sites.

2.9 Off-Site Mitigation

Off-site mitigation (a setback levee or other measure to restore fluvial geomorphic functions) would be implemented to compensate for any Project impacts that are not fully offset by on-site Project design features (Section 2.5) or by work window scheduling (Section 2.12). Any setback levee or other measure shall create a floodplain or erodible area (as applicable) that is no less than five (5) times as large as the bank area that currently exists between the existing water edge at the MSWL and the existing projected levee section at MSWL. This area is assumed to be the current maximum potential extent of lateral river migration (i.e., river functioning potential) that would be lost as a result of the proposed bank protection action.

If the Corps fails to implement an off-site setback levee or other measure within 1 year of placing rock revetment on the Proposed Action site, the additional temporal aquatic habitat

losses incurred would be offset by increasing the original 5:1 mitigation ratio by a factor of 1. Thus, after one year, the ratio increases to 6:1 and then increases each year thereafter by a factor of 1 (e.g., 7:1 after two years, 8:1 after three years) until the setback levee or other equivalent measure is implemented.

Any setback levee or other measure's floodplain or erosion area shall include habitat features intended to maximize aquatic benefits for federally listed fish species, including delta smelt and the three listed salmonids that occur in the SRBPP action area. The effects of off-site mitigation on listed fish species would be evaluated using the Standard Assessment Methodology (SAM; USACE 2004) to determine whether the measure(s) to be implemented are self-mitigating or would require additional off-site compensation measures. Site design may be limited by various engineering and hydraulic constraints, but shall incorporate at least one of the following features: (1) a shallow, frequently inundated, vegetated floodplain with an open canopy; (2) a less frequently inundated area including significant shaded riverine aquatic (SRA) cover, a more closed canopy, and high structural diversity; (3) significant occurrence of IWM recruitment; and (4) active erosion of banks.

The expected and anticipated Project life of setback levees or other engineered measures shall equal or exceed that of the design life of the sites being repaired, as part of this bank protection project. The setback levee's or other measure's Project life may be determined by hydraulic modeling or other means acceptable to the Inter-Agency Working Group (IWG) for the SRBPP.

Implementation of the setback levee or other measures must incorporate avoidance, minimization, and conservation measures sufficient to offset the adverse effects on all listed species under USFWS, NMFS, and CDFG jurisdiction. These impacts can be addressed by the IWG or by Corps staff during informal consultation. The setback levees or other measures may be constructed and rock revetment removed at any suitable location within the mainstem of the lower Sacramento River (not tributary streams or distributary sloughs) within the action area, as well as upstream to RM 243 near Red Bluff. The setback levees or other measures and removal of rock revetment may occur, if consistent with Corps policy and all other regulatory considerations, on federal and non-federal levees and other sites. Other floodplain restoration measures or no off-site compensation may occur, as determined by the SAM (USACE 2004), in consultation with the USFWS, NMFS, and CDFG.

2.10 Mitigation Monitoring Plan

Monitoring is necessary to ensure that the vegetated benches and IWM structures are functioning as designed, to benefit federally listed fish species. The Corps shall, within 90 days of the completion of construction of the 14 erosion sites, submit a detailed, site-specific monitoring plan for the resource agencies to review. The monitoring plan will include, at minimum: (1) mitigation success criteria that provide standards to assess whether the mitigation efforts successfully replace lost habitat; (2) a program to monitor development of SRA cover and riparian habitat; and (3) a protocol for implementing remedial actions should any success criteria not be met. Once reviewed, this monitoring plan shall be incorporated into an Operations and Maintenance manual and be implemented at the 14 erosion sites. To evaluate the sites' progress

in meeting the mitigation success criteria, annual monitoring reports will be submitted to the resource agencies by December 31 of each year. Monitoring will be conducted until the projected benefits of mitigation actions to federally listed fish species are either substantially confirmed or discounted.

The Corps shall also develop, with the assistance of the IWG and the ultimate approval of the resource agencies, a broader fisheries and aquatic ecosystem monitoring plan for the SRBPP action area. Larger-scale aquatic monitoring is also necessary to ensure that the various experimental SRBPP on-site mitigation features are functioning in a manner that enhances habitat value and offsets adverse bank protection effects. Monitoring is also necessary to determine the adverse effects associated with the loss of river function and increased habitat fragmentation associated with the project. Monitoring would evaluate the effectiveness of any restoration measures implemented to return natural fluvial function (e.g., setback levees, restoration of eroding banks). The results of large-scale monitoring would be used to develop future minimization measures and conservation ratios with respect to federally listed species, and would help determine whether SRBPP mitigation features require long-term maintenance or must be modified to reduce unforeseen adverse impacts on listed species and the ecosystems in which they occur.

2.11 Maintenance Activities and Work Windows

Once repaired, the erosion sites may require limited maintenance. Anticipated maintenance activities during the initial establishment period, typically 3 to 5 years, include: removing invasive vegetation determined to be detrimental to the success of the project, pruning and watering planted vegetation to promote optimal growth, replacing vegetation plantings, monitoring navigational hazards, and replacing fill and rock revetment if the site is damaged during high flow events or vandalism. Once established, the riparian vegetation should be self-maintaining. Yearly maintenance at each site should require the placement of no more than 600 cubic yards of material corresponding to a disturbance area 300 feet in length. Should greater than this estimated volume be required in any year, the operating and maintaining agency would obtain the necessary permits from the regulatory agencies.

In coordination with Federal and State resource agencies, any in-water work needed for maintenance would be conducted during appropriate time periods to avoid adverse effects on fish. The current acceptable in-water work “window” for listed salmonids is July 1 to October 30 in any year.

2.12 Construction and Maintenance Schedule

The Phase 1 construction window is from November 13, 2006 to June 1, 2007. The USFWS has confirmed that work could begin immediately and that “the Section 7 consultation will be expedited and treated as an emergency consultation” (USFWS 2006). Phase 2 will commence June 1, 2007 and will end November 30, 2007.

Installation and placement of rock revetment, the rock/soil mixture, and IWM would be completed during one construction season. Vegetation would be planted and maintained during

that same construction season and then maintained for an additional 5 years. Maintenance activities may occur year-round in the overbank and dry areas, but would avoid any blue elderberry (*Sambucus mexicana*) shrubs by 100 feet, or another distance, as coordinated with USFWS.

3 RESOURCES ELIMINATED FROM DETAILED ANALYSIS

The potential for significant effects was evaluated for each resource area. Based on this analysis, the following resource areas were eliminated from detailed analysis.

3.1 Climate

This Project would not result in any changes to climate; therefore, climate is not discussed in this EA.

3.2 Land Use

This Project would not result in any changes in land use; therefore, land use is not evaluated in detail. Specifically, no changes to the adjacent land uses, including recreation, are anticipated as a result of this Project; the conversion of natural riparian bank to a revetted slope would not result in a change in land use because the Project has been designed to promote revegetation and maintain the sites' habitat values.

3.3 Socioeconomics and Environmental Justice

Since land use would not change, the socioeconomics of the Project area are not expected to change. Marinas and other recreational values near the sites would not be significantly affected. No substantial loss or addition of jobs or revenue will result from the proposed Project. No effect on environmental justice is anticipated because there are no minorities or low-income groups in the area that would be affected by the Project.

3.4 Prime and Unique Farmland

Construction is not proposed on any land designated as prime or unique farmland. No agricultural lands would be taken out of production due to the proposed Project.

3.5 Soils and Geomorphology

The Sacramento Valley is underlain by marine sedimentary rocks overlain by recent alluvial deposits, and to a lesser extent some volcanic rocks. The levees and river sediments associated with the Project site are composed of Quaternary alluvium deposits comprised of loose to medium dense, unweathered gravel, sand, silt and clay. These sediments are estimated to have been deposited 200 to 10,000 years before present in naturally formed levees and floodplains along the Sacramento River. The construction associated with the Project does not require removal of any existing revetment at the levee sites and, in fact, would improve conditions by securing the shore and preventing further erosion. Therefore, construction related effects on the bank and underlying soils associated with this Project are considered to be less than significant.

4 RESOURCES ANALYZED IN DETAIL FOR POTENTIAL EFFECTS

4.1 Vegetation and Wildlife

This Section describes the terrestrial biological resources, including general vegetation and wildlife resources, present at the Project sites. Special-status vegetation and wildlife species are discussed separately in Section 4.3. Table 4-1 summarizes the impacts on vegetation and wildlife resulting from implementation of the Project.

Table 4-1. Summary of vegetation and wildlife habitat impacts.

Impact	Mitigation
I. Effects on riparian habitat due to construction activities	No mitigation required
II. Effects on overhead shaded riverine aquatic cover	No mitigation required
III. Effects on open water due to construction activities	No mitigation required
IV. Effects on ruderal herbaceous vegetation due to construction activities	No mitigation required

The above impacts are generally considered not significant in terms of their effects on non-special-status wildlife species, because populations of these species are generally large and widely distributed and are therefore resilient to minor disturbances in habitat quality. However, some additional surveying will be required because either the species were not observable during the November 2006 surveys, or because the surveying/measurement needs to occur just prior to or during Phase 2 of Project construction (Table 4-2).

Table 4-2. Surveys and sampling to be completed just prior to or during Phase 2 of Project construction.

Species/survey to complete	Sites to survey (RM)	Survey dates	Prior to construction	During construction
Valley elderberry longhorn beetle	44.7R, 47.0L, 47.9R, and 48.2R	March–June 2007	X	
Comprehensive botanical survey for special status plants including rose-mallow; delta tule pea; Mason's lilaeopsis; and delta mudwort.	All sites	June 2007	X	

Species/survey to complete	Sites to survey (RM)	Survey dates	Prior to construction	During construction
Comprehensive wildlife survey to identify wildlife in Project area (see Table 4-16 for special status wildlife species).	All sites	March–July 2007	X	
Special status avifauna including Swainson’s hawk, Cooper’s hawk, white-tailed kite, tricolored black bird, and rookery habitat for great egret, great blue heron, and black-crowned night heron	All sites	Spring 2007	X	
Special status avifauna active nesting sites including Swainson’s hawk, Cooper’s hawk, white-tailed kite, and rookery habitat for great egret, snowy egret, and black-crowned night heron	All sites	Spring 2007	X	
Water sampling for turbidity and settleable solids	All sites	At least once a day during construction		X

4.1.1 Existing conditions

Field surveys were conducted by Stillwater Sciences in November 2006 to assess: 1) vegetation cover types existing at each of the sites, 2) existing trees and their characteristics, and 3) existing habitat for special-status plant and wildlife species. During these surveys, 29 wildlife species were observed and habitat for 10 special-status wildlife species was documented (Appendix B-2, Section 4.3.2). No wildlife was observed at Site RM 62.5R due to the US Highway 880 overpass. A comprehensive species list of plant species observed was created, and all trees were inventoried at each site (Appendix C-3). Habitat for five special-status plant species was also noted.

To assess vegetation cover, base maps from aerial photos overlaid with the spatial extent of the Project (i.e., “Project footprint”) plus a 200-foot buffer (i.e., “construction easement”) were used for field-based habitat mapping. The boundaries of each identified habitat type were defined and mapped onto these base maps at each site, and those polygons were then

digitized using a geographic information system (GIS) to create a database of habitat type, area, and spatial proximity.

In total, three land cover types exist at the fourteen sites: riparian forest, riparian scrub/shrub, and ruderal herbaceous. In addition, open water habitat (i.e., the Sacramento River and Steamboat Slough) is present (Tables 4-3 and 4-4). Each of the land cover types is briefly described (below) and delineated (Appendix C-1).

Sensitive natural plant communities are vegetative cover types that are especially diverse, regionally uncommon, or of special concern to local, state, and federal agencies. Removal or degradation of these plant communities would constitute a significant impact. The Sacramento River (open water habitat) and the riparian forest and scrub/shrub communities qualify as sensitive natural communities, while the ruderal herbaceous community generally does not (CDFG 2003).

Table 4-3. Land types and associated area (acres and percent) in the Project construction easement (the easement is the extent of Project plus a 200-foot buffer).

Sites (RM)	Area by land cover type (acres) (% of area above water)				Total above water ² (acres)	Open water (acres)
	Riparian forest	Riparian scrub/ shrub	Ruderal herbaceous	Subtotal		
16.9L	0.17 (35%)	0.15 (30%)	0.16 (32%)	0.48 (98%)	0.48	0.31
19.0R	0.15 (11%)	0.58 (43%)	0.61 (46%)	1.34 (100%)	1.34	0.44
19.4R	0.18 (27%)	0.17 (26%)	0.31 (47%)	0.66 (100%)	0.66	0.23
22.7R	0.22 (31%)	0.02 (3%)	0.45 (66%)	0.69 (100%)	0.69	0.30
33.0R	0.17 (26%)	0.22 (32%)	0.20 (29%)	0.59 (87%)	0.68	0.71
33.3R	0.13 (28%)	0.09 (19%)	0.20 (41%)	0.42 (88%)	0.48	0.51
43.7R	1.16 (56%)	0.13 (6%)	0.62 (30%)	1.92 (92%)	2.09	1.75
44.7R	1.94 (74%)	0.26 (10%)	0.36 (14%)	2.56 (97%)	2.63	2.19
47.0L	1.69 (45%)	0.10 (3%)	1.32 (35%)	3.11 (83%)	3.74	1.91
47.9R ¹	1.91 (92%)	0.03 (2%)	0.13 (6%)	2.07 (100%)	2.07	2.42
48.2R	1.43 (75%)	0.03 (2%)	0.45 (23%)	1.91 (100%)	1.92	1.48
62.5R	0.41	0.15	0.78	1.33	1.51	0.53

Sites (RM)	Area by land cover type (acres) (% of area above water)				Total above water ² (acres)	Open water (acres)
	Riparian forest	Riparian scrub/ shrub	Ruderal herbaceous	Subtotal		
	(27%)	(10%)	(51%)	(88%)		
68.9L	1.27 (44%)	0.34 (12%)	1.29 (44%)	2.89 (99%)	2.92	1.36
78.0L	1.23 (37%)	1.00 (30%)	0.95 (28%)	3.18 (95%)	3.35	1.56
Total	12.06 (49%)	3.27 (13%)	7.82 (32%)	23.15 (94%)	24.55	15.70

¹ Buffer zone for Site RM 47.9R overlaps with Site RM 48.2R. The “overlap” is only included once, in the acreage for Site RM 47.9R and not for Site RM 48.2R.

² For sites where the total acreage above water is not equal to the subtotal acreage by land cover type, the difference is in acres of unvegetated revetment and bare natural substrate.

Table 4-4. Land types and associated area (acres and percent) in the Project construction footprint (i.e., spatial extent of Project).

Site	Area by land cover type (acres) (% of area above water)				Total above water (acres)	Open water (acres)
	Riparian forest	Riparian scrub/ shrub	Ruderal herbaceous	Sub total		
16.9L	0.05 (48%)	0.05 (48%)	0.00 (3%)	0.10	0.41	0.31
19.0R	0.13 (28%)	0.18 (39%)	0.15 (33%)	0.46	0.69	0.44
19.4R	0.06 (34%)	0.10 (52%)	0.03 (14%)	0.18	0.63	0.23
22.7R	0.06 (42%)	0.02 (12%)	0.07 (46%)	0.15	0.45	0.30
33.0R	0.02 (14%)	0.09 (53%)	0.03 (15%)	0.14	0.68	0.71
33.3R	0.11 (60%)	0.03 (16%)	0.04 (21%)	0.18	0.90	0.51
43.7R	0.45 (63%)	0.01 (1%)	0.11 (16%)	0.58	2.48	1.75
44.7R	1.08 (75%)	0.13 (9%)	0.21 (14%)	1.41	3.63	2.19
47.0L	0.00 (12%)	0.00 (0%)	0.00 (0%)	0.00	2.45	1.91
47.9R	0.66 (97%)	0.02 (3%)	0.00 (0%)	0.68	2.59	2.42

Site	Area by land cover type (acres) (% of area above water)				Total above water (acres)	Open water (acres)
	Riparian forest	Riparian scrub/shrub	Ruderal herbaceous	Sub total		
48.2R	0.86 (95%)	0.00 (0%)	0.05 (5%)	0.90	2.38	1.48
62.5R	0.05 (74%)	0.02 (23%)	0.00 (0%)	0.07	0.60	0.53
68.9L	0.03 (13%)	0.01 (4%)	0.18 (83%)	0.21	1.57	1.36
78.0L	0.18 (90%)	0.02 (10%)	0.00 (0%)	0.20	1.75	1.56
Total	3.74 (67.87%)	0.66 (12.05%)	0.86 (15.65%)	5.27	21.22	15.70

4.1.1.1 Riparian forest habitat

Riparian forest habitat is composed of mature, native and non-native trees; the trees and shrubs grow interspersed among each other with heights ranging from a few feet to almost 100 feet above ground or shoreline. There are approximately 12 acres, in total, of this habitat within the Project construction easement (the easement includes equipment staging areas) and 3.74 acres total within the Project construction footprint. Within the construction easement, riparian forest habitat is present at all sites and accounts for approximately 11% to 92% of the existing shoreline habitat at each site (Table 4-3).

The riparian forest at these sites consists primarily of a tall overstory of deciduous broadleaf trees, with Fremont cottonwood and valley oak being the most prevalent species at most sites; these species were often covered with California wild grape (*Vitis californica*) and big leaf mistletoe (*Phoradendron macrophyllum*). Other native tree species present include box elder (*Acer negundo*), Oregon ash (*Fraxinus latifolia*), white alder, California live oak (*Quercus agrifolia*), California sycamore and Goodding's black willow (*Salix gooddingii*). At some of the sites, non-native riparian forest species contributed significantly to the composition of the overstory. The most prevalent species were black locust (*Robinia pseudoacacia*) and English walnut (*Juglans regia*). Other non-native species included edible fig (*Ficus carica*), tree of heaven (*Ailanthus altissima*), honeylocust (*Gleditsia triacanthos*), almond (*Prunus dulcis*), peach (*Prunus persica*) and elm (*Ulmus* sp.).

Shrub species present in the understory of the riparian forest habitat sometimes included both native and non-native blackberry species (*Rubus* spp.), California rose (*Rosa californica*), western poison oak (*Toxicodendron diversilobum*) and California button willow (*Cephalanthus occidentalis*). In one case, a few blue elderberry shrubs were present in the understory, although it was not a typical component. Herbaceous species present were primarily ruderal species, such as mugwort (*Artemisia douglasiana*), asparagus (*Asparagus officinalis*), fennel (*Foeniculum*

vulgare), and smooth scouring rush (*Equisetum laevigatum*). All tree species present at each site were noted (Table 4-5), but dominance is not indicated.

Table 4-5. Common plant species of riparian forest habitats, by site.

Common name (scientific name)	Sites (RM)													
	16.9L	19.0R	19.4R	22.7R	33.0R	33.3R	43.7R	44.7R	47.0L	47.9R	48.2R	62.5R	68.9L	78.0L
box elder (<i>Acer negundo</i>)		X	X	X			X	X	X		X			
tree of heaven ¹ (<i>Ailanthus altissima</i>)							X			X				
white alder (<i>Alnus rhombifolia</i>)	X	X	X					X			X			
mugwort (<i>Artemisia douglasiana</i>)											X			
edible fig ¹ (<i>Ficus carica</i>)								X		X				
Oregon ash (<i>Fraxinus latifolia</i>)	X	X	X		X	X	X	X	X	X	X	X	X	X
honeylocust ¹ (<i>Gleditsia triacanthos</i>)												X		
English walnut ¹ (<i>Juglans regia</i>)		X	X				X	X			X	X	X	X
big leaf mistletoe (<i>Phoradendron macrophyllum</i>)		X						X	X	X	X	X	X	
California sycamore (<i>Platanus racemosa</i>)	X		X				X	X	X					
Fremont cottonwood (<i>Populus fremontii</i> ssp <i>fremontii</i>)							X	X	X	X	X	X		X
almond ¹ (<i>Prunus dulcis</i>)												X		

Common name (scientific name)	Sites (RM)													
	16.9L	19.0R	19.4R	22.7R	33.0R	33.3R	43.7R	44.7R	47.0L	47.9R	48.2R	62.5R	68.9L	78.0L
peach ¹ (<i>Prunus persica</i>)														
California live oak (<i>Quercus agrifolia</i>)	X				X	X	X	X	X			X		
valley oak (<i>Quercus lobata</i>)	X			X		X	X	X	X	X	X	X	X	X
black locust ¹ (<i>Robinia pseudoacacia</i>)	X				X	X		X		X	X			
Goodding's black willow (<i>Salix gooddingii</i>)		X					X	X	X	X	X			X
willow (<i>Salix</i> sp.)											X			
blue elderberry (<i>Sambucus mexicana</i>)										X				
western poison oak (<i>Toxicodendron diversilobum</i>)													X	X
elm (<i>Ulmus</i> sp.)						X								
California wild grape (<i>Vitis californica</i>)		X		X				X			X		X	X

¹Non-native species

Riparian forest vegetation provides overhead and instream SRA cover habitat for aquatic species. Within work sites, riparian vegetation provides an equivalent overhead SRA cover (Fris and DeHaven 1993) that varies from 0% to 88% of the fall shoreline (Table 4-6).

Table 4-6. Sites and their % shade coverage in the Project construction easement.

Sites (RM)	Shade value
16.9L	88%
19.0R	85%
19.4R	51%
22.7R	88%
33.0R	3%
33.3R	3%
43.7R	3%
44.7R	38%
47.0L	5%
47.9R	48%
48.2R	51%
62.5R	0%
68.9L	16%
78.0L	15%
Mean of individual site values	25%

Riparian forest provides less habitat value than would be expected if the riparian corridor was wider, with a more complex vegetation structure and understory species beyond the predominantly ruderal herbaceous species that are present. However, the riparian forest still provides nesting, cover, and foraging habitat for a diverse group of wildlife species. For instance, riparian trees provide suitable nesting and roosting habitat for a variety of raptors, egrets, herons, songbirds, and bats. In addition, the understory provides shade and habitat for mammal species such as raccoon, striped skunk, opossum, rabbits, shrews, and voles.

4.1.1.2 Riparian scrub/shrub habitat

The riparian scrub/shrub plant community primarily occurs at the low and mid-bank elevation position and consists of shrub species and riparian tree species that are less than 20 feet tall. There are approximately 3.27 total acres of this habitat within the Project construction easement, and 0.66 acres total within the Project construction footprint. Based on construction easement areas, it is present at all sites, although its contribution to the total shoreline habitat varies from 2% to 43% among sites (Table 4-3).

Species dominating in the riparian scrub/shrub community include California button willow, California rose, California blackberry (*Rubus ursinus*), Himalayan blackberry (*Rubus discolor*), and narrow-leaf willow (*Salix exigua*). Blue elderberry, a species of concern because it is potential habitat for valley elderberry longhorn beetle, is present at four sites (although only two sites supported enough plants to consider the stand its own scrub/shrub polygon). Saltcedar

(*Tamarix ramosissima*), an invasive non-native shrub, is present at one site. Additionally, seedlings and small trees of the native box elder and white alder and the non-native and invasive acacia (*Acacia* sp.) and black locust were present at a few sites (Table 4-7).

Table 4-7. Common plant species of riparian scrub/shrub habitat, by site.

Common name (scientific name)	Sites (RM)													
	16.9L	19.0R	19.4R	22.7R	33.0R	33.3R	43.7R	44.7R	47.0L	47.9R	48.2R	62.5R	68.9L	78.0L
acacia ¹ (<i>Acacia</i> sp.)									X					
box elder (<i>Acer negundo</i>)												X		
white alder (<i>Alnus rhombifolia</i>)				X										
coyote brush (<i>Baccharis pilularis</i>)													X	
California button willow (<i>Cephalanthus occidentalis</i>)	X	X		X	X	X		X	X			X		
black locust ¹ (<i>Robinia pseudoacacia</i>)					X				X					
California rose (<i>Rosa californica</i>)	X	X	X	X		X						X		X
Himalayan blackberry ¹ (<i>Rubus discolor</i>)	X	X	X	X	X		X	X		X		X	X	
California blackberry (<i>Rubus ursinus</i>)	X						X	X				X		
narrow-leaf willow (<i>Salix exigua</i>)						X								
willow (<i>Salix</i> spp.)			X						X				X	
blue elderberry (<i>Sambucus mexicana</i>)								X			X			

Common name (scientific name)	Sites (RM)													
	16.9L	19.0R	19.4R	22.7R	33.0R	33.3R	43.7R	44.7R	47.0L	47.9R	48.2R	62.5R	68.9L	78.0L
rattlebox ¹ (<i>Sesbania punicea</i>)		X												
Tamarisk ¹ (<i>Tamarix ramosissima</i>)														X
western poison oak (<i>Toxicodendron diversilobum</i>)					X							X	X	X

¹Non-native species

As stated above for riparian forest, the riparian scrub/shrub type provides less habitat value than would be expected if the riparian corridor were wider and more complex. Nonetheless, riparian scrub/shrub provides nesting, cover, and foraging habitat for quail, jays, and thrushes along with numerous songbirds, sparrows, and several migratory birds that use the vegetation for foraging and cover while moving along their seasonal migration route. Additionally, the overall value of the habitat type is increased when it occurs in juxtaposition with the adjacent riparian forest vegetation because it increases the habitat complexity of the area.

4.1.1.3 Ruderal herbaceous vegetation

The ruderal herbaceous community occurs on the waterside of the levee, both within gaps in the riparian forest canopy and riparian scrub/shrub communities and at the mid and high-bank elevation position at each of the sites. There are approximately 7.82 total acres of this habitat within the Project construction easement, and 0.86 acres total within the Project construction footprint. Based on construction easement areas, it is present at all sites, although its contribution to the total shoreline habitat varies from 6% to 66% (Table 4-3).

The ruderal herbaceous community exists primarily in highly disturbed areas and the species mix is consequently a mix of native and non-native plants. To inventory vegetation in preparation for this EA, surveys were conducted in November 2006; conducting field surveys in spring or summer was not possible, even though those seasons are better times for plant identification. However, incidental observations of species were noted during the November 2006 survey (Table 4-8). Based on incidental observations, species most frequently encountered in the ruderal herbaceous community include: native perennials such as mugwort, Santa Barbara sedge (*Carex barbarae*), smooth scouring rush, wild pea (*Lathyrus jepsonii* var. *californicus*) and cudweed (*Gnaphalium* sp.); non-natives such as asparagus and Bermuda grass (*Cynodon dactylon*); and invasives such as yellow star-thistle (*Centaurea solstitialis*).

Table 4-8. Common plant species of ruderal herbaceous habitat, by site.

Common name (scientific name)	Sites (RM)													
	16.9L	19.0R	19.4R	22.7R	33.0R	33.3R	43.7R	44.7R	47.0L	47.9R	48.2R	62.5R	68.9L	78.0L
burr-chervil ¹ (<i>Anthriscus caucalis</i>)	X													
mugwort (<i>Artemisia douglasiana</i>)	X	X		X	X	X	X	X				X		X
asparagus ¹ (<i>Asparagus officinalis</i>)		X		X				X	X					
oat ¹ (<i>Avena</i> sp.)	X				X	X								
Sticktight (<i>Bidens frondosa</i>)					X	X		X						
black mustard ¹ (<i>Brassica nigra</i>)					X									
field mustard ¹ (<i>Brassica rapa</i>)						X		X						
ripgut grass ¹ (<i>Bromus diandrus</i>)					X	X		X						
soft brome ¹ (<i>Bromus hordeaceus</i>)								X						
Santa Barbara sedge (<i>Carex barbarae</i>)	X				X	X		X						
Sedge (<i>Carex</i> sp.)		X						X	X				X	
yellow star-thistle ¹ (<i>Centaurea solstitialis</i>)	X			X		X	X		X			X		X
horseweed (<i>Conyza canadensis</i>)					X	X								

Common name (scientific name)	Sites (RM)													
	16.9L	19.0R	19.4R	22.7R	33.0R	33.3R	43.7R	44.7R	47.0L	47.9R	48.2R	62.5R	68.9L	78.0L
purple pampas grass ¹ (<i>Cortaderia jubata</i>)	X	X												
Bermuda grass ¹ (<i>Cynodon dactylon</i>)	X	X	X	X	X	X	X	X			X		X	
Nutsedge (<i>Cyperus eragrostis</i>)	X				X			X						
barnyardgrass ¹ (<i>Echinochloa crus-galli</i>)						X								
smooth scouring rush (<i>Equisetum laevigatum</i>)	X	X	X	X	X	X	X	X	X	X		X	X	X
fennel ¹ (<i>Foeniculum vulgare</i>)	X	X		X										
cudweed (<i>Gnaphalium</i> sp.)	X					X	X	X	X			X	X	
wild barley ¹ (<i>Hordeum murinum</i> ssp. <i>murinum</i>)	X													
common rush (<i>Juncus effusus</i>)	X					X		X						
wild pea (<i>Lathyrus jepsonii</i> var. <i>californicus</i>)	X	X			X	X	X		X			X		X
perennial pepperweed ¹ (<i>Lepidium latifolium</i>)					X	X		X						
mallow ¹ (<i>Malva</i> sp.)					X									

Common name (scientific name)	Sites (RM)													
	16.9L	19.0R	19.4R	22.7R	33.0R	33.3R	43.7R	44.7R	47.0L	47.9R	48.2R	62.5R	68.9L	78.0L
white sweetclover ¹ (<i>Melilotus albus</i>)								X						
mint ¹ (<i>Mentha</i> sp.)		X												
manyflower tobacco ¹ (<i>Nicotiana acuminata</i> var. <i>multiflora</i>)							X							
tobacco ¹ (<i>Nicotiana</i> sp.)							X							
witchgrass (<i>Panicum capillare</i>)					X									
dallis grass ¹ (<i>Paspalum dilatatum</i>)	X					X								
big leaf mistletoe (<i>Phoradendron macrophyllum</i>)				X		X	X							
knotweed (<i>Polygonum</i> sp.)					X									
radish ¹ (<i>Raphanus sativus</i>)	X				X									
blue elderberry (<i>Sambucus mexicana</i>)									X					
bulrush (<i>Scirpus</i> sp.)								X						
green bristlegrass ¹ (<i>Setaria viridis</i>)					X									
nightshade (<i>Solanum</i> sp.)								X						

Common name (scientific name)	Sites (RM)													
	16.9L	19.0R	19.4R	22.7R	33.0R	33.3R	43.7R	44.7R	47.0L	47.9R	48.2R	62.5R	68.9L	78.0L
Prickly sowthistle ¹ (<i>Sonchus asper</i>)	X				X	X								
Johnsongrass ¹ (<i>Sorghum halepense</i>)					X			X						
woolly mullein ¹ (<i>Verbascum thapsus</i>)												X		
seashore vervain ¹ (<i>Verbena litoralis</i>)								X						
California wild grape (<i>Vitis californica</i>)						X	X							
cockleburr (<i>Xanthium strumarium</i>)					X									

¹Non-native species

Ruderal herbaceous vegetation provides habitat for a variety of wildlife species. A variety of bird, mammal, and reptile species are associated with herbaceous vegetation. In addition, dry grasses and native perennials provide nesting habitat for a variety of ground-nesting birds, and scouring rushes and reeds provide habitat for species such as tricolored blackbirds and rails.

4.1.1.4 Open water

The Sacramento River is immediately adjacent to each of the Project sites, either on the east or west side. The riparian forest and scrub/shrub vegetation at the outboard toes of the slopes are located at the approximate fall water surface elevation. No wetlands occur in the Project area. The amount of open water riverine habitat within the limits of work is approximately 15.70 acres.

4.1.1.5 Instream woody material (IWM)

Amounts of IWM were first estimated using the USFWS (2002) bank-line survey protocols for the “Riprap” database, and then updated with data for the November 2006 surveys.

IWM was quantified on a linear bank-line basis from cover percentages determined by Fris and DeHaven (1993) within the bank segments affected by the Project. Within work sites, IWM varies from 6% to 64% (Table 4-9).

Table 4-9. Percent Instream Woody Material (IWM) in the Project construction footprint.

Sites (RM)	IWM
16.9L	14%
19.0R	18%
19.4R	4%
22.7R	16%
33.0R	8%
33.3R	6%
43.7R	6%
44.7R	15%
47.0L	6%
47.9R	14%
48.2R	10%
62.5R	16%
68.9L	6%
78.0L	2%
Mean of individual site values	10%

4.1.2 Environmental effects

Effects on vegetation and wildlife were considered significant if the Project would:

- Interfere with the movement of any resident or migratory wildlife species.
- Result in substantial loss, degradation, or fragmentation of any natural plant communities and wildlife habitat.
- Result in substantial enhancement or increase in connectivity of any natural plant communities and wildlife habitat.
- Substantially diminish or enhance habitat for any wildlife species life stage or result in displacement of the species.

4.1.2.1 No Action alternative

The potential adverse effects of the No Action alternative on non-special status vegetation and wildlife would primarily result from post-failure emergency levee repair measures, and would include both short-term construction-related effects as well as longer-term effects on habitat. Short-term adverse effects of post-failure emergency levee repair could

include temporary displacement of vegetation (i.e., riparian forest, scrub/shrub and ruderal herbaceous vegetation) and individual wildlife species from preferred habitats.

Longer-term adverse effects could include: removal or burial of riparian and emergent vegetation, loss of habitat for one or more years until riparian vegetation regenerates, reduction in large woody debris input sources and SRA if moderate to large sized riparian trees and shrubs are removed, and exposure of bare substrate for establishment of invasive exotic species.

Because BMPs and mitigation measures may not be implemented for post-failure emergency bank repair actions that could occur under the No Action alternative, avoiding the short-term and long-term effects described above would not be possible. However, impacts on non-special-status vegetation and wildlife species under the No Action alternative are not considered significant because the populations of these species are generally large and the potential effects on the population are minor.

4.1.2.2 Proposed Action alternative

The proposed Project would result in both temporary and long term impacts on riparian forest, riparian scrub/shrub, ruderal herbaceous, and open water habitats in the Project area. Areas within each cover type that lie within the Project footprint were tabulated (Table 4-10). As the site is constructed, temporary effects to riparian forest, scrub/shrub, ruderal herbaceous vegetation will occur. The area within each habitat type that would be affected was tabulated (Table 4-11). Permanent effects would also occur in the open water habitat within the Sacramento River as described below.

Table 4-10. Estimated areas of temporary construction impacts to existing land cover types within the Project footprint.

Site	Area by land cover type (acres)			
	Riparian forest	Riparian scrub/shrub	Ruderal herbaceous	Total
16.9L	0.01	0.05	0.00	0.06
19.0R	0.03	0.18	0.15	0.36
19.4R	0.01	0.10	0.03	0.14
22.7R	0.01	0.02	0.07	0.10
33.0R	0.00	0.09	0.03	0.12
33.3R	0.02	0.03	0.04	0.09
43.7R	0.09	0.01	0.11	0.21
44.7R	0.22	0.13	0.21	0.55
47.0L	0.00	0.00	0.00	0.00
47.9R	0.13	0.02	0.00	0.15
48.2R	0.17	0.00	0.05	0.22
62.5R	0.01	0.02	0.00	0.03
68.9L	0.01	0.01	0.18	0.19
78.0L	0.04	0.02	0.00	0.05

Site	Area by land cover type (acres)			Total
	Riparian forest	Riparian scrub/shrub	Ruderal herbaceous	
Total	0.75	0.66	0.86	2.28

I. Effects on Riparian Habitat Due to Construction Activities

Implementation of the Project would temporarily affect 1.41 acres of riparian vegetation, including an estimated 0.75 acres of riparian forest and 0.66 acre of riparian scrub/shrub. Based on review of the Project designs and on-site surveys, 20% of the existing trees are assumed to be permanently affected by the placement of rock around the root crown and by limb pruning or removal, both during initial construction activities and during operation and maintenance activities. The Project design incorporates the construction of riparian benches and upper slope plantings, and re-seeding with native plants. Therefore, although the Project would result in temporary, direct disturbance of vegetation and indirect disturbance of habitat for non-special status wildlife species, some lost riparian values would be restored to the Project area, and an additional habitat type will incorporated (i.e., emergent wetland benches (Table 4-11). The duration of the temporary impacts is dependent upon habitat type and/or species. Temporary impacts are assumed to persist for approximately 5 to 10 years for riparian forest and 2 to 4 years for riparian scrub.

Table 4-11. Estimated areas of newly created riparian habitat within the Project footprint.

Site	Area by land cover type (acres)	
	Created riparian	Created wetland
16.9L	0.06	0.06
19.0R	0.19	0.16
19.4R	0.09	0.08
22.7R	0.06	0.06
33.0R	0.25	NA
33.3R	0.18	NA
43.7R	0.78	0.31
44.7R	1.17	NA
47.0L	1.14	NA
47.9R	0.47	NA
48.2R	0.53	NA
62.5R	0.26	NA
68.9L	0.96	NA
78.0L	1.12	NA
Total	7.25	0.67

II. Effects on Overhead Shaded Riverine Aquatic Cover Due to Construction Activities

Implementation of the Project would temporarily affect portions of the total 9,817 lineal ft of bank, in several SRA cover classes (Fris and DeHaven 1993). Project effects include tree removal, pruning, and the placement of fill around the root crown and exposed roots. Initial (Year 0) shade values were conservatively estimated at 25% of existing conditions due to a combination of two factors. First, the bank fill projects serve to shift the bank line intersection of the seasonal water surfaces towards the channel centerline and away from the existing vegetation. Second, rock placement will remove all mid- and low-canopy shade that remains, with an estimated 20% loss to mature trees as well (as described above). Therefore, the combined shade of existing and planted trees means that little or no riparian shade would be present for several years (i.e., three to five) following Project start up (Table 4-12). However, in the longer-term, expected increases in canopy widths of both existing trees and trees and shrubs, which are planted on the constructed benches and upper slopes, would eventually result in improved SRA values, with an average increase of 53% (Table 4-12).

Table 4-12. Percent of Shaded Riverine Aquatic (SRA) habitat, in the Project construction footprint through time.

Sites (RM)	Existing SRA	Increase SRA years 1-10	Increase SRA at year 50
16.9L	64%	-48%	36%
19.0R	57%	-43%	43%
19.4R	88%	-66%	12%
22.7R	99%	-74%	1%
33.0R	34%	-26%	66%
33.3R	63%	-47%	37%
43.7R	61%	-46%	39%
44.7R	93%	-69%	7%
47.0L	11%	-9%	89%
47.9R	48%	-36%	52%
48.2R	41%	-31%	59%
62.5R	20%	-15%	80%
68.9L	0%	0%	100%
78.0L	25%	-19%	75%
Mean of individual site values	47%	-35%	53%

III. Effects on Ruderal Herbaceous Vegetation Due to Construction Activities

Implementation of the Project would temporarily affect 0.86 acres of ruderal herbaceous vegetation. The effects on ruderal vegetation would occur due to the placement of earthen fill and revetment and due to upper bank plantings and re-seeding with native plants. Ruderal herbaceous vegetation is not considered a sensitive natural community; therefore this impact is less than significant. Estimated recovery time of these communities is approximately two to three years.

IV. Effects on Open Water Due to Construction Activities

Implementation of the Project would affect open water habitat within the Sacramento River by displacing open water habitat with created riparian habitat or created wetland habitat. This will result in approximately 7.3 total acres of permanent reduction in open water habitat area below the MSWL. This impact on vegetation and wildlife is less than significant.

4.1.3 Mitigation

Project implementation would include the necessary on-site mitigation, and would incorporate an off-site mitigation area to the extent necessary to fully mitigate on-site impacts on vegetation and wildlife habitat. Therefore, no mitigation beyond what is incorporated into the Project description is required for impacts on vegetation and wildlife, and potential adverse effects due to the proposed Project would be less than significant for these resources.

4.2 Fish

This section describes the non-special-status fish resources and habitats present at the Project sites. Special-status fish species (i.e., those listed under the ESA or CESA) are discussed in Section 4.3. The impacts on non-special-status fish species at all Project sites, resulting from implementation of the Proposed Action alternative, are summarized (Table 4-13).

Table 4-13. Summary of impacts to non-special-status fish from the Proposed Action alternative.

Impact	Mitigation	Implementation period
I. Short-term Construction-related effects	Prepare and implement a Storm Water Pollution Prevention Plan	During and after construction
	Prepare and implement a Hazardous Materials Management Plan	During and after construction
II. Long-term operation and maintenance related effects	None required	Not applicable

4.2.1 Existing conditions

Non-special-status fish species that occur in Central Valley streams and rivers, including the Project sites, include river lamprey (*Lampetra ayresi*), striped bass (*Morone saxatilis*), American shad (*Alosa sapidissima*), largemouth bass (*Micropterus salmoides*), and several species of minnows (family Cyprinidae), sunfish (family Centrarchidae), and catfish (family Ictaluridae). The fish species assemblage in the Sacramento River also includes many other native and non-native species. In general, native species, such as Sacramento pikeminnow (*Ptychocheilus grandis*), hardhead (*Mylopharodon conocephalus*), Sacramento sucker (*Catostomus occidentalis*), and California roach (*Lavinia symmetricus*), spawn early in the spring. Many native fish species are adapted to rear in flooded areas that provide abundant cover and prey (Moyle 2002). With some exceptions, non-native species, such as green sunfish (*Lepomis cyanellus*), bluegill (*Lepomis macrochirus*), white catfish (*Ameiurus catus*) and channel catfish (*Ictalurus punctatus*), and largemouth bass spawn in late spring and in the summer. Many of the non-native fish species are more tolerant of warm water, low dissolved oxygen, and disturbed environments than native species. In general, they are adapted to warm, slow-moving and nutrient-rich waters (Moyle 2002).

4.2.2 Environmental effects

Effects on fisheries would be considered significant if construction or maintenance of the Proposed Alternative would:

- Substantially interfere with the movement of any resident or migratory fish.
- Substantially diminish habitat for any fish life stage or result in displacement of spawning fish such that year-class strength is substantially reduced.
- Cause production and/or discharge of materials that pose a hazard to fish.

These effects upon non-special-status species are similar to those affecting special-status species, which are discussed in detail in Section 4.3. In general, impacts on non-special-status fish species are considered not significant because the populations of the non-special-status species are generally large and the potential effects on the population are minor.

4.2.2.1 No Action alternative

The potential adverse effects of the No Action alternative on non-special status fish would primarily result from complete levee failure that would potentially result in transport of fish out of the Sacramento River into areas where they are likely to become stranded, as well as post-failure levee repair measures that would include both short-term construction-related effects as well as longer-term effects on habitat. Short-term adverse effects of post-failure levee repair could include increases in turbidity and suspended sediment that may disrupt feeding activities or result in temporary displacement of individuals from preferred habitats. High concentrations of suspended sediment can also bury stream substrates that provide habitat for aquatic invertebrates, an important food source for many fish species.

Flooding during a levee break would likely entrain toxic substances into the water, including gasoline, lubricants, insecticides, pesticides, sewage, and other petroleum-based products, that could enter the Sacramento River. These substances can kill aquatic organisms

through exposure to lethal concentrations. Exposure to non-lethal levels can cause physiological stress and increased susceptibility to other sources of mortality.

Although unlikely, direct mortality of individuals could also occur as a result of in-water construction activities such as placement of rock revetment during repair of any breached levees.

Longer-term adverse effects could include reduced near-shore habitat value for spawning, incubating, rearing, and adult life stages of non-special-status fish. These effects would result from addition of rock revetment and removal or burial of riparian and emergent vegetation at emergency bank repair locations.

Because BMPs and mitigation measures may not be implemented for post-failure emergency bank repair actions that could occur under the No Action alternative, avoiding the short-term and long-term effects described above would be difficult. However, impacts on non-special-status fish species under the No Action alternative are not considered significant because the populations of these species are generally large and the potential effects on the population are minor.

4.2.2.2 Proposed Action alternative

The Sacramento River channel and bank would be affected by construction of the bank protection project. Potential short-term effects of the proposed Project on non-special-status fish species are expected to be the same as those described above for the levee repair activities of the No Action alternative. However, implementation of the mitigation measures and BMPs described below would avoid or minimize short-term adverse impacts on non-special-status fish and the effects would therefore be less than significant.

Under the Proposed Action alternative, engineered habitat features at many sites and implementation of BMPs would protect or create habitat for some non-special-status fish species. Long-term effects of the proposed bank protection Project on non-special-status fish would therefore be less than significant.

4.2.3 Mitigation

The Corps would require the contractor to submit to the Regional Water Quality Control Board (RWQCB) a notice of intent to discharge stormwater before the beginning of construction activities; development and implementation of a storm water pollution prevention plan (SWPPP), as required by the conditions of a National Pollutant Discharge Elimination System (NPDES) permit. The Corps would prepare a SWPPP that identifies best management practices (BMPs) for discharges (Section 4.4.4 and Appendix D). The SWPPP would include a 401 permit, an erosion control and restoration plan, a water quality monitoring plan, a hazardous materials management plan, and post-construction BMPs. The BMPs would be maintained until all areas disturbed during construction have been adequately revegetated and stabilized.

The specific BMPs that would be incorporated into the SWPPP would be determined during the final stages of Project design. However, the SWPPP would include one or more of the following standard practices, which are commonly used during the construction and post-

construction phases of levee improvement projects. (Due to the declared emergencies by the State Governor's Office and the Corps, some of these common BMPs may be modified.)

- Conduct earthwork during July through November, which are relatively dry months (see Section 2.12).
- Stage construction equipment and materials on the landside of the subject levee reaches. To the extent possible, stage equipment and materials in areas that have already been disturbed.
- Minimize ground and vegetation disturbance during Project construction by establishing designated equipment staging areas, ingress and egress corridors, spoils disposal and soil stockpile areas, and equipment exclusion zones prior to the commencement of any grading operations.
- Stockpile soil and grading spoils on the landside of the subject levee reaches, and install sediment barriers (e.g., silt fences, fiber rolls, straw bales) around the base of stockpiles to intercept runoff and sediment during storm events. If necessary, cover stockpiles with geotextile fabric to provide further protection against wind and water erosion.
- Install sediment barriers on graded or otherwise disturbed slopes as needed to prevent sediment from leaving the Project site and entering nearby surface waters.
- Use and store hazardous materials, such as vehicle fuels and lubricants, in designated staging areas located away from surface waters. Implement a spill prevention and control plan that specifies measures that will be used to prevent, control, and clean up hazardous material spills.
- Install plant materials to stabilize cut and fill slopes and other disturbed areas once construction is complete. Plant materials may include an erosion control seed mixture or shrub and tree container stock. Temporary structural BMPs, such as sediment barriers, erosion control blankets, mulch, and mulch tackifier, may be installed as needed to stabilize disturbed areas until vegetation becomes established. Implementation of the BMPs specified in the erosion control plan and SWPPP would substantially reduce the potential for accelerated erosion and sedimentation to occur as a result of construction-related ground and vegetation disturbance.

With the implementation of the mitigation measures described above, the proposed Project would not have substantial adverse effects on non-special-status fish or their habitat, or interfere with their movement. The Project would not conflict with the provisions of any Habitat Conservation Plan or Natural Community Conservation Plan for non-special-status fish. As a result, potential effects due to the proposed Project (compared to the No Action alternative) would be less than significant for non-special-status fish.

4.3 Special-status Species

4.3.1 Introduction

This section describes the special-status species, specifically, federal and state listed species, candidate species, and species of concern that may be present or have the potential to occur at the Project sites. The potential effects on special-status species resulting from implementation of the Proposed Action alternative have been summarized (Table 4-14).

Table 4-14. Summary of potential effects on special-status species from the Proposed Action alternative.

Impact	Erosion sites	Mitigation	Implementation period
<i>Special-status fish</i>			
I. Short-term construction-related effects (all special-status fish species)	All sites	Prepare and implement a Storm Water Pollution Prevention Plan that includes BMPs for discharges	During and after construction
		Prepare and implement a Hazardous Materials Management Plan	During and after construction
II. Long-term impacts on listed Chinook salmon (<i>Oncorhynchus tshawytscha</i>) and steelhead (<i>Oncorhynchus mykiss</i>) juveniles, smolts, and adults and designated critical habitat		Implement off-site mitigation measures described in Section 2.9	After construction
III. Long-term impacts on delta smelt (<i>Hypomesus transpacificus</i>) spawning and incubation and juvenile rearing life stages and designated critical habitat		Implement off-site mitigation measures described in Section 2.9	After construction
IV. Long-term impacts on green sturgeon (<i>Acipenser medirostris</i>) juveniles and adults	Implement off-site mitigation measures described in Section 2.9	After construction	

Impact	Erosion sites	Mitigation	Implementation period
V. Long-term impacts on Sacramento splittail (<i>Pogonichthys macrolepidotus</i>) juveniles		Implement off-site mitigation measures described in Section 2.9	After construction
<i>Special-status wildlife</i>			
I. Long-term construction-related effects on valley elderberry longhorn beetle (<i>Desmocerus californicus dimorphus</i>)	Sites RM 44.7R, 47.0L, 47.9R, and 48.2R	Implement on-site mitigation measures described in Section 4.3.3.1, with possible off-site mitigation required	During and after construction
II. Short-term construction-related effects on western pond turtle (<i>Clemmys marmorata</i>)	Sites RM 43.7R, 44.7R, 19.0R, and 22.7R	Survey each site to determine if species exists at the site. Limit construction activities if individuals are present and on site mitigation measures (see Section 4.3.3.1)	During construction
III. Short-term construction-related effects on special-status birds	All sites	Limit construction activities until young have fledged if nesting birds are present (See Section 4.3.3.1)	During construction
<i>Special-status plants</i>			
I. Short-term construction-related effects on special-status plants	None documented at present.	If documented during June surveys; see on-site mitigation measures described in Section 4.3.4.5	During and after construction

4.3.2 Existing conditions

Information on special-status species that may be affected by the Proposed Actions at each of the Project sites was gathered from various sources:

- the USFWS online services (data updated on October 27, 2006 and accessed on November 10, 2006);

- a letter from Stillwater Sciences to the National Marine Fisheries Service (NMFS) sent on July 25, 2006;
- CDFG’s California Natural Diversity Database (CDFG 2006); and
- the California Native Plant Society’s (CNPS) online Inventory of Rare and Endangered Vascular Plants of California (CNPS 2006).

Each query was based on a search of the USGS 7.5’ quadrangle on which the Project is located, and its surrounding eight quadrangles; the counties and quadrangles searched for each of the sites were tabulated (Table 4-15). The resulting USFWS queries are included as Appendix A. A synthesis of all the queries (i.e., USFWS, CNDDDB, CNPS for plants, and NMFS for fish) is included in Appendix Table B-1. All lists were thoroughly reviewed; habitat preferences for each species were compared with detailed Project description information to determine which species to address in this EA.

Table 4-15. Quadrangles and counties queried for each of the erosion sites.

Site	Quadrangle name	County	Surrounding quadrangles
RM 16.9L	Isleton (480A)	Sacramento	Liberty Island (497C), Courtland (497D), Thornton (479B), Terminous (479C), Bruceville (496C), Rio Vista (480B), Jersey Island (480C), Bouldin Island (480D)
RM 19.0R	Isleton (480A)	Yolo	Liberty Island (497C), Courtland (497D), Thornton (479B), Terminous (479C), Bruceville (496C), Rio Vista (480B), Jersey Island (480C), Bouldin Island (480D)
RM 19.4R	Isleton (480A)	Yolo	Liberty Island (497C), Courtland (497D), Thornton (479B), Terminous (479C), Bruceville (496C), Rio Vista (480B), Jersey Island (480C), Bouldin Island (480D)
RM 22.7R	Courtland (497D)	Sacramento	Isleton (480A), Rio Vista (480B), Florin (496B), Bruceville (496C), Thornton (479B), Clarksburg (497A), Saxon (497B), Liberty Island (497C)

RM 33.0R	Courtland (497D)	Sacramento	Isleton (480A), Rio Vista (480B), Florin (496B), Bruceville (496C), Thornton (479B), Clarksburg (497A), Saxon (497B), Liberty Island (497C)
RM 33.3R	Courtland (497D)	Sacramento	Isleton (480A), Rio Vista (480B), Florin (496B), Bruceville (496C), Thornton (479B), Clarksburg (497A), Saxon (497B), Liberty Island (497C)
RM 43.7R	Clarksburg (497A)	Yolo	Davis (513C), Sacramento West (513D), Florin (496B), Bruceville (496C), Sacramento East (512C), Saxon (497B), Liberty Island (497C), Courtland (497D)
RM 44.7R	Clarksburg (497A)	Yolo	Davis (513C), Sacramento West (513D), Florin (496B), Bruceville (496C), Sacramento East (512C), Saxon (497B), Liberty Island (497C), Courtland (497D)
RM 47.0L	Clarksburg (497A)	Sacramento	Davis (513C), Sacramento West (513D), Florin (496B), Bruceville (496C), Sacramento East (512C), Saxon (497B), Liberty Island (497C), Courtland (497D)
RM 47.9R	Clarksburg (497A)	Yolo	Davis (513C), Sacramento West (513D), Florin (496B), Bruceville (496C), Sacramento East (512C), Saxon (497B), Liberty Island (497C), Courtland (497D)
RM 48.2R	Clarksburg (497A)	Yolo	Davis (513C), Sacramento West (513D), Florin (496B), Bruceville (496C), Sacramento East (512C), Saxon (497B), Liberty Island (497C), Courtland (497D)

RM 62.5R	Sacramento West (513D)	Yolo	Clarksburg (497A), Saxon (497B), Rio Linda (512B), Sacramento East (512C), Florin (496B), Taylor Monument (513A), Grays Bend (513B), Davis (513C)
RM 68.9L	Taylor Monument (513A)	Sacramento	Knights Landing (529C), Verona (529D), Rio Linda (512B), Sacramento East (512C), Pleasant Grove (528C), Grays Bend (513B), Davis (513C), Sacramento West (513D)
RM 78.0L	Verona (529D)	Sutter	Taylor Monument (513A), Grays Bend (513B), Sheridan (528B) Pleasant Grove (528C), Rio Linda (512B), Nicolaus (529A), Sutter Causeway (529B), Knights Landing (529C)

Five special-status plant species have the potential to occur at one or more of the Project sites: rose-mallow (*Hibiscus lasiocarpus*), Northern California black walnut (*Juglans hindsii* = *J. californica* var. *hindsii*), delta tule pea (*Lathyrus jepsonii* var. *jepsonii*), Mason's lilaeopsis (*Lilaeopsis masonii*), delta mudwort (*Limosella subulata*).

Ten special-status wildlife species could potentially inhabit Project sites; six of these are the valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), western pond turtle (*Clemmys marmorata*), tricolored blackbird (*Agelaius tricolor*), Cooper's hawk (*Accipiter cooperii*), Swainson's hawk (*Buteo swainsoni*), white-tailed kite (*Elanus leucurus*). The rookeries of these four special-status wildlife species could also potentially be within Project sites: the great egret (*Ardea alba*), great blue heron (*Ardea herodias*), snowy egret (*Egretta thula*), and black-crowned night heron (*Nycticorax nycticorax*).

The following special-status species and salmonid Evolutionarily Significant Units (ESU) occur or have the potential to occur at one or more of the Project sites: Sacramento River winter-run Chinook salmon ESU (*Oncorhynchus tshawytscha*), Central Valley spring-run Chinook salmon ESU, fall-/late-fall run Chinook salmon ESU, Central Valley steelhead ESU (*Oncorhynchus mykiss*), delta smelt (*Hypomesus transpacificus*), green sturgeon (*Acipenser medirostris*) and Sacramento splittail (*Pogonichthys macrolepidotus*).

Based on reconnaissance site surveys conducted in October 2006, giant garter snake habitat was determined to be absent at all of the Project sites (K. Turner, Biologist, USFWS, Sacramento, California, November 3, 2006).

These special-status species are further discussed below.

4.3.2.1 Valley elderberry longhorn beetle

Status

The valley elderberry longhorn beetle is federally listed as threatened. The USFWS has designated critical habitat for the beetle along the American River Parkway and an area within the Sacramento metropolitan area (54 FR 48229). The Project sites do not fall within the two areas designated as critical habitat.

Distribution and life history

A California endemic species, the valley elderberry longhorn beetle is found in scattered populations throughout its range. The species' range includes most of the California Central Valley (Barr 1991). The adults feed exclusively on elderberry (*Sambucus* spp.) foliage and are active from early March through early June. The beetles mate in May and females lay eggs on living elderberry shrubs. Larvae bore through the stems of the shrubs to create an opening in the stem within which they pupate. After metamorphosing into an adult, the beetle chews a circular exit hole through which it emerges (Barr 1991).

Occurrence in the Project area

Elderberry surveys at each of the 14 erosion sites were conducted in November 2006, following USFWS (1999) guidelines. A total of 104 shrubs and 166 stems were located at four Sites: RM 44.7R, 47.0L, 47.9R, and 48.2R (Appendix C-1, Figures C1-8–C1-11). The results of elderberry surveys conducted in November 2006 are summarized in Appendix C-2. At Site RM 44.7R, 87 shrubs were identified, of which 72 were within 100 feet of the Project footprint, although none were inside of the footprint itself. At Site RM 47.0L, eight shrubs were identified, all of which were within 100 feet of the Project footprint, though none were inside of the footprint itself. At Site RM 47.9R, three shrubs were identified, all of which were located within the Project footprint. At Site RM 48.2R, six shrubs were identified, one of which had a potential exit hole. Four of the six shrubs observed, including the shrub with the possible exit hole, were located inside of the Project footprint; the other two were within 100 feet of the Project footprint.

The season to survey valley elderberry longhorn beetle and exit holes is March–June, consequently additional surveys would need to be conducted at this time to determine species presence or absence from these sites.

4.3.2.2 Western pond turtle

Status

The western pond turtle is state listed as a species of special concern.

Life history and distribution

The western pond turtle is the only freshwater turtle native to the west coast of temperate North America. They inhabit fresh or brackish water habitats characterized by areas of deep water, low flow velocities, moderate amounts of riparian vegetation, warm water and/or ample basking sites, and underwater cover elements such as large woody debris and rocks. Along major rivers, western pond turtles are often concentrated in areas of optimal habitat, often in side

channel and backwater areas. Turtles may move to off-channel habitats, such as oxbows, during periods of high flows (Holland 1994). Western pond turtles feed underwater (Reese 1996) on slow-moving aquatic insects, carrion, and aquatic vegetation (Jennings and Hayes 1994, Zeiner et al. 1988) occasionally preying on small fish, frogs, and on the egg masses of native ranid frogs (Holland 1994). Although an aquatic reptile, western pond turtles spend time on land basking, overwintering, nesting, and moving between ephemeral sources of water (Reese 1996). In regions of California with cold winters, western pond turtles take refuge in over wintering sites in October or November.

Low fecundity, low hatchling and juvenile survivorships, high adult survivorship, and potentially long lifespans are characteristic of this species (Jennings et al. 1992). In California, sexual maturity is reached at 7 to 11 years of age, with one individual's lifespan recorded as at least 42 years in Trinity County (Jennings and Hayes 1994). Breeding activity peaks from June to July. Egg-laying sites vary from sandy shoreline to forest soil types. Incubation takes 73 to 80 days (Feldman 1982, Zeiner et al. 1988) with hatchlings remaining in the nest over winter and emerging the following spring (Jennings et al. 1992). Although adults are habitat generalists, hatchlings and juveniles require very specialized habitat for survival through their first few years. Hatchlings spend much of their time feeding in shallow water with dense vegetation of submergents or short emergents (D. Holland, pers. comm., as cited in Jennings and Hayes 1994). Habitats preferred by juveniles are relatively scarce and subject to disturbance (Jennings et al. 1992).

The western pond turtle is found west of the Sierra-Cascade crest and from western Washington south to northwest Baja California (Stebbins 1985). Two subspecies are present in California, the southwestern pond turtle (*C. m. pallida*) and the northwestern pond turtle (*C. m. marmorata*) with the San Joaquin Valley as an intergrade zone (Stebbins 1985).

Occurrence in the Project area

Within the Project sites, habitat for the western pond turtle was documented at Sites RM 19.0R, 22.7R, 43.7R, and 44.7R during November 2006 surveys.

4.3.2.3 Tricolored blackbird

Status

The tricolored blackbird is state listed as a species of special concern.

Life history and distribution

Tricolored blackbirds forage in a variety of habitats, including pastures, croplands, grassy fields, ephemeral pools and ponds, and agricultural fields, as well as riparian scrub, saltbush, freshwater marsh, and grassland habitats (Miller and Hornaday 1999, Beedy and Hamilton 1999). Tricolored blackbirds are opportunistic omnivores, feeding on plant material and detritus, including seeds and cultivated grains, and aquatic and terrestrial invertebrates, particularly worms and beetles (Zeiner et al. 1990, Crase and DeHaven 1977, Skorupa et al. 1980).

Tricolored blackbirds are polygynous and usually breed in mid-April through July (Zeiner et al. 1990). Tricolored blackbirds may live up 13 years with females reaching sexual

maturity at one year and males at two years. Tricolored blackbirds need open, accessible water at or near the breeding site, protected nesting substrate flooded by at least one foot of water (W. J. Hamilton, III, pers. comm., 2002) and/or with spiny or thorny vegetation³, and suitable foraging grounds within a few miles (< 5 miles) of the nesting colony⁴) for successful breeding (Beedy and Hamilton 1997). Minimum patch size required for breeding was estimated to be between 3 and 5 acres of suitable nesting substrate (W. J. Hamilton, III, pers. comm., 2002; E. C. Beedy, pers. comm., 2002).

Nests are made of mud and plant material and located 2 m above the ground or water (DeHaven and Neff 1973, as cited in Miller and Hornaday 1999, Neff 1937, Payne 1969, Zeiner et al. 1990). Nest building and incubation of eggs is performed solely by the female, with the male assisting in feeding of the nestlings. Breeding activities within a single colony are usually synchronous with each female laying three to four eggs. Eggs hatch within 12 days, and the young fledge two weeks later (Payne 1969). By early fall populations of tricolored blackbirds become nomadic, in search of adequate food and suitable wintering habitat (Zeiner et al. 1990).

The tricolored blackbird is largely endemic to California, with its range barely extending into southern Oregon and northern Baja California (Small 1994). The species is common locally throughout the Central Valley and in coastal areas from Humboldt and Mendocino counties south (Zeiner et al. 1990, Small 1994). A majority of the colonies found in the Central Valley are at elevations of 20–400 feet (DeHaven et al. 1975a, as cited in Miller and Hornaday 1999). During winter, the species is more abundant and widespread along the central coast and San Francisco Bay Area (Grinnell and Miller 1944, McCaskie et al. 1979, Garrett and Dunn 1981). Breeding occurs inland throughout the Central Valley, north to Shasta County, as well as along the coast of California and Baja California. Large postbreeding roosts, however, have been observed in the Sacramento Valley (W. J. Hamilton, III, pers. obs., as cited in Beedy and Hamilton 1997). Although they have been observed wintering throughout their range, tricoloreds tend to aggregate near the delta and San Francisco Bay Area, as far north as Napa County and as far south as Santa Cruz, during the wintering season (DeHaven et al. 1975b). Tricolored blackbirds leave wintering areas in the delta and along coastal central California in late March and early April.

Habitat loss, through urbanization and agricultural development, has eliminated much of the historically available tricolored blackbird habitat (Beedy and Hamilton 1997). Extensive marsh drainage and habitat destruction has reduced breeding habitat for tricolored blackbirds (Zeiner et al. 1990).

Occurrence in the Project area

Within the Project sites, suitable habitat for the tricolored blackbird was documented during November 2006 surveys at Sites RM 19.0R and 43.7R.

³ Spiny or thorny vegetation provides protection from black-crowned night herons, which continue to pose a major threat to tricolored blackbird colonies in the Central Valley (T. Beedy, pers. comm.).

⁴ Tricolored blackbirds forage in a variety of habitats, including pastures, croplands, grassy fields, ephemeral pools and ponds, agricultural fields, as well as riparian scrub, saltbush, freshwater marsh, and grassland habitats (Miller and Hornaday 1999, Beedy and Hamilton 1999). In addition to consuming insects, tricolored blackbird also eat seeds and cultivated grains, such as rice and oats, particularly during the winter (Crane and DeHaven 1977).

4.3.2.4 Swainson's hawk

Status

The Swainson's hawk is a migratory bird protected under the Federal Migratory Bird Treaty Act. In California, it is a listed threatened species by the California Endangered Species Act (CESA).

Life history and distribution

Swainson's hawk is a migratory raptor that is a spring and summer resident in California's Central Valley, where it breeds. The highest nesting densities occur near Davis and Woodland, Yolo County. Nesting occurs in juniper-sage flats, riparian areas, and oak savannahs that are adjacent to grasslands or agricultural fields and that support its breeding season prey. In the Central Valley, Swainson's hawks often nest in close proximity to a riparian zone. Nesting activities can begin in March, and fledging of the chicks can occur as late as mid-August.

Occurrence in the Project area

Within the Project sites, suitable Swainson's hawk nesting habitat was documented during the November 2006 site visit at Sites RM 16.9L, 19.0R, 19.4R, 33.0R, 33.3R, 44.7R, 47.0L, 47.9R, 48.2R, 68.9L, and 78.0L. Further survey visits in spring and summer will be needed to assess the possible occurrence of nesting Swainson's hawks.

4.3.2.5 Cooper's hawk

Status

Cooper's hawk is listed as a federal species of concern.

Life history and distribution

This species is a breeding resident throughout most of the wooded portion of California, except at high altitudes in the Sierra Nevada. Cooper's hawk winters in the Central Valley, southern desert regions, and plains east of the Cascade Range. Dense stands of live oak, riparian deciduous or other forest habitats near water are used most frequently. Cooper's hawk breeds March through August, with peak activity in May through July.

Occurrence in the Project area

Within the Project sites, suitable Cooper's hawk nesting habitat was documented during the November 2006 site visit at Sites RM 22.7R, 33.0R, 44.7R, 47.0L, 47.9R, 48.2R, and 78.0L. Additionally, suitable nesting habitat was observed within 0.4 km of Sites RM 19.0R and 19.4R.

4.3.2.6 White-tailed kite

Status

White-tailed kite is listed as a species that is fully protected in the State of California by the California Department of Fish and Game.

Life history and distribution

This species is an inconsistently common/uncommon breeding resident that occurs throughout the Central Valley, and is rarely found away from agricultural areas in lowlands west of the Sierra Nevada. It is nonmigratory but may make slight seasonal range shifts in coastal areas (Binford 1979, Zeiner et al. 1990). White-tailed kite inhabits herbaceous and open habitats with thick oak and/or willow and Fremont cottonwood stands for nesting. Preferred foraging sites include wetlands and grasslands. Prime habitat includes herbaceous lowlands with minimal tree growth and abundant small mammal prey. Groves of trees are required for perching and nesting. This species is generally monogamous and breeds from February to October. It nests in loosely piled sticks built near the top of dense oak or other tree stands 18–61 feet above ground (Dixon et al. 1957). Breeding behavior peaks from May to August, when a single clutch of four to eight eggs is laid. This species preys on voles and other small mammals, as well as birds, insects, and reptiles. They often roost communally in winter (up to 100 or more birds) but are usually solitary hunters (Ehrlich et al. 1988).

Occurrence in the Project area

In November 2006, site surveys were conducted, and while no white-tailed kites were observed, suitable nesting habitat was documented at Sites RM 16.9L, 22.7R, 33.0R, 33.3R, 44.7R, 47.0L, 47.9R, 48.2R, and 68.9L. Additionally, suitable nesting habitat was observed within 0.4 km of Sites RM 19.0R and 43.7R.

4.3.2.7 Great egret rookery

Status

Great egret rookeries (breeding colonies) are designated by CNDDDB (S4, G5) as secure throughout the state and worldwide range of the great egret; however, factors exist to cause concern of narrowing habitat or continuing threats.

Life history and distribution

The great egret is a monogamous, colonial nester that nests in large trees. Egrets forage in aquatic habitats such as streams, marshes, wet meadows, shallow lakes, and estuaries on aquatic invertebrates, frogs, and fish. It often nests in mixed colonies with great blue herons, and requires groves of large trees for nesting, often eucalyptus, redwood, or Monterey pine. The species breeds from March to July (Maxwell and Kale 1977, Palmer 1962).

Great egrets are widely distributed across North America and throughout the length of California.

Occurrence in the Project area

In November 2006, site surveys were conducted, and while neither individual great egrets nor rookeries were observed, suitable habitat was documented at each of the Project sites.

4.3.2.8 Great blue heron rookery

Status

Great blue heron rookeries are designated by CNDDDB (S4, G5) as secure throughout the state and worldwide range of the great blue heron; however, factors exist to cause concern of narrowing habitat or continuing threats.

Life history and distribution

The great blue heron breeds over much of North America. Great blue herons are sometimes solitary nesters, but often occur in mixed colonies with great egrets and other birds. It usually nests near brackish or freshwater marshes, swamps, rivers, or lakes, selecting trees, shrubs, or rock ledges for nest sites. It will occasionally nest on the ground; however, large trees or snags in secluded locations are preferred nesting sites. The species is monogamous, and courtship and nesting activities begin in February. Clutch size averages three to four eggs but can range from one to five eggs. Young reach maturity at two years (Pratt 1970). This species requires ponds, lakes, rivers, streams, marshes, or wet meadows for foraging on aquatic invertebrates and fish (Cogswell 1977). It stalks its prey in shallow water and feeds its young a diet consisting mostly of fish.

Occurrence in the Project area

In November 2006, site surveys were conducted, and while neither individual great blue herons nor rookeries were observed, suitable habitat was documented at each of the Project sites.

4.3.2.9 Black-crowned night heron rookery

Status

Black-crowned night heron rookeries are designated by CNDDDB (S3, G5) as restricted throughout the statewide range of the species; however, factors exist to cause concern of narrowing habitat or continuing threats.

Life history and distribution

The black-crowned night heron is found throughout most regions of California where appropriate habitat is present. Black-crowned night herons are nocturnal piscivores that forage in a wide variety of marine and freshwater habitats. Black-crowned night herons are colonial roosters and require daytime roosts in willows or other trees that are relatively undisturbed by human activities. They nest in the dense foliage of trees, marshes, shrubbery, or vines, usually close to water (Zeiner et al. 1990). Black-crowned night herons are impacted by human disturbance at roosting and nesting sites as well as reduction of wetland habitat (Zeiner et al. 1990).

Occurrence in the Project area

In November 2006, site surveys were conducted, and while neither individual black-crowned night herons nor rookeries were observed, suitable habitat was documented at each of the Project sites.

4.3.2.10 Snowy egret rookery

Status

Snowy egret rookeries are designated by CNDDDB (S4, G5) as secure throughout the state and worldwide range of the species; however factors exist to cause concern of narrowing habitat or continuing threats.

Life history and distribution

Snowy egrets feed in a variety of fresh and brackish habitats, where they catch small fish, crustaceans, and a variety of insects. Nesting usually occurs in colonies, and nests are placed low in trees, shrubs, or in dense marshes near suitable foraging habitat (Zeiner et al. 1990). The snowy egret is highly sensitive to human disturbance at the nest site (Zeiner et al. 1990).

The snowy egret occurs throughout North America. In California, it is a resident species with a widespread distribution, though known nesting areas in the Central Valley are rare.

Occurrence in the Project area

In November 2006, site surveys were conducted, and while neither individual snowy egrets nor rookeries were observed, suitable habitat was documented at each of the Project sites.

4.3.2.11 Sacramento River winter-run Chinook salmon

Status

The Sacramento River winter-run Chinook salmon ESU was listed as endangered under the California Endangered Species Act and threatened under the federal ESA in 1989 (54 FR 32085). After several years of low escapements, NMFS subsequently upgraded the federal listing to endangered in 1994 (59 FR 440). NMFS designated critical habitat for Sacramento River winter-run Chinook salmon in 1993 (58 FR 33213).

Life history and distribution

Sacramento River winter-run Chinook salmon spend 1–3 years in the ocean. Adult Sacramento River winter-run Chinook salmon leave the ocean and migrate through the delta into the Sacramento River from December through July, with peak migration in March (Moyle 2002). Adults spawn from mid-April through August (Moyle 2002). Egg incubation continues through October. The primary spawning habitat in the Sacramento River is above Red Bluff Diversion Dam at RM 243, although spawning has been observed downstream as far as RM 218 (NMFS 2001). Spawning success below the Red Bluff Diversion Dam may be limited primarily by warm water temperatures (Hallock and Fisher 1985, Yoshiyama et al. 1998).

Downstream movement of juvenile Sacramento River winter-run Chinook salmon begins in August soon after fry emerge. The peak abundance of juveniles moving downstream occurs at Red Bluff in September and October (Vogel and Marine 1991). Juvenile Chinook salmon move downstream from spawning areas in response to many factors, which may include inherited behavior, habitat availability, flow, competition for space and food, and water temperature. The number and timing of juvenile movements are highly variable. Storm events and the resulting high flow and turbidity appear to trigger downstream movement of substantial numbers of juvenile Chinook salmon.

Sacramento River winter-run Chinook salmon smolts (i.e., juveniles that are physiologically ready to enter seawater) may migrate through the delta and bay to the ocean from November through May (Yoshiyama et al. 1998). In general, juvenile abundance in the delta increases in response to increased Sacramento River flow (Brandes and McLain 2001). The

Sacramento River channel is the main migration route through the delta. However, the Yolo Bypass also provides significant outmigration passage during higher flow events.

During winter in the Sacramento-San Joaquin system, juveniles rear on seasonally inundated floodplains. Sommer et al. (2001) found higher growth and survival rates of juvenile Chinook salmon that reared on the Yolo Bypass floodplain compared with those that reared in the mainstem Sacramento River.

Occurrence in the Project area

Sacramento River winter-run Chinook salmon occur at the Project sites, either as adults migrating upstream to their spawning habitat, or as juveniles, rearing and migrating towards the ocean. Juvenile Chinook salmon tend to utilize bank habitat more frequently than the main channel because it provides increased protection, shade, and food.

4.3.2.12 Central Valley spring-run Chinook salmon

Status

The Central Valley spring-run Chinook salmon ESU was federally listed as threatened on September 16, 1999 (64 FR 50393). The threatened status of Central Valley spring-run Chinook salmon was reaffirmed in NMFS' final listing determination issued on June 28, 2005 (70 CFR 37160). Critical habitat for Central Valley spring-run Chinook salmon was designated by NMFS on September 2, 2005 (70 FR 52488).

Life history and distribution

Adult Central Valley spring-run Chinook salmon enter the mainstem Sacramento River from March through September, with the peak upstream migration occurring from May through June (Yoshiyama et al. 1998). Central Valley spring-run Chinook salmon are sexually immature during upstream migration, and adults hold in deep, cold pools near spawning habitat until spawning commences in late summer and fall. Central Valley spring-run Chinook salmon spawn in the upper reaches of the mainstem Sacramento River and tributary streams (Myers et al. 1998), with the largest tributary runs occurring in Butte, Deer, and Mill creeks (Yoshiyama et al. 1998). Spawning typically begins in late August and may continue through October. Juveniles emerge in November and December in most locations, but may emerge later when water temperature is cooler. Newly emerged fry remain in shallow, low-velocity edgewater (CDFG 1998).

Juvenile Central Valley spring-run Chinook salmon have highly variable rearing and outmigration patterns, with juveniles rearing anywhere from 3 to 15 months before outmigrating to the ocean (Fisher 1994). Scale analyses indicate that most returning adults (> 90%) have emigrated as subyearlings (Myers et al. 1998). Rearing takes place in their natal streams, the mainstem of the Sacramento River, inundated floodplains (including the Sutter and Yolo bypasses), and the delta. Based on observations in Butte Creek and the Sacramento River, young-of-year juveniles typically migrate from November through May. Yearling Central Valley spring-run Chinook salmon migrate from October to March, with peak migration in November (S. P. Cramer and Associates 1997, Hill and Webber 1999). Downstream migration

of yearlings typically coincides with the onset of the winter storm season, and migration may continue through March (CDFG 1998).

Occurrence in the Project area

Central Valley spring-run Chinook salmon occur at the Project sites, either as adults migrating upstream to their spawning habitat, or as juveniles, rearing and migrating towards the ocean. Juvenile Chinook salmon tend to utilize bank habitat more frequently than the main channel because it provides increased protection, shade, and food.

4.3.2.13 Central Valley fall-/late fall-run Chinook salmon

Status

Central Valley fall-/late fall-run Chinook salmon is not listed under the CESA or ESA, but is classified by NMFS as a species of concern (69 FR 19975) and considered a California species of special concern. Central Valley fall-/late fall-run Chinook salmon occur at the Project sites, either as adults migrating upstream to their spawning habitat, or as juveniles and smolts, rearing and migrating towards the ocean.

Life history and distribution

Adult Central Valley fall-run Chinook salmon migrate into the Sacramento River and its tributaries from June through December in mature condition and spawn from late September through December, soon after arriving at their spawning grounds (Yoshiyama et al. 1998). The spawning peak occurs in October and November. Emergence occurs from December through March, and juveniles migrate downstream through the delta and out to the ocean soon after emerging, rearing in fresh water for only a few months. Smolt outmigration typically occurs from March through July (Yoshiyama et al. 1998).

Late Central Valley fall-run Chinook salmon migrate upstream before they are sexually mature, and hold near the spawning grounds for 1 to 3 months before spawning. Upstream migration takes place from October through April and spawning occurs from late January through April, with peak spawning in February and March (Yoshiyama et al. 1998). Fry emerge from their redds from April through June. Juvenile Central Valley late fall-run Chinook salmon rear in their natal stream during the summer, and in some streams they remain throughout the year. Smolt outmigration can occur from November through May (Yoshiyama et al. 1998).

Occurrence in the Project area

Central Valley fall-/late fall-run Chinook salmon occur at the Project sites, either as adults migrating upstream to their spawning habitat, or as juveniles and smolts, rearing and migrating towards the ocean.

4.3.2.14 Central Valley steelhead

Status

Central Valley steelhead was federally listed as threatened on March 19, 1998 (63 FR 13347), reaffirmed in NMFS final listing determination on January 5, 2006 (71 FR 834), and critical habitat for Central Valley steelhead was designated on February 16, 2000 (65 FR 7764).

Life history and distribution

Central Valley steelhead ranged throughout the tributaries of the Sacramento and San Joaquin rivers prior to dam construction, water development, and watershed perturbation of the 19th and 20th centuries. Wild stocks are now mostly confined to the upper Sacramento River downstream of Keswick Dam; upper Sacramento River tributaries such as Deer, Mill, and Antelope creeks; and the Yuba River downstream of Englebright Dam. The abundance of naturally reproducing Central Valley steelhead, as measured by the number of adults returning to spawn, is largely unknown. Natural escapement in 1995 was estimated to be about 1,000 adults each for Mill and Deer creeks and the Yuba River (S.P. Cramer and Associates 1995). Hatchery returns have averaged around 10,000 adults (Mills and Fisher 1994). The most recent annual estimate of adults spawning upstream of Red Bluff Diversion Dam is less than 2,000 fish (71 FR 834).

Steelhead have one of the most complex life histories of any salmonid species, exhibiting both anadromous and freshwater resident life histories. Freshwater residents typically are referred to as rainbow trout, and those exhibiting an anadromous life history are called steelhead. Steelhead exhibit highly variable life history patterns throughout their range, but are broadly categorized into winter and summer reproductive ecotypes. Winter steelhead, the most widespread reproductive ecotype and the only type currently present in Central Valley streams (McEwan and Jackson 1996), become sexually mature in the ocean; enter spawning streams in summer, fall or winter; and spawn later in winter or late spring (Meehan and Bjornn 1991, Behnke 1992).

In the Sacramento River, adult winter steelhead migrate upstream during most months of the year, beginning in July, peaking in September, and continuing through February or March (Hallock 1987). Spawning occurs primarily from January through March, but may begin as early as late December and may extend through April (Hallock 1987). Individual steelhead may spawn more than once, returning to the ocean between each spawning migration.

Juvenile steelhead rear a minimum of one, and typically two or more years in fresh water before migrating to the ocean during smoltification (the process of physiological change that allows ocean survival). Juvenile migration to the ocean generally occurs from December through August. The peak months of juvenile migration are January to May (McEwan 2001). The importance of main channel and floodplain habitats to steelhead in the lower Sacramento River and upper delta is not well understood. Steelhead smolts have been found in the Yolo Bypass during the period of winter and spring inundation (T. Sommer, pers. comm. 2002), but the importance of this and other floodplain areas in the lower Sacramento River and upper delta is not yet clear.

Occurrence in the Project area

Central Valley steelhead occur at the Project sites as adults, migrating upstream to their spawning habitat, and as juveniles and smolts, rearing and migrating toward the ocean.

4.3.2.15 Delta smelt

Status

Delta smelt were federally listed as threatened on 5 March 5 1993 (58 FR 12854) and critical habitat was designated on 19 December 1994 (59 FR 65256). Delta smelt are endemic to the Sacramento-San Joaquin estuary and are found seasonally in Suisun Bay and Suisun Marsh (Moyle 2002).

Life history and distribution

Delta smelt are typically found in shallow water (< 10 feet) where salinity ranges from 2 to 7 parts per thousand (ppt), although they have been observed at salinities between 0 and 18.4 ppt (Moyle 2002). Delta smelt abundance and geographic distribution are dependent upon freshwater outflows and the salinity of the San Francisco Estuary and delta (Moyle 2002, Bennett 2005). In the Sacramento River they have been documented upstream to the City of Sacramento (RM 60), but they are typically restricted to the delta and the lower Sacramento River downstream of RM 20 (Moyle 2002). During periods of high river outflow, delta smelt distribution extends from the lower Sacramento River into Suisun Bay, whereas during low flow periods they occur farther upstream, concentrating in the upper delta and lower Sacramento River (Moyle 2002). Delta smelt have relatively low fecundity and most live for one year (Moyle 2002). They feed on planktonic copepods, cladocerans, amphipods, and insect larva (Moyle 2002).

Delta smelt are semi-anadromous. During their spawning migration, adults move into the freshwater channels and sloughs of the delta between December and January (Moyle 2002). Spawning occurs between January and July, with peak spawning from April through mid-May (Moyle 2002). Spawning locations in the delta have not been identified and are inferred from larval catches (Bennett 2005). Larval fish have been observed in Montezuma Slough (Wang 1986), Suisun Slough in Suisun Marsh (Moyle 2002), the Napa River estuary (Stillwater Sciences 2006), the Sacramento River above Rio Vista, and Cache, Lindsey, Georgiana, Prospect, Beaver, Hog, Sycamore, and Barker sloughs (USFWS 1996). Spawning was also observed in the Sacramento River up to Garcia Bend (RM 50) during drought conditions as a result of increased salt water intrusion that moved delta smelt spawning and rearing farther inland (Wang and Brown 1993). Laboratory experiments have found eggs to be adhesive and demersal, and are usually attached to substrate likely composed of gravel, sand, or other submerged material (Moyle 2002, Wang 1991). Hatching takes approximately 9 to 13 days, and larvae begin feeding 4 to 5 days later (Moyle 2002). Newly hatched larvae contain a large oil globule that makes them semi-buoyant and allows them to stay near the bottom (Moyle 2002). As their fins and swim bladder develop, they move higher into the water column and are washed downstream to the open waters of the estuary (Moyle 2002).

Occurrence in the Project area

Delta smelt may be present at project in the Sacramento River at Sites RM 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2 R, and in Steamboat Slough at Sites RM 19.0R, 19.4R, and 22.7R throughout their life cycle. They have been documented upstream to the City of Sacramento (RM 60) (Moyle 2002). Although it is uncertain if delta smelt would be present at sites upstream of RM 60, analysis of the effects at Sites RM 62.5R, 68.9L, and 78.0L is included for the purpose of this evaluation.

4.3.2.16 Green sturgeon

Status

Green sturgeon were determined by NMFS to be comprised of two populations, a northern and a southern distinct population segment (68 FR 4433). The southern distinct population segment of green sturgeon was listed as threatened under the federal ESA on April 7, 2006 (71 FR 17757) and classified as a Class 1 Species of Special Concern by the California Department of Fish and Game (CDFG) in 1995 (Moyle et al. 1995). Critical habitat has not been designated. The Sacramento River supports the southernmost spawning population of green sturgeon (Moyle 2002).

Life history and distribution

The green sturgeon is anadromous, but it is the most marine-oriented of the sturgeon species and has been found in nearshore marine waters from Mexico to the Bering Sea (70 FR 17386). The northern distinct population segment supports known spawning populations in the Rogue, Klamath, and Eel rivers; the southern distinct population segment has a single spawning population in the Sacramento River (NMFS 2005). Adults typically migrate upstream into rivers between late February and late July. Spawning occurs from March to July, with peak spawning from mid-April to mid-June. Green sturgeon are believed to spawn every 3 to 5 years, although recent evidence indicates that spawning may be as frequent as every 2 years (70 FR 17386). Little is known about the specific spawning habitat preferences of green sturgeon. Adult green sturgeon are believed to broadcast their eggs in deep, fast water over large cobble substrate where the eggs settle into the interstitial spaces (Moyle 2002). Spawning is generally associated with water temperatures from 46 to 57°F. In the Central Valley, spawning occurs in the Sacramento River upstream of Hamilton City, perhaps as far upstream as Keswick Dam (Adams et al. 2002), and possibly in the lower Feather River (Moyle 2002).

Green sturgeon eggs hatch in approximately 8 days at 55°F (Moyle 2002). Larvae begin feeding 10 days after hatching. Metamorphosis to the juvenile stage is complete within 45 days of hatching. Juveniles spend 1 to 4 years in fresh and estuarine waters (such as the delta) and migrate to salt water at lengths of 12–30 in (70 FR 17386).

Little is known about movements, habitat use, and feeding habits of green sturgeon. Green sturgeon have been salvaged at state and federal fish collection facilities in every month, indicating that they are present in the delta year-round. Juveniles and adults are reported to feed on benthic invertebrates, including shrimp and amphipods, and small fish (70 FR 17386).

Occurrence in the Project area

Green sturgeon may occur at the Project sites, either as adults migrating upstream to their spawning habitat, or as juveniles, rearing and migrating towards the ocean. Adult sturgeon tend to utilize deep channel habitat for spawning, and juveniles are likely to utilize bank habitat as it provides increased protection, shade, and food.

4.3.2.17 Sacramento splittail

Status

Sacramento splittail was previously listed under the ESA as a threatened species; however, in 2003 the USFWS removed the listing (FR 68 55140). Sacramento splittail is currently identified as a California species of special concern.

Life history

Adult Sacramento splittail move upstream from late November to late January, foraging in flooded areas along the main rivers, bypasses, and tidal freshwater marsh areas of Montezuma and Suisun sloughs and in San Pablo Bay prior to the onset of spawning (Moyle et al. 2001). Feeding in flooded riparian areas prior to spawning may contribute to spawning success and survival of adults after spawning (Moyle et al. 2001). Sacramento splittail migration appears closely tied to river outflow. In wet years with increased river flow, adult Sacramento splittail will move long distances upstream to spawn, allowing juvenile rearing in upstream habitats. The upstream migration is smaller during dry years, although larvae and juveniles are often found upstream of Sacramento to Colusa or Ord Bend on the Sacramento River (Moyle et al. 2001). Sacramento splittail are thought to be fractional spawners, with individuals spawning over a protracted period, often for as long as several months (Wang 1991). Spawning typically occurs on inundated floodplains from February through June, with peak spawning in March and April. The adhesive eggs are released by the female, fertilized by one or more attendant males, and adhere to vegetation until hatching (Moyle 2002).

After emergence, most larval Sacramento splittail remain in flooded riparian areas for 10–14 days, most likely feeding among submerged vegetation before moving off floodplains into deeper water as they become stronger swimmers (Sommer et al. 1997, Wang 1986, both as cited in Moyle 2002). Although juvenile Sacramento splittail are known to rear in upstream areas for a year or more (Baxter 1999, as cited in Moyle et al. 2001), most move to tidal waters after only a few weeks, often in response to flow pulses (Moyle et al. 2001). The majority of juveniles apparently move downstream into shallow, productive bay and estuarine waters from April to August (Meng and Moyle 1995).

Occurrence in the Project area

Adult and juvenile Sacramento splittail may occur at the Project sites. The species' original range included the Sacramento River as far upstream as Redding, the Feather River upstream to Oroville, and the American River upstream to Folsom. Most Sacramento splittail are currently found in the delta and Suisun Marsh (Moyle 2002). In wet years, however, they have been known to ascend the Sacramento River as far upstream as Red Bluff Diversion Dam and into the lower Feather and American rivers (Baxter 2000, Baxter 1999, Sommer et al. 1997, all as cited in Moyle 2002). Currently the Sutter and Yolo bypasses along the lower Sacramento River appear to be important Sacramento splittail spawning areas (Sommer et al. 1997).

4.3.2.18 Rose-mallow

Rose-mallow is a rhizomatous herb in the mallow family (Malvaceae) that is classified by the CNPS as listing status 2. It is endemic to California, occurring within the central and lower Sacramento Valley and the delta, in Butte, Contra Costa, Colusa, Glenn, Sacramento, San Joaquin, Solano, Sutter, and Yolo counties. Documented occurrences of this species are located in quadrangles in the vicinity of all of the Project sites (Appendix B).

Rose-mallow occurs in freshwater marsh areas, moist riverbanks, and on low peat islands of the delta (CDFG 2006). It is not known to occur along river channels that are characterized by strong currents, intense flood forces, or steep banks. Although it occurs in areas of the delta that are influenced by tidal fluctuations, it appears to be restricted to freshwater habitats (CDFG 1995, 2006). The blooming period for rose-mallow is June through September (CNPS 2006). This species is threatened by riverbank alteration (Hickman 1993).

4.3.2.19 Northern California black walnut

Northern California black walnut is a tree in the walnut family (Juglandaceae) that is classified by the CNPS as listing status 1B. Although its native habitat is typically not within delta islands (i.e., it is typically found in canyons and valleys 164 to 656 feet in elevation), the species has been widely planted, hybridizes readily with English walnut, and has been naturalized from cultivation in many areas. Native stands occur in Contra Costa, Lake, Napa, Sacramento, Solano, and Yolo counties.

Northern California black walnut occurs in riparian forest and woodlands, in deep alluvial soils associated with a creek or stream, and sometimes on disturbed slopes. This species is threatened by continued hybridization with orchard trees, urbanization, and conversion to agriculture (CNPS 2006).

The blooming period for this species is April through May (CNPS 2006). Although the survey date occurred before the flowering period, the species is easily identifiable to species by its vegetative structures. English walnut was the only walnut species observed at eight of the sites (Table 4-5).

Documented occurrences of this species are located in quadrangles closest to all but the northern-most Project Sites: RM 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, and 62.5R (Appendix B).

4.3.2.20 Delta tule pea

Delta tule pea is a vine-like perennial herb in the pea family (Fabaceae), and the CNPS has classified it as listing status 1B. It occurs in the Central Valley, especially in the San Francisco Bay region, and in Alameda, Contra Costa, Napa, Sacramento, Santa Clara, San Joaquin, and Solano counties.

Delta tule pea grows in tidally influenced brackish and freshwater wetlands. It is associated with tules, willows, rush, and California rose, and often co-occurs with the listed *Aster lentus* (Suisun Marsh aster; CDFG 2006). Populations of this species have been found throughout much of the delta region at the water's edge along river banks or on the higher grounds of marshlands. It is occasionally found along older revetted banks. The blooming period for the delta tule pea is May through September (CNPS 2006). Delta tule pea is threatened by agriculture, water diversions, and erosion (CNPS 2006).

Documented occurrences of this species are located in quadrangles closest to the southern Project Sites: RM 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R (Appendix B).

4.3.2.21 Mason's lilaepsis

Mason's lilaepsis, also known as mudflat quill, is a perennial, rhizomatous herb in the carrot family (Apiaceae), and the CNPS has classified it as listing status 1B. It occurs from the margins of the Napa River in east Napa County, to the channels and sloughs and the delta, in Alameda, Contra Costa, Napa, Sacramento, San Joaquin, and Solano counties. The largest and healthiest populations have been reported on uninhabited islands in Suisun Bay where there is no revetment and little human disturbance.

Mason's lilaepsis is found in brackish or freshwater marshes and swamps and riparian scrub habitat. It is usually found growing on muddy or silty soil formed through river deposition or river bank erosion, with significant amounts of organic matter; occasionally, it is found on old pilings or pure sand (Golden and Fielder 1991). It is a semi-aquatic plant restricted to the water's edge where it is inundated by waves and tidal fluctuations (CDFG 1995); it is usually found between 4 to 28 inches above the low tide mark. This species is threatened by erosion, channel stabilization, development, flood control projects, recreation, agriculture, shading resulting from marsh succession, and competition with non-native water hyacinth (*Eichhornia crassipes*) (CNPS 2006). The blooming period for this species is April through November (CNPS 2006).

Documented occurrences of this species are located in quadrangles closest to the more southern Project Sites: RM 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R (Appendix B).

4.3.2.22 Delta mudwort

Delta mudwort is a stoloniferous herb in the figwort family (Scrophulariaceae), and the CNPS has classified it as a 2 in listing status. It is located primarily in the delta, in Contra Costa, Sacramento, San Joaquin and Solano counties in California, and also occurs in Oregon. It also occurs on the Atlantic coast and may be an introduced species to the Pacific Coast (CNPS 2006).

Delta mudwort is found in mud banks of the delta in marshy or shrubby riparian associations, often co-occurring with Mason's lilaepsis. The blooming period for this species is May through August (CNPS 2006). The species is threatened by trampling, erosion by wave and wave attenuation and possibly by sea level rising and water quality degradation (CDFG 2006).

Documented occurrences of this species are located in quadrangles closest to the more southern Project Sites: RM 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R (Appendix B).

4.3.3 Environmental effects

Effects on special-status species would be considered significant if construction or operation of the Project would:

- Adversely modify designated critical habitat.
- Result in take of a special-status species.
- Adversely affect habitat for a special-status species.

4.3.3.1 No Action alternative

The No Action alternative would likely result in levee failure that could potentially transport fish out of the Sacramento River into areas where they are likely to become stranded, as well as post-failure emergency repair measures in which BMPs and mitigation measures would be more difficult to implement. Limited BMPs and mitigation measures would have a greater potential to affect special-status wildlife and plants that may be observed during the recommended pre-construction surveys, Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley fall-/late fall-run Chinook salmon, Central Valley steelhead, delta smelt, green sturgeon, and Sacramento splittail. The No Action alternative's post-failure emergency repair measures would likely include alteration of Essential Fish Habitat (EFH) of Chinook salmon (all ESUs), and the designated critical habitat of Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, and delta smelt.

Special-status fish

The potential adverse effects of the No Action alternative on special-status fish would be due to levee failure that could potentially transport fish out of the Sacramento River into areas where they are likely to become stranded, as well as post-failure emergency levee repair measures, and would include short-term construction-related effects and long-term effects on habitat. Short-term adverse effects of emergency levee repair could include increases in turbidity and suspended sediment that may disrupt feeding activities or result in temporary displacement of individuals from preferred habitats. High concentrations of suspended sediment can also bury stream substrates that provide habitat for aquatic invertebrates, an important food source for many fish species.

Toxic substances used at construction sites, including gasoline, lubricants, and other petroleum-based products could enter the Sacramento River as a result of spills or leakage from machinery or storage containers. These substances can kill aquatic organisms through exposure to lethal concentrations. Exposure to non-lethal levels can cause physiological stress and increased susceptibility to other sources of mortality. Although unlikely, direct mortality of individuals could also occur as a result of in-water construction activities such as placement of rock revetment.

Longer-term adverse effects could include reduced near-shore habitat value for spawning and incubation by delta smelt, and for rearing, and adult migration life stages of all special-status fishes. These effects would result from addition of rock revetment and removal or burial of riparian and emergent vegetation at emergency bank repair locations.

Because BMPs and mitigation measures may not be implemented for emergency bank repair actions that could occur under the No Action alternative, it would not be possible to avoid the short-term and long-term effects described above. These effects could result in significant

impacts to delta smelt, salmon, steelhead and green sturgeon, and to critical habitat for delta smelt.

4.3.3.2 Proposed Action alternative

Activities of the Proposed Action alternative would affect the following special-status species: special-status wildlife and plants that may be observed during the recommended pre-construction surveys, Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley fall-/late fall-run Chinook salmon, Central Valley steelhead, delta smelt, green sturgeon, and Sacramento splittail. Project effects also include alteration of Essential Fish Habitat (EFH) of Chinook salmon (all ESUs), and the designated critical habitat of Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, and delta smelt.

Of the 5.27 acres of terrestrial habitat within the Project footprint, there will be temporary effects on 1.41 acres of riparian vegetation, including 0.75 acres of riparian forest and 0.66 acre of riparian scrub. Based on review of the Project designs and on-site surveys, it is assumed that 20% of the existing trees may be permanently affected by the placement of rock around the root crown and limb pruning or removal, both during initial construction activities and during operation and maintenance activities.

Special-status plants

No special-status plants have currently been documented to occur at any of the Project sites. Given the timing of this report, no surveys have been conducted to date. A comprehensive botanical survey, in which plants are identified to species, subspecies, or variety (i.e., as is necessary to differentiate special-status taxa from closely related but more common taxa), is recommended in 2007. Species that are considered potentially occurring are the following: rose-mallow; delta tule pea; Mason's lilaeopsis; and delta mudwort. Given the blooming periods of these species (Table 4-16 and Appendix B), a survey in June 2007 should be appropriate for determining the presence/absence of these species. If any of these species or any other special-status plant species are confirmed during the June surveys, then effects would be subsequently analyzed and mitigation measures designed.

Table 4-16. Special status plant surveys.

Species name	Status ¹ Fed/ State/ CNPS	Blooming period	Surveys complete/ adequate?	Further recommendations
Rose-mallow <i>Hibiscus lasiocarpus</i>	- / - / 2	June– September	No	Return in June
Northern California black walnut <i>Juglans hindsii</i>	- / - / 1B	April–May	Yes; only English walnut was observed	NA

Species name	Status ¹ Fed/ State/ CNPS	Blooming period	Surveys complete/ adequate?	Further recommendations
Delta tule pea <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	- / - / 1B	May– September	No	Return in June
Mason’s lilaepsis <i>Lilaeopsis masonii</i>	- / R / 1B	April– November	No	Return in June
Delta mudwort <i>Limosella subulata</i>	- / - / 2	May– August	No	Return in June

¹ Status Codes:

State: R = considered rare under the California Native Plant Protection Act

CNPS: 1B = Rare, threatened, or endangered in California and elsewhere; 2 = Rare, threatened, or endangered in California, but more common elsewhere.

Special-status wildlife

No special-status wildlife species have currently been documented to occur at any of the Project sites. However, surveys were conducted in November 2006, outside of the comprehensive wildlife survey window. A comprehensive wildlife survey to identify wildlife in the Project area is recommended in spring 2007 when amphibians and reptiles are more active and avian species (e.g., Swainson’s hawk) are present in the Central Valley. Surveys conducted between March and July 2007 should be appropriate for determining the presence/absence of these species (see Table 4-17 for timing of species surveys). If any of these species or any other special-status wildlife species are confirmed during these surveys, then effects would be subsequently analyzed and mitigation measures designed.

The ten wildlife species’ habitats that are considered potentially occurring in the Project sites are the valley elderberry longhorn beetle, western pond turtle, tricolored blackbird, Cooper’s hawk, Swainson’s hawk, white-tailed kite, and rookery habitat for snowy egret, great egret, great blue heron, and black-crowned night heron.

Table 4-17. Special status wildlife surveys.

Species name	Status Fed/State/CNPS/ CNDDDB ¹	Survey period	Surveys complete/ adequate?	Further recommendations
Western pond turtle	SC/CSC/–/–	March–July	No	Survey in spring.
Valley elderberry longhorn beetle	T/–/–/–	March–July	No	Survey in spring.

Species name	Status Fed/State/CNPS/ CNDDB ¹	Survey period	Surveys complete/ adequate?	Further recommendations
Tricolored blackbird	SC/CSC/--	March–July	No	Survey in spring.
Cooper’s hawk	SC/--/--	March – July	No	Survey in spring.
Swainson’s hawk	SC/CT/--	March – July	No	Survey in spring.
White-tailed kite	SC/FP/--	March – July	No	Survey in spring.
Great egret rookery	--/--/G5, S4	March – July	No	Survey in spring.
Snowy egret rookery	--/--/G5, S4	March – July	No	Survey in spring.
Black-crowned night heron rookery	--/--/G5, S4	March – July	No	Survey in spring.
Great blue heron rookery	--/--/ G5, S4	March – July	No	Survey in spring.

¹ Status Codes

Federal:

SC Species of concern under ESA.

T Listed as threatened under ESA.

State:

CSC California species of special concern.

CT Listed as threatened under CESA.

FP Fully protected under California Fish and Game Code.

R Considered rare under the California Native Plant Protection Act

CNPS (noted only for species with neither federal nor state listing):

1B Rare, threatened, or endangered in California and elsewhere; 2 = Rare, threatened, or endangered in California, but more common elsewhere

CNDDB:

G5 Demonstrably secure throughout its worldwide range; commonly found throughout its historic range.

S4 Apparently secure throughout its state wide range, although factors exist to cause concern of narrowing habitat or continuing threats.

Valley elderberry longhorn beetle

Short-term construction-related effects

There are no anticipated direct or indirect short-term effects to the valley elderberry longhorn beetle.

Long-term effects on habitat

During construction activities, 144 blue elderberry stems ≥ 1 inch in diameter could be affected by levee restoration activities at Sites RM 44.7R, 47.0L, 47.9R, and 48.2R (Table 4-18; Appendix C-1, Figures C1-8–C1-11; Appendix C-2). All shrubs associated with these stems

occur directly within the Project footprint or within 100 feet of the footprint. Shrubs located outside of the 100 foot buffer are considered completely avoided (this includes 15 shrubs with 22 stems \geq 1 inch at Site RM 44.7R), although they will be protected from any accidental damage during construction by fencing. For shrubs within 100 feet of the Project footprint, a minimum buffer of 20 feet from the dripline of the shrubs is expected to be maintained, and fencing and other protection measures as outlined in the *Conservation Guidelines for the Valley Elderberry Longhorn Beetle* (USFWS 1999a) would be sufficient to prevent any impacts from occurring to any of these shrubs.

Table 4-18. Summary of blue elderberry shrubs that would be affected by the Project (e.g., shrubs that are within 100 feet of the Project footprint).

Site	Exit holes present?	Within Project footprint		Within 100 feet of Project footprint	
		Total number shrubs	Total number stems \geq 1 inch (basal diameter)	Total number shrubs	Total number stems \geq 1 inch (basal diameter)
RM 44.7R	n	--	--	72	116
RM 47.0L	n	--	--	8	13
RM 47.9R	n	3	7	--	--
RM 48.2R	n	3	4	2	2
	y*	1	2	--	--
Totals		7	13	82	131

* Presence of possible old exit holes were noted during November 2006 field surveys. Follow-up surveys are planned to verify beetle exit holes.

Four shrubs at Site RM 48.2R and three shrubs at Site RM 47.9R are within the Project footprint and therefore have the greatest potential to be damaged (Table 4-18). These shrubs will be avoided if possible, but it is likely that one or more blue elderberry shrubs would need to be removed to facilitate the placement of bank protection materials. If blue elderberry shrubs are damaged or need to be transplanted, mitigation would be implemented as described in Section 4.3.4.1, which follows the *Conservation Guidelines for the Valley Elderberry Longhorn Beetle* (USFWS 1999a).

Western pond turtle

While no western pond turtles were observed during November 2006 field surveys, there are recorded occurrences within the vicinity of all 14 Project sites (either a USGS quad directly covering the Project site, or any of the eight adjacent quads), and potential habitat was observed at Sites RM 43.7R, 44.7R, 19.0R, and 22.7R. Additional surveys should occur prior to Phase 2 construction activities to determine presence or utilization of the area for all life stages of western pond turtle. Western pond turtles are active almost year round (Appendix B-3) and utilize both aquatic and upland habitat as much as 500 m from the watercourse. If western pond turtles are utilizing the Project area, they will likely be affected by construction activities.

Short-term construction-related effects

Phase 1 and 2 construction activities may temporarily affect the quality, quantity and availability of basking sites and refugia. Emergent vegetation (cover for hatchlings), and algal

mats, IWM, and rocks in shallow water (basking sites) may be trampled or removed to facilitate construction activities at each site. Those key elements are not likely to regenerate by the time hatchlings emerge from the nest. Lack of those key elements would also affect adults and juveniles returning to watercourses from overwintering sites in the spring, increasing vulnerability to predation and inability to thermoregulate. Though Phase 2 enhancement will mitigate for those lost habitat elements (vegetated wetlands, riparian benches, riparian planting, and IWM placement), Phase 2 activities will not begin until early summer. Additionally, the potential exists for direct injury or mortality of western pond turtles that can not readily move away from nearshore areas directly affected by construction activities (i.e., during placement of rock).

Phase 1 construction at the Project sites will overlap the western pond turtles overwintering period (September to April) where turtles are less active and therefore less visible. Adult and juvenile western pond turtles overwinter in both aquatic and terrestrial upland habitats where they bury themselves under leaf or needle litter (terrestrial overwintering sites) or under mud at the bottom of slow-moving water courses. Hatchlings often overwinter in the nest until emerging in March and are also at risk of direct injury or mortality from Project activities. Turtles overwintering in upland areas begin returning to watercourses as early as February.

Construction activities are expected to result in short-term increases in turbidity and suspended sediment. Toxic substances used at construction sites, including gasoline, lubricants, and other petroleum-based products could enter the Sacramento River as a result of spills or leakage from machinery or storage containers. These substances can kill aquatic and terrestrial organisms through exposure to lethal concentrations or exposure to non-lethal levels that cause physiological stress and increased susceptibility to other sources of mortality. Changes in water quality could affect health and survival either directly through toxic effects, or indirectly, by changing the abundance and distribution of zooplankton (the key food source for hatchlings). Exposure of aquatic and terrestrial species to toxic substances is not expected to occur as a result of Project activities and implementation of precautionary measures (i.e., appropriate best management practices). However, mortality or physiological impairment of western pond turtles is possible if exposure to sufficient concentrations does occur.

Phase 2 construction activities may temporarily affect the quality, quantity and availability of basking sites, and refugia. Although Phase 2 enhancement will mitigate for those lost habitat elements (wetland and riparian benches, riparian planting, and IWM placement), Phase 2 activities will not begin until early summer.

Long-term effects on habitat

Removal of habitat during the construction process may affect western pond turtles, especially newly emerged hatchlings, juveniles, and adults requiring basking sites. Although some loss is expected, the planned creation of wetland benches and Phase 2 planting and enhancement activities should provide more habitat than currently exists under pre-Project (or No Action) conditions. The planned plantings, IWM placements, and slow-moving wetland areas (at the four lowermost sites) should provide more emergent vegetation and IWM structures for cover, additional basking sites, and slow water areas for growth and development.

Planting at sites slated for restricted planting includes more shrubs that provide denser canopy cover and less sunlight to basking sites. Additionally, the dense shrubs may obstruct overland movements to upland nesting and overwintering habitat. The larger, more open trees planned at unrestricted planting sites would provide a more open canopy cover and a layer of leaf litter that turtles could use for overwintering.

Levee roads for public use or levee maintenance may increase road-induced mortality during the terrestrial period of the turtle life stage. Nesting females are especially susceptible to road-induced mortality, which may negatively impact population dynamics.

Special-status avifauna

While no special-status bird species were observed during the November 2006 field surveys, habitat for Swainson's hawk was observed at 11 Sites (RM 16.9L, 19.0R, 19.4R, 33.0R, 33.3R, 44.7R, 47.0L, 47.9R, 48.2R, 68.9L, and 78.0L); for Cooper's hawk at seven Sites (RM 22.7R, 33.0R, 44.7R, 47.0L, 47.9R, 48.2R, and 78.0L); for white-tailed kite at nine Sites (RM 16.9L, 22.7R, 33.0R, 33.3R, 44.7R, 47.0L, 47.9R, 48.2R, and 68.9L); and for tricolored black bird at two Sites (RM 19.0R and 43.7R). Rookery habitat for great egret, great blue heron, and black-crowned night heron was present at all sites. Additional surveys occurring in Spring 2007, prior to Phase 2 construction, will confirm species presence, because many of these species either migrate to the Central Valley and/or reproduce in the spring.

Short-term construction-related effects

Disturbance from construction activities that may affect special-status avifauna at the Project sites, especially avifauna that are nesting, include increased vibration and noise levels from generators, human presence, staging areas, vehicles, heavy equipment, and river barges. Disturbance can extend further than the Project site and affect special-status avifauna in the near vicinity (e.g., burrowing owl habitat was observed within a 0.25 mi of Sites RM 47.0L, 48.2R, 68.9L, and 78.0L). Surveys to confirm the presence/absence and nesting status of special-status species shall occur prior to the commencement of Phase 2 Project activities. In the event any nesting or roosting special-status avifauna are identified during these surveys, the Corps will postpone construction activities at the applicable site(s) until the young are fledged (which can be as late as mid-August for some species), unless alternative protection strategies are approved by CDFG.

Long-term effects on habitat

Removal of habitat during the construction process may affect special-status avifauna, especially those that are nesting, at the Project sites. Removal of tules, blackberries, and shrubs would decrease the available habitat for the tricolored blackbird. Habitat for roosting raptors and egret and heron rookeries would be negatively impacted if large trees were removed. Although some loss is expected, the Corps will attempt to avoid tree removal to the maximum extent possible. Over the long term, however, growth of the planted native tree species should yield mature trees and mitigate for any loss of trees suitable for roosting.

Salmon and steelhead

Effects of the proposed project on special status salmonids include both short- and long-term impacts. Short-term effects, which are qualitatively evaluated, include direct impacts from

construction activities (e.g., increased suspended sediment and turbidity), lasting from a few hours to several weeks. Long-term impacts may last months or years and generally involve physical alteration of the bank and riparian vegetation adjacent to the water's edge, with consequent impacts upon shaded riverine aquatic (SRA) cover as defined by USFWS (Fris and DeHaven 1993). Appendix I describes a quantitative assessment of long-term effects using the Standard Assessment Methodology (SAM) for the SRBPP (USACE 2004). The SAM assesses long-term impacts by comparing special-status salmonid species responses to long-term differences in habitat under with- and without-Project conditions. In general, the effects are measured in terms of the area of bank and channel bed disturbed by construction, and the quantity and quality of aquatic, bank, floodplain, and supporting riparian habitat.

Short-term construction-related effects

Short-term effects consider the potential occurrence of listed species and life stages relative to the location, magnitude, timing, frequency, and duration of project activities. In-water (Phase 1) construction at the Project sites would occur during Fall 2006 and Winter and Spring 2007 (November 13, 2006 to June 1, 2007), a time when salmonid juveniles and smolts may be rearing and outmigrating at the Project sites, and when adult salmonids are likely to be moving upstream past the Project sites. Construction activities are expected to result in short-term increases in turbidity and suspended sediment that could disrupt feeding activities of fish and result in temporary disturbance or displacement from preferred habitats at the Project sites and downstream. High concentrations of suspended sediment can temporarily bury stream substrates that provide habitat for aquatic invertebrates, an important food source for juvenile salmonids. Noise from in-water construction activities and the presence of overhead equipment could also temporarily disrupt essential behavior patterns (e.g., feeding, escape from predators, migration) of adult and juvenile salmonids at the Project sites, and may also be propagated upstream and downstream. The potential also exists for injury or mortality of juvenile salmonids and other fish species that may not be able to readily move away from nearshore areas directly affected by construction activities (i.e., during placement of rock).

Toxic substances used at construction sites, including gasoline, lubricants, and other petroleum-based products could enter the Sacramento River as a result of spills or leakage from machinery or storage containers. These substances can kill aquatic organisms through exposure to lethal concentrations or exposure to non-lethal levels that cause physiological stress and increased susceptibility to other sources of mortality. With implementation of the mitigation measures (i.e., appropriate BMPs, see Section 4.2.3 and Appendix D), exposure of aquatic species to toxic substances is not expected to occur as a result of Project activities. However, mortality or physiological impairment of juvenile Chinook salmon and steelhead is possible if exposure to sufficient concentrations does occur.

Phase 1 construction activities, which would occur in Fall 2006 and Winter and Spring 2007, may affect adult salmon and steelhead because construction activities would occur during the primary upstream migration period for winter-run and spring-run Chinook salmon, and for a large portion of the migration window for late fall-run Chinook salmon and steelhead. Construction barges and heavy equipment would be present in the main channel through which adults are migrating to spawning areas upstream. The overhead movement of equipment and the sound generated by construction activities may affect the behavior of migrating adult salmonids,

possibly causing migration delays or preventing access to spawning areas. Injury or mortality of adult salmonids is unlikely, since adults primarily use deep, mid-channel habitat during their upstream migration and placement of rock would be restricted to the channel edge. However, placement of toe-rock could possibly injure or kill adult salmonids. Spawning habitat for Chinook salmon or steelhead is not present at the Project sites or downstream. Therefore, no short- or long-term effects on habitat for spawning or incubation would occur.

Short-term construction-related effects could result in significant impacts to Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley fall-/late fall-run Chinook salmon, and Central Valley steelhead ESUs. Significant impacts to critical habitat for Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, and Central Valley steelhead may also occur. Construction-related impacts would be partially mitigated by implementing the proposed minimization and avoidance measures (Section 4.2.3). With implementation of these measures, and due to the short-term nature of the effects, effects on critical habitat are expected to be less than significant. However, these measures would not fully avoid or mitigate potentially significant effects to individual fish and take may therefore occur. Short-term effects of the Project on listed salmon and steelhead are therefore considered to be potentially significant.

Long-term effects on habitat

Long-term species habitat attributes potentially affected by construction activities include spawning habitat area and quality, rearing habitat area and quality, migration habitat conditions, and predator habitat suitability. Project effects on habitat for rearing and outmigrating salmon and steelhead include alteration of bank slope and river hydraulics, instream and overhead cover, and substrate conditions along the seasonal low- and high-flow shorelines at the Project sites. Altered bank characteristics could also cause changes to hydraulics, cover, and substrate conditions immediately downstream of the Project sites, potentially reducing habitat quantity and quality for rearing juveniles. Long-term changes in nearshore habitat are expected to have negligible effects on adult salmon and steelhead because adults generally use deep, mid-channel habitat during migration. Losses of riparian shade and IWM, however, may reduce habitat value for adult salmonids due to reduced cover available for resting and holding during upstream migration (Chinook salmon and steelhead) and adult residence (steelhead)..

Implementation of the Project would result in temporary losses of aquatic and riparian vegetation and IWM along the affected shorelines. These losses would initially reduce year-round habitat value for most salmonid life stages at many sites, and would contribute to longer-term summer and fall habitat deficits for adults at most sites where they are seasonally present. These cover losses, however, would occur concurrently with construction of planted riparian benches at all sites and planted wetland benches at Sites RM 19.0R, 19.4R, and 22.7R, 16.9L, and 43.7R. The constructed wetland benches are expected to increase the availability of valuable shallow-water rearing habitat for juvenile salmonids, resulting in net increases in habitat for juveniles and smolts at these sites. The density of planted wetland vegetation would minimize the wetland bench area available to large predators such as largemouth bass, and predation rates in the constructed wetland habitat would therefore not be expected to exceed predation rates that normally occur in other seasonally flooded off-channel habitats where salmon and steelhead may rear.

Over time, the increasing shade value of planted riparian vegetation would result in eventual net increases in juvenile and smolt habitat in winter and spring at all sites, and in summer and fall at most sites. However, at Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L, increased riparian shade is not sufficient to compensate for summer and fall reductions in juvenile and smolt cover caused by the permanent losses of IWM and the initial and continued lack of aquatic vegetation.

Anchored IWM, placed on the banks at Sacramento River sites located upstream and inclusive of Site RM 33.0R, would result in a net increase in IWM at winter and spring water levels at each placement site. The immediate increase in winter and spring instream structure at these sites contributes to wet season gains in habitat value for all species and life stages present. In summer and fall, however, anchored IWM would not be usable at any site as currently designed, because IWM would be placed above the mean summer water line and would therefore not be inundated during typical summer and fall (i.e., low) flows. This effective seasonal reduction in IWM, an important structural habitat component for all salmonid life stages present at the Project sites, would result in long-term deficits in summer and fall habitat for juveniles and smolts at sites where increases in riparian shade are not sufficient to compensate for the loss of instream structure (i.e., at Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L). The loss of IWM cover during summer and fall would also result in long-term reductions in summer and fall habitat value at all sites for migrating adult salmon and steelhead. Only at Sites RM 68.9L and 78.0L would the eventual increase in summer and fall overhead cover be sufficient to compensate for the loss of habitat and produce habitat gains sufficient to approach or exceed pre-project conditions for adults of both species. However, adjustments to the placement of IWM may occur in the future with agreement of the agencies, with the potential for IWM to be placed at the summer/fall WSEL where it is determined to be safe.

The changes in habitat values to salmonids resulting from Project construction impacts and proposed mitigation features were modeled using the SAM (Appendix I). Although the analysis will be repeated during or following construction to more accurately reflect as-built conditions, results using the initial site designs indicate initial deficits for salmonids at many sites, followed by recovery and net positive responses for most salmonid life stages at most sites over the modeled 50-year period. However, at sites where losses of IWM would be substantial and would not be offset by nearshore cover provided by constructed wetland benches or seasonally available IWM (i.e., at Sites RM 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L), the SAM model results indicate potential long-term habitat deficits in summer and fall for all life stages, with recovery to pre-Project conditions occurring by Year 50 only for juveniles and smolts at a few sites. Adult steelhead are particularly susceptible to reductions in summer and fall IWM due to the potential importance of instream cover for adults that may be holding or migrating upstream.

The initial habitat deficit for juveniles and smolts modeled by the SAM at most of the sites is driven by the loss of instream and overhead cover during Project construction (Appendix I). At sites upstream and inclusive of Site RM 33.0R, the addition of anchored IWM would compensate for initial winter and spring losses of juvenile, smolt, and adult habitat modeled at many of these upstream sites, with net increases in winter and spring habitat for these life stages

occurring no later than Year 5. At delta sites where IWM would not be added (Sites RM 16.9L, 19.0R, 19.4R, and 22.7R) the proposed Project would be unable to compensate for these habitat deficits on-site. Instead, agreement was reached at an interagency technical design review meeting in Sacramento (November 16, 2006) to allow excess anchored IWM at sites upstream of Site RM 33.0 (including Sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R) to be used as off-site mitigation for the delta sites⁵. Using the excess IWM from upstream sites as design inputs to the SAM model at the delta sites, juvenile and smolt habitat responses at these sites show a net increase in winter and spring habitat by Year 5 (Sites RM 16.9L, 19.4R, and 22.7R) or Year 15 (Site RM 19.0R). (The rationale for this method of off-site IWM habitat value compensation is described in more detail in Appendix I.) At Sites RM 16.9L, 19.4R, 22.7R, and 43.7R, the nearshore habitat created by vegetated wetland benches would produce a relatively rapid positive habitat response for salmonid juveniles and smolts. This positive habitat response would be more gradual, however, at Site RM 19.0R, due to a more pronounced initial loss of instream structure and subsequent slower recovery of nearshore cover for juveniles and smolts. Initial winter and spring deficits in juvenile and/or smolt habitat would be relieved by Year 5 at Sites RM 16.9L, 19.4R, 22.7R, and 43.7R, and by Year 15 at Site RM 19.0R.

In summer and fall, when added IWM would be above the mean water line and not available as habitat, initial juvenile and smolt habitat deficits at most sites would be gradually compensated by increasing riparian shade. SAM model results indicate immediate summer and fall habitat increases for salmonid juveniles and smolts at Site RM 19.4R, and a net increase in summer and/or fall habitat for juveniles by Year 5 at Sites RM 16.9L, 22.7R, and 43.7R; by Year 15 at Site RM 33.3R; by Year 25 at Sites RM 19.0R, 33.0R, 47.0L, and 68.9L; and by Year 50 (in fall only) at Site RM 78.0L (Appendix I). Differences in life stage-specific SAM response curves for shoreline cover variables and discrepancies in initial (pre-Project) shade values between summer and fall at some sites result in modeled differences in recovery rates between juveniles and smolts and between seasons. For example, at Site RM 47.0L, increasing riparian shade would relieve initial habitat deficits for juvenile spring-run Chinook salmon and create net increases in fall habitat by Year 25, but at the same site, summer habitat for this species and life stage would not recover until Year 50 (Appendix I). Habitat deficits for spring-run Chinook smolts at Site RM 47.0L would not recover during the 50-year period modeled by the SAM.

Over the 50-year period modeled by the SAM, summer and fall rearing habitat for salmonid juveniles and smolts would not recover to pre-Project conditions at Sites RM 44.7R,

⁵ Initial consultation regarding habitat features to be included in the current project re-elevated prior concerns raised during the SAM development regarding the conflicts between beneficial effects of instream woody material for salmonids and adverse effects on delta smelt due to increased habitat suitability for ambush predators. USFWS representatives requested that no anchored IWM be included in the project designs downstream of site RM 30, including sites RM 16.9L, 19.0R, 19.4R and 22.7R. The final design implementation for sites upstream of site RM 30 will include 80% bank line cover of IWM. However, SAM analyses for these sites used 40% cover because the species response curves show no further gains above 40% cover. Accordingly, the difference in actual (80%) and modeled (40%) cover was credited from the near delta sites above site RM 30 to those downstream of site RM 30.

Total bank cover of IWM at the sites above RM 30 (sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0, 47.9R and 48.2R) is planned to be 80% of the site lengths or 5,816 ft. Of the 40% bank cover not accounted within the SAM analysis (2,908 ft), approximately 500 ft is assumed to have been applied to the four sites downstream of site RM 30 in the SAM analysis (40% of the total length of 1,256 for sites RM 16.9L, 19.0R, 19.4R and 22.7R). The remaining 2,408 ft would be available for use in off-site mitigation at other project sites downstream of site RM 30.

47.9R, 48.2R, or 62.5R. At Site RM 78.0L, summer and fall habitat losses of summer and fall habitat for Chinook salmon smolts would also fail to recover during the modeled 50-year period, as would summer habitat losses for rearing juvenile Chinook salmon and steelhead. The lasting habitat deficits modeled by the SAM are attributable to unrecovered losses of instream structure under summer and fall flow conditions (all sites), and a slight steepening of the banks at the summer and fall waterline (Sites RM 44.7R, 48.2R, 62.5R, 68.9L, and 78.0L). Despite the modeled summer and fall habitat deficits, the actual effect of habitat losses on juvenile rearing and smolt outmigration during summer and fall would be negligible for salmonid species, and for runs whose peak juvenile and smolt abundance periods do not occur in summer or fall at the affected sites. The majority of the juvenile rearing period for fall-run, late fall-run and winter-run Chinook salmon, and the peak smolt outmigration period for steelhead and spring-run, fall-run, and late fall-run Chinook salmon, occurs in winter and/or spring. Because summer and fall rearing and outmigration habitat at the Project sites is not likely to be of primary importance, the long-term effects of the summer and fall habitat losses for these salmonid life stages are expected to be less than significant.

For adult salmon and steelhead, initial losses of summer and fall habitat for upstream migration (both species) and for holding fish (steelhead) would be caused by reductions in available IWM, and would persist through Year 50 at most sites. At Sites RM 68.9L and 78.0L, small increases in summer and fall habitat for upstream migrating adult Chinook salmon would be realized in Year 50 due to increases overhead cover provided by maturing riparian vegetation (Appendix I). Fall habitat value for adult migrant Chinook salmon and holding steelhead would return to pre-Project conditions by Year 50 at Sites RM 68.9L and 78.0L, as would summer habitat value at Site RM 68.9L. However, at Site RM 78.0L, the summer habitat deficit for adult migrant Chinook salmon and holding steelhead would persist through the modeled 50-year period. The observed discrepancy between adult Chinook salmon and steelhead response is driven by the greater sensitivity of steelhead to reduced instream structure and overhanging shade. Despite the modeled summer and fall habitat deficits, the actual effect of these habitat losses on adult winter-run and spring-run Chinook salmon adult salmonids during summer and fall would be negligible because the primary period of upstream migration does not occur during summer or fall. However, for fall-run Chinook salmon, late fall-run Chinook salmon, and steelhead, adult abundance peaks in the Project area during summer and fall, and therefore significant long-term effects are possible.

Because the SAM model was run for a worst-case scenario in terms of loss of existing IWM and riparian shade values due to construction impacts (Appendix I), in some seasons, recovery of habitat for some species and life stages may occur more rapidly than model results indicate. Establishment and growth of riparian vegetation on the riparian benches at all sites, and emergent aquatic vegetation on the wetland benches at Sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R are expected to increase habitat values by increasing the extent of instream and overhead cover available to salmonid juveniles, smolts, and in some cases adults. The actual growth or extent of vegetation may exceed the values used for SAM model input, thereby resulting in more rapid recovery of nearshore cover.

In summary, long-term effects on winter and spring habitat for all life stages of special-status salmon and steelhead are expected to be positive and less than significant at all sites.

During winter and spring, the Project is expected to provide long-term increases in the quantity and quality of critical habitat for Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, and Central Valley steelhead ESUs, and long-term benefits to EFH for all Chinook salmon ESUs. In summer and fall when river stage is lowest, mitigation features included in the Project design would not compensate for potentially significant long-term impacts on habitat at the majority of sites for upstream migrating adult salmon and steelhead and holding adult steelhead. Also during summer and fall, potentially significant long-term impacts on habitat for rearing juveniles and outmigrating smolts at Sites RM 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, and 78.0L are not mitigated by Project design features. However, the actual effect of the lasting summer and fall habitat deficits would be negligible for several affected life stages because the primary period of abundance does not occur during summer or fall. Only for spring-run Chinook salmon juveniles, fall-run and late fall-run Chinook salmon adults, winter-run Chinook salmon smolts, and steelhead adults and juveniles would the effects of unrecovered summer and fall habitat losses potentially be significant.

Off-site mitigation would be required to mitigate these impacts to less than significant levels. Because the species timing tables developed for the SAM (USACE 2004) indicate that juvenile rearing and smolt outmigration occur at similar times of year at other locations within the SRBPP (RM 0–194), mitigation sites may potentially be considered in other reaches of the Sacramento River. NMFS (2001) guidance on the maximum distance between impact and mitigation sites (< 50 miles), and the availability of other suitable habitat in the vicinity of these upstream Sacramento River sites, would be considered in developing proposed off-site mitigation sites. General mitigation and avoidance measures are described in Section 4.2.3, and species-specific mitigation measures are further described in Section 4.3.4. Details of proposed off-site mitigation are described in Section 2.9. Cumulative effects on Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, and Central Valley steelhead ESUs are further discussed in Section 5.1.3.

Delta smelt

Effects of the proposed project on delta smelt include both short- and long-term impacts. Short-term effects, which are evaluated qualitatively, include direct impacts from construction activities (e.g., increased suspended sediment and turbidity), lasting from a few hours to several weeks. Long-term impacts may last months or years and generally involve physical alteration of the bank and riparian vegetation adjacent to the water's edge, with consequent impacts upon shaded riverine aquatic cover as defined by USFWS (Fris and DeHaven 1993). Appendix I describes a quantitative assessment of long-term effects using the SAM for the SRBPP (USACE 2004). The SAM assesses long-term impacts by comparison of delta smelt responses to long-term differences in habitat under with- and without-project conditions. In general, the effects are measured in terms of the area of bank and channel bed disturbed by construction, and the quantity and quality of aquatic, bank, floodplain, and supporting riparian habitat (Appendix I).

Short-term construction-related effects

Delta smelt may be present at any of the Project sites throughout their life cycle, although they are unlikely to occur at Sites RM 62.5R, 68.9L, or 78.0L. Short-term adverse effects on delta smelt are possible at any of the Project sites, and may affect their critical habitat at Sites RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R. Disturbance or displacement may be caused by construction activities that increase noise, turbidity, and suspended sediment. Sediment and turbidity effects may occur at the Project sites and downstream. Noise effects may occur at the Projects sites and upstream and downstream of the Project sites. Removal of riparian vegetation and IWM from the streambank may result in the loss of overhead and instream cover. The potential also exists for injury or mortality of delta smelt that may not be able to readily move away from channel or nearshore areas directly affected by construction activities (i.e., placement of rock revetment). In addition, mortality or physiological impairment may be caused by toxic substances (i.e., gasoline, lubricants, oil) entering the water.

Short-term construction-related effects could result in significant impacts on delta smelt and their critical habitat. Construction-related impacts would be partially minimized or mitigated by implementing the proposed minimization and avoidance measures (Section 4.2.3). With implementation of these measures, and due to the short-term nature of the effects, effects on critical habitat are expected to be less than significant. However, these measures would not fully avoid or mitigate potentially significant effects to individual fish and take may therefore occur. Short-term effects of the Project on delta smelt are therefore considered to be potentially significant.

Long-term effects on habitat

Long-term Project effects on delta smelt at Sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R are expected to be similar due to the similarity in construction elements. Wetland benches, planted with emergent aquatic vegetation, are expected to provide suitable spawning and rearing habitat for delta smelt at these sites, resulting in relatively rapid recovery from initial deficits in spawning and rearing habitat caused primarily by removal of existing aquatic vegetation during Project construction. Proposed planting of emergent vegetation at these sites would enhance habitat complexity by providing cover, incubation habitat, and possibly spawning habitat, especially during high winter and spring flows. Project effects at these sites would be beneficial to all delta smelt life stages.

At Sites RM 33.0R, 33.3 R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L the Project design includes placement of anchored IWM above the mean summer water line, but no wetland habitat would be created. Although planted riparian vegetation would result in a long-term net increase in shade at these sites, the added IWM at these sites would not provide usable habitat during summer and no increase in summer availability of aquatic vegetation is expected to occur. Initial losses of instream and overhead cover during summer would therefore not be compensated by Project design features. Summer habitat for the spawning, incubation, and juvenile rearing life stages is not expected to recover to pre-Project conditions. Because none of these Project design features would fully compensate for long-term reductions in nearshore summer habitat values at these sites, the Project would adversely affect summer spawning and

incubation and juvenile rearing habitat for delta smelt. In winter and spring, the seasonal inundation of anchored IWM at these Sacramento River sites is expected to provide cover and may provide necessary submerged substrates for delta smelt spawning. Winter and spring inundation of shoreline vegetation at these sites would also increase seasonal availability of complex habitat for rearing larvae and juveniles. These features would result in rapid recovery of initial habitat deficits for spawning and incubation and juvenile rearing, and net benefits for these life stages.

The changes in habitat values to delta smelt resulting from Project construction impacts and proposed mitigation features were modeled using the SAM. Although the analysis may be repeated during or following construction to more accurately reflect as-built conditions, results using the initial site designs indicate initial reductions in habitat for spawning, incubation, and juvenile rearing life stages at almost all sites, with rapid recovery and long-term habitat benefits in winter and spring at all sites. Model results indicate immediate gains in summer habitat for spawning, incubation, and juvenile rearing at Sites RM 19.4R and 43.7R. At Sites RM 16.9L, 19.0R, and 22.7R, SAM modeling indicates positive summer habitat responses for spawning, incubation, and juvenile rearing by Year 5. However, at Sites RM 33.0R, 33.3 R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L, deficits in summer spawning, incubation, and rearing habitat would persist through the modeled 50-year period. Long-term deficits in summer habitat for spawning, incubation, and rearing are greatest at Site RM 44.7R due primarily to large losses of existing riparian shade and unrecovered losses of instream structure under summer and fall flow conditions. Off-site mitigation measures would be required to compensate for the long-term adverse effects on summer habitat for delta smelt spawning, incubating, and rearing at these sites. Although the proposed Project would result in summer losses of shade and complex shoreline habitat at nearly all sites upstream and inclusive of Site RM 33, the actual effect of these losses on delta smelt is unlikely to be substantial because delta smelt do not typically occur upstream of RM 20 (Moyle 2002). Even during periods of low Sacramento River outflow, when delta smelt distribution is at its farthest upstream extent, the highest delta smelt abundance consistently occurs near Decker Island (RM 8) (Bennett 2005).

In summary, potential long-term adverse impacts on delta smelt and their critical habitat are expected to occur only under summer flow conditions at Sites RM 33.0R, 33.3 R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L. Although these impacts are not expected to be significant due to the typical restricted downstream distribution of delta smelt, SAM results indicate that off-site mitigation would be required to offset potentially significant long-term impacts on spawning and incubation and juvenile rearing habitat. Because delta smelt are restricted to waters with suitable salinity, prior USFWS (2001) recommendations indicate that potential mitigation sites should be located within the lower reaches of the SRBPP (RM 0–80). Within this reach, areas downstream of RM 20 are likely to be the most used by delta smelt (Moyle 2002). General mitigation and avoidance measures are described in Section 4.2.3 and species-specific mitigation measures are further described in Section 4.3.4. Details of proposed off-site mitigation are described in Section 2.9. Cumulative effects on delta smelt due to the proposed Project are further discussed in Section 5.1.3.

Green sturgeon

Short-term construction-related effects

Adult green sturgeon may move upstream through the Project sites from February through late July. The Sacramento River downstream of Knights Landing (RM 90) is not believed to have suitable spawning habitat for green sturgeon. Therefore, the proposed construction at sites below RM 90 will not affect spawning habitat. Larval and juvenile green sturgeon move downstream in the Sacramento River from February through late July (peak spawning occurs from April–June) (Emmett et al. 1991, as cited in Moyle 2002) and may therefore occur at all Project sites during a portion of the Phase 1 work. Construction activities occurring outside these time periods are not likely to affect migrating green sturgeon adults. Construction activities from February through May, however, may have adverse impacts on all green sturgeon life stages.

Phase 1 construction activities, which would occur in winter and spring, may affect adult, larval, and juvenile green sturgeon because construction activities would occur during the primary upstream migration period for adults, and during the downstream migration period for larvae and juveniles. Construction barges and heavy equipment would be present in the channel through which adults, larvae, and juveniles are migrating. The overhead movement of equipment and the sound generated by construction activities may affect the behavior of migrating adult green sturgeon, possibly causing migration delays or preventing access to spawning areas. Injury or mortality of adult green sturgeon is unlikely, since adults primarily use deep, mid-channel habitat during their upstream migration and placement of rock revetment would be restricted to the channel edge. However, placement of toe-rock could possibly injure or kill adult green sturgeon. Larval and juvenile green sturgeon may be especially susceptible to injury or death as a result of toe rock placement in shallow nearshore waters where they take refuge from predators in deeper mid-channel areas.

Short-term effects of Phase 1 in-water construction activities may include localized disturbance or displacement of adult, larval, and juvenile green sturgeon from noise, suspended sediment, turbidity, and sediment deposition. Sediment and turbidity effects may occur at the Project sites and downstream. Noise effects may occur at the Project sites and upstream and downstream of the Project sites. Sediment deposition could adversely affect rearing habitat and kill or reduce production of food sources, such as aquatic invertebrates, for larval and juvenile green sturgeon. In addition, mortality or physiological impairment of larvae or juveniles may be caused by toxic substances (e.g., gasoline, lubricants, oil) entering the water. Because adult green sturgeon use the Sacramento River at the Project sites primarily as a migration corridor, toxic effects on adults are unlikely. The potential also exists for injury or mortality of larvae or juveniles that may not be able to readily move away from channel or nearshore areas directly affected by construction activities (i.e., placement of rock). Injury or mortality of adult green sturgeon is unlikely, since adults primarily use deep, mid-channel habitat during their upstream migration.

Short-term construction-related effects could result in significant impacts on green sturgeon. Construction-related impacts would be partially mitigated by implementing the proposed minimization and avoidance measures (Section 4.2.3). However, these measures would not fully avoid or mitigate potentially significant effects and take may therefore occur.

Short-term effects of the Project on green sturgeon are therefore considered to be potentially significant.

Long-term effects on habitat

Long-term changes in nearshore habitat are expected to have negligible effects on adults because adult sturgeon use deep, mid-channel habitat during migration. However, if suitable deep habitat exists near eroding banks at the Project sites (i.e., erosion scour holes) adverse effects on adult green sturgeon may occur if these areas are filled with rock. If juvenile sturgeon use nearshore areas of the Sacramento River as foraging habitat or refuge from predators, the general long-term effects of the Project on nearshore habitat values would likely be similar to those described for salmonids above. Addition of IWM at sites upstream and inclusive of site RM 33.0R is expected to increase rearing and foraging habitat for larval and juvenile green sturgeon during winter and spring, thereby providing some long-term benefits for these life stages. Long-term reductions in summer habitat for larvae and juveniles, however, may occur at sites where increases in riparian shade are not sufficient to compensate for the loss of instream structure (i.e., Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L). Off-site mitigation, as described in Section 2.9, would be required to compensate for these habitat losses.

Although long-term adverse effects on green sturgeon are likely at some sites, the overall long-term effects of the Project on green sturgeon are expected to be positive and less than significant.

Sacramento splittail

Short-term construction-related effects

Adult Sacramento splittail would likely be present at the Project sites during Phase 1 Project construction activities during their upstream migration, which begins in November and continues through January. Juveniles may rear in the vicinity of the Project sites year-round, but would primarily occur at the Project sites during Phase 2 in July and August as they migrate downstream toward the delta. Spawning typically takes place on inundated floodplains from February through June. Effects on spawning adult Sacramento splittail or Sacramento splittail eggs are not expected to occur because no floodplain habitat exists in the Project area.

During Phase 1 construction activities, construction barges and heavy equipment would be present in the channel through which adult Sacramento splittail are migrating. The overhead movement of equipment and the sound generated by construction activities may affect the behavior of migrating adults, possibly causing migration delays or preventing access to spawning areas. Injury or mortality of adult Sacramento splittail is unlikely, since adults primarily use deep, mid-channel habitat during their upstream migration and placement of rock would be restricted to the channel edge. However, placement of toe-rock could possibly injure or kill adult Sacramento splittail.

Short-term effects may include localized disturbance or displacement of adult and juvenile Sacramento splittail from noise, suspended sediment, and turbidity generated during Phase 1 in-water construction activities. Sediment and turbidity effects may occur at the Project sites and downstream. Noise effects may occur at the projects sites and upstream and downstream of the Project sites. Removal of riparian vegetation and IWM from the streambank

may result in the short-term loss of overhead and instream cover, reducing habitat quality and quantity for adult and juvenile Sacramento splittail. The potential also exists for injury or mortality of Sacramento splittail that may be unable to readily move away from channel or nearshore areas directly affected by construction activities (i.e., placement of rock revetment). In addition, mortality or physiological impairment may be caused by toxic substances (e.g., gasoline, lubricants, oil) entering the water.

Short-term construction-related effects could result in significant impacts to individual Sacramento splittail. Construction-related impacts would be partially mitigated by implementing the proposed minimization and avoidance measures (Section 4.2.3). However, these measures would not fully avoid or mitigate potentially significant effects. Short-term effects of the project on Sacramento splittail are therefore considered to be potentially significant.

Long-term effects on habitat

The proposed Project would not result in any long-term effects on Sacramento splittail spawning or incubation habitat. Long-term effects on rearing habitat would likely be similar to those described for salmonids above. Potential long-term effects on habitat for rearing Sacramento splittail at some sites may therefore be significant. However, with the creation of floodplain habitat as part of off-site mitigation measures that would be required for salmonids and delta smelt (see Section 2.9), effects would be mitigated to less than significant levels.

4.3.3.3 Summary of environmental effects

In consideration of the above information, the Proposed Action is likely to adversely affect species, but is not likely to jeopardize the continued existence of these species, as long as the applicable conservation and mitigation measures are implemented. This conclusion is based on the Corps' commitments to: (1) avoid direct impacts by maintaining buffers around sensitive habitat and/or conducting construction activities outside of sensitive timeframes (e.g., fledging period of special-status birds); (2) minimize temporary habitat losses through the incorporation of on-site mitigation features (e.g., constructed wetland benches, riparian plantings, and anchored IWM) in the project design; (3) implement a stormwater pollution prevention plan (SWPPP) and associated BMPs, as described in Section 4.2.3 and Section 4.4.4; and (4) offset permanent, incremental adverse effects of revetment on fluvial processes and associated habitat values through the implementation of proven conservation measures (e.g., setback levees, removal of revetment) at an off-site conservation area (see Sections 2.9 and 4.3.4). Concurrent implementation of these conservation measures would adequately avoid, minimize, and mitigate adverse effects on the special-status wildlife and fish species discussed in this document. Presently, no special-status plant or wildlife species have been documented to occur on the Project sites. However, if such species are documented during the recommended pre-construction surveys in 2007, the Proposed Action is not likely to jeopardize the continued existence of these species, as long as the applicable protection and mitigation measures, as defined in Section 4.3.4, are adhered to.

4.3.4 Mitigation

The Corps' mitigation program for Project effects on special-status species is based on the mitigation measures described below, and on- and off-site mitigation described in Section

2.9. The mitigation program would be revised and finalized as the Project impacts are updated with additional detail and suitable mitigation lands are identified and acquired. However, the types of impacts are not expected to change and the extent of impacts is expected to be reduced through avoidance and minimization strategies to be exercised during the final design process. Therefore, the mitigation measures below, together with the mitigation incorporated into the Project description, are adequate to avoid significant effects.

4.3.4.1 Valley elderberry longhorn beetle

The following measures are based on the September 19, 1996, “Programmatic Formal Consultation Permitting Projects with Relatively Small Effects on the Valley Elderberry Longhorn Beetle within the Jurisdiction of the Sacramento Field Office, California (Corps File #199600065),” and the “Conservation Guidelines for the Valley Elderberry Longhorn Beetle (Revised July 9, 1999)” (USFWS 1999). These measures would be implemented to minimize effects on valley elderberry longhorn beetles or their habitat at Sites RM 44.7R, 47.0L, 47.9R, and 48.2R (Appendix C-2).

Complete avoidance (i.e., no adverse effects) is assumed when a 100-foot (or wider) buffer is established and maintained around elderberry plants containing stem diameters measuring 1.0 inch or greater at ground level.

- In buffer areas, construction-related disturbance would be minimized and any damaged area promptly restored following construction.
- All areas to be avoided during construction activities would be fenced and flagged.
- In areas where encroachment on the 100-foot buffer has been approved by USFWS, a setback of 20 feet from the dripline of each elderberry plant would be maintained whenever possible.
- In areas where work would need to occur within 20 feet of the dripline of an elderberry plant, a biological monitor would be on site to ensure that no unauthorized take of the beetle or its habitat occurs. The monitor would have authority to stop work until corrective measures have been completed and would immediately report any unauthorized take to the USFWS and CDFG.
- Contractors would be briefed on the need to avoid damaging elderberry plants and the possible penalties for not complying with these requirements.
- Signs would be erected every 50 feet along the edge of the avoidance area with the following information: “This area is habitat of the valley elderberry longhorn beetle, a threatened species, and must not be disturbed. This species is protected by the ESA of 1973, as amended. Violators are subject to prosecution, fines, and imprisonment.” The signs would be readable from a distance of 20 feet and must be maintained for the duration of construction.
- Work crews would be instructed about the status of the beetle and the need to protect its elderberry host plant.

Restoration and maintenance

- Any damage done to the buffer area (area within 100 feet of elderberry plants) during construction would be restored by applying appropriate erosion control techniques and replanting with appropriate native plants.
- Buffer areas would continue to be protected after construction from adverse effects of the project. Measures such as fencing, signs, weeding, and trash removal are usually appropriate.
- No insecticides, herbicides, fertilizers, or other chemicals that might harm the beetle or its host plant would be used in the buffer areas, or within 100 feet of any elderberry plant with one or more stem diameters measuring 1.0 inch or greater at ground level.
- Mowing of grasses/groundcover would occur from July through April to reduce fire hazard. No mowing would occur within 5 feet of elderberry plant stems. Mowing must be done in a manner that avoids damaging plants (e.g., stripping away bark through careless use of mowing/trimming equipment).

Elderberry plants that cannot be avoided

- Trimming of elderberry with stem diameters 1.0 inch or greater at ground level may result in take of beetles. Therefore, trimming would be subject to appropriate mitigation measures as outlined in Table 4-19.
- Any removed elderberry plants with stem diameters measuring 1.0 inch or greater at ground level would be transplanted to an appropriate riparian area approved by USFWS. In addition, mitigated cuttings, as presented in Table 4-19, would also be planted.
- If possible, elderberry plants would be transplanted during their dormant season (approximately November through the first 2 weeks in February, after they have lost their leaves). If transplantation occurs during the growing season, increased mitigation ratios would apply as presented in Table 4-19.
- A qualified biologist (monitor) would be on site during the transplanting of elderberry plants to ensure that no unauthorized take of valley elderberry longhorn beetle occurs. If unauthorized take occurs, the monitor would have the authority to stop work until corrective measures have been completed. The monitor would immediately report any unauthorized take of the beetle or its habitat to USFWS and to CDFG.

Transplanting procedure

- The plant would be cut back 3 to 6 feet from the ground or to 50% of its height (whichever is taller) by removing branches and stems above this height. The trunk and all stems with diameters measuring 1.0 inch or greater at ground level would be replanted.
- The plant would be excavated using a Vemeer spade, backhoe, front-end loader, or other suitable equipment, taking as much of the root ball as possible, and replanting immediately at the designated area on site. Care would be taken to ensure that the root ball remains moist and that soil is not dislodged from around the roots of the transplant. The root ball would be planted so that its top is level with the existing ground. If the site receiving the transplant does not have adequate soil moisture, the soil would be pre-wetted a day or two before transplantation.
- The planting area would be at least 1,800 square feet for each elderberry transplant. As many as five additional elderberry plantings (cuttings or seedlings) and up to five

associated native species plantings would also be planted within the 1,800-square foot area with the transplant (see subsequent section regarding seedlings and cuttings). The transplant and each new planting would have its own watering basin measuring at least 3 feet in diameter. Watering basins would have a continuous berm measuring approximately 8 inches wide at the base and 6 inches high.

- Fertilizers and other potentially deleterious substances would not be used on or around the plants.
- Monitoring of the plants would occur to ascertain whether additional watering is necessary.

Plant additional seedlings, cuttings, and associated native species

- Each elderberry stem measuring 1.0 inch or greater in diameter at ground level that is adversely affected (i.e., transplanted or destroyed) would be mitigated with elderberry seedlings or cuttings at a ratio ranging from 1:1 to 8:1 (new plantings to affected stems). Minimization ratios are listed and explained in Table 4-19. Stock of either seedlings or cuttings would be obtained from local sources, including transplanted elderberries.
- Native plants associated with the elderberry plants at the Project site would be planted at ratios ranging from 1:1 to 2:1 (native tree/plant species for each elderberry seedling or cutting [see Table 4-19]). These native plantings would be monitored with the same survival criteria used for the elderberry seedlings. Stock of saplings, cuttings, and seedlings of native plants would be obtained from local sources.

Long-term protection

- Any areas that receive transplanted elderberries would be protected in perpetuity by the Corps and CDWR who jointly manage these levees.
- Management of these lands would include all measures specified in USFWS (1999) guidelines related to weed and litter control, fencing, and the placement of signs.
- Monitoring would occur annually for ten consecutive years or for seven non-consecutive years over a 15-year period. Annual monitoring would include a census of the beetle, its exit holes, and elderberry and riparian plant health. Yearly monitoring reports would be submitted to USFWS.

Table 4-19. Standard and adjusted mitigation ratios for elderberry shrubs.

Location	Maximum diameter of stems at ground level (inches)	Exit holes on shrub ^a	Standard ^b elderberry seedling ratio (Sep 1 – Feb 15)	Adjusted ^c elderberry seedling ratio			Native plant ratio ^e
				Feb 16– Mar 15	Mar 16– Jun 15 ^d	Jun 16– Aug 31	
Non-riparian	≥ 1– ≤ 3	No	1:1	2:1	3:1	2.5:1	1:1
		Yes	2:1	4:1	6:1	5:1	2:1
	> 3– < 5	No	2:1	4:1	6:1	5:1	1:1
		Yes	4:1	8:1	12:1	10:1	2:1
	≥ 5	No	3:1	6:1	9:1	7.5:1	1:1
		Yes	6:1	12:1	18:1	15:1	2:1
Riparian	≥ 1– ≤ 3	No	2:1	4:1	6:1	5:1	1:1
		Yes	4:1	8:1	12:1	10:1	2:1
	> 3 – < 5	No	3:1	3:1	9:1	7.5:1	1:1
		Yes	6:1	12:1	18:1	15:1	2:1
	≥ 5	No	4:1	8:1	12:1	10:1	1:1
		Yes	8:1	16:1	24:1	20:1	2:1

Ratios correspond to the number of cuttings or seedlings to be planted per elderberry stem (one inch or greater in diameter at ground level) affected by a Project (USFWS 1999a).

^a All stems measuring one inch or greater in diameter at ground level on a single shrub are considered occupied when exit holes are present anywhere on the shrub.

^b Standard ratios assume transplantation during winter months, when elderberries are dormant.

^c Adjusted ratios apply to transplantation during seasons when elderberries are not dormant and during the flight period for valley elderberry longhorn beetle (K. Turner, USFWS, Sacramento, California, pers. comm., 2006).

^d March 15 – June 15 is the flight period for the valley elderberry longhorn beetle; therefore, the USFWS prefers that there is no disturbance to elderberries during this timeframe (K. Turner, USFWS, Sacramento, California, pers. comm., 2006). If construction activities were to affect elderberry plants during this timeframe, the 3 X standard mitigation ratio given here would need to be confirmed via consultation with the USFWS.

^e Associated native plant ratio corresponds to the number of associated native species to be planted per elderberry (seedling or cutting) planted..

For the anticipated removal/transplant of seven blue elderberry shrubs located within the Project footprint at Sites RM 47.9R and 48.2R, the Corps proposes the following mitigation plan (Table 4-20). Because removal of shrubs may not occur until Spring/Summer 2007, when stem growth may increase additional stems to ≥ 1 inch basal diameter (or transition stems into higher diameter categories), the Corps is requesting a contingency authorization for removal of an additional 12 stems, for a total of 25 stems ≥ 1 inch basal diameter. The Corps assumes that if transplantation cannot occur during the standard work window (Sept 1–Feb 15) it would occur between June 16 and August 31, so adjusted mitigation ratios for this time period are also

provided in Table 4-20. The location of the conservation area that would receive the blue elderberry transplants would be subject to USFWS approval.

Table 4-20. Proposed mitigation for removal of blue elderberry shrubs within the Project footprints of the 14 critical erosion sites. All stems are within riparian areas.

	Number of stems by stem diameter at ground level			Exit holes present?	Standard mitigation (Sept 1–Feb 15)		Adjusted mitigation (Jun 16–Aug 31)	
	≥ 1– ≤ 3 in	> 3– < 5 in	≥ 5 in		No. new elderberry seedlings	No. associated native plantings	No. new elderberry seedlings	No. associated native plantings
Shrubs likely to be affected	7	2	2	no	14	28	35	70
	0	1	1	yes ^a	28	28	70	70
Contingency ^b	10	2	--	no	26	26	65	65
Total	17	5	3		68	82	170	205
Size of conservation area needed^c without contingency					0.5 acre (21,600 ft²)		1.16 acres (50,400 ft²)	
Size of conservation area needed with contingency					0.70 acre (30,600 ft²)		1.69 acres (73,800 ft²)	

^a Presence of possible old exit holes were noted during November 2006 field surveys. Follow-up surveys are planned to verify beetle exit holes. This mitigation table assumes presence of holes.

^b Because removal of shrubs may not occur until next spring/summer, when stem growth may increase additional stems to ≥ 1 inch basal diameter (or transition stems into higher diameter categories), the Corps is requesting a contingency authorization for removal of an additional 12 stems, for a total of 25 stems ≥ 1 inch basal diameter.

^c Calculated based on USFWS 1999a guidelines: 1,800 square feet necessary for 1–5 elderberry seedlings and up to 5 associated native plants.

4.3.4.2 Western pond turtle

Surveys by a qualified staff biologist shall occur at least 30 days prior to any Phase 1 or 2 construction activities at the Project sites to confirm the presence/absence and nesting status of the western pond turtle. In the event that individuals are identified during these surveys, the Corps will postpone construction activities at the applicable site(s) to allow time for a trained staff biologist, working in conjunction with CDFG, to determine an appropriate relocation site, trap and temporarily relocate individuals prior to construction activities. In the event that eggs or nestlings are uncovered, the Corps will postpone construction activities until nestlings are hatched and emerge from the nest (which can be as late as February the following year).

Exclusion fencing may be place around Project sites during construction to prevent turtles from migrating through, nesting in, or otherwise utilizing construction area following pre-construction surveys.

If a Project site has a high likelihood of turtle occurrences (turtles or eggs were observed, or high quality habitat is present at the Project site), continued monitoring during construction

activities for turtle presence by a qualified staff biologist shall occur to identify individuals and nests potentially missed during the initial surveys and to implement trapping for relocation. In the event that turtles or eggs are uncovered during construction, all construction activity would be halted immediately and the actions described above will be enforced if possible.

4.3.4.3 Special-status avifauna

Prior to Phase 2 construction, a qualified biologist shall conduct detailed surveys and record locations of any active nesting sites for Swainson's hawk, Cooper's hawk, white-tailed kite, great egret rookery, snowy egret rookery, black-crowned night heron rookery. Surveys will begin in March and continue bi-weekly through July to determine nesting locations. If nests are located, surveys would then continue through fledging of the chicks, which may occur as late as the middle of August.

The detailed surveys would include a ½-mile buffer around the erosion sites, and other avifauna would be surveyed within 1,000 feet of the construction sites. All special-status avifauna sightings, nesting behavior, and nest sites would be recorded and mapped with global positioning system ("GPS") coordinates included.

California Department of Fish and Game generally requires that a ½-mile buffer be maintained around active Swainson's hawk nests between 1 March and 15 August (TAC 2000). Similar guidelines would be considered adequate for other special-status raptor species. However, due to the relatively narrow widths of the Project sites, the location and dimensions of the proposed work areas, and the configuration of access roads to riparian vegetation that could provide nesting habitat, a ½-mile buffer may not be feasible in all areas. The Corps would maximize the buffer width around any active nest sites on a site-by-site basis and would consult with CDFG on the buffer widths before commencing construction activities. Unless otherwise approved by CDFG, the Corps would delay construction and maintenance around individual nests until after the young have fledged.

4.3.4.4 Salmon, steelhead, green sturgeon, delta smelt, and Sacramento splittail

The Corps is committed to implementing avoidance measures and BMPs during construction (Section 4.2.3); a SWPPP and associated BMPs for sediment (Section 4.4.4) are expected to reduce potential short-term impacts due to construction-related leakage or spills of toxic substances, turbidity, suspended sediment, and sediment deposition to less than significant levels. However, because of the overlap in life history timing of special-status fish species with the proposed November 13, 2006 to June 1, 2007 construction window, adult and juvenile Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, delta smelt, green sturgeon, and Sacramento splittail could be present at the Project sites during in-water construction activities. Potentially significant short-term impacts to individual fish may therefore occur during construction for the following species and life stages:

- Sacramento River winter-run Chinook salmon ESU: adult upstream migration, juvenile rearing, and smolt outmigration.

- Central Valley spring-run Chinook salmon ESU: adult upstream migration, juvenile rearing, and smolt outmigration.
- Central Valley steelhead ESU: adult residence, adult upstream migration, juvenile rearing, and smolt outmigration.
- Delta smelt: adult residence, adult upstream migration, spawning and egg incubation, and juvenile rearing.
- Green sturgeon: adult upstream migration and juvenile rearing.
- Sacramento splittail: adult residence, adult upstream migration, spawning and egg incubation, and juvenile rearing.

These impacts may result from displacement from preferred habitat, migration delay or disruption, and mortality or injury resulting from placement of rock revetment.

Several Project features provide additional mitigation for Project-related impacts. These features were designed to address the need for ecologically functional shallow-water and floodplain habitat in the constrained reaches of the lower Sacramento River. On-site mitigation includes the creation of shallow wetland habitat by constructing wetland benches planted with emergent vegetation at Sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R (Section 2.4; Figures 2, 4, 6, 8, 10 and 14). This habitat is expected to remain inundated year-round. The planted riparian bench at all sites, and the anchored IWM added at Sacramento River sites upstream and inclusive of Site RM 33.0R, are designed to retain and enhance the structural habitat and hydraulic complexity of the nearshore zones relative to existing conditions. Key objectives include increasing the availability (habitat area), accessibility (frequency of inundation), and quality (shallow water, submerged vegetation and instream and overhead cover) of nearshore habitat for rearing Chinook salmon, steelhead, delta smelt, green sturgeon, and Sacramento splittail during periods when they may occur at the Project sites. These design features are also expected to provide long-term benefits to other native fish species that use nearshore zones and floodplains for spawning and early rearing in the winter and spring (e.g., delta smelt, Sacramento splittail, and possibly green sturgeon).

In addition to the mitigation measures included as part of the Project work schedule and Project design, and those implemented as part of the SWPPP, off-site mitigation would be implemented to compensate for long-term losses of nearshore aquatic and riparian habitat values for Chinook salmon and steelhead adults. Off-site mitigation is described in detail in Section 2.9.

SAM modeling results for Chinook salmon and steelhead (Appendix I) indicate lasting reductions in nearshore habitat values for salmonid adults in summer and fall due to removal of IWM and riparian vegetation and resultant losses of instream and overhead cover. Planted riparian vegetation provides some added nearshore and overhead habitat value for adult salmon and steelhead, but the increase in overhead cover is not sufficient to fully compensate for the loss of summer and fall habitat at the majority of sites. For salmonid juveniles and smolts, the placement of IWM and the creation of planted wetland and riparian benches provide habitat enhancements sufficient to fully mitigate initial winter and spring habitat losses. During summer and fall, however, these Project design features do not compensate for losses of juvenile rearing

and/or smolt outmigration habitat at Sites RM 44.7R, 47.0L, 47.9R, 48.2R, 62.5R and 78.0L, and off-site mitigation would therefore be required. However, the actual effect of the lasting summer and fall habitat deficits would be negligible for several affected life stages because the primary period of abundance at the Project sites does not occur during summer or fall. Only for spring-run Chinook salmon juveniles, fall-run and late fall-run Chinook salmon adults, winter-run Chinook salmon smolts, and steelhead adults and juveniles would the effects of unrecovered summer and fall habitat losses be potentially significant.

SAM results for delta smelt (Appendix I) indicate that loss of summer spawning, incubation, and rearing habitat values at Sites RM 33.0R, 33.3 R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L, due to removal of instream and overhead cover during construction, would not be offset by the planned installation of IWM or the growth of planted riparian vegetation. These deficits are retained throughout the period of analysis. Although the potential impacts of these deficits are not expected to be significant due to the typical restricted downstream distribution of delta smelt, SAM results indicate that off-site mitigation would be required to offset these adverse impacts.

Off-site mitigation would also be required to compensate for potential losses of habitat for green sturgeon larval and juveniles, and rearing habitat for Sacramento splittail. Long-term reductions in summer habitat for young green sturgeon and Sacramento splittail would likely be similar to those described for salmonids, primarily occurring at sites where increases in riparian shade are not sufficient to compensate for the loss of instream structure (i.e., Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L).

4.3.4.5 Special-status plants

If any special-status plant species are confirmed during the early June surveys (e.g., the targeted rose-mallow, delta tule pea, Mason's lilaepsis, delta mudwort), then there would be immediate consultation with the agencies in order to develop appropriate mitigation measures.

4.3.4.6 Special-status species mitigation summary

With the implementation of the on-site mitigation measures described above, the proposed Project would not have substantial adverse effects on special-status wildlife and plants that may be observed during the recommended pre-construction surveys. Implementation of the described mitigation measures would minimize any adverse effects on these special-status wildlife and plants. The Project would not conflict with the provisions of any Habitat Conservation Plan or Natural Community Conservation Plan for special-status plants or wildlife. Potential effects due to the proposed Project, therefore, would be less than significant for these special-status wildlife and plants.

Short-term construction-related impacts would be partially mitigated by implementing the proposed minimization and avoidance measures (Section 4.2.3) and the on-site and off-site mitigation measures described above and in Section 2.9. With implementation of these measures, and due to the short-term nature of the effects, effects on critical habitat for Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, and delta smelt, and EFH for Chinook salmon (all ESUs) are expected

to be less than significant. The Project would not conflict with the provisions of any Habitat Conservation Plan or Natural Community Conservation Plan for special-status fish or their habitat. However, these measures would not fully avoid or mitigate potentially significant short-term effects on individual fish and take may therefore occur.

Long-term effects on certain life stages of special-status fish and their habitat may be significant. However, with the implementation of off-site mitigation measures (i.e., setback levees) that would be required to offset impacts to Chinook salmon, steelhead, and delta smelt, long-term effects on these species and their critical habitat would be less than significant.

4.4 Hydrology and Water Quality

4.4.1 Introduction

This section analyzes the Project’s potential impacts on hydrology and water quality. Impacts on hydrology and water quality, as a result of implementation of the proposed bank protection measures, are summarized (Table 4-21).

Table 4-21. Summary of water quality impacts for the proposed Project.

Impact	Erosion sites	Mitigation	Implementation period
I. Accelerated erosion and sedimentation	All Site	Prepare and implement a Storm Water Pollution Prevention Plan	During and after construction
II. Short-term temporary increase in turbidity levels during construction		No mitigation required	NA
III. Potential inadvertent release of petroleum products into the channel		Prepare and implement a Storm Water Pollution Prevention Plan	During and after construction
		Prepare and implement a Hazardous Materials Management Plan	During construction

4.4.2 Existing conditions

The Sacramento River Flood Control Program’s levees have been developed along the lower 175 miles of the east bank, the lower 185 miles of the west bank, and along the lower

reaches of the river's major tributaries. High winter flows can erode and stress the levees, weakening them and causing them to fail in certain locations. To maintain the integrity of the flood control system, locations with the potential for failure are identified and remedied under the SRBPP. The SRBPP planning area extends from the lower Sacramento River near Collinsville at RM 0 to Chico Landing at RM 194 and includes the lower reaches of the American River (RM 0–23), Feather River (RM 0–61), Yuba River (RM 0–11), and Bear River (RM 0–17), as well as portions of Three Mile, Steamboat, Sutter, Miner, Georgianna, Elk, and Cache sloughs. This section discusses potential water quality impacts related to proposed bank protection activities at the 14 sites within the SRBPP (Sites RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L) that have been identified as failure risks due to erosion on the watersides of the adjacent levees.

At Sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L, surface water quality is affected by the mainstem Sacramento River, sediments carried from the Sutter Bypass into the Feather River confluence at RM 80, the Natomas Cross Canal (RM 78), and the American River (RM 60). During high flows, floodwaters from the Sacramento River, Sutter Bypass, and Feather River all combine and flow over the Fremont Weir (RM 83) and Sacramento Weir (RM 63) into the Yolo Bypass. Agricultural activity in the Sutter Bypass and Feather River Basin is associated with increased turbidity and contaminant runoff (e.g., dormant spray pesticides, herbicides, fertilizers, etc.). The river channel in this reach is typically narrower and deeper than in upstream reaches (Brice 1977) with little erodible sediment stored in bars and river-banks due to the alteration of the bank-building process typical of lowland alluvial rivers (USACE 2004).

4.4.2.1 Hydrology

In the 2006 EA-IS for five critical erosion sites also on the Sacramento River (USACE 2006b), the Corps conducted a hydrologic analysis based on USGS gage data for the period of record spanning October 1, 1967 to September 30, 2005. This period of record follows the completion of the New Bullard Bar Reservoir and is generally consistent with present-day system flows. Flow data from the gages at Verona (USGS 11425500) and Freeport (USGS 11447650) (available on-line at: <http://waterdata.usgs.gov/nwis/sw>) were used as inputs to existing U-Net models to develop estimates of flow estimates for intermediate river locations corresponding to the 14 sites (Table 4-22).

Table 4-22. Median flows at USGS gages by season (1967–2005)
(USACE 2006b).

Averaging period	Median flow in cubic ft per second (USGS Gage No.)	
	Verona RM 78.5R (11425500)	Freeport RM 48.0R (11447650)
Annual Maximum (Q2)	63,200	28,350
Winter (Dec–Feb)	21,400	24,500
Spring (Mar–May)	17,400	21,200
Summer (Jun–Aug)	13,700	16,000
Fall (Sept–Nov)	11,600	13,700
January	22,750	13,550
February	29,550	16,200
March	27,950	15,700
April	16,150	9,885
May	12,900	7,725
June	11,650	7,420
July	14,100	8,350
August	14,200	7,515
September	13,800	7,350
October	10,200	6,110
November	10,900	6,510
December	16,350	9,680

¹ Estimated using Comp Study UNET with linear regression on the distributary flow splits downstream of Freeport gauge (B. Whitin, USACE, Sacramento, California, pers. comm., 21 April 2006).

Results of the hydrologic analysis indicate that annual maximum median flows occur in the winter, and more specifically during the month of February. The lowest annual minimum median flows occur in the fall during October for all sites (USACE 2006b). Flow variations at Verona are primarily affected by inflows from the Sutter Bypass, the Feather River, and Natomas Cross Canal near RM 80, while flow variations at the Freeport gages are more strongly affected by diurnal tidal fluctuation. Stage at the Freeport gages at RM 34.5R and RM 26.9L can vary from ± 2.0 to ± 2.5 feet on a daily basis. The lower erosion sites, at Sites RM 16.9L, 19.0R, 19.4R, and 22.7R, experience the highest degree of tidal variation, ranging ± 3 feet for seasonal flows. The tidal effect diminishes to ± 2.0 feet at Sites RM 33.0R to 48.2R, and to ± 0.75 feet by Site RM 62.5R. Estimated median monthly and seasonal stage data for each of the critical erosion sites (Table 4-23), are derived using available stage data from the Verona (RM 78.5R) and Freeport (RM 48) gages.

Table 4-23. Median stage estimates for Sacramento River and Steamboat Slough critical erosion sites (1967–2005).

Averaging period	Median stage estimate (National Geodetic Vertical Datum [NGVD] 29 ft)													
	Sac. River	Steamboat Slough			Sacramento River									
	RM 16.9 ^a	RM 19.0 ^a	RM 19.4 ^a	RM 22.7 ^a	RM 33.0 ^b	RM 33.3 ^b	RM 43.7 ^b	RM 44.7 ^b	RM 47.0 ^b	RM 47.9 ^b	RM 48.2 ^b	RM 62.5 ^b	RM 68.9 ^b	RM 78.0 ^c
Annual Max (2-yr)	5.1	5.6	5.7	6.6	10.1	10.2	14.7	15.1	16.1	16.5	16.6	22.8	25.6	30.1
Winter (Dec–Feb)	2.9	2.9	2.9	2.9	3.7	3.7	6.0	6.2	6.7	6.9	7.0	10.2	11.7	15.5
Spring (Mar–May)	2.6	2.6	2.6	2.6	3.2	3.3	5.1	5.3	5.8	5.9	6.0	8.7	9.9	13.6
Summer (Jun–Aug)	2.1	2.1	2.1	2.1	2.6	2.6	4.1	4.3	4.6	4.8	4.8	7.0	8.0	11.6
Fall (Sept–Nov)	1.9	1.9	1.9	1.9	2.3	2.3	3.6	3.7	4.0	4.1	4.2	6.0	6.9	10.4
January	3.1	3.1	3.1	3.1	3.8	3.9	6.2	6.5	7.0	7.2	7.3	10.7	12.2	16.1
February	3.9	3.9	3.9	3.9	4.9	5.0	7.8	8.1	8.7	9.0	9.1	13.1	14.9	18.9
March	3.7	3.7	3.7	3.7	4.7	4.7	7.4	7.7	8.3	8.6	8.7	12.6	14.3	18.3
April	2.4	2.4	2.4	2.4	2.9	3.0	4.7	4.9	5.3	5.5	5.5	8.1	9.2	12.9
May	2.0	2.0	2.0	2.0	2.5	2.5	3.9	4.1	4.4	4.5	4.6	6.6	7.6	11.1
June	1.9	1.9	1.9	1.9	2.3	2.4	3.6	3.8	4.1	4.2	4.2	6.1	6.9	10.4
July	2.2	2.2	2.2	2.2	2.7	2.7	4.2	4.4	4.8	4.9	4.9	7.2	8.2	11.8
August	2.1	2.1	2.1	2.1	2.6	2.7	4.2	4.4	4.7	4.9	4.9	7.2	8.3	11.8
September	2.1	2.1	2.1	2.1	2.5	2.6	4.1	4.3	4.6	4.8	4.8	7.0	8.0	11.6
October	1.7	1.7	1.7	1.7	2.1	2.1	3.2	3.3	3.6	3.7	3.7	5.3	6.1	9.5
November	1.8	1.8	1.8	1.8	2.2	2.2	3.4	3.5	3.8	3.9	4.0	5.7	6.5	9.9
December	2.4	2.4	2.4	2.4	2.9	3.0	4.8	4.9	5.4	5.5	5.6	8.2	9.3	13.0

^a Below Freeport, water slope for all seasonal and monthly flows = 0 based on UNET 2-yr water slope for USGS Gage No. 11447650 (B. Whitin, USACE, Sacramento, California, pers. comm., 2006), and water slope for Q2 = 0.00005 (0.264 ft/mi). Stages in this reach are dominated by tidal effects.

^b Between Freeport (USGS Gage No. 11447650) and Verona (USGS Gage No. 11425500), linear slope interpolation was used from existing model output.

^c Above RM 72.2, water slope = 0.0001 (0.528 ft/mi) based on UNET 2-yr water slope for RM 72.2 (USGS Gage No. 11425500) (B. Whitin, USACE, Sacramento, California, pers. comm., 2006).

4.4.2.2 Water quality

The upper reaches of the Sacramento River generally have excellent mineral and nutrient quality, with typical total suspended solids (TSS) concentrations of 1–5 mg/L during summer and fall months, to 50–100 mg/L during winter and spring (USACE 2006b). Seasonal and storm-event variability in TSS is due to the intermittent hydrology of the region, with increasing and decreasing TSS concentrations respectively, as streamflow rises and falls during storms. As water flows through the Central Valley, its quality typically degrades with increased entrainment of fine particulate matter and agricultural return flows. Other sources of potential degradation include waste discharges such as treated municipal wastewater, urban storm water runoff, and irrigated agricultural return flows. These inputs can increase TSS, particularly if sediment BMPs are not yet in place in surrounding areas.

Water quality was described for five erosion control sites on the Sacramento River in an earlier EA-IS (USACE 2006b). Two of the five sites' locations were within the range of the 14 current sites, and therefore water quality information for the two sites (RM 72.2R and 34.5R) is applied to the 14 critical erosion sites described in this report (Table 4-24).

Table 4-24. Mean total suspended solids (TSS) at USGS gages (USACE 2006b).

Month	Verona RM 72.2R (11425500)		Freeport RM 34.5R (11447650)	
	Mean TSS (mg/L)	n	Mean TSS (mg/L)	n
January	122.4	5	153.9	81
February	92.7	3	133.6	70
March	81.7	3	104.7	97
April	75.7	3	56.6	80
May	62	2	44.5	82
June	42	2	27.9	119
July	33	2	26.9	72
August	40	2	32.4	54
September	30.5	2	34.0	74
October	37.5	2	19.4	59
November	33	3	56.3	64
December	139	3	80.7	103

Mean monthly TSS concentrations in Table 4-24 may be considered equivalent to turbidity, with an approximate conversion of 1–1.5 NTU per mg/L TSS, dependent upon parent geology of the suspended materials (APHA 1998). As recorded for water collected from the Sacramento River at the Verona and Freeport gages, mean monthly TSS ranges from 19.4 mg/L (October at Freeport) to 153.9 mg/L (January also at Freeport) (available on-line at: <http://waterdata.usgs.gov/nwis/sw>). The typical seasonal pattern displayed in upper Sierran watersheds, where TSS levels are highest during winter (December–February) months and

lowest during summer (June–August) and fall (September–November), is apparent at the two gage sites.

4.4.2.3 Regulatory setting

The primary regulations governing the hydrology and water quality for the proposed projects are the Clean Water Act of 1970, as amended (33 USC § 1251 et seq.). The US Environmental Protection Agency has designated the California State Water Resources Control Board as the state water pollution control agency, with authority to implement the Clean Water Act in California (Water Code § 13160); this state agency regulates water quality under the “Basin Plan” for the Sacramento River and its tributaries (CVRWQCB 1998). These and other laws, plans, and policies that the Corps will comply with during implementation of the proposed Project are discussed in Chapter 6, “Compliance with Environmental Regulation.”

4.4.3 Environmental effects

As described in the 2006 EA-IS for the previous five critical erosion sites (USACE 2006b), effects on surface hydrology and water quality that could result from construction activities were evaluated on the basis of construction designs, practices, materials to be used, the location and duration of the activities, and the potential for water quality or beneficial-use degradation of water bodies near the proposed project. Operational effects on surface hydrology and water quality were evaluated on the basis of the proposed project’s potential to significantly alter the surface runoff patterns, increase the quantity of runoff, or generate additional sources of pollution.

An effect was considered to be significant and to require mitigation if it would result in one or more of the following:

- Alteration in the quantity and quality of surface runoff.
- Degradation of water quality.
- Violation of any water quality standards or waste discharge requirements.
- Substantial alteration of the existing drainage pattern of the site or area, such that flood risk and/or erosion and siltation potential would increase.
- Placement of structures that would impede or redirect flood flows within a 100-year flood plain.
- Exposure of people, structures, or facilities to significant risk from flooding, including flooding as a result of the failure of a levee or dam.
- Creation of or contribution to runoff that would exceed the capacity of an existing or planned stormwater management system.
- Reduction in groundwater quantity or quality.

4.4.3.1 No Action alternative

Under this alternative, no action would be taken to halt erosion and protect the levee at the 14 erosion sites. As such, the banks would continue to erode, increasing the risk of levee failure and subsequent flooding in the surrounding areas. This erosion would continue to worsen

through wave wash, flood flows, and human disturbance. Eventually, emergency repair measures would need to be implemented to protect the levee system from failing.

Potential effects on water quality from the No Action alternative include increases in total suspended solids and turbidity, both chronically (as levees continue to erode) and acutely (in the event of a levee failure). Water quality impacts from a levee failure in which water floods urban, suburban, and agricultural areas would be wide-ranging and severe. Of particular concern would be those water quality impacts affecting public health, such as the spread of bacteria and viruses that cause disease. Less immediately threatening would be water quality degradation from chemical pollution such as oil and grease, pesticides, heavy metals, and nutrients.

4.4.3.2 Proposed Action alternative

The proposed bank protection measures include: (1) stabilizing the bank toe and upper slopes with revetment, (2) establishing a bench or trenched areas around the MSWL to provide aquatic habitat during lower and higher river stages in winter and spring, (3) placing IWM clusters for aquatic habitat, and (4) planting pole and container plantings to stabilize the bank and provide riparian habitat. Additionally, a biodegradable coir (threaded) fabric may be placed on the upper slope of the revetment to prevent loss of the soil layer during the first high water before vegetation has established.

The construction will occur in two phases, named Phase 1 and Phase 2. Phase 1 work is primarily the placement of rock revetment along the lower portions and toes of the erosion sites. Phase 2 work is primarily the placement of the soil and rock mixture on the upper banks, construction of benches, and planting.

Four water quality impacts that could potentially result from the proposed construction activity were identified:

Impact I: Restriction of floodway and channel capacity

Although placement of rock into the channel has the potential to alter the floodway conveyance of the mainstem Sacramento River at the locations of the projects sites, the Project has been designed to maintain existing floodway capacities and these impacts on channel hydraulics are considered less than significant. No effects on hydrology are expected.

Impact II: Accelerated Erosion and Sedimentation

Land grading and placement of rock beneath the water line during construction would result in moderate ground disturbance and temporary minor alterations to local drainage patterns in the vicinity of all erosion sites. Ground disturbing activities could increase the potential for localized erosion and sedimentation in the Sacramento River and Steamboat Slough at the Project sites. This impact is significant. The Corps would prepare and implement a Storm Water Pollution Prevention Plan (SWPPP) that would reduce water quality effects to a less-than-significant level during and after construction.

Impact III: Short-Term Temporary Increase in Turbidity Levels During Construction

The placement of rock during construction activities within the channel would temporarily generate increased turbidity in the immediate vicinity of the Project area. The placement of rock on the toe from the water surface could result in a plume of sediments generated from the channel bottom and the channel side, which would become suspended in the water, possibly generating turbidity levels above those identified as acceptable by the Basin Plan (CVRWQCB 1998). For landside construction Sites (RM 47.0L, 62.5R, 68.9L, 78.0L, 47.9R and 48.2R), water quality impacts would be limited to those occurring if stormwater runoff entrained loose soil from the sites and staging areas, and delivered the entrained soil to the river. Waterside construction (all sites during Phase 1, and most sites in Phase 2) would include the potential for additional turbidity impacts from wave action generated during boat and barge operations.

After reviewing the Clean Water Act Section 401 certification application for the project, the RWQCB established specific notification requirements and monitoring standards to be met during implementation of the Project. A Section 401 permit application is included in Appendix C. A 404 (b) 1 analysis for the Project under the Clean Water Act is provided in Appendix E.

Impact IV. Potential Inadvertent Release of Petroleum Products into the Channel

Small volumes of petroleum products (fuel, engine oil, and hydraulic line oil) would be temporarily used and handled to operate the construction equipment. There is a risk that the petroleum products would be released in accidental spills and result in harm to the environment. For landside construction Sites (RM 47.0L, 62.5R, 68.9L, 78.0L, 47.9R and 48.2R), water quality impacts would be due to resulting hazardous materials contained in stormwater runoff. The remaining waterside construction sites could present a direct release of petroleum products through general operation of the construction barges and boats during an accidental spill.

4.4.4 Mitigation

The urgency of completing the Phase 1 construction activities prior to the end of the 2006/2007 high-flow season, means that potential turbidity increases generated from rock revetment placement and barge-generated wave action will occur during the period of highest relative turbidity in receiving waters (Table 4-24). However, since all sites will be constructed on the waterside during Phase 1, the potential for stormwater drainage erosion from landside construction will be minimized. Limiting above-water construction activities to the summer low flow period minimizes the potential for stormwater drainage erosion during Phase 2 as well. For both construction phases, standard pollution prevention measures, including (1) erosion and sediment control measures, (2) proper control of non-stormwater discharges, and (3) hazardous spill prevention and response measures would be implemented as part of the Project design specification and standard construction practices. The need for pollution prevention measures is reiterated throughout this section where appropriate and where potential water quality impacts are likely to occur. As described in the Section 401 certification for the project, in addition to stockpiling construction materials in designated staging areas, the following mitigation measures shall be adopted by the Corps and its contractors.

Prepare and Implement a Storm Water Pollution Prevention Plan

The Corps would direct the contractor to prepare Storm Water Pollution Prevention Plan (SWPPP) to be implemented during and after construction to minimize turbidity-generating activities. The SWPPP would identify BMPs for discharges. The SWPPP would include an erosion control and restoration plan, a water quality monitoring plan, a hazardous materials management plan, and post construction BMPs. The BMPs would be maintained until all areas disturbed during construction have been adequately revegetated and stabilized.

For water quality mitigation, and as detailed in the SWPPP, the Corps' contractor would conduct water quality tests specifically for increases in turbidity and sedimentation caused by construction activities as described below:

Sampling location – Water samples for determining background levels at the time of construction shall be collected in the Sacramento River at upstream locations within the general vicinity of the construction site. Upstream testing to establish background levels shall be performed at least once a day when construction activity is in progress. Water samples for determining down-current turbidity and settleable solid levels shall be collected in the Sacramento River at a point 5 feet out from the shoreline and 300 feet down current of each construction site.

Turbidity – During working hours, the construction activity shall not cause the turbidity in the Sacramento River down-current from each construction site to exceed:

- where natural turbidity is between 0 and 5 Nephelometric Turbidity Units (NTUs), increases shall not exceed 1 NTU above ambient levels;
- where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent of ambient levels;
- where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs above ambient levels;
- where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent of ambient levels.

These limits would be eased during in-water working periods to allow a turbidity increase of 15 NTU over background turbidity as measured in surface waters 300 feet downstream from the working area. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses would be fully protected.

Settleable Solids – Settleable solids shall be determined by APHA (1998) Method 2540F. During working hours, the construction activity shall not cause the settleable solids in the Sacramento River down-current from each construction site to exceed 0.1 mL/L after one hour settling.

If turbidity or settleable solids measurements exceed the values listed above, the contractor would either slow construction or stop until compliance with the regulation is achieved. Therefore, this impact would be less than significant and no further mitigation is required.

Develop and Implement a Hazardous Materials Management Plan

The contractor would be required to develop and implement a hazardous materials management plan prior to initiation of construction. The plan would include best management practices to: (1) reduce the likelihood of spills of toxic chemicals and other hazardous materials during construction, (2) describe a specific protocol for the proper handling and disposal of materials and contingency procedures to follow in the event of an accidental spill, and (3) describe a specific protocol for the proper handling and disposal of materials should materials be encountered during construction. Any spills of hazardous materials within the Sacramento River shall be cleaned up immediately with notifications provided to the CVRWQCB, NMFS, and USFWS.

4.5 Air Quality

4.5.1 Introduction

This section analyzes the Project's potential impacts on air quality. Impacts on air quality, as a result of implementation of the proposed bank protection measures, are summarized (Table 4-25).

Table 4-25. Summary of air quality impacts for the proposed Project.

Impact	Erosion sites	Mitigation	Implementation period
I. Increase in emissions associated with construction activity	All sites	Incorporate mitigation to reduce exhaust emissions of NO _x and purchase emissions credits. Implement BMPs to limit generation of PM ₁₀	During construction
II. Create objectionable odors or substantially increase pollutant concentrations		No mitigation required	

4.5.2 Existing conditions

Construction at the 14 critical erosion Sites (RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, 78.0L) would occur within the Sacramento Valley Air Basin. The air basin is bounded by the Coast Ranges to the west and the Sierra Nevada to the east. The Carquinez Strait, a sea-level gap in the Coast Ranges, is located 50 miles southwest of Sacramento, and the intervening terrain is very flat. The prevailing wind direction in the Sacramento Valley is southwesterly, resulting from marine breezes through the Carquinez Strait. During winter, when the sea breeze diminishes, northerly winds occur more frequently, but southerly winds still predominate.

A relatively stable high pressure weather system positioned off the coast diverts storms to the north, away from California, during the spring, summer, and early fall. The dry, warm, subsiding air of this system produces an atmospheric condition known as a subsidence inversion where warm air overlies cooler air. Subsidence inversions may be several thousand feet deep and, together with strong sunlight, can produce worst-case conditions for smog, of which ozone is the largest single component. In conjunction with this high-pressure zone, a thermal trough (a low-pressure zone caused by intense surface heating) is normally positioned over the Central Valley. The relative positions of these pressure zones serve to increase the movement of cooler ocean air through the Carquinez Strait to the Sacramento Valley. This helps cool the region, but it also carries pollutants from upwind, urban sources.

During the late fall, winter, and early spring, the position of the summertime high-pressure zone shifts to the south, allowing numerous storm fronts to sweep through the region. Typically, over 30 of these winter storms can be expected per year, accounting for virtually all of the precipitation the city of Sacramento receives in a typical year (about 18 inches in an average year). Periods of stagnation between storms are characterized by very light winds. Surface inversions, which can form under these conditions, are most often observed in the morning from October to February.

4.5.2.1 Air Quality

Existing conditions for air quality in the Project area can be described with summary statistics for critical air pollutants. Air quality data for the Sacramento Valley Air Basin from 2003 to 2005 are summarized (Table 4-26).

Table 4-26. Summary statistics for air quality data in the Sacramento Valley air basin.

Year	Pollutant (averaging time)	Maximum concentration	No. of days exceeding Federal standards	No. of days exceeding State standards
2003	Ozone (1h)	0.14 ppm	5	51
2003	Ozone (8h)	0.12 ppm	40	N/A
2003	CO (8h)	4.50 ppm	0	0
2003	PM ₁₀ (daily)	123 ug/m ³	0	28
2004	Ozone (1h)	0.13 ppm	1	29
2004	Ozone (8h)	0.10 ppm	20	N/A
2004	CO (8h)	4.05 ppm	0	0
2004	PM ₁₀ (daily)	171 ug/m ³	1	13
2005	Ozone (1h)	0.13 ppm	3	33
2005	Ozone (8h)	0.12 ppm	25	N/A
2005	CO (8h)	4.19 ppm	0	0
2005	PM ₁₀ (daily)	109 ug/m ³	0	19

N/A= not applicable; state standards for ozone are based on 1h averaging time only. Source: CARB (2006).

The Sacramento Valley Air Basin does not consistently meet several applicable State air quality standards (California Air Resources Board, 1996). Depending on the pollutant, the

boundaries of the attainment areas vary. Between 2003 and 2005, measures of ozone frequently exceeded both Federal and State standards, whereas concentrations of PM₁₀ rarely exceeded Federal standards (Table 4-26). PM₁₀ concentrations did, however, frequently exceed State standards. Concentrations of CO did not exceed State or Federal standards during 2003 to 2005.

The Sacramento Valley Air Basin, including all of Sacramento, Yolo, and portions of Sutter, Placer, Solano, and El Dorado counties, is designated as a non-attainment area for the Federal and State ozone standards. Sacramento, Sutter, Solano, and Yolo counties have varying classifications of non-attainment. Sacramento County is designated as a serious non-attainment area according to Federal and State ozone standards; Solano County classification is severe based on both Federal and State standards. Sutter County classifications vary, depending on location, ranging from moderate (Sutter Buttes) to serious (South Sutter) according to State standards, and from no specific classification (Sierra Buttes) to serious (South Sutter) according to Federal standards; Yolo County classification is severe based on Federal standards and serious based on State standards. For CO, the Sacramento urbanized area was reclassified from non-attainment to attainment of the Federal and State standards in 1998; therefore, the Project area is considered to be a maintenance area for CO. For the Federal PM₁₀ standards, only Sacramento County has been designated a non-attainment area; however, redesignation to attainment has been requested by the Sacramento Metropolitan Air Quality Management District (SMAQMD). For the State PM₁₀ standards, the entire air basin is considered a non-attainment area.

4.5.2.2 Regulatory setting

Air quality in the air basin is regulated by Federal, State, and regional agencies. At the Federal level, the U.S. Environmental Protection Agency (EPA) is responsible for overseeing implementation of the 1990 Federal Clean Air Act (42 U.S.C. 7401 et seq.). The Air Resources Board is the State agency that regulates mobile sources and oversees implementation of State air quality laws, including the 1988 California Clean Air Act (Health & Safety §§ 42300 et seq.).

The primary agency that regulates air quality on a regional level in the Project area is the SMAQMD. Regional planning and attainment of air quality goals also involve the local air quality agencies of Feather River Air Quality Management District (FRAQMD) and Yolo-Solano Air Quality Management District (YSAQMD), in addition to the neighboring local air quality agencies of El Dorado County Air Pollution Control District and Placer County Air Pollution Control District. SMAQMD and these local agencies have permit authority over stationary sources, act as the primary reviewing agencies for environmental documents, and develop regulations that must be consistent with, or more stringent than, Federal and State air quality policies.

Pursuant to the Federal Clean Air Act, the U.S. Environmental Protection Agency (EPA) has established national ambient air quality standards for criteria pollutants, including ozone, carbon monoxide (CO), PM₁₀, and particulate matter of respirable size (PM_{2.5}). California's ambient air quality standards are generally more stringent than the Federal standards. The Federal and State standards for ozone, and CO, and PM₁₀ are summarized (Table 4-27).

Table 4-27. Ambient air quality standards.

Pollutant	Averaging time	California standards ¹	Federal standards ²	
			Primary ³	Secondary ⁴
Ozone	8 hour	--	0.08 ppm	0.08 ppm
	1 hour	0.09 ppm	0.12 ppm	0.12 ppm
Carbon monoxide (CO)	8 hour	9.0 ppm	9 ppm	--
	1 hour	20 ppm	35 ppm	--
PM ₁₀	Annual geometric mean	30 ug/m ³	--	--
	Annual arithmetic mean	--	50 ug/m ³	50 ug/m ³
	24 hour	50 ug/m ³	150 ug/m ³	150 ug/m ³
PM _{2.5}	Annual arithmetic mean	--	15 ug/m ³	15 ug/m ³
	24 hour	--	65 ug/m ³	65 ug/m ³

¹California standards for ozone, carbon monoxide, and suspended particulate matter (PM₁₀) are values that are not to be exceeded.

²National standards, other than ozone and those based on annual averages or annual arithmetic mean, are not to be exceeded more than once a year. The ozone standard is attained when the expected number of days per calendar year with maximum hourly average concentrations above the standard is equal to or less than one.

³National Primary Standards: The levels of air quality necessary, with an adequate margin of safety, to protect the public health.

⁴National Secondary Standards: The levels of air quality necessary to protect the public welfare from any known or anticipated adverse effects of a pollutant.

ppm = parts per million; ug/m³ = micrograms/per cubic meter.

Source: CARB (2003).

4.5.3 Environmental effects

The Project would have a significant adverse effect on air quality if it would:

- Violate applicable air quality standards (Table 4-27).
- Contribute substantially to an existing or projected air quality violation.
- Expose sensitive receptors to substantial pollutant concentrations.

4.5.3.1 No Action alternative

The No Action alternative would likely result in a continuation of the current air quality standard violations, similar to the trend shown in Table 4-26.

4.5.3.2 Proposed Action alternative

This section describes the potential air quality effects of the Proposed Action, including exhaust emissions from construction equipment and worker commute and delivery vehicles, fugitive dust generated by construction activities, and vehicle travel over unpaved roads. To complete the analysis, information was collected on projected construction activities, duration, and timing; equipment use and activities for each construction year.

Emissions associated with vehicle exhaust for employee commute vehicles and delivery trucks were estimated using SMAQMD Road Construction Emission Model Version 5.2, with the Motor Vehicle Emission Factor/Emission Inventory Model emission factors (CARB 2002), the latest version of this California Air Resources Board model (SMAQMD 2006a) (Appendix F). These emissions were based on assumptions described in Table 4-28. Emissions associated with the operation of construction equipment were estimated using the SMAQMD's "Guide to Air Quality Assessment in Sacramento County" (SMAQMD 2004). Construction equipment usage from similar projects under the SRBPP was used to estimate daily and annual exhaust emissions for construction equipment.

Table 4-28. Emission sources and assumptions used to determine air emissions.

Emission source	Bank erosion sites
Material placed	116,700 cubic yards of revetment (all by barge) for Phase 1 97,200 cubic yards fill material (57,500 by barge; 39,700 by truck) for Phase 2
Employee commute trips	5 employee trips/day, 20 miles each way (per site)
Delivery truck trips/ Debris haul truck trips	14 trips per day for Site RM 47.0L; 20 trips per day for Site RM 48.2R, 5 trips per day for Site RM 62.5R, 25 trips per day for Site RM 68.9L, and 27 trips per day for Site RM 78.0L Average round trip for trucks: 93 mi for Site RM 47.0L, 93 mi for Site RM 48.2R, 84 mi for Site RM 62.5R, 90 mi for Site RM 68.9L, and 100 mi for Site RM 78.0L 10 cubic yards average load for trucks 43 hauling days
Fuel-fired construction equipment (see note 1 for all sites during Phase 1; and for Sites RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, and 47.9R during Phase 2)	Chain saws (2) Cranes (2) Generators (3) Excavator (1) Winches (4) Motor Boats (2) Pick Up trucks (2) Light plants (2) Air compressor (1) Tug Boats (1)
Fuel-fired construction equipment (see note 2 for Sites RM 47.0L, 48.2R, 62.5R, 68.9L, and 78.0L)	Chain saws (2) Crane (1) Generators (2) Excavator (1) Dump trucks (5) Winches (2) Pick Up trucks (2) Light plants (2)

Emission source	Bank erosion sites
	Front end loader (1) Crawler tractor (1)

1. All sites are assumed to use waterside construction, including barge, tug, and motorboats, during Phase 1; Sites RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, and 47.9R are assumed to use waterside construction during Phase 2 as well.
2. Upstream Sites RM 47.0L, 48.2R, 62.5R, 68.9L, and 78.0L are assumed to use landside construction with truck hauling during Phase 2.

Fugitive dust emissions from vehicle travel over unpaved roads and construction activities were estimated using data and emission factors from SMAQMD Road Construction Emission Model Version 5.2 and its emission factors (CARB 2002), and the latest version of the California Air Resources Board model (SMAQMD 2006a).

The model simulation input data and assumptions regarding construction activities used to estimate construction emissions are summarized (Table 4-27). The projected cubic yards of material to be imported, the projected number of employee commute trips, the anticipated number of delivery and haul truck trips, and the construction equipment projected to be used are listed (Table 4-27).

Emissions thresholds developed by the SMAQMD, YSAQMD, FRAQMD, and the U.S. EPA were used in determining the significance of project-related air quality effects. Emissions would be considered significant if emissions exceeded the local thresholds established by these agencies for construction activities.

These thresholds were established to assist in CEQA analyses within the SMAQMD boundaries (SMAQMD 2004):

- 85 pounds per day of Nitrogen Oxides (NO_x)
- 85 pounds per day of Reactive Organic Gas (ROG)
- 275 pounds per day of PM₁₀

Thresholds established by the YSAQMD were (YSAQMD 2002):

- 82 pounds per day of NO_x
- 82 pounds per day of ROG
- 150 pounds per day of PM₁₀

Thresholds established by the FRAQMD (FRAQMD 1998) were:

- 25 pounds per day of NO_x
- 25 pounds per day of ROG
- 80 pounds per day of PM₁₀

Emissions for the Project would be considered significant under NEPA if annual emissions exceeded U.S. EPA's general conformity thresholds. Conformity thresholds are based on the *de minimis* thresholds included in the U.S. EPA's general conformity guidelines for air pollutants in non-attainment areas (40 FR 51.853), as applicable for the Sacramento area. The thresholds are:

- 25 tons per year of NO_x (Sites RM 19.0R, 19.4R, 43.7R, 44.7R, 47.9R, 48.2R, and 62.5R)
- 25 tons per year of ROG (Sites RM 19.0R, 19.4R, 43.7R, 44.7R, 47.9R, 48.2R, and 62.5R)
- 50 tons per year of NO_x (Sites RM 16.9L, 22.7R, 33.0R, 33.3R, 47.0L, and 68.9L)
- 50 tons per year of ROG (Sites RM 16.9L, 22.7R, 33.0R, 33.3R, 47.0L, and 68.9L)
- 100 tons per year of NO_x (Site RM 78.0L)
- 100 tons per year of ROG (Site RM 78.0L)
- 100 tons per year of PM₁₀ (Sites RM 16.9L, 22.7R, 33.0R, 33.3R, 47.0L, and 68.9L)
- 100 tons per year of CO (all sites)

Potential air pollutants generated during construction include PM₁₀ emissions from debris-moving activities and vehicle travel on unpaved roads, and exhaust emissions from operation of construction equipment, delivery and haul trucks, and employee vehicles. Tailpipe exhaust emissions include ozone precursors (NO_x and ROG) and PM₁₀. The air quality estimates are based on waterside construction equipment emissions (barges and boats) during Phase 1 and landside emissions (trucks) during Phase 2 for Sites RM 47.0L, 48.2R, 62.5R, 68.9L, and 78.0L, and only waterside construction equipment emissions during Phases 1 and 2 for Sites RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, and 47.9R, based on listed assumptions (Table 4-28).

The maximum daily emissions in pounds per day (lb/day) for construction sites of the Proposed Action were estimated (Table 4-29). The average annual emissions in tons per year (ton/yr) for the construction period were also estimated (Table 4-30).

Table 4-29. Maximum daily construction emission estimates (lbs per day).

Project component	NO_x	ROG	PM₁₀	CO	Air quality district
RM 16.9L	135	20	8	96	SMAQMD
RM 22.7R	135	20	8	96	SMAQMD
RM 33.0R	135	20	8	96	SMAQMD
RM 33.3R	135	20	8	96	SMAQMD
RM 47.0L	139	18	12	110	SMAQMD
RM 68.9L	180	21	13	146	SMAQMD
Threshold	85	85	275 ¹	N/A	SMAQMD
RM 19.0R	135	20	8	96	YSAQMD
RM 19.4R	135	20	8	96	YSAQMD
RM 43.7R	135	20	8	96	YSAQMD
RM 44.7R	135	20	8	96	YSAQMD
RM 47.9R	135	20	8	96	YSAQMD
RM 48.2R	162	20	12	129	YSAQMD
RM 62.5R	123	18	11	87	YSAQMD
Threshold	82	82	150 ¹	N/A	YSAQMD
RM 78.0L	199	23	13	161	FRAQMD
Threshold	25	25	80 ¹	N/A	FRAQMD

N/A - not applicable, California Ambient Air Quality Standards not based upon emission rate, but require no increase in ambient CO concentrations by 5% or more.

¹The current threshold for PM10 is set at 50 ug/m³ averaged over a 24-h period.

Table 4-30. Average annual construction emission estimates (tons per year).

Project component	July 1 to November 30			
	NO _x	ROG	PM ₁₀	CO
RM 16.9L	4	1	< 1	3
RM 22.7R	4	1	< 1	3
RM 33.0R	4	1	< 1	3
RM 33.3R	4	1	< 1	3
RM 47.0L	4	1	< 1	3
RM 68.9L	5	1	< 1	4
Threshold	50	50	100	100
RM 19.0R	6	1	< 1	4
RM 19.4R	5	1	< 1	4
RM 43.7R	4	1	< 1	3
RM 44.7R	4	1	< 1	3
RM 47.9R	4	1	< 1	3
RM 48.2R	4	1	< 1	3
RM 62.5R	4	1	< 1	2
Threshold	25	25	N/A	N/A
RM 78.0L	5	1	< 1	4
Threshold	100	100	N/A	N/A

N/A - not applicable, due to being either unclassified (Sutter County; Site RM 78.0L) or an attainment area (Yolo county; Sites RM 19.0R, 19.4R, 43.7R, 44.7R, 47.9R, 48.2R, and 62.5R) for PM₁₀.

Based on this analysis, the proposed project would have the following impacts:

I. Increase in Emissions Associated with Construction Activity

Under CEQA, construction of the Project would result in the temporary increase in emissions of ROG, CO, NO_x, and PM₁₀. Estimated daily emissions of NO_x (Table 4-29) would exceed thresholds established by SMAQMD, YSAQMD, and FRAQMD under the Proposed Action. For PM₁₀, the SMAQMD and other Air Districts revised their CEQA thresholds from a

pound-per-day threshold to a concentration-based threshold in 2002. The current threshold for PM₁₀ is set at 50 ug/m³ averaged over a 24-hour period.

Under NEPA, Federal conformity for ROG, PM₁₀, and CO would not be exceeded, based on annual thresholds (Table 4-30). Federal standard for NO_x would be slightly exceeded if considering both Phases 1 and 2 in comparing to the annual threshold (31 tons/year as compared to the threshold of 25 tons/year).

The proposed mitigation measure below would reduce this impact to a less-than-significant level.

II. Create Objectionable Odors or Substantially Increase Pollutant Concentrations

The Project is not expected to create objectionable odors that would affect a large number of people or expose sensitive receptors to substantial pollutant concentrations. Sensitive receptors are located within the Project area, primarily individual residences within ¼ mile of all sites except Sites RM 68.9L and 78.0L. Sensitive receptors also include one school within ¼ mile of Site RM 16.9L, Isleton Elementary School, located approximately 1,600 feet southeast of the Project site. However, changes in air quality would occur only during the construction period and over a short period of time. Although the Project is adjacent to an urban area, it is not expected to create objectionable odors because diesel exhaust would be readily dispersed. Due to the short-term duration of this Project and the dispersive nature of diesel emissions (Zhu et al. 2002), the impact on sensitive receptors is deemed less than significant. Therefore the Project would result in a less than significant impact on air quality associated with increasing objectionable odors or substantially increasing pollutant concentrations. No mitigation is required.

4.5.4 Mitigation

Standard construction practices at the Project sites would ensure that exhaust emissions from all off-road diesel-powered equipment used on the Project site do not exceed 40 percent opacity for more than 3 minutes in any 1 hour. Any equipment found to exceed 40 percent opacity (or Ringelmann 2.0) would be repaired immediately, and Corps and the appropriate local air quality agency would be notified within 48 hours of identification of non-compliant equipment. A visual survey of all in-operation equipment would be made at least weekly, and a monthly summary of the visual survey results would be submitted throughout the duration of the project, except that the monthly summary would not be required for any 30-day period in which there is no construction activity. The monthly summary would include the quantity and type of vehicles surveyed, as well as the dates of each survey. The SMAQMD and/or other officials may conduct periodic site inspections to determine compliance. Nothing in this Section would supersede SMAQMD, YSAQMD, FRAQMD, or State rules or regulations.

Additional best management practices would be implemented for ozone and PM₁₀ to help protect ambient air quality conditions. To reduce ozone and PM₁₀ levels, the contractor would perform routine tuning and maintenance of construction equipment to ensure that the equipment is in proper running order. The contractor would also monitor dust conditions along access roads and within the construction area to ensure that the generation of fugitive dust is minimized below

the 50 ug/m³ 24-hour threshold. Water sprays would be periodically applied to disturbed areas and soil stockpiles for dust control, at least three times per day during hot weather. Minimum freeboard for all haul vehicles shall be 2-feet or greater. Lastly, soil-disturbing activities would be suspended during periods with winds over 25 miles per hour.

For NO_x, significant air quality effects have been identified, and the Corps would implement the mitigation measures at the end of this Section to reduce emissions in years where SMAQMD, YSAQMD, or FRAQMD thresholds and Federal thresholds of significance are exceeded.

Incorporate mitigation to reduce exhaust emissions of NO_x and purchase emissions credits

The Project applicant or representative shall provide a plan for approval by SMAQMD (Sites RM 16.9L, 22.7R, 33.0R, 33.3R, 47.0L, and 68.9L), YSAQMD (Sites RM 19.0R, 19.4R, 43.7R, 44.7R, 47.9R, 48.2R, and 62.5R), FRAQMD (Site RM 78.0L), the Reclamation Board, and the Corps demonstrating that the Project will not exceed 85 lbs/day of NO_x (Sites RM 16.9L, 22.7R, 33.0R, 33.3R, 47.0L, and 68.9L), 82 lbs/day of NO_x (Sites RM 19.0R, 19.4R, 43.7R, 44.7R, 47.9R, 48.2R, and 62.5R), and 25 lbs/day of NO_x (Site RM 78.0L). The plan shall demonstrate that heavy-duty (> 50 horsepower) off-road vehicles to be used in the construction project, including owned, leased and subcontractor vehicles, will achieve a Project wide fleet-average 20 percent NO_x reduction and 45 percent particulate reduction compared to the most recent CARB fleet average at time of construction. To reduce NO_x emissions for this project, the applicant may employ one or more of the following measures:

- Require injection timing retard of 2 degrees on all diesel vehicles, where applicable.
- Install high pressure injectors on all vehicles, where feasible.
- Encourage the use of reformulated diesel fuel.
- Electrify equipment, where feasible.
- Maintain equipment in tune with manufacturer's specifications.
- Install catalytic converters on gasoline-powered equipment.
- Substitute gasoline-powered for diesel-powered equipment where feasible.
- Use compressed natural gas or on-site propane mobile equipment instead of diesel powered equipment, where feasible.

The contractor shall submit to the lead agency, and all relevant air quality management districts, a comprehensive inventory of all off-road construction equipment, equal to or greater than 50 horsepower, that will be used an aggregate of 40 or more hours during any portion of the construction project. The inventory shall include the horsepower rating, engine production year, and projected hours of use or fuel throughput for each piece of equipment. The inventory shall be updated and submitted monthly throughout the duration of the project, except that an inventory shall not be required for any 30-day period in which no construction activity occurs. At least 48 hours prior to the use of subject heavy-duty off-road equipment, the contractor shall provide the relevant air quality management districts with the anticipated construction timeline including start date, and name and phone number of the Project manager and on-site foreman.

In addition, the Corps and Reclamation Board would pay the appropriate local air quality agency an off-site mitigation fee that would be based on the incremental significant emissions at a rate of \$14,300/ton (or other negotiated amount) of NO_x, and that the fee would be paid to the agency prior to beginning construction. This mitigation fee would be used as off-site mitigation within the air basin to mitigate NO_x from other ongoing construction projects. Using the latest version of the Mitigation Fees Calculator (revised September 2006, SMAQMD 2006b), which assumes 20% reduction in NO_x due to the proposed mitigation plan, payments that would be due to each district were estimated. The payment is calculated to be \$358,240 to SMAQMD for exceedance of 25.1 tons during the construction of the Project, assuming simultaneous construction at erosion Sites RM 16.9L, 22.7R, 33.0R, 33.3R, 47.0L, and 68.9L; \$416,290 to YSAQMD for exceedance of 29.1 tons during the construction of the Project, assuming simultaneous construction at erosion Sites RM 19.0R, 19.4R, 43.7R, 44.7R, 47.9R, 48.2R, and 62.5R; and \$29,880 to FRAQMD for exceedance of 2.1 tons during the construction at the erosion Site RM 78.0L. At this point, it is difficult to verify the fee estimates above because the specific number of days that each piece of equipment will be used is not yet known, as is the specific length of the construction period. Final emissions estimates and fees will be developed by the contractor.

With the implementation of the mitigation measures described above, the Project would not exceed SMAQMD, YSAQMD, or FRAQMD thresholds, and Federal Thresholds of Significance. As a result, potential emissions due to the Project would be below the level of significance for air quality.

4.6 Noise

4.6.1 Existing conditions

Noise-sensitive land uses are defined as uses that can be adversely affected by high levels of noise. Residences, schools, hospitals, nursing homes, religious facilities, libraries, and other areas of similar use are often considered to be sensitive to noise. Noise at the erosion sites is primarily caused by vehicular traffic on nearby roads, boat traffic along the Sacramento River, and routine agricultural activities on nearby farmland. Occasional intermittent and minor noise may occur from outdoor residential activities. No industrial type activities occur within a quarter mile of each of the sites.

According to the Yolo County Department of Planning and Public Works and the Sutter County Department of Planning, Yolo and Sutter counties have not adopted noise ordinances (C. Baracco, pers. comm., 2005; L. Wilson, pers. comm., 2005, as cited in USACE 2006b). Therefore, erosion Sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L are in counties without noise ordinances.

Although Sacramento County does employ a noise ordinance, the temporary noise from construction at erosion sites within Sacramento County (Sites RM 16.9L, 47.0L, and 68.9L) is not subject to the Noise Ordinance Standard according to Sacramento County Code, Chapter 6.68.090, which states the following:

“The following are exempted from the provisions of this chapter:
(e). Noise sources associated with construction, repair, remodeling, demolition, paving or grading of any real property, provided said activities do not take place between the hours of eight p.m. and six a.m. on weekdays and Friday commencing at eight p.m. through and including seven a.m. on Saturday; Saturdays commencing at eight p.m. through and including seven a.m. on the next following Sunday and on each Sunday after the hour of eight p.m. Provided, however, when an unforeseen or unavoidable condition occurs during a construction Project and the nature of the Project necessitates that work in process be continued until a specific Phase 1s completed, the contractor or owner shall be allowed to continue work after eight p.m. and to operate machinery and equipment necessary until completion of the specific work in progress can be brought to conclusion under conditions which will not jeopardize inspection acceptance or create undue financial hardships for the contractor or owner.”

Solano County does not have a noise element within its General Plan, but noise is addressed in the county’s Health and Safety Code (Koll-Meyers, pers. comm., 2006). Maximum allowable noise levels from construction equipment are defined as peak noise in decibels in the A scale (dBA), 50 feet from the source of the noise. The maximum allowable peak noise levels of earthmoving equipment (such as front loaders, backhoes, graders, and dump trucks) range from 75 to 80 dBA. The maximum allowable peak noise level of materials handling equipment such as derricks and cranes is 75 dBA. Generators and air compressors also have a maximum allowable noise level of 75 dBA. Therefore, sites within Solano County (Sites RM 19.0R and 19.4R) are subject to these noise limits. However, the Code recognizes that these noise standards are “relatively lenient, since such activities are temporary and difficult to avoid” (Solano County Planning Department 1977). Noise producing activities will also be prohibited if emission levels exceed 50 dBA as measured at the boundary of a nearby residential zone.

Typical construction equipment noise emissions are generally between 65 and 96 dBA, 50 feet from the source equipment (Table 4-31). Although noise studies can be performed to generate “noise contour” maps, one general rule of thumb is that noise decreases by 10 dBA with every 100 foot distance from the source (Solano County Planning Department 1977).

Table 4-31. Construction equipment noise levels.

Construction equipment	Number of different manufacturers and models tested	Typical noise level (dBA) from 50 ft
Crane	17	70 to 94
Bulldozer	41	65 to 94
Front-end Loader	28	77 to 96
Back hoe	5	74 to 92

Source: US Federal Highway Administration 1973.

4.6.2 Environmental effects

According to the State's CEQA Guidelines, a noise impact is considered significant if it:

- Exposes persons to or generates noise levels in excess of standards established in the local general plan or noise ordinance, or applicable standards of other agencies;
- Exposes persons to or generates excessive ground-borne vibration or ground-borne noise levels;
- Creates a substantial permanent increase in ambient noise levels in the Project vicinity above levels existing without the project;
- Creates a substantial temporary or periodic increase in ambient noise levels in the Project vicinity above levels existing without the project.

4.6.2.1 No Action alternative

Under this alternative, no action would be taken to halt erosion and protect the levees at the 14 erosion sites. Noise from barges, heavy equipment, and other Project related traffic would not occur. However, in the event of levee failure, even more noise could result from equipment working on emergency repairs. Heavy equipment used to remediate and clean up flooded areas would likely create more noise than that created in more controlled construction activities, and would likely run for extended periods of time.

4.6.2.2 Proposed Action alternative

Work is anticipated to occur for up to 8 hours per day, five days a week over a 120-day period at each site. Significant noise generating activity is expected to occur during the first 60 days of the 120-day period when Phase 1 installation of revetment occurs. The remaining 60-day period would be used for Phase 2, installation of upper berm material and plant establishment. All Phase 1 work will be constructed from the waterside, primarily with cranes. Phase 2 construction will occur from both the water- and landside. Heavy equipment used in Phase 2 would likely include front end loaders, backhoes, graders, and excavators. Landside construction would include those listed above and add the use of dump trucks. Heavy equipment would be used to clear some vegetation, prepare river banks, move revetment on the toe of the bank, and place trees over the revetment as IWM. Implementation of the Project would increase noise and vibration levels along Project access routes and near the Project sites.

Rock dumping may generate the highest noise levels, possibly reaching 100 dBA. If we assume that:

- noise attenuates 10 dBA every 100 feet distance from the source,
- allowable noise is 50 dBA at the edges of residential areas, and
- the highest and intermittent noise emitted is 100 dBA,

then the nearest "sensitive receptor" (say, a single family residence) should be no closer than 500 feet from the noise source.

At those sites where the existing river bank and riparian forest act as sound barriers or absorbers, an additional 15 dBA can be assumed to be “lost” to the sensitive receptors (USACE 2006b). Therefore, for all waterside construction sites, the closest distance that a sensitive receptor should be decreases to approximately 350 feet from the noise source.

Aerial photographs of the sites indicate that most are in low density, agricultural areas, and sensitive receptors are few if any. Sites that have developed subdivisions within 350 feet are Sites RM 16.9L and 62.5R; however, a freeway is located within the footprint of Site RM 62.5R. Existing freeway noise will likely mask some of the noise generated by the project, and because of the freeway, the assumption that potential sensitive receptors at Site RM 62.5R have a higher noise tolerance is reasonable. Sensitive receptors at Site RM 16.9L may also have a higher noise tolerance because the construction work would greatly reduce the risk of levee failure, directly protecting receptors’ homes. Additionally, Site RM 16.9L is located in Sacramento County, which allows for some construction to be exempt from the noise limits set within the Sacramento County Noise Ordinance.

At all sites, given that sensitive receptors are either very few or are likely noise tolerant, the potential noise and vibration effects of the Project on sensitive receptors is considered less than significant.

4.6.3 Mitigation

Noise and vibration effects are considered less than significant; therefore, no mitigation is required.

4.7 Traffic

4.7.1 Existing conditions

4.7.1.1 Roadways

With the exception of Sites RM 16.9L and 62.5R, all sites are characterized by their proximity to very small towns and surrounding agricultural land use (Table 4-32). Road use in these areas is assumed to be light.

Table 4-32. Primary roadways used for site access.

Site and construction access	Nearest town	Primary roads used for site access	Distance from nearest town to quarry in San Rafael (miles)
RM 16.9L Waterside	Isleton	State highways 160 and 4; Interstate 80	70
RM 19.0R Waterside	Walker Landing	Ryer Road East, State highways 160 and 4, Interstates 80 and 580	76
RM 19.4R Waterside	Walker Landing	Ryer Road East, State highways 160 and 4, Interstates 80 and 580	76

Site and construction access	Nearest town	Primary roads used for site access	Distance from nearest town to quarry in San Rafael (miles)
RM 22.7R Waterside	Howard Landing	Sutter Island Road, State highways 160 and 4, Interstate 80 and 580	77
RM 33.0R waterside	Paintersville	State highways 160, 220, and 4; Interstate 80	85
RM 33.3R Waterside	Paintersville	State highways 160, 220, and 4; Interstate 80	85
RM 43.7R Waterside	Clarksburg	South River Road, State highways 160 and 37, US Highway 50, Interstate 5	97
RM 44.7R Waterside	Clarksburg	South River Road, State highways 160 and 37, US Highway 50, Interstate 5	97
RM 47.0L Waterside and landside	Freeport	Freeport Blvd, State highways 160 and 37, Interstate 5 and 80, US Highway 50	93
RM 47.9R Waterside, possibly landside	Freeport	South River Road, State highways 160 and 37, Interstate 5 and 80, US Highway 50	93
RM 48.2R Waterside, possibly landside	Freeport	South River Road, State highways 160 and 37, Interstate 5 and 80, US Highway 50	93
RM 62.5R Waterside and landside	Lovdal	North Harbor Blvd, Interstate 80, State highway 37, US Highway 101	84
RM 68.9L Waterside and landside	Vin	Garden Highway, Interstate 5 and 80, State highways 113 and 37, US Highway 101	90
RM 78.0L Waterside and landside	Joes Landing	Garden Highway, State highways 99 and 37, Interstates 5 and 80, US Highway 101	100

4.7.1.2 Airports

Sacramento International Airport is located approximately 1 mile from Site RM 68.9L. The airport services a 29-county regional area and has about 160 scheduled daily flights serving about 20,000 passengers).

4.7.2 Environmental effects

Effects to traffic and transportation as a result of implementing the proposed Project were analyzed based on the significance criteria set forth in the State CEQA Guidelines. Effects were found to be significant if the Project would:

- Cause an increase in traffic that is substantial in relation to the existing traffic load and capacity of the street system;
- Exceed either individually or cumulatively, a level of service standard established by the by the county congestion management agency for designated roads and highways;
- Result in a change in air traffic patterns, including either an increase in traffic levels or a change in location that results in substantial safety risks;
- Substantially increase hazards due to a design feature or incompatible uses;
- Result in inadequate emergency access;
- Result in inadequate parking capacity; or
- Conflict with adopted policies, plans, or programs supporting alternative transportation.

4.7.2.1 No Action alternative

Under this alternative, no action would be taken to halt erosion and protect the levees at the 14 erosion sites. Increased road usage would not occur. However, in the event of levee failure, even more traffic could result from equipment working on emergency repairs. Heavy equipment used to remediate and clean up flooded areas would likely create more traffic than that created in more controlled construction activities, and would likely run for extended periods of time.

4.7.2.2 Proposed Action alternative

All Phase 1 construction will occur from the waterside, so all rock delivery and placement will be by barge and crane. Staging areas will be as close as possible to the sites, likely on nearby agricultural properties. Once heavy equipment arrives at the staging areas, travel from the staging areas to the sites will be limited due to the short distances.

Phase 2 construction will also occur from the waterside at most of the sites. Staging areas will be the same as those used during Phase 1. Again, once heavy equipment arrives at the staging areas, travel from the staging areas to the sites will be limited due to the short distances.

At Sites RM 47.9R and 48.2R, Phase 2 water- or landside construction is anticipated. Landside Phase 2 construction is anticipated at Sites RM 47.0L, 62.5R, 68.9L, and 78.0L. For the upper bank and bench materials to be delivered to these sites, trucks will travel on public roads from the quarry in San Rafael, California, to the landside construction sites. Although each site is located on a public road, some lane closures and traffic delays may occur on the access roads, to facilitate delivery, staging, and construction. On roads in the vicinity of the sites, and roads connecting the sites and the quarry, traffic delays could also occur as trucks haul materials, entering and leaving the site areas.

There would be approximately 12 to 15 truck trips a day, for approximately 75 days, hauling rock and other bank protection materials. These trips would take place during business hours of 6:00 a.m. to 5:00 p.m. However, most trips would occur during off-peak traffic hours, from 9:00 a.m. to 4:00 p.m. Since these erosion sites are not in the vicinity of heavily traveled roads, this potential increase in traffic is not likely to have a significant effect on traffic in the area.

Due to the proximity of Sacramento International Airport to the erosion Site RM 68.9L, the potential for habitat creation that increases wildlife populations, that subsequently increases wildlife-aircraft strikes, has been evaluated. No permanent or seasonal wetlands would be created by the Project; therefore, the Project is not likely to be an attractant for waterfowl (e.g., ducks and geese), which are commonly reported in aircraft strikes. Additionally, trees and shrubs planted at this site would primarily be small and would not create nesting habitat for raptors that are also commonly reported in wildlife-aircraft strikes (Federal Aviation Administration et al. 2003). Since the Project is not intended to create feeding, breeding, or nesting habitat for bird species that are most commonly reported in wildlife-aircraft strikes, no impacts to air traffic or safety are expected. Furthermore, the Project would not increase mammal populations to levels where they threaten aircraft safety since the airport is approximately one mile from the erosion Site RM 68.9L. This evaluation is supported by an analysis made by USFWS (2006) regarding potential increases in aircraft-wildlife strikes due to Project activities at Site RM 72.2R.

Trees planted at Site RM 68.9L have the potential to be structural hazards to aircraft. However, all trees planted at Site RM 68.9L would be placed below existing riparian vegetation and when mature are not expected to exceed the present canopy height. Therefore, trees planted at Site RM 68.9L would not create a structural hazard to aircraft on take-off or landing since none is known to exist currently.

Landside construction during Phase 2 can potentially affect traffic, according to criteria set forth in State CEQA Guidelines. However, with proper mitigation, the effects can be reduced to less than significant.

4.7.3 Mitigation

The construction contractor shall prepare a traffic management plan to be implemented during construction. The traffic management plan shall be approved by the counties and the California Department of Transportation. The purpose of the plan would be to:

- Reduce, to the extent feasible, the number of vehicles (construction and other) on the roadways adjacent to the Project area;
- Reduce, to the extent feasible, the interaction between construction equipment and other vehicles; and
- Promote public safety through actions aimed at driver and road safety.

The traffic management plan shall include specific measures to manage traffic in the Project area and along haul routes. The plan would include specific measures to ensure the following:

- Through access for emergency vehicles would be provided at all times.
- Access would be maintained for driveways and private roads.
- Adequate off-street parking would be provided for construction-related vehicles throughout the construction period.
- Roadway segments or intersections that are at or approaching a Level of Service that exceeds local standards would be identified.
- A plan would be provided for construction-generated traffic, to avoid these locations at the peak periods, either by traveling different routes or by traveling at non-peak times.
- Traffic controls on major roads and collectors would include flag-persons wearing bright orange or red vests and using “stop/slow” paddles to direct drivers.
- Access to public transit would be maintained, and movement of public transit vehicles would not be impeded as a result of construction activities.
- Construction warning signs would be posted in accordance with local standards or those set forth in the Manual on Uniform Traffic Control Devices (Federal Highway Administration 2000) in advance of the construction area and at any intersection that provides access to the construction area.
- Written notification would be provided to appropriate contractors regarding appropriate routes to and from construction sites and weight and speed limits for local roads used to access construction sites.
- A sign will be posted at all active construction sites that give the name and telephone number or electronic mail address to contact with complaints regarding construction traffic. The sign should be at least one square yard in size.
- Rock, dirt, and/or other fill material would be prevented from being accidentally dropped from trucks traveling on highways to and from the erosion sites.

The traffic control plan to be developed by the construction contractor, would be included in the construction specifications, implemented by the construction contractor throughout the construction period, and monitored by the Corps.

With the implementation of the mitigation measures described above, any impacts due to traffic will be less than significant.

4.8 Recreation and Navigation Safety

This section includes descriptions of existing recreation opportunities in the Project area and an analysis of short-term and long-term impacts of the Proposed Action on recreational opportunities at all 14 sites.

4.8.1 Existing conditions

Public access to the Sacramento River is gained at several points, such as bridges and/or docks near Sites RM 33.0R, 47.9R, and 62.5R. Popular water activities include swimming, boating, tubing, and fishing. Boating activities predominantly take place in summer months, while fishing is a year-round activity. The remaining erosion sites are not reported to be near private or public access areas or docks or bridges and are therefore not in an area that supports much recreation. All of the erosion sites have steep slopes, and existing revetment and vegetation that make access for recreation difficult.

4.8.2 Environmental effects

Based on the significance criteria set forth in the State CEQA Guidelines, effects on recreation would be considered significant if implementation of an alternative would:

- Increase the use of existing neighborhood and regional parks or other recreational facilities such that substantial physical deterioration of the facility would occur or be accelerated;
- Include recreational facilities or require the construction or expansion of recreational facilities that might have an adverse physical effect on the environment;
- Result in a substantial loss of recreational opportunities;
- Substantially increase the risk of injury to the public in or adjacent to the Project area.

4.8.2.1 No Action alternative

Under this alternative, no action would be taken to halt erosion and protect the levees at the 14 erosion sites. Recreation and navigation activities would continue in their current patterns. However, in the event of levee failure, more water traffic could result from barge and crane equipment working on emergency repairs.

4.8.2.2 Proposed Action alternative

During Phase 2 construction from June through November, the erosion site locations and immediate areas adjacent to the sites would be closed to the public. Detours and alternate routes would be implemented as necessary. Most of the erosion sites are inaccessible due to steep slopes, so river access would not be displaced as a result of construction. However, at Site RM 47.9R, the dock located within the construction area would likely be closed to pedestrian traffic while Project activities occur. Site RM 44.7R has a dock and a staircase outside of the Project footprint but within the 200-foot buffer that would also potentially be impacted. The barge and tugboats would occupy approximately 200 feet of the river channel. Access to docks and marinas may be temporarily halted due to the presence of construction equipment (boats, barges, landside staging and storage material) working at this location. Boat access to the docks at Sites RM 33.0R and 47.9R may be prohibited during construction.

The placement of soil, revetment, vegetation, and IWM along the bank would be designed to enhance the natural qualities of the area. Fishing, boating, and swimming opportunities in the area would remain substantially the same as before construction, with the exception of the temporary closures of the construction site areas for public safety purposes.

Most existing trees would remain in place to provide shade, nesting, and quality habitat for wildlife. The installation of rocks, soil and native vegetation, IWM, and their post-construction appeal to the public would not be substantially diminished when compared to existing conditions. As a result, no substantial loss of recreational values will occur at each erosion site.

Existing IWM and other underwater vegetation pose a potential threat to the public who travel on the waterside of the levee near the river bank. Most boat operators, jet-skiers, and swimmers usually avoid sections of river where snags, downed trees, strainers, logs, and concrete debris occur. Implementation of the Project would fortify and secure existing IWM, add new highly visible IWM, and place uniform revetment along the bank. Foot entrapment would be avoided by the use of relatively uniform gradation in rock sizes, including a full range of small, medium, and large rocks that would preclude the presence of large voids. A more gradual slope of plantable soil would replace the very steep banks of the erosion sites. This modification would reduce the current risk of falling to bank users. In addition, should watercraft become stuck at this site, or should a swimmer need to get out of the water, the revetment would provide an area that could be easily accessed.

To ensure that fish habitat is at the highest quality possible, the Project would anchor the IWM so that it lies within the flowing channel without floating downstream. At each site, IWM will be placed at the summer mean water surface elevation, which will be visible during the summer and fall flows. The IWM clusters act as fish habitat for sensitive species that use the Sacramento River, such as Chinook salmon and steelhead.

4.8.3 Mitigation

The placement of IWM would incorporate the following design factors to minimize the risk to the public:

- Signage and or buoys will be provided at each of the critical sites to warn people of potential hazards during construction.
- The design would ensure local approach visibility and would incorporate the use of natural indicators, such as a partially emergent portion of the IWM, in combination with vegetation on the low elevation areas, to act as a visual warning of the presence of shallowly submerged hardscape, which will reduce the hazard to power boaters and paddlers. This would ensure visual warning so that boaters, swimmers, and other recreators would have adequate time to avoid the IWM, and possible injury or damage to property.
- IWM would be placed in a manner that reduces its ability to act as a “strainer,” thus reducing the risk to recreationists flowing with the river current, especially swimmers and boaters. Specifically, the outboard portions of IWM would be oriented in a downstream direction or would be installed in the form of relatively compact rootwads that would tend to deflect watercraft and reduce the risk for entrapment or straining within the IWM.
- During construction, detours and alternate routes would be imposed as necessary on the levees that occur within the construction zones.

- Construction personnel would notify boaters and jet-skiers if they approach within 100 feet of in-water construction equipment (barges and tugboats, etc.) to stay away.

With the implementation of the mitigation measures described above, impacts to recreation and navigation safety are considered less than significant.

4.9 Aesthetics/Visual Resources

The term “aesthetics” typically refers to the perceived visual character of an area, such as of a scenic view, open space, or architectural facade. The aesthetic value of an area is a measure of its visual character and visual quality combined with viewer response (Federal Highway Administration 1983). This combination may be affected by the components of a Project (e.g., buildings constructed at heights that obstruct views, hillsides cut and graded, open space changed to an urban setting), as well as variable elements such as light, weather, and the length and frequency of viewer exposure to the setting. Aesthetic impacts are changes in viewer response as a result of Project construction and operation.

4.9.1 Visual character

Visual character is the appearance of the physical form of the landscape composed of natural and human-made elements including topography, water, vegetation, structures, roads, infrastructure, and utilities—and the relationships of these elements in terms of form, line, color, and texture.

4.9.2 Visual quality

Visual quality is evaluated based on the relative degree of vividness, intactness, and unity as modified by its visual sensitivity. Vividness is the visual power or memorability of landscape components as they combine in striking or distinctive visual patterns. Intactness is the visual integrity of the natural and human-built landscape and its freedom from encroaching elements; this factor can be present in well-kept urban and rural landscapes as well as in natural settings.

Unity is the visual coherence and compositional harmony of the landscape considered as a whole; it frequently attests to the careful design of individual components in the artificial landscape (Federal Highway Administration 1983). High-quality views are highly vivid, relatively intact, and exhibit a high degree of visual unity. Low-quality views lack vividness, are not visually intact, and possess a low degree of visual unity.

Viewer response is the psychological reaction of a person to visible changes in the viewshed, defined as all of the surface area visible from a particular location (e.g., an overlook) or sequence of locations (e.g., roadway or trail) (Federal Highway Administration 1983). The measure of the quality of a view must be tempered with the overall sensitivity of the viewer and viewer response. Viewer sensitivity is dependent on the number and type of viewers and the frequency (e.g., daily, seasonally) and duration of views (i.e., how long a scene is viewed). Visual sensitivity is also modified by viewer activity, awareness, and visual expectations in relation to the number of viewers and the viewing duration.

4.9.3 Existing conditions

All 14 erosion sites are located in primarily agricultural areas, yet have a few residences or buildings within ¼ mile. Sites RM 16.9L and 62.5R are near more concentrated housing (subdivisions), and Site RM 62.5R includes Highway 880. At Sites RM 68.9L and 78.0L, no houses or other buildings are in close proximity.

The erosion sites currently are characterized by revetment and concrete debris, fallen trees and IWM, soft sandy (eroded) bank material, uneven and sometimes undercut shoreline, tall mature trees, scour holes (caves), and expansion of shallow sandy natural beach areas (Appendix G).

The appearances of the opposite banks of the channel are similar to the Project sites but without significant signs of erosion. The vividness, intactness, and unity of these areas are moderate to high due to the scenic views they provide of the river and the presence of some mature riparian vegetation. Viewers of the erosion sites would be those traveling Highway 160, South River Road, Freeport Boulevard, North Harbor Boulevard, the Garden Highway, Sutter Island Road, and Ryer Road East. Boaters, recreationists using the levee, and a few homeowners would also have views of the erosion sites.

4.9.4 Environmental effects

Significance criteria were developed based on the State CEQA Guidelines. Effects were considered significant if the Project would:

- Have a substantial adverse effect on a scenic vista;
- Substantially damage scenic resources, including, but not limited to, trees, rock outcroppings, and historic buildings within a state scenic highway;
- Substantially degrade the existing visual character or quality of the site and its surroundings; or
- Create a new source of light or glare that would adversely affect day or nighttime views in the area.

4.9.4.1 No Action alternative

Under this alternative, no action would be taken to halt erosion and protect the levee at the 14 erosion sites. Aesthetic resources associated with the existing levees would remain unchanged. However, under the current circumstances with the existing levee system in place, continued erosion due to wave wash, flood flows, and human disturbance would increase the risk of levee failure and subsequent flooding in the surrounding areas. The aesthetic nature of the flooded areas would be less desirable than the levees themselves, especially in flooded residential areas.

4.9.4.2 Proposed Action alternative

A crane on top of a barge or on top of a levee would be visible to residents and visitors within the surrounding areas. Motorists, boaters, pedestrians, and bicyclists using the levee crown would be able to see the construction equipment. The equipment would be visible for approximately 120 days. The presence of construction equipment would degrade the visual quality of scenic vistas from the levee top and river to that of lower vividness, intactness and unity. However, because these effects are temporary (i.e., only for the duration of construction), they are considered to be less than significant.

Visual effects from the placement of rock and rock onto the bank would be offset by the installation of IWM, soil fill, and tree plantings. These features would successfully establish and cover the riverbank within a 2-year period.

4.9.5 Mitigation

Revegetation and site restoration, as incorporated into the Project, would add positive elements of visual resources to areas that have been degraded through erosion. In the long-term, the Project will likely improve viewshed opportunities at the 14 erosion sites. No trees are currently scheduled for removal, thus preserving the existing visual resources. Therefore, no mitigation is required.

4.10 Cultural Resources

4.10.1 Existing conditions

Records and literature searches were conducted at the North Central Information Center at California State University, Sacramento, on October 17, 2006; the Northwest Information Center at Sonoma State University, Rohnert Park, on October 27, 2006; and the Northeast Information Center at Chico State University, Chico, on October 9, 2006. Their files were inspected for locations of prehistoric and historic site locations, previous studies, National and State Registers of Historic Places, and National and State Historic Landmarks.

The 14 critical levee repair locations lie on and are immediately adjacent to sections of the Sacramento River levee system. Over the years, construction, improvements, repairs, and maintenance of the levee system have resulted in continuous investigations of historical and archeological resources along the Sacramento River. Numerous literature and record searches and field examinations have been conducted within the vicinity of this project's area of potential effect (APE).

The only previously recorded historic sites within the APE are two historic features, Mississippi River Mat, recorded in 1988 by Roger Werner, and Cave Landing, reported in 1988 by Roger Werner. Reported locations for these sites lies near or within the Sacramento River shore at Site RM 43.7R.

All 14 levee repair locations and staging areas were closely inspected for cultural resources by a Corps archeologist between October 6 and 13, 2006. At the time of investigation

from land and boat at low water level, no evidence of Cave Landing could be detected. The Mississippi River Mat was clearly evident by numerous pilings paralleling the shore. Other than the river levees, the Mississippi River Mat is the only prehistoric or historic resources present within the project's APE.

4.10.2 Environmental effects

An alternative would be considered to have a significant adverse effect on cultural resources if it diminishes the integrity of the resource's location, design, setting, materials, workmanship, feeling, or association. Types of effects include physical destruction, damage, or alteration; isolation or alteration of the character of the setting; introduction of elements that are out of character; neglect; and transfer, lease, or sale.

4.10.2.1 No Action alternative

This alternative would have no effects on existing cultural resources in the Project area. Under this alternative, repair of the levees by adding toe rock and additional fill and rock to the erosion areas of the levees would not occur. Designated borrow sites, staging areas, and mitigation sites would not be used, and vegetation planting on the levee would not occur.

4.10.2.2 Proposed Action alternative

This alternative involves placement of rock and possible re-contouring of the levee slope to repair the eroded locations. Construction equipment would need to be staged at several locations. No known prehistoric resources would be affected by this alternative. Close inspection from land and boat by a Corps archeologist indicates that Cave Landing has likely been destroyed by subsequent flood events since its initial recording.

In 1988, at the Corps request, the Mississippi River Mat was treated as a cultural site and was recorded by Werner. At that time, the Northwest Information Center did not consider this a site and the mat was not entered into the archeological database. Since that time, the mat has further deteriorated due to erosion caused by subsequent flood events and no longer serves its original purpose. This site has already been previously recorded and the Corps determines that this site should be considered as a feature of the levee system for the purposes of this project. Upgrading measures to control levee erosion replaces the original function of the mat.

The levee system has been assumed to be eligible for the National Register of Historic places for the purposes of this Project in accordance with an agreement made with the California State Historic Preservation Officer (SHPO) on March 23, 2006. For the purposes of this project, the levee repairs would have no adverse effects to historic resources. Pursuant to the SHPO agreement, any adverse effects to the levee system would be mitigated to a level of no adverse effect by restoration of the original configuration of the levees.

Although historic shipwrecks are known to be in the river, their exact locations are unknown. In addition, waterside construction activities would be conducted in shallow depths of water unlikely to contain shipwreck remains not already identified. Should any shipwrecks be discovered during Project construction, mitigation measures would be required.

The possibility exists that potentially significant unidentified cultural remains could be encountered during Project construction. The probability of any effects on archeological sites is considered to be very unlikely because the Project is confined to restoring levees to their original configuration. Staging areas would be confined to roadsides, paved parking lots and areas extensively disturbed by farming activities.

4.10.3 Mitigation

If buried or otherwise obscured cultural resources are encountered during construction, activities in the area of the find would be halted, and a qualified archeologist would be consulted immediately to evaluate the find.

Should any potentially significant cultural resources be discovered, compliance with 36 CFR 800.13(b), "Discoveries without prior planning," would be implemented. Data recovery or other mitigation measures might be necessary to mitigate adverse effects to significant properties.

National Historic Preservation Act of 1966, as amended (16 U.S.C. 470 et seq.), Historic and Archeological Resources Protection Act (16 U.S.C. 470AA et seq.), Protection of Historic Properties (36 CFR 800). *Partial Compliance.* The Project is not currently in compliance with Section 106 of the National Historic Preservation Act (36 CFR 800). The Corps would ensure that compliance is complete before implementation of the project. A letter dated November 29, 2006, has been sent to the SHPO asking for its concurrence with the Corps' determinations of the APE and eligibility, and the Corps' finding of effect. Letters to potentially interested Native Americans were sent on November 23, 2006, asking for their knowledge of locations of archeological sites, or areas of traditional cultural interest or concern.

4.11 Hazardous Waste

This Section describes a hazardous, toxic and radioactive waste (HTRW) assessment of the 14 erosion sites, conducted by MEC^X during November 2006 (Appendix H). All existing conditions information is based on the November 2006 investigation.

4.11.1 Existing conditions

Many sources were reviewed to develop descriptions of existing conditions at the 14 sites. Sources include:

- Federal and State databases researched and reviewed by Environmental Data Resources, Inc. in November 2006,
- Aerial photographs dating from 1952 to present,
- Topographic maps, and
- Site reconnaissance by an MEC^X representative.

The hazardous, toxic, and radioactive waste (HTRW) assessment revealed recognized environmental conditions (RECs) in connection with three of the 14 sites (Table 4-33).

Table 4-33. Recognized environmental conditions (REC) at 5 of the 14 sites (MEC^X 2006).

Site	Possible REC	Potential future investigation or remediation
RM 16.9L	A remedial investigation is currently occurring for a leaking gasoline underground storage tank (UST) discovered at a site (Isleton General Store/Dunn) south of Site RM16.9L. Total petroleum hydrocarbons and volatile organic constituents have been detected in the Dunn site's monitoring wells and data from the investigation indicate that the contamination is migrating west, toward Site RM16.9L.	A subsurface investigation would be necessary to determine if the leaking UST has adversely affected Site RM 16.9L.
RM 47.0L	Historical aerial photographs indicate that the area designated for site parking has been used for material storage since at least 1971. At the time of the site reconnaissance, old creosote railroad ties and open, rusting drums containing railroad spikes were stored in this area. Depending on the nature of materials stored in this area and storage practices, soils under the parking area may be impacted with unknown contaminants, which may have migrated to the soils and sediments of Site RM 47.0L.	A subsurface investigation would be necessary to determine if past practices have adversely affected Site RM 47.0L.
RM 62.5R	One facility near Site RM 62.5R is currently undergoing a remedial investigation and two others have been the focus of remedial investigations in the past. The current remedial investigation is at the Petroleum Tank Line, located about 4,000 feet south-southeast of Site RM 62.5R. This site is impacted by diesel fuel and volatile organic constituent contamination. Groundwater flow data available indicate that the contamination could potentially move toward Site RM 62.5R. The other two sites, Home Depot and the Riverpoint Business Park, are also south of Site RM 62.5R. Soils at the Home Depot site are impacted by arsenic through the historical use of arsenic-containing pesticides. Soils at Riverpoint Business Park are impacted by lead from historical practices at a former battery recycling facility. While metals are not as mobile as organic constituents, these sites are close to Site RM 62.5R and the contamination has been present for many years. Therefore, the contamination associated with these sites, arsenic and lead, may affect Site RM 62.5R.	A subsurface investigation would be necessary to determine if Site RM 62.5R is adversely affected by diesel, volatile organic constituents, arsenic, or lead.

4.11.2 Environmental effects

Significance criteria were developed based on the State CEQA Guidelines as well as professional standards and practices. Effects were considered significant if the Project was:

- Creating a hazard to the public or the environment through the routine transport, use, or disposal of hazardous materials;
- Creating a hazard to the public or the environment through reasonably foreseeable upset and accident conditions involving the release of hazardous materials to the environment;
- Located on a site that is on a list of hazardous materials sites compiled pursuant to California Government Code 65962.5, and as a result would create a significant hazard to the public or the environment;
- Impairing implementation of or physically interfere with an adopted emergency response plan or emergency evacuation plan; and
- Exposing people to a significant risk of contracting a disease.

4.11.2.1 No action alternative

Under this alternative, no action would be taken to halt erosion and protect the levees at the 14 erosion sites. Assuming no levee failures, any hazardous, toxic, and radioactive materials and waste would remain in locations and at concentrations similar to those described under existing conditions. Should the no action alternative result in a levee failure, release of hazardous and toxic materials to the environment would be likely and largely uncontrolled. Any herbicides or pesticides applied to agricultural land would become entrained in the floodwaters. Floodwaters reaching more densely populated areas would likely entrain hydrocarbons and oils from flooded vehicles, and any other compounds (fertilizers, insecticides, household chemicals) used in household products.

4.11.2.2 Proposed Action alternative

The Proposed Action requires placing revetment rock and a soil and rock mixture, at the toes of the levees, on the riparian benches, and on the levees' upper slopes. The intent is to place additional material on top of existing material; earth movement necessary to create riparian benches will be limited to contouring newly placed soil-rock mixture material. The risks and impacts of exposing workers or nearby residents to contaminants in the form of dust is less than significant.

However, at the three Sites (RM 16.9L, 47.0L, and 62.5R) where recognized environmental conditions exist, the Proposed Action could increase the exposure of workers, residents, and wildlife to contaminants in surface water, if the contaminants migrate to the sites in groundwater, and if that contaminated groundwater is a source for the surface water in the riparian benches or wetlands. Such a scenario could create a significant effect because the hazard created is reasonably foreseeable and involves the release of hazardous materials to the environment. The effects could be mitigated to less than significant though, with monitoring and

remediation that is ongoing at the upgradient contaminant source sites, and with new monitoring at the five erosion sites.

4.11.3 Mitigation

Mitigation activities depend on the results of investigation, sampling, and monitoring at the five potentially contaminated sites. If sampling and monitoring indicate that contamination from the off-site sources has not affected the sites, then monitoring to ensure that those conditions continue would be appropriate. If sampling and monitoring indicate that off-site contamination has reached the sites, and at levels deemed to put human and environmental health at risk, then remedial action would be required. Remedial actions would likely focus on the off-site sources however, and once source areas are addressed, downgradient concentrations would likely decrease over time.

5 CUMULATIVE AND GROWTH-INDUCING EFFECTS

5.1 Cumulative Effects

This Project, if implemented, would likely affect Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, delta smelt, green sturgeon, and special-status plant and wildlife species potentially occurring at the Project sites. The Project would also affect EFH for Chinook salmon (all ESUs) and designated critical habitat for Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, and delta smelt. Cumulative effects on these species and their habitat would be attributed to incremental effects of the proposed Project, in conjunction with all land development activities in the Central Valley where these special-status species occur. Cumulative effects of the SRBPP were described in detail in the Final EIR/SEIS IV, prepared in 1987 for ongoing bank protection along the Sacramento River (Jones and Stokes Associates 1987). Prior Biological Opinions have found that cumulative ecosystem-level impacts can result from multiple bank protection actions within a given river reach (USFWS 2000). Since 1963, the SRBPP has implemented approximately 152 miles of revetment in the reach encompassing RM 0–194, representing approximately 39% of the total bank line length of 388 miles in this reach (USFWS 2000). This has played a significant role in the loss of nearshore and floodplain habitat in the lower Sacramento River (USFWS 2000).

The approximately 9,817 ft of planned total revetment at the proposed Project sites is an increase of approximately 6,183 ft from pre-Project conditions (USACE 2003), increasing the amount of revetment placed under the existing SRBPP authority by 0.30%. Existing revetment at Sites RM 16.9L, 19.4R, 33.0R, 33.3R, 48.2R, and 62.5R makes up 100% of the bank line length at each site. Existing revetment at Sites RM 44.7R, 47.0R, and 47.9R make up approximately 30% of the bank line length and less than 10% of the bank line length at Sites RM 19.0R, 22.7R, 43.7R, 68.9L, and 78.0L. Because no floodplain habitat exists at the Project sites, the long-term and cumulative effects of the Project on floodplain habitat are considered minimal. Furthermore, the proposed Project is designed to avoid contributing to the cumulative impacts discussed in past Biological Opinions (NMFS 2001, USFWS 2001), with SRA cover values, instream structure, and riparian habitat area likely to increase with the proposed on-site mitigation features (i.e., vegetated wetland benches, planted riparian benches, anchored IWM) and potential off-site mitigation (i.e., setback levees).

5.1.1 Vegetation and wildlife

Under existing conditions, the Project sites and existing habitat types (i.e., riparian forest, scrub/shrub and ruderal herbaceous) are similar to those within the lower Sacramento reach. Therefore, although there will be a temporary decrease in these habitat areas at the Project sites (Section 4.1.2.2), the spatial, cumulative effects to vegetation and wildlife along the entire reach are considered negligible. Conversely, however, there are predicted temporal, cumulative effects of the Project; the impact of temporary reduction of habitat types in these sites, added to impacts from past Projects, leads to a cumulative effect of temporary reduction in vegetation (ruderal, scrub/shrub, forest, and SRA values) and wildlife habitat. Future levee projects will add to and

increase these impacts, although in the long term, this habitat will be recovered and enhanced (Section 4.1.2.2).

An additional long-term cumulative impact is expected to occur when the planted riparian vegetation reaches maturity, which should occur in approximately 25 to 50 years. At this future time, the trees may senesce, providing an increase in IWM inputs but a decrease in riparian forest and riparian scrub/shrub habitat. As natural recruitment, by fluvial processes, may be limited at the sites due to the revetted nature of the banks, this could result in a permanent, increasing loss in valuable vegetation and wildlife habitats at the sites.

5.1.2 Fish

Section 4.2 identifies the effects of the Proposed Action on non-special-status fish. The proposed Project would halt erosion and reduce further natural recruitment of IWM from the existing riparian area on the bank. However, due to the pre-existing rock revetment composing 100% of the bank at Sites RM 16.9L, 19.4R, 33.0R, 33.3R, 48.2R, and 62.5R, changes relative to current conditions are expected to be minimal at these sites. At Sacramento River sites upstream and inclusive of Site RM 33.0R, the addition of anchored IWM would provide partial compensation for losses of existing IWM or reduced potential for future recruitment of IWM. At all sites riparian plantings would naturally recruit IWM and provide aquatic habitat. Because the Project would implement site-specific habitat and erosion measures that benefit fisheries and aquatic habitat in the long-term, and because effects on non-special-status fish would not be considered significant, the incremental effect of the Proposed Action is not cumulatively considerable and therefore less than significant.

5.1.3 Special-status species

Section 4.3 identifies the effects of the Proposed Action on special-status wildlife, fish, and plant species, and to designated critical habitat.

No cumulative effects are predicted on special-status plants or wildlife, because none have been documented on the Project site to date. If some special-status plants or wildlife are documented during the recommended pre-construction surveys, the incorporation of mitigation measures described in Section 4.3.4 would reduce impacts on these species to less than significant levels.

Cumulative effects of the Project on salmonids and delta smelt can be evaluated in terms of the net change in combined habitat value for each season and life stage modeled by the SAM. At sites downstream of RM 20 (Sites RM 16.9L 19.0R, and 19.4R) the initial winter and spring losses to all salmonid life stages would be recovered by Year 5, with long-term gains in habitat value for these sites collectively (Table 5-1). In summer and fall, Chinook salmon smolts at these sites would experience an immediate (Year 1) increase in habitat value and substantial long-term habitat gains. Steelhead smolts would experience summer and fall habitat gains at these downstream sites by Year 5. Modeled summer habitat for rearing juvenile salmon and steelhead recovers by Year 5, but net increases in fall rearing habitat would not occur until Year 50. Adult summer and fall habitat losses for Chinook salmonid and steelhead would not be

mitigated by the Project and would persist through the modeled 50-year period (Table 5-1). For winter-run and spring-run Chinook salmon, which primarily migrate upstream during winter and spring, the effects of these summer and fall habitat losses at these downstream sites would not be significant. For fall-run Chinook salmon, late fall-run Chinook salmon, and steelhead, however, summer and fall habitat losses could result in significant cumulative effects to upstream migrants and/or holding adults (steelhead only).

Table 5-1. Summary of combined SAM results for affected salmonids at sites from RM 0–20.

Focus fish species and assessment time period	Fall			Winter			Spring			Summer		
	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt Outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration
Central Valley fall-run Chinook salmon												
All sites combined in Year 1	-152	-26	2		-32	-143	-67		-142	-155		32
All sites combined in Year 5	-152	-4	120		19	72	4		97	-155		137
All sites combined in Year 50	-101	44	205		99	232	68		213	-105		214
Central Valley late fall-run Chinook salmon												
All sites combined in Year 1	-152		2	-43		-143	-67	-59	-142			32
All sites combined in Year 5	-152		120	21		72	4	16	97			137
All sites combined in Year 50	-101		205	68		232	68	105	213			214
Sacramento River winter-run and Central Valley spring-run Chinook salmon*												
All sites combined in Year 1	-152	-26	2	-43	-32	-143	-67	-59	-142	-155	-20	32
All sites combined in Year 5	-152	-4	120	21	19	72	4	16	97	-155	0	137

Focus fish species and assessment time period	Fall			Winter			Spring			Summer		
	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt Outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration
All sites combined in Year 50	-101	44	205	68	99	232	68	105	213	-105	46	214
Central Valley steelhead**												
All sites combined in Year 1	-275	-41	-34	-79	-48	-134	-107	-81	-148	-277	-30	-7
All sites combined in Year 5	-275	-6	61	52	31	36	36	26	39	-277	1	76
All sites combined in Year 50	-209	64	139	144	134	156	136	136	135	-214	67	148

Notes:

* No presence of Sacramento winter-run Chinook salmon for smolt outmigration life stage during summer.

** Response values of adult habitat life stage are equal to adult upstream migration response values.

1. Sites within RM 0–20 are Sites RM 16.9L, 19.0R, and 19.4R.
2. Results for each species and life stage are presented by site, season, and assessment period as calculated from time-averaged relative responses to changes in each of the six habitat variables used in the SAM (Appendix I).
3. Units are bank-line weighted relative response in ft (see Appendix I).
4. See Appendix I for complete results on both bank-line weighted (shown above) and wetted-area weighted basis.

Combined SAM model results for delta smelt at sites downstream of RM 20 indicate habitat losses for all modeled seasons and life stages in Year 1, with net gains in habitat by Year 5 and overall long-term habitat increases (Table 5-2). Therefore, no long-term cumulative effects are expected for delta smelt spawning, incubation, or rearing at these sites when considered collectively.

Table 5-2. Summary of combined SAM results for affected delta smelt at sites from RM 0–20.

Focus fish species and assessment time period	Winter		Spring		Summer	
	Spawning and incubation	Juvenile rearing	Spawning and incubation	Juvenile rearing	Spawning and incubation	Juvenile rearing
Delta smelt						
All sites combined in Year 1	-235	-235	-246	-246	-51	-51
All sites combined in Year 5	37	37	27	27	71	71
All sites combined in Year 50	99	99	88	88	99	99

Notes:

1. Sites within RM 0–20 are Sites RM 16.9L, 19.0R, and 19.4R.
2. Results for each species and life stage are presented by site, season, and assessment period as calculated from time-averaged relative responses to changes in each of the six habitat variables used in the SAM (Appendix I).
3. Units are bank-line weighted relative response in ft (see Appendix I).
4. See Appendix I for complete results on both bank-line weighted (shown above) and wetted-area weighted basis.

At sites located in the reach from RM 20–80 (Sites RM 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L), combined initial winter and spring habitat losses for all salmonid life stages would be recovered by Year 5, with substantial long-term gains in habitat value for these sites collectively (Table 5-3). In summer and fall, however, initial habitat losses for all salmonid life stages would not be mitigated by the Project and would persist through the 50-year modeled period. These combined habitat deficits indicate that the Project could result in significant cumulative effects in this reach for adult, juvenile and smolt life stages of Chinook salmon and steelhead during summer and fall. Because the combined length of these upstream sites (8,783 ft) is substantially greater than the length of the sites downstream of RM 20 (1,034 ft) these effects would not be offset by habitat gains at the downstream sites.

Despite the persisting summer and fall habitat deficits modeled by the SAM, the effects of these habitat losses at these upstream sites would not be cumulatively significant for upstream-migrating adult winter-run and spring-run Chinook salmon because the primary period of upstream migration does not occur during summer or fall. Similarly, the effect of combined summer and fall habitat losses on juvenile rearing habitat for fall-run, late fall-run and winter-run Chinook salmon, and on smolt outmigration habitat for steelhead and spring-run, fall-run, and late fall-run Chinook salmon, would likely be less than significant because the majority of the rearing period for these species and runs occurs in winter and/or spring. Project impacts to

salmonids in this reach are therefore likely to result in significant cumulative effects only during summer and fall for juvenile rearing Central Valley spring-run Chinook salmon, adult upstream migrating Central Valley fall-run Chinook salmon, adult upstream migrating Central Valley late fall-run Chinook salmon, outmigrating Sacramento River winter-run Chinook salmon smolts, and Central Valley steelhead juveniles and adults (upstream migrating and holding).

Table 5-3. Summary of combined SAM results for affected salmonids at sites from RM 20–80.

Focus fish species and assessment time period	Fall			Winter			Spring			Summer		
	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration
Central Valley fall-run Chinook salmon												
All sites combined in Year 1	-687	-182			-48	-540	-205		-540	-707		
All sites combined in Year 5	-687	-165			311	863	239		1015	-707		
All sites combined in Year 50	-321	-16			969	1969	683		1907	-348		
Central Valley late fall-run Chinook salmon												
All sites combined in Year 1	-687		-585	-101		-540	-205	-133				
All sites combined in Year 5	-687		-487	307		863	239	367				
All sites combined in Year 50	-321		-147	660		1969	683	1092				
Sacramento River winter-run and Central Valley spring-run Chinook salmon*												
All sites combined in Year 1	-687	-182	-585	-101	-48	-540	-205	-133	-540	-707	-192	-578
All sites combined in Year 5	-687	-165	-487	307	311	863	239	367	1015	-707	-173	-489

Focus fish species and assessment time period	Fall			Winter			Spring			Summer		
	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration	Adult upstream migration	Juvenile rearing	Smolt outmigration
All sites combined in Year 50	-321	-16	-147	660	969	1969	683	1092	1907	-348	-29	-171
Central Valley steelhead**												
All sites combined in Year 1	-1227	-325		-131	-99	-459	-252	-219	-524	-1253	-336	
All sites combined in Year 5	-1227	-297		695	440	643	646	482	684	-1253	-309	
All sites combined in Year 50	-726	-37		1352	1259	1491	1356	1365	1422	-767	-58	

Notes:

- * No presence of Sacramento winter-run Chinook salmon for smolt outmigration life stage during summer.
- ** Response values of adult habitat life stage are equal to adult upstream migration response values.
- 1. Sites within RM 20–80 are Sites RM 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L.
- 2. Results for each species and life stage are presented by site, season, and assessment period as calculated from time-averaged relative responses to changes in each of the six habitat variables used in the SAM (Appendix I).
- 3. Units are bank-line weighted relative response in ft (see Appendix I).
- 4. See Appendix I for complete results on both bank-line weighted (shown above) and wetted-area weighted basis.

At sites between RM 20 and RM 80, combined SAM model results for delta smelt indicate that initial habitat losses in all seasons for all modeled life stages recover by Year 5 in winter and spring but persist through Year 50 in summer (Table 5-4). Although some spawning, incubation and rearing may occur during summer, the majority of the activity periods for these life history stages occur in winter and spring. Also, the actual effect of these losses on delta smelt is unlikely to be substantial because delta smelt do not typically occur upstream of RM 20 (Moyle 2002). Furthermore, collective habitat gains for these life stages in the primary winter and spring spawning, incubation and rearing periods would offset the modeled summer losses in this reach. Therefore, no long-term cumulative effects are expected for delta smelt spawning, incubation, or rearing at these sites when considered collectively.

Table 5-4. Summary of combined SAM results for affected delta smelt at sites from RM 20–80.

Focus fish species and assessment time period	Winter		Spring		Summer	
	Spawning and incubation	Juvenile rearing	Spawning and incubation	Juvenile rearing	Spawning and incubation	Juvenile rearing
Delta smelt						
All sites combined in Year 1	-599	-599	-643	-643	-898	-898
All sites combined in Year 5	1192	1192	1166	1166	-800	-800
All sites combined in Year 50	1595	1595	1573	1573	-778	-778

Notes:

1. Sites within RM 20–80 are Sites RM 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L.
2. Results for each species and life stage are presented by site, season, and assessment period as calculated from time-averaged relative responses to changes in each of the six habitat variables used in the SAM (Appendix I).
3. Units are bank-line weighted relative response in ft (see Appendix I).
4. See Appendix I for complete results on both bank-line weighted (shown above) and wetted-area weighted basis.

In summary, the modeled values for sites downstream of RM 20 indicate that the proposed Project would be self-mitigating for salmonid juveniles and smolts in this reach by Year 5 for most seasons, and by Year 50 for all seasons. Long-term cumulative effects on these life stages would therefore be considered less than significant. Long-term cumulative effects on adults, however, could be significant for fall-run Chinook salmon, late fall-run Chinook salmon, and steelhead, whose primary migration period occurs during summer or fall. No long-term cumulative effects are expected on the delta smelt life stages present at these sites.

At sites located in the reach from RM 20–80, Project impacts to salmonids are therefore likely to result in significant cumulative effects only during summer and fall for juvenile rearing Central Valley spring-run Chinook salmon, adult upstream migrating Central Valley fall-run Chinook salmon, adult upstream migrating Central Valley late fall-run Chinook salmon, outmigrating Sacramento River winter-run Chinook salmon smolts, and Central Valley steelhead juveniles and adults (outmigrating and rearing). No significant cumulative effects are expected for delta smelt in this upstream reach.

Long-term effects of the proposed Project on habitat for green sturgeon and Sacramento splittail were not modeled by the SAM. However, cumulative effects on these species are expected to be similar to those described above for salmonids. Addition of IWM at Sacramento River sites upstream and inclusive of Site RM 33.0R is expected to increase rearing and foraging

habitat for larval and juvenile green sturgeon during winter and spring, thereby providing some long-term benefits for these life stages. Long-term increases in nearshore cover, provided by planted aquatic vegetation on constructed wetland benches, would maintain or enhance rearing habitat for juvenile Sacramento splittail at Sites RM 16.9L, 43.7R, 19.0R, 19.4R, and 22.7R. Long-term reductions in summer and fall habitat for young green sturgeon and Sacramento splittail would likely occur at sites where increases in riparian shade are not sufficient to compensate for the loss of instream structure (i.e., Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L). Reductions in summer and fall habitat are not expected to have adverse effects on adult green sturgeon or Sacramento splittail. Adult green sturgeon use deep, mid-channel habitat during migration and therefore are not likely to be affected by nearshore construction activities. Adult Sacramento splittail are not expected to be present at the Project sites during summer or fall. Potential cumulative effects on green sturgeon and Sacramento splittail would therefore be limited to the effects of summer and fall habitat loss for larval and juvenile life stages, combined with effects of similar habitat losses at other SRBPP bank repair sites in the lower Sacramento River.

Effects on other special-status species by other flood control projects are expected to be less than significant since they would be regulated under Section 7 or 10 of the Federal Endangered Species Act or by the California Department of Fish and Game. These agencies would work with project proponents to compensate for their actions to a level that would reduce their effects on special-status species to less than significant.

5.1.4 Water quality (basin plan)

Section 4.4 identifies the construction-related water quality effects of the Proposed Action, including the potential for increased turbidity due to soil and sediment disturbance. Related effects may also occur as a result of other local projects including the lower American River levee improvements and future Sacramento River Bank Protection Projects. Such effects could result from all land development activities within the local watershed area.

Minimizing construction-related water quality effects is required by the Clean Water Act. The program for implementing Clean Water Act requirements is managed locally by the Central Valley RWQCB, and projects are required to comply with the statewide permit for general construction activity. This typically involves the implementation of site-specific stormwater pollution prevention practices to avoid and minimize the release of stormwater to off-site receiving waters. Such best management practices are proposed as mitigation for soil and sediment disturbance under the Proposed Action. Because the Project would implement site-specific mitigation consistent with the RWQCB program, the incremental effect of the Proposed Action is not cumulatively considerable and therefore less than significant.

5.1.5 Air quality

As described in Section 4.6, the Proposed Action would result in construction-related effects on air quality. Construction of levee improvements, dam raise, and bridge construction would have similar air quality effects because of the substantial amount of earthmoving activity involved. All such projects would generate criteria pollutants such as NO_x, ROG, PM₁₀, and CO.

In fact, all construction activity within the air basin would contribute to current air quality violations in the same ways as the Proposed Action. Because of the air basin's nonattainment status, additional contributions are potentially significant, cumulative effects.

Mitigation for the Proposed Action consists of best management practices and the implementation of off-site mitigation including dust control, requiring the contractor to properly tune and maintain construction equipment, payment of \$804,410.00 for exceedence of 56.3 tons during the construction of the Project for reductions of NO_x from mobile source construction equipment, and the purchase of additional air quality credits, if necessary. Because thresholds are exceeded and mitigated by the offset of other mobile source and stationary source emitters, the project's incremental contribution to the significant cumulative effect is not cumulatively considerable and therefore less than significant.

5.1.6 Noise

As described in Section 4.6 the Project would not have a significant effect on noise and therefore would not contribute to any cumulative effect on noise.

5.1.7 Traffic

As described in Section 4.7, the Project would not have a significant effect on traffic and therefore would not contribute to any cumulative effect on traffic. A traffic management plan would be implemented as described in Section 4.7.4. Because the project-specific effects are less than significant, cumulative effects would be less than significant as well.

5.1.8 Recreation and navigation safety

As described in Section 4.8, project-specific effects would not have a significant effect on recreation and navigation. No other projects have been identified that would contribute to reduction in recreation opportunities on the Sacramento and American Rivers. The loss of recreational opportunities along the erosion sites would be temporary. Boats and anglers would be diverted up- or downriver, outside the Project boundary and away from the revetment during construction. Because the project-specific effects are less than significant, cumulative effects would be less than significant as well.

5.1.9 Aesthetics/visual resources

As described in Section 4.9, the Project would no have a significant effect on aesthetics or visual resources, and therefore would not contribute to any cumulative effect on visual resources and aesthetics.

5.1.10 Cultural resources

Project-specific effects on cultural resources are described in Section 4.10. No other projects have been identified that would contribute to a reduction or destruction of cultural resources. Because the project-specific effects are less than significant, cumulative effects would be less than significant as well.

5.1.11 Other local projects

5.1.11.1 Fremont Weir Sediment Removal Project

As part of the Sacramento River Flood Control Project, the Department of Water Resources will remove sediment around Fremont Weir in the Yolo Bypass. Flood flows during the past several flood seasons have deposited sediment near Fremont Weir at the northern end of the Yolo Bypass, near the town of Woodland. These sediment deposits reduce the flow capacity of the weir and the efficiency of the flood control system by blocking water from entering the Bypass and forcing flows to remain in the Sacramento River. Approximately 800,000 cubic yards of sediment need to be removed from in front of and downstream of the weir. The sediment will be moved to a spoil site on privately owned agricultural land, east of the Bypass. This project has been completed.

5.1.11.2 Tisdale Weir Sediment Removal Project

The Tisdale Weir has similar sediment deposition problems to the Fremont Weir. Sediment deposits at Tisdale Weir reduce its flow capacity, resulting in higher flows in the Sacramento River during the flood season. Calculations of the volume of sediment that needs to be removed from the vicinity of the weir are not currently available, but the amount is expected to be greater than at the Fremont Weir. This project is expected to occur between July and November of 2007.

5.1.11.3 American River Common Features-Pocket Geotech Project

This project entails repairs to two sections (Reaches 2 and 9) of the levee in the Pocket area, to correct through-seepage and under-seepage, and to receive Federal Emergency Management Agency certification for the levee system. Reach 2 extends from RM 52.1 to RM 52.4, and Reach 9 extends from RM 45.5 to RM 45.7. This project will be conducted in partnership between the Corps, the Reclamation Board, and the Sacramento Area Flood Control Agency under the American River Common Features Project. Construction began in July 2006 and is nearing completion, which is expected by mid December 2006.

The levee repairs will require the construction of cutoff walls to alleviate the seepage problems. The two alternatives being considered for construction are a bentonite slurry wall or deep soil mixing. Due to the depth of the proposed cutoff wall in Reach 2 (110 ft), deep soil mixing is the only method capable of reaching that depth. The through-seepage in Reach 9, however, will only require a cutoff wall to a depth of 40 ft. Both deep soil mixing and the slurry wall technique are being evaluated for accomplishing this repair. This project will be conducted during the erosion site repair but will not interfere with any construction activities related to the erosion sites.

5.1.11.4 Folsom Dam Mini Raise

Through the construction of the Folsom Dam Mini Raise plan, the Corps would strengthen the dam and reduce the annual probability of flooding in Sacramento from 1 in 90 to 1 in 230 when implementing other authorized components of the American River Watershed

Project. The plan also includes environmental restoration features for wildlife habitat along the lower American River Parkway. In addition, temperature control shutters at Folsom Dam would be mechanized to improve the regulation of water temperature to increase native salmon and steelhead populations.

5.1.11.5 Lower American River Common Features Project

The Corps, Sacramento Area Flood Control Agency, and the Reclamation Board are implementing ongoing programs for levee stability in the lower American River and elsewhere in the Sacramento area. The lower American River levee projects are being implemented pursuant to the Water Resources Development Act of 1996 and its authorizations and other programs. Substantial levee improvement work is currently underway.

5.1.11.6 Sacramento River Bank Protection Project

The Sacramento River Bank Protection Project was authorized to protect the existing levees and flood control facilities of the Sacramento River Flood Control Project. The SRBPP is a long-range program of bank protection authorized by the Flood Control Act of 1960. The SRBPP directs the Corps to provide bank protection along the Sacramento River and its tributaries, including that portion of the lower American River bordered by Federal flood control Project levees. Beginning in 1996, erosion control projects at five sites covering almost 2 miles of the south and north banks of the lower American River have been implemented. Additional sites at RM 149L and 56.7L on the Sacramento River totaling one half mile have been constructed since 2001.

In addition, five erosion sites at RM 26.9L, 34.5R, 72.2R, 99.3R, and 123.5L (USACE 2006b) and sixteen other critical erosion sites (CDWR 2006) totaling approximately 3.5 miles are being repaired during the summer and fall of 2006. The SRBPP is an ongoing project, and additional sites requiring bank protection will continue to be identified and repaired indefinitely until the remaining authority of approximately 30,000 linear ft is exhausted.

At the time that this document was written, the Sacramento District had received over 40 requests for assistance under the Public Law (PL) 84-99 program for levee damages that occurred during the New Year 2006 flood events. Local Reclamation Districts, the State of California, and the Corps will repair eligible sites as necessary under local, state, and federal programs. Numerous additional flood control projects will likely be planned in the near future as a result of Proposition 1E (the State of California Disaster Preparedness and Flood Prevention Bond Act of 2006) that was passed by voters in November 2006, providing the state with \$4.09 billion in funds, \$3 billion of which are to be used to evaluate and repair existing levees and reduce the risk of levee failure in the Central Valley and Sacramento-San Joaquin River delta region.

5.2 Growth-Inducing Effects

In general, the Project would not directly remove obstacles to growth, result in population increases, or encourage and facilitate other activities that could significantly affect the environment. New development must be consistent with existing City and County general plan policies and zoning ordinances regarding land use, open space, conservation, flood protection, and public health and safety. In addition, all development would need to comply with applicable environmental laws and regulations and would require approval by local authorities.

5.3 Determination of the Effects of the Proposed Action on Listed Species and Critical Habitat

Based on information presented in this EA, the Proposed Action to repair 14 critical erosion sites will not adversely affect any listed plant species, giant garter snake, or valley elderberry longhorn beetles. The Proposed Action is considered likely to adversely affect but not jeopardize or appreciably reduce the likelihood of either the survival or the recovery of the delta smelt or green sturgeon, or the following listed salmonid ESUs:

- Central Valley spring-run Chinook salmon (threatened)
- Central Valley steelhead (threatened)
- Sacramento winter-run Chinook salmon (endangered)

Based on an evaluation of the effects of the Proposed Action to repair 14 critical erosion sites, the Corps believes the Proposed Action may affect but is not likely to destroy or adversely modify designated critical habitat necessary for the survival or recovery of the delta smelt, Central Valley spring-run Chinook salmon, Central Valley steelhead, and Sacramento winter-run Chinook salmon. Determination of the effects of the Proposed Action on listed valley elderberry longhorn beetle, delta smelt, green sturgeon and salmonid ESUs is provided in Section 5.3.1. Determination of effects of the Proposed Action on designated critical habitat is provided in Section 5.3.2.

5.3.1 Listed species

Standards for determining jeopardy are set forth in Section 7(a)(2) of the ESA. Jeopardy is defined (USFWS 1986) as “engage[ing] in an action that reasonably would be expected, directly or indirectly, to appreciably reduce the likelihood of both survival and recovery of a listed species in the wild by reducing the reproduction, numbers, or distribution of that species.” The Proposed Action alternative to repair 14 critical erosion sites will not jeopardize the continued existence or recovery of any listed species in the Project area.

With the included mitigation measures, the Proposed Action alternative at the Project sites is likely to affect, but not likely to adversely affect, the following listed species: Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, delta smelt, green sturgeon, and valley elderberry longhorn beetle. Incidental take of Sacramento River winter-run Chinook salmon, Central Valley steelhead, Central Valley spring-run Chinook salmon, delta smelt, and valley elderberry longhorn beetle may occur through the impairment of essential behavior patterns (e.g., feeding, escape from

predators), or as a result of reductions in the quantity and quality of habitat. In addition, individuals of listed species may be killed, injured, or harassed during construction activities. Incidental take during construction activities is most likely to occur during in-water construction activities, especially if these activities extend into the fall and winter months.

5.3.1.1 Listed terrestrial species

No special-status wildlife species has currently been documented to occur at any of the Project sites. However, surveys were conducted in November 2006, outside of the comprehensive wildlife survey window. A comprehensive wildlife survey to identify wildlife in the Project area is recommended in Spring 2007 when amphibians and reptiles are more active and avian species (e.g., Swainson's hawk) are present in the Central Valley. Surveys conducted between March and July 2007 should be appropriate for determining the presence/absence of these species (Table 4-2). If any of these species or any other special-status wildlife species are confirmed during these surveys, then effects would be subsequently analyzed and mitigation measures designed. Cumulative effects are expected to be negligible.

The Proposed Action alternative has the potential to directly and indirectly affect the valley elderberry longhorn beetle by affecting 89 blue elderberry shrubs (totaling 144 stems ≥ 1 inch basal diameter) located directly within the construction footprint or within a 100-foot buffer of the construction footprint at Sites RM 44.7R, 47.0L, 47.9R, and 48.2R (Table 4-17). At Site RM 44.7R, 87 shrubs were identified, of which 72 are within 100 ft of the Project footprint, although none were inside of the footprint itself. At Site RM 47.0L, eight shrubs were identified, all of which are within 100 ft of the Project footprint, although none were inside of the footprint itself. At Site RM 47.9R, three shrubs were identified, all of which are located within the Project footprint. At Site RM 48.2R, six shrubs were identified, one of which had a potential exit hole. Four of the six shrubs are located inside of the Project footprint and the other two are within 100 ft of the Project footprint.

For the 82 shrubs (totaling 131 stems ≥ 1 inch basal diameter) located outside of the Project footprint, but within 100 ft of the footprint, impacts would be minimized through fencing and avoidance within 20 feet of shrubs whenever possible. In cases where work occurs within 20 feet of shrubs, a qualified biologist would be on site and the contractor would be instructed to avoid impacts to shrubs as much as possible. Any impacts to shrubs would be mitigated according to the USFWS guidelines (USFWS 1999a) summarized in Section 4.3.4.1.

For the seven shrubs at Sites RM 47.9R and 48.2R located directly within the Project footprint (totaling 13 stems ≥ 1 inch basal diameter), all efforts to avoid damage to the shrubs will be made, per the measures discussed above. Although the shrubs are located at the upper elevation of the Project footprints, these seven shrubs may need to be removed to facilitate the placement of bank protection materials or may be accidentally damaged during construction. As such, the Corps is requesting that the USFWS authorize take for these shrubs (covering up to 25 stems ≥ 1 inch basal diameter), with transplantation to occur at a site approved by the USFWS. All transplantation procedures will follow the USFWS conservation guidelines (USFWS 1999a) described in detail in Section 4.3.4.1. All efforts will be made to transplant these shrubs during the standard work window (September 1–February 15), which coincides with blue elderberry

shrub dormancy and is outside of the flight period for valley elderberry longhorn beetle (K. Turner, USFWS, Sacramento, California, pers. comm., 2006). This timing coincides with Phase 1 of the construction work, which includes in-water work only. If this schedule is not feasible, the Corps proposes to transplant the shrubs as part of Phase 2 work, between June 16 and August 31, and proposes to mitigate at 2.5 times the standard ratio required by the USFWS (1999a). This proposal has been discussed with the USFWS (K. Turner, USFWS, Sacramento, California, pers. comm., 2006). Proposed mitigation for removal and transplantation of these seven shrubs is summarized in Table 4-19.

The Proposed Action will not affect listed giant garter snake as habitat does not occur at any of the Project sites (pers. comm. Kim Turner, Fish and Wildlife Biologist, U.S. Fish & Wildlife Service, November 3, 2006).

5.3.1.2 Listed fish species

Project effects on listed fish species include alteration of the designated critical habitat of Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, and delta smelt. Construction effects at all Project sites may include localized and temporary disturbance, displacement, or impairment of feeding, migration, or other essential behaviors by adult and juvenile salmon, steelhead, and green sturgeon from noise, suspended sediment, turbidity, and sediment deposition generated during in-water construction activities. These effects could also occur in areas downstream of the Project sites, as noise and sediment may be propagated downstream. Similar effects are possible for spawning and rearing delta smelt. Accidental discharge of toxic substances during construction may cause physiological impairment or mortality of listed fish and other aquatic species at or immediately downstream of the Project sites. The potential also exists for injury or mortality of juvenile salmonids, green sturgeon, and delta smelt if individuals are unable to readily move away from channel or nearshore areas directly affected by in-water Phase 1 construction activities from November 13, 2006 to June 1, 2007. For juveniles of those species that are able to readily move away from areas directly affected by in-water construction activities, the potential exists for indirect effects associated with increased potential for mortality due to predation in deeper habitats away from shore.

Long-term effects of the Project on the habitat of listed fish species include alteration of river hydraulics, instream and overhead cover, and substrate conditions along the seasonal low- and high-flow shorelines of the Project sites. Implementation of the Project would result in temporary losses of riparian vegetation and instream cover along the summer-fall and winter-spring shorelines. Existing riparian vegetation provides equivalent overhead SRA cover (Fris and DeHaven 1993) of approximately 25% of the low-flow fall shoreline (Table 4-5).

Initial cover losses due to Project construction would be partially offset over time by the riparian plantings along the lower slopes and soil-covered benches. The establishment and growth of riparian vegetation on the riparian benches at all sites, and on emergent aquatic vegetation on the wetland benches at Sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R, is expected to increase habitat values by increasing the extent of instream and overhead cover available to juvenile salmonids. Along with the installation of anchored wood on the riparian

benches, these features will increase the availability of high quality shallow water habitat for juvenile Chinook salmon and steelhead, spawning and incubating delta smelt, and possibly juvenile green sturgeon during the annual high-flow period (late fall, winter, and spring).

Assuming initial reductions in existing shade values (Section 4.1.2.2), Project construction would eventually provide some added nearshore and overhead habitat value for adult salmon and steelhead, but the increase in overhead cover is not sufficient to fully compensate for the loss of summer and fall habitat for adults at any of the sites (Appendix I). However, IWM would also be placed at sites on the Sacramento River above RM 30 to ensure that there is functioning IWM along 80% of the sites' lengths to provide bank protection and aquatic habitat. IWM above 40% at each site would be credited to: (1) sites below RM 30, (2) any compensation deficits remaining on-site at the proposed projects, (3) any compensation deficits for SRBPP projects constructed since 2001, and (4) any off-site compensation required to be constructed in the future. A comprehensive analysis of cumulative effects to the baseline of the species affected would be completed in Fall 2007 to determine the need for additional compensation or any offsets that are allowed for future SRBPP projects. In addition, use of these shallow water habitats at these sites during the summer and fall by listed upstream-migrating adult salmon is not likely; the majority of adult Central Valley spring-run Chinook salmon, Central Valley steelhead, and Sacramento River winter-run Chinook salmon would likely be using the channel and areas adjacent to these sites during winter and spring.

For salmonid juveniles and smolts, the placement of IWM and the creation of planted wetland and riparian benches provide habitat enhancements sufficient to fully mitigate initial winter and spring habitat losses. Based on the SAM modeling, during summer and fall, these Project design features do not compensate for losses of juvenile rearing and smolt outmigration habitat at Sites RM 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L without off-site mitigation. However, if additional anchored IWM could be placed at sites above RM 30 at the summer/fall WSEL in a manner safe for water recreation, habitat conditions could be improved for these species and life stages significantly over what was modeled using SAM. The SAM modeled 40% bank line coverage of IWM placed on the winter/spring riparian benches. Long-term reductions in summer habitat for young green sturgeon would likely be similar to those described for salmonids, primarily occurring at sites where increases in riparian shade are not sufficient to compensate for the loss of instream structure (i.e., Sacramento River Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L).

Based on SAM modeling (Table 5-3, Appendix I), at sites located in the reach from RM 20–80, Project impacts to salmonids are therefore likely to result in long term adverse effects only during summer and fall for juvenile rearing Central Valley spring-run Chinook salmon, adult upstream migrating Central Valley fall-run Chinook salmon, adult upstream migrating Central Valley late fall-run Chinook salmon, outmigrating Sacramento River winter-run Chinook salmon smolts, and Central Valley steelhead juveniles and adults (upstream migrating and holding). No long term adverse effects are expected for delta smelt in this upstream reach.

Creation of emergent wetland benches at five downstream sites would further increase the amount of shallow-water habitat by adding off-channel areas suitable for spawning, incubation, and rearing of delta smelt. USFWS representatives requested that no anchored

instream woody material would be included in Project designs downstream of RM 30, including Sites RM 16.9L, 19.0R, 19.4R, and 22.7R. Because this decision constrained the ability for these sites to be constructed in a self-mitigating design for various salmonid life stages, an agreement was reached at a design review meeting (November 16, 2006) to allow excess anchored wood placed at sites upstream of RM 30 (including Sites RM 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R) to be used as an off-site mitigation for the delta sites.

SAM results indicate loss of summer spawning, incubation, and rearing habitat values at Sites RM 33.0R, 33.3 R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L due to removal of instream and overhead cover during construction; these losses would not be offset by the planned installation of IWM or the growth of planted riparian vegetation. However, combined SAM model results for delta smelt at sites between RM 20 and RM 80 indicate that initial habitat losses in all seasons for all modeled life stages recover by Year 5 in winter and spring, but persist through Year 50 in summer (Table 5-4). Although some spawning, incubation, and rearing may occur during summer, the majority of the activity periods for these life history stages occur in winter and spring, and the actual effect of these losses on delta smelt is unlikely to be substantial because delta smelt do not typically occur upstream of RM 20 (Moyle 2002). Furthermore, collective habitat gains for these life stages in the primary winter and spring spawning, incubation and rearing periods would offset the modeled summer losses in this reach. Therefore, no long-term adverse effects are expected for delta smelt spawning, incubation, or rearing at these sites.

In consideration of the above information, the Proposed Action alternative is not likely to jeopardize the continued existence or recovery of these species as long as the applicable conservation measures are performed. This conclusion is based on the Corps' commitments to: (1) minimize temporary habitat losses by incorporating on-site mitigation features (e.g., riparian benches and plantings; constructed wetland benches at Sites RM 19.0R, 19.4R, 22.7R, 16.9L, and 43.7R; and anchored IWM at sites above RM 30, i.e., at Sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L); and (2) offset permanent, incremental adverse effects of rock revetment on fluvial processes and associated habitat values by implementing proven conservation measures (e.g., setback levees, removal of rock revetment) at an off-site mitigation area. Concurrently implementing these conservation measures would adequately avoid, minimize, and mitigate adverse effects on the Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, delta smelt, and green sturgeon, and would adequately minimize or mitigate adverse effects on designated critical habitat of the winter-run Chinook salmon, spring-run Chinook salmon, steelhead, and delta smelt. Effects on EFH for Chinook salmon would be similarly minimized or mitigated.

5.3.2 Critical habitat

Standards for determining adverse modification or destruction of critical habitat are set forth in Section 7(a)(2) of the ESA. Destruction or adverse modification is defined (USFWS 1986) as "a direct or indirect alteration that appreciably diminishes the value of critical habitat for both the survival and recovery of a listed species." The Corps believes that the Proposed Action alternative will not destroy or adversely modify habitat designated as critical to any listed

fish species in the Project area. The 14 Project sites do not fall within the two areas designated as critical habitat for the valley elderberry longhorn beetle.

5.3.2.1 Sacramento River winter-run Chinook salmon

Potential short- and long-term Project effects are described below for each life stage and its habitat, including effects on designated critical habitat and Essential Fish Habitat (EFH).

Spawning habitat

The Project sites do not support spawning habitat for winter-run Chinook salmon. Therefore, no short- or long-term effects on spawning habitat would occur. Downstream effects on spawning habitat would not occur for winter-run Chinook salmon or any listed salmonids because spawning habitat for these species is not present downstream of the action area.

Adult migration habitat

Adult winter-run Chinook salmon migrate up the Sacramento River from December through July and use the river channel at the Project sites as a migration pathway to upstream spawning habitat. Construction activities may affect winter-run adults because Phase 1 construction activities would occur during the primary migration period; however, construction activities would be restricted to the channel edge, and would include implementation of the avoidance and minimization measures described in Section 4.3.4.4. Long-term changes in nearshore habitat are expected to have negligible effects on adults because adult Chinook salmon generally use deep, mid-channel habitat during migration.

Juvenile rearing and migration habitat

Rearing and emigrating juveniles and smolts may occur at the Project sites during the fall, winter, and spring. Downstream movement of substantial numbers of juvenile winter-run Chinook salmon appears to be triggered by storm events and the resulting high flow and turbidity, with the peak outmigration period for winter-run Chinook salmon typically occurring in September–October. Restricting in-water activities to November–May and implementing the avoidance and minimization measures described above would not avoid potential construction-related impacts on juveniles and smolts.

Project activities may result in short-term adverse effects to juvenile and smolt winter-run Chinook salmon, their critical habitat, and EFH for this and other Chinook salmon ESUs. Construction activities that increase noise, turbidity, and suspended sediment may disrupt feeding or temporarily displace fish from preferred habitat and may make them more susceptible to predation. Rearing or outmigrating salmon may not be able to readily move away from nearshore areas directly affected by construction activities such as removal or placement of IWM and placement of rock revetment, resulting in stress, injury, or mortality. Take of juvenile or smolt winter-run Chinook salmon could therefore occur via mortality or injury during a construction activity, or by the impairment of essential behaviors such as feeding or escape from predators. Substantial increases in suspended sediment could temporarily bury substrates that support benthic macroinvertebrates, an important food source for juvenile salmonids. However, due to the limited duration and spatial extent of Project activities, effects on salmonid feeding are expected to be minimal. In addition, spills or leakage of gasoline, lubricants, or other petroleum

products from construction equipment or storage containers could result in physiological impairment or mortality to rearing or outmigrating salmon in the vicinity of the Project sites. With implementation of best management practices, the potential for impacts due to spills would be minimal.

The Project is expected to provide long-term increases in the quantity and quality of critical habitat and EFH for juvenile winter-run Chinook salmon at nine of the 14 Project sites. At Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L, where removal of the existing riparian vegetation during construction reduces habitat value for juveniles and smolts in summer and fall, the Project would have long-term adverse effects on salmonid habitat. The riparian bench and planting at all sites; wetland benches at Sites RM 19.0R, 19.4R, 22.7R, 16.9L, and 43.7R; the retention of IWM at all Project sites; and placement of IWM above RM 30 are designed to benefit juvenile Chinook salmon by increasing the availability (habitat area), accessibility (frequency of inundation), and quality (shallow water and in stream cover) of nearshore aquatic habitat and SRA cover relative to current conditions. This design is also expected to benefit other native fish species that use nearshore zones and floodplains for spawning and early rearing in the winter and spring (e.g., delta smelt).

The SAM results indicate that the Project would result in a long-term increase in habitat values in all seasons for winter-run Chinook salmon and other salmonids at most sites, excepting Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L (Appendix I). All sites would exhibit short-term reductions in instream cover and shade associated with the removal of vegetation and IWM. At sites above RM 30, these reductions would be offset by an immediate increase in the availability of shallow-water habitat and instream cover (placement of functioning IWM along 80% of the sites' lengths) following construction. Long-term increases in Chinook salmon response indices primarily reflect the positive responses of rearing juveniles and outmigrating smolts to increases in the availability of flooded vegetation on the constructed benches, as well as long-term increases in shade provided by existing and planted riparian vegetation.

At all sites, immediate reductions in area-weighted response indices occur in Year 0 for juvenile rearing in spring, summer, and fall, and for smolt outmigration in spring and fall (Appendix I). The initial deficits reflect the reduction in nearshore habitat value due to removal of riparian vegetation during construction. However, considered in the context of the Project as a whole, this loss in habitat value for juveniles and smolts would be offset by the immediate and long-term gains in habitat value for these life stages at the other nine Project Sites (RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 47.0L, and 68.9L). After Year 1, juvenile and smolt response indices at exhibit a positive trend and recover to pre-Project values by approximately Year 25 due primarily to increases in vegetation and shade provided by existing and planted riparian vegetation.

Water quality

Water quality effects to the Project area would occur only during the construction period, described in Section 4.4. Potential water quality effects on winter-run Chinook salmon are discussed above under *Juvenile rearing and migration habitat*.

5.3.2.2 Central Valley spring-run Chinook salmon

Potential short- and long-term Project effects are described below for each life stage and its habitat, including effects on designated critical habitat and EFH.

Spawning habitat

The Project sites do not support spawning habitat for spring-run Chinook salmon. Therefore, no short- or long-term effects on spawning habitat would occur.

Adult migration habitat

Adult spring-run Chinook salmon migrate up the Sacramento River from March through September and use the river channel at the Project sites as a migration pathway to upstream spawning habitat. The potential for short- and long-term Project effects would be similar to that described for winter-run Chinook salmon.

Juvenile rearing and migration habitat

Like winter-run Chinook salmon, spring-run Chinook salmon typically spend up to one year rearing in fresh water before migrating to sea. Although the timing of outmigration differs somewhat between the two runs, largely due to the staggered outmigration timing of spring-run Chinook young-of-year and yearlings, rearing juvenile spring-run Chinook salmon are expected to occur at all Project sites during the Project period. The potential for short- and long-term Project effects on spring-run juveniles and smolts and their critical habitat would be similar to that described for winter-run Chinook salmon.

The SAM results described above for winter-run Chinook salmon also apply to spring-run Chinook salmon.

Water quality

Water quality effects to the action area would occur only during the construction period, described in Section 4.4. Potential water quality effects on spring-run Chinook salmon are discussed above under *Juvenile rearing and migration habitat*.

5.3.2.3 Central Valley steelhead

Potential short- and long-term Project effects are described below for the relevant life stages and their habitat, including effects on designated critical habitat.

Spawning habitat

The Project sites do not support spawning habitat for Central Valley steelhead. Therefore, no short- or long-term effects on spawning habitat would occur.

Adult migration habitat

Adult steelhead in the Sacramento River migrate upstream during most months of the year, beginning in July, peaking in September, and continuing through February or March. Adults use the river channel at the Project sites as a migration pathway to upstream spawning habitat, and may also use deep pools with instream cover as resting and holding habitat. The

potential for short- and long-term Project effects on migrating adult steelhead would be similar to that described for adult winter-run Chinook salmon.

Juvenile rearing and migration habitat

Central Valley steelhead rear year-round in the cool upstream reaches of the mainstem Sacramento River and its major tributaries. Juveniles and smolts are most likely to occur at the Project sites during their downstream migration to the ocean, which may begin as early as December and peaks from January to May. The importance of main channel and floodplain habitats in the lower Sacramento River to rearing steelhead is not well understood. Steelhead smolts have been found in the Yolo Bypass during the period of winter and spring inundation (Sommer 2002, pers. comm.), but the importance of this and other floodplain areas in the lower Sacramento River and upper delta is not yet clear. For purposes of this analysis, rearing juvenile steelhead are assumed to use nearshore and off-channel habitat at the Project sites. The potential for short- and long-term Project effects on steelhead juveniles and smolts and their habitat would therefore be similar to that described for winter-run Chinook salmon.

The SAM results for Central Valley steelhead (Appendix I) are similar to those for winter-run Chinook salmon, with some seasonal differences for the adult habitat and smolt outmigration life stages among the Project sites. The differences in species response indices between steelhead and Chinook salmon reflect slight differences in life history timing and differences in the species' response relationships for individual habitat variables (USACE 2004). The SAM results for steelhead differ from the winter-run Chinook salmon results primarily with respect to adult habitat, due to the potential for adult steelhead to use mainstem pool habitat for resting and holding during their upstream migration. At all Project sites the response indices for steelhead adult habitat are negative beginning in Year 0 in most seasons, due primarily to reduction in nearshore habitat value due to removal of riparian vegetation during construction.

After Year 5, juvenile and smolt response indices at all sites exhibit a positive trend and recover at nine Sites (RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 47.0L, and 68.9L) to pre-Project habitat values by approximately Year 25, due primarily to increases in vegetation and shade provided by existing and planted riparian vegetation. Long-term habitat deficits estimated using the SAM at Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L are not fully compensated on-site during the 50-year Project planning period, due to the slow recovery of initial site losses in riparian shade and loss of summer/fall IWM. However, considered in the context of the Project as a whole, this loss in habitat value at Sites RM 44.7R, 47.9R, 48.2R, 62.5R, and 78.0L for juveniles and smolts would be offset by the immediate and long-term gains in habitat value for these life stages at the other nine Project Sites (RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 47.0L, and 68.9L). In addition, if additional anchored IWM could be placed at sites above RM 30 at the summer/fall WSEL in a manner safe for water recreation, habitat conditions could be improved for these species and life stages significantly over what was modeled using SAM; the SAM modeled 40% bank line coverage of IWM placed on the winter/spring riparian benches.

Water quality

Water quality effects to the action area would occur only during the construction period, described in Section 4.4. Potential water quality effects on steelhead are discussed above under *Juvenile rearing and migration habitat*.

5.3.2.4 Delta smelt

Delta smelt may be present at Project Sites RM 16.9L, 19.0R, 19.4R, 22.7R, RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2 R throughout their life cycle. They are typically restricted to the delta and the lower Sacramento River downstream of RM 20, but have been documented upstream to the City of Sacramento (RM 60) (Moyle 2002). Although it is unlikely that delta smelt would be present at sites upstream of RM 60, analysis of the effects at Sites RM 62.5R, 68.9L, and 78.0L is included for the purpose of this evaluation. Potential spawning habitat includes shallow channel edge waters in the delta and lower Sacramento River (Moyle 2002). As a result, there are potential short- and long-term Project effects which include potential disruption of spawning activities, disturbance or mortality of eggs and newly hatched larvae, and alteration of spawning and incubation habitat. Potential short- and long-term Project effects are described below for each life stage of delta smelt and its habitat, including effects on designated critical habitat.

Potential short-term adverse effects to critical habitat may occur at all sites below RM 60. Disturbance or displacement may be caused by construction activities which increase noise, turbidity, and suspended sediment. Delta smelt may not be able to readily move away from channel or nearshore areas directly affected by construction activities (i.e., removal or placement of IWM, placement of rock revetment). Removal of riparian vegetation and IWM from the streambank may result in the loss of overhead and instream cover. Incidental take of delta smelt may occur directly from being killed or injured during a construction activity, or occur indirectly by the impairment of essential behavior patterns (i.e., feeding, escape from predators). In addition, physiological impairment may be caused by toxic substances (i.e., gasoline, lubricants, oil) entering the water.

Adult delta smelt migrate upstream between December and January and spawn between January and July, with a peak in spawning activity between April and mid-May (Moyle 2002). Phase 1 in-water construction activities will occur from November 13, 2006 to June 1, 2007. Short-term construction-related impacts on delta smelt spawning and incubation activities may therefore occur during Phase 1 construction. Larvae may be disrupted as they migrate downstream to rear in the delta.

Long-term Project effects on critical habitat at Sites RM 16.9L, 19.0R, 19.4R, 22.7R and 43.7R indicate habitat losses for all modeled seasons and life stages in Year 1, with net gains in habitat by Year 5 and overall long-term habitat increases (Appendix I). Therefore, no long-term adverse effects are expected for delta smelt spawning, incubation, or rearing at these sites. SAM model results for delta smelt at Sites RM 33.0R, 33.3R, 44.7R, 47.0R, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L indicate that initial habitat losses in all seasons for all modeled life stages recover by Year 5 in winter and spring, but persist through Year 50 in summer (Appendix I). Although some spawning, incubation, and rearing may occur during summer, the majority of the

activity periods for these life history stages occurs in winter and spring. Also, the actual effect of these losses on delta smelt is unlikely to be substantial because delta smelt do not typically occur upstream of RM 20 (Moyle 2002). Furthermore, collective habitat gains for these life stages in the primary winter and spring spawning, incubation and rearing periods would offset the modeled summer losses.

Long-term Project effects on delta smelt at Sites RM 16.9L, 19.0R, 19.4R, 22.7R and 43.7R are expected to be beneficial. Project features, including riparian and wetland benches at Sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R are anticipated to increase habitat complexity at the summer/fall and winter/spring water surface elevations, improving conditions for delta smelt spawning. Anchored IWM at sites above RM 30 (Sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L), riparian benches and riparian plantings in the Project design are anticipated to increase habitat complexity at the winter/spring water surface elevations.

The SAM (USACE 2004) was used to model long-term responses of delta smelt spawning, incubation and juvenile rearing life stages to various habitat parameters by season (Appendix I). At the lowermost sites below RM 30, construction of wetland benches is anticipated to increase habitat for delta smelt. However, other than Site RM 43.7, all other sites will experience a loss of habitat values as described above. Although the proposed Project would result in summer losses of shade and complex shoreline habitat at nearly all sites upstream and inclusive of Site RM 33.0, the actual effect of these losses on delta smelt is unlikely to be substantial because delta smelt do not typically occur upstream of RM 20 (Moyle 2002). Considered in the context of all Project sites where delta smelt may occur, Project effects are not expected to be significant due to the typical restricted downstream distribution of delta smelt. Furthermore, SAM results indicate that the losses in habitat value at Sites RM 33.0R, 33.3R, 44.7R, 47R, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L would be offset by the immediate and long-term gains in habitat value at Sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R.

Water quality

Water quality effects to the action area would occur only during the construction period, described in Section 4.4. Potential water quality effects on delta smelt are discussed above under *Juvenile rearing and migration habitat*.

5.3.3 Essential fish habitat

The Magnuson-Stevens Fishery Conservation and Management Act of 1996 governs the conservation and management of ocean fisheries. The purpose of this act is to take immediate action to conserve and manage the fishery resource off the U.S. coasts and U.S. anadromous species, and to promote the protection of EFH.

EFH is the aquatic habitat (water and substrate) necessary for fish to spawn, breed, feed, or grow to maturity (NMFS 1998) that will allow a level of production needed to support a long-term, sustainable commercial fishery and contribute to a healthy ecosystem. EFH is described for groundfish, coastal pelagic, and Pacific salmon fisheries (67 FR 2343, January 17, 2002).

Important components of EFH for Chinook salmon spawning, rearing, and migration include suitable:

- substrate composition;
- water quality;
- water quantity, depth, and velocity;
- channel gradient and stability;
- food;
- cover and habitat complexity;
- space;
- access and passage; and
- habitat connectivity.

Consultation with NMFS is required for all projects with the potential to affect EFH for any species covered under the Magnuson-Stevens Fishery Conservation and Management Act.

5.3.3.1 Description of the Proposed Action

See detailed description in Section 2.

5.3.3.2 Effects of the Proposed Action on essential fish habitat

The Project action area includes habitats that have been designated as EFH for Chinook salmon, a major contributor to Pacific Coast salmon fisheries. The Pacific Coast salmon fishery EFH extends along the Pacific Coast from Washington to Point Conception in California. Freshwater EFH includes all habitat currently and historically accessible to salmon and is based on descriptions of habitat used by coho and Chinook salmon. The EFH excludes areas above naturally occurring barriers such as waterfalls, which have been present for several hundred years, and impassible dams identified on large rivers (67 FR 2343, January 17, 2002).

Effects of the Project on EFH are incorporated into the analysis for the listed and candidate species (Section 4.3.3.2). A separate analysis to address potential effects on EFH was unnecessary.

The Corps has determined that this Project will adversely affect EFH for Chinook salmon at the Project sites and downstream, and require a consultation under the Magnuson-Stevens Fishery Conservation and Management Act. Consultation was initiated in May 2006.

5.3.3.3 Proposed conservation measures

See detailed description in Section 4.3.4.4.

6 COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS

6.1 Federal Requirements

Endangered Species Act (16 U.S.C. 1531 et seq.). An updated list (October 27, 2006) of threatened and endangered species that may be in the Project area was obtained from the USFWS on November 10, 2006 (Appendix A). The Corps concluded that the Proposed Action is not likely to adversely affect the valley elderberry longhorn beetle, delta smelt, green sturgeon, Central Valley steelhead, Central Valley fall/late-fall run Chinook salmon, or the winter-run Chinook salmon. Formal consultation was initiated with NMFS and USFWS on October 31, 2006. It is anticipated that biological opinions will be issued on, or prior to, December 22, 2006 (K. Turner, USFWS, Sacramento, California, pers. comm., 2006).

Clean Water Act (33 U.S.C. 1251 et seq. (1976 & SUPP II 1978)). The Proposed Action alternative requires placing materials (rock revetment) in the waters of the United States. Temporary re-suspension of sediments in the nearby area is likely. A Section 401 water quality certification addressing these activities is included in Appendix D and the 404(b)(1) evaluation for the Project is included as Appendix E. The CVRWQCB is allowing the Corps to start work on these sites as soon as necessary under an “after-the-fact” water quality certification (pers. comm. to Mike Dietl on December 13, 2006 from Robert Solecki, Environmental Scientist, California Regional Water Quality Control Board Central Valley Region Stormwater and Water Quality Certification Unit). While the CVRWQCB is preparing the water quality certification for the 14 critical repair sites, the Corps and its contractors must adhere to the conditions of their existing 401 water quality certification for the Sacramento River Bank Protection Project Five Critical Erosion Sites, River Miles: 26.9 Left, 34.5 Right, 72.2 Right, 99.3 Right, and 123.5 Left (WDID # 5A34CR00293) Yolo, Sacramento, and Sutter Counties, that was issued on June 6, 2006. Most of the conditions in the new water quality certification being prepared by the CVRWQCB for the 14 critical sites are similar to the June 6, 2006 certification but some conditions may be modified. Any new modifications will be provided when the water quality certification for the Project is issued.

Clean Air Act (42 U.S.C. 1857 et seq.), as amended and recodified (U.S.C. 7401 et seq. (SUPP II 1978)). The Corps has completed an analysis of air quality effects of the project. The Proposed Action would potentially exceed local air quality standards; however, the Project would not exceed the Federal *de minimus* criteria. A payment of \$358,240 to the SMAQMD; \$416,290 to the YSAQMD; and \$29,880 to FRAQMD would be made to offset future emissions. Air quality emissions data are included in Appendix F.

Magnuson-Stevens Fishery Conservation and Management Act. Chinook salmon species that may be affected by this Project are covered under a fishery management plan. The Corps has determined that this Project will adversely affect Essential Fish Habitat and require a consultation under the Magnuson-Stevens Fishery Conservation and Management Act. This EA also serves as the Corps’ Essential Fish Habitat Assessment for Chinook Salmon.

Fish and Wildlife Coordination Act (16 U.S.C. 661 et seq.). A final Fish and Wildlife Coordination Act Report dated December 22, 2006 will be received by the Corps along with the biological opinion from the USFWS.

National Environmental Policy Act (42 U.S.C. 4321 et seq.). The draft EA and the draft FONSI issued on December 1, 2006 serve as public notification of the proposed project. The final EA and the final FONSI complete the environmental documentation required by this Act and will be issued on December 18, 2006 following the closure of the public comment period on December 15, 2006.

National Historic Preservation Act of 1966, as amended (16 U.S.C. 470 et seq.), Historic and Archeological Resources Protection Act (16 U.S.C. 470AA et seq.), Protection of Historic Properties (36 CFR 800). The Project is not currently in compliance with Section 106 of the National Historic Preservation Act (36 CFR 800). The Corps would ensure that compliance is complete before implementation of the project. A letter dated November 29, 2006, has been sent to the SHPO asking for its concurrence with the Corps' determinations of the APE and eligibility, and the Corps' finding of effect. Letters to potentially interested Native Americans were sent on November 23, 2006, asking for their knowledge of locations of archeological sites, or areas of traditional cultural interest or concern.

All 14 levee repair locations and staging areas were closely inspected for cultural resources by a Corps archeologist between October 6 and 13, 2006. The Mississippi River Mat at RM 43.7R was clearly evident by numerous pilings paralleling the shore. Other than the river levees, the Mississippi River Mat is the only prehistoric or historic resources present within the project's APE. The probability of any effects on archeological sites is considered to be very unlikely because the Project is confined to restoring levees. The possibility exists that potentially significant unidentified cultural remains could be encountered during Project construction. If buried or otherwise obscured cultural resources are encountered during construction, activities in the area of the find would be halted, and a qualified archeologist would be consulted immediately to evaluate the find. Should any potentially significant cultural resources be discovered, compliance with 36 CFR 800.13(b), "Discoveries without prior planning," would be implemented. Data recovery or other mitigation measures might be necessary to mitigate adverse effects on significant properties.

Wild and Scenic Rivers Act (16 U.S.C. 1271 et seq.). The purpose of the Wild and Scenic Rivers Act is to preserve and protect wild and scenic rivers and immediate environments for the benefit of present and future generations. The lower Sacramento River has not been designated as a component of either the Federal or State Wild and Scenic Rivers systems.

The Proposed Action would neither adversely affect the resources for which the river was designated nor adversely affect the river's free-flowing status. All construction activities would be confined to the lower Sacramento River.

Executive Order 11988, Flood Plain Management. This executive order requires the Corps to provide leadership and take action to: (1) avoid development in the base (100-year) flood plain; (2) reduce the hazards and risk associated with floods; (3) minimize the effect of

floods on human safety, health, and welfare; and (4) restore and preserve the natural and beneficial values of the base flood plain. The Proposed Action is in compliance with this executive order.

Executive Order 11990, Protection of Wetlands. This order directs the Corps to provide leadership and take action to minimize the destruction, loss, or degradation of wetlands, and to preserve and enhance the natural and beneficial values of wetlands in implementing civil works. The Proposed Action is in compliance with this executive order. The Proposed Action would not result in the loss or degradation of any wetlands.

Executive Order 12898, Environmental Justice. Environmental justice refers to "non-discrimination in Federal programs substantially affecting human health and the environment" and "providing minority communities and low-income communities access to public information on, and an opportunity for public participation in, matters relating to human health or the environment." In particular, it involves preventing minority and low-income communities from being subjected to disproportionately high and adverse environmental effects of Federal actions.

The Proposed Action is in compliance with this Executive Order. Project construction is confined to the east bank and levee along the Sacramento River and would not affect any minority or low-income communities.

Farmland Protection Policy Act (7 U.S.C. 4201 et seq.). This act requires a Federal agency to consider the effects of its actions and programs on the Nation's farmlands. The Proposed Action would not result in the loss of any farmland.

6.2 State of California

California Environmental Quality Act. A Notice of Exemption was filed on November 27, 2006 (State Reclamation Board 2006) following the declared state of emergency for California's levee system by the California Department of Water Resources, following public review of the Draft EA, and it provides full compliance under CEQA. The Reclamation Board and CDWR may elect to use other environmental documentation, and to exercise its emergency authorities to complete construction of these sites.

State Water Resources Control Board, Division of Water Quality, and California Regional Water Quality Control Board, Central Valley Region. An application for the 401 certification was sent to the CVRWQCB on December 1, 2006.

State Water Resources Control Board, Division of Water Rights. The Proposed Action consists mainly of constructing streambank protection and temporary facilities to construct those modifications as described above in Section 2. No water rights approvals would be required.

California Department of Fish and Game, Region 2. The CDFG requires a Streambed Alteration Permit for any activity that will change the natural state of any lake, river, or stream in

California. However, since the Proposed Action is a Federal project, obtaining a Streambed Alteration Agreement is not necessary.

State Mining and Geology Board. The Surface Mining and Reclamation Act requires that an entity seeking to conduct a surface-mining operation obtain a permit from, and submit a reclamation plan to, the Surface Mining and Reclamation Act lead agency overseeing that operation. The Proposed Action does not involve any activities that are classified as surface mining. Rock will be imported from a commercial quarry site. Soil and fill will be purchased from a commercial distributor or other permitted source. Should soil and fill be obtained from another source, the construction contractor, Corps, or Reclamation Board would obtain the necessary environmental clearances.

State Lands Commission. The State Lands Commission has exclusive jurisdiction over all ungranted tidelands and submerged lands owned by the State and the beds of navigable rivers, sloughs, and lakes. A Project cannot use these State lands unless a lease is first obtained from the State Lands Commission. The SRBPP has a Master Lease PRC 7203.9 approved by the Commission on May 16, 1988 for bank protection work. Each new bank protection Project, such as those proposed for the lower Sacramento River, requires an amendment to this lease. Approval to amend the existing master lease for proposed work was granted by the Commission at the December 14, 2006 State Lands Commission meeting.

California Public Utilities Code, Sections 21001 et seq. The purpose of this code Section is to protect the public interest in aeronautics by fostering and promoting safety, establishing regulations and coordination among governing bodies, and developing programs to increase understanding of air transportation issues. This section requires notification of the Department of Transportation for proposed development within two miles of an airport.

6.3 Local Plans, Policies, and Permits

Sacramento Metropolitan Air Quality Management District. Air quality analysis based on coordination with the Sacramento Air Quality Management District shows that Project emissions would exceed daily thresholds for NO_x. The Corps' contractor will submit a fee payment of \$358,240 to the SMAQMD to offset future NO_x emissions. Air quality emissions data are included in Appendix F. However, since the Project is located in a non-attainment area, best management practices for ozone and particulate matter would be implemented to help protect ambient air quality conditions. Accordingly, the Project is in compliance with the local air district standards after mitigation and fees are paid.

Yolo-Solano Air Quality Management District. Air quality analysis based on coordination with the Sacramento Air Quality Management District shows that Project emissions would exceed daily thresholds for NO_x. Air quality emissions data are included in Appendix F. However, since the Project is located in a non-attainment area, best management practices for ozone and particulate matter would be implemented to help protect ambient air quality conditions. As requested by YSAQMD, in addition to provision of a NO_x control plan to the SMAQMD, the required mitigation fees of \$416,290 to offset future NO_x emissions will be provided to the SMAQMD by the Corps' contractor for subsequent reimbursement to the

YSAQMD. Accordingly, the Project is in compliance with the local air district standards after mitigation and fees are paid.

Feather River Air Quality Management District. Air quality analysis based on coordination with the Sacramento Air Quality Management District shows that Project emissions would exceed daily thresholds for NO_x. The Corps' contractor will submit a fee payment of \$29,880 to the FRAQMD to offset future NO_x emissions. Air quality emissions data are included in Appendix F. However, since the Project is located in a non-attainment area, best management practices for ozone and particulate matter would be implemented to help protect ambient air quality conditions. As requested by FRAQMD, a copy of the NO_x control plan required by SMAQMD shall be submitted to the FRAQMD for review prior to commencement of the proposed project. Accordingly, the Project is in compliance with the local air district standards after mitigation and fees are paid.

7 COORDINATION AND REVIEW OF THE DRAFT EA

The Draft EA was circulated for 15 days to agencies, organizations, and individuals known to have a special interest in the Proposed Action. Comments received were incorporated into this Final EA, as appropriate (Appendix J). This Project is being coordinated with all relevant government agencies and organizations including the USFWS; NMFS; SHPO; California Department of Fish and Game; Reclamation Board; Sacramento Area Flood Control Agency; and Sacramento, Yolo, and Sutter counties.

8 FINDINGS

The Corps has reviewed and evaluated the information in this Environmental Assessment (EA); the final Programmatic Environmental Impact Report/Supplemental Environmental Impact Statement (EIS) IV for the Sacramento River Bank Protection Project; other documents; and the views of other agencies, organizations, and individuals concerning the proposed bank protection work on 14 erosion sites along the Sacramento River between Isleton and northeast of Woodland. The Corps has determined that the proposed bank protection work would result in no significant effects on the environment, and that the mitigation measures agreed to in the EA are sufficient to substantially reduce potentially significant effects. Therefore, the preparation of a supplemental EIS is not necessary.

As a result of the imminent threat of catastrophic levee failure, Governor Arnold Schwarzenegger declared a state of emergency for California's levee system on February 24, 2006 (Schwarzenegger 2006). The emergency repairs specified for this Project are necessary: (1) to maintain the levee system that is essential to protecting public health, safety, and welfare, and (2) to prevent an emergency from a catastrophic levee failure. On September 12, 2006, Mike Inamine, Chief of Levee Repairs for the Department of Water Resources, issued a statement declaring how the application of the Governor's Executive Order S-01-06 on critical erosion repairs would apply to new critical erosion sites identified in July and August 2006, which include the 14 sites described in this EA. Therefore, a Notice of Exemption was completed on November 27, 2006 (State Reclamation Board 2006) for each of the 14 sites, as emergency projects under CEQA Sections 21080(b)(4) and 15269(b)(c).

9 LIST OF PREPARERS

Byron Amerson
Fish Biologist/Geomorphologist
Stillwater Sciences

Sayaka Araki
GIS Specialist
Stillwater Sciences

Sebastian Araya
GIS Specialist
Stillwater Sciences

Daniel Bell
Archeologist
US Army Corps of Engineers

Deborah Condon
Staff Environmental Scientist
State Department of Water Resources

Michael Dietl
Fisheries Biologist
US Army Corps of Engineers

Lauren Dusek
Fisheries and Wildlife Biologist
Stillwater Sciences

Maia Fleming-Singer
Aquatic Ecologist/Water Quality Specialist
Stillwater Sciences

Maya Hayden
Biologist
Stillwater Sciences

Noah Hume
Applied Aquatic Ecologist/Engineer
Stillwater Sciences

Nicole Jurjavcic
Botanist
Stillwater Sciences

A.J. Keith
Aquatic Ecologist
Stillwater Sciences

Emily King
Ecologist
Stillwater Sciences

Sharon Kramer
Principal/Senior Fisheries Biologist
Stillwater Sciences

Steve Kramer
Fisheries Biologist
Stillwater Sciences

Glen Leverich
Scientist
Stillwater Sciences

Patti Meeks, PhD
Environmental Chemist
MEC^x, LLC

Bruce Orr
Principal/Senior Ecologist
Stillwater Sciences

Angela Percival
Fisheries and Wildlife Biologist
Stillwater Sciences

Nancy Stevens
Technical Editor
Stillwater Sciences

Darren Trawick
Wildlife Biologist
Stillwater Sciences

Don Twiss
Hydraulic Engineer
US Army Corps of Engineers

Sheri Woo
Engineer/Technical Writer/Editor
Stillwater Sciences

David Zajanc
Statistical Analyst
Stillwater Sciences

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Figures

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- Figure 3. Construction easement and Project footprint at Site RM 16.9L. Ayres Associates, Sacramento, CA, 22 November 2006.
- Figure 4. Conceptual cross section of Site RM19.0R. Ayres Associates, Sacramento, CA, 8 November 2006.
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- Figure 18. Conceptual cross section of Site RM 47.0L. Ayres Associates, Sacramento, CA, 8 November 2006.
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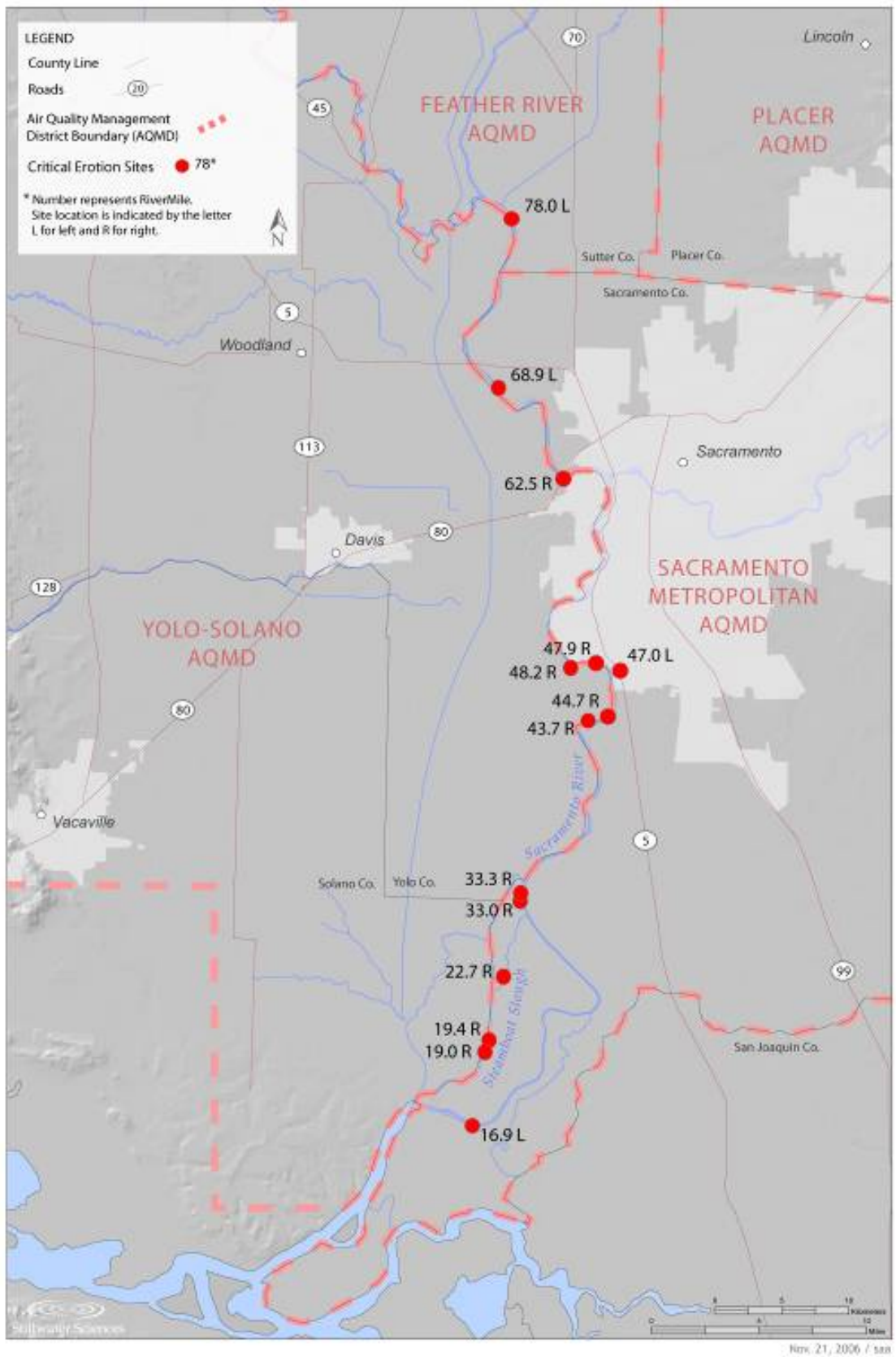


Figure 1. Project location map.

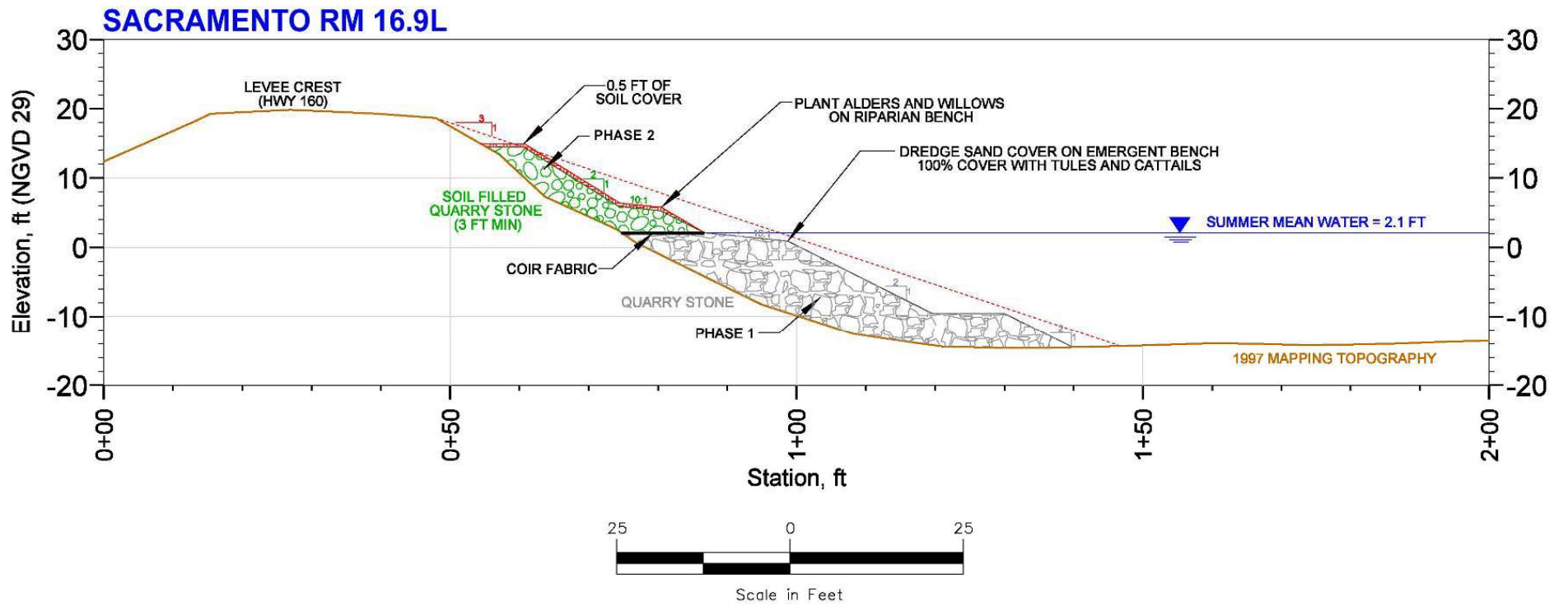


Figure 2. Conceptual cross section of Site RM 16.9L. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 16.9L CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1821718.63	6671686.23
P2	1821658.11	6672064.08
P3	1821280.01	6672041.07
P4	1821337.88	6671634.74



Rev	Description	Date

Designed by:	Checked by:	Date:	Rev:
Drawn by:	Design File No:	11/03/06	
Reviewed by:	Spec No:		
Submitted by:	File Name:	P1_16.9L.dwg	
Thomas S. Smith	Plot Date:	11/03/06	
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EROSION CONTROL SITES

SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING. RM 16.9 L

Plate
number:
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Figure 3. Construction easement and Project footprint at Site RM 16.9L. Ayres Associates, Sacramento, CA, 22 November 2006.

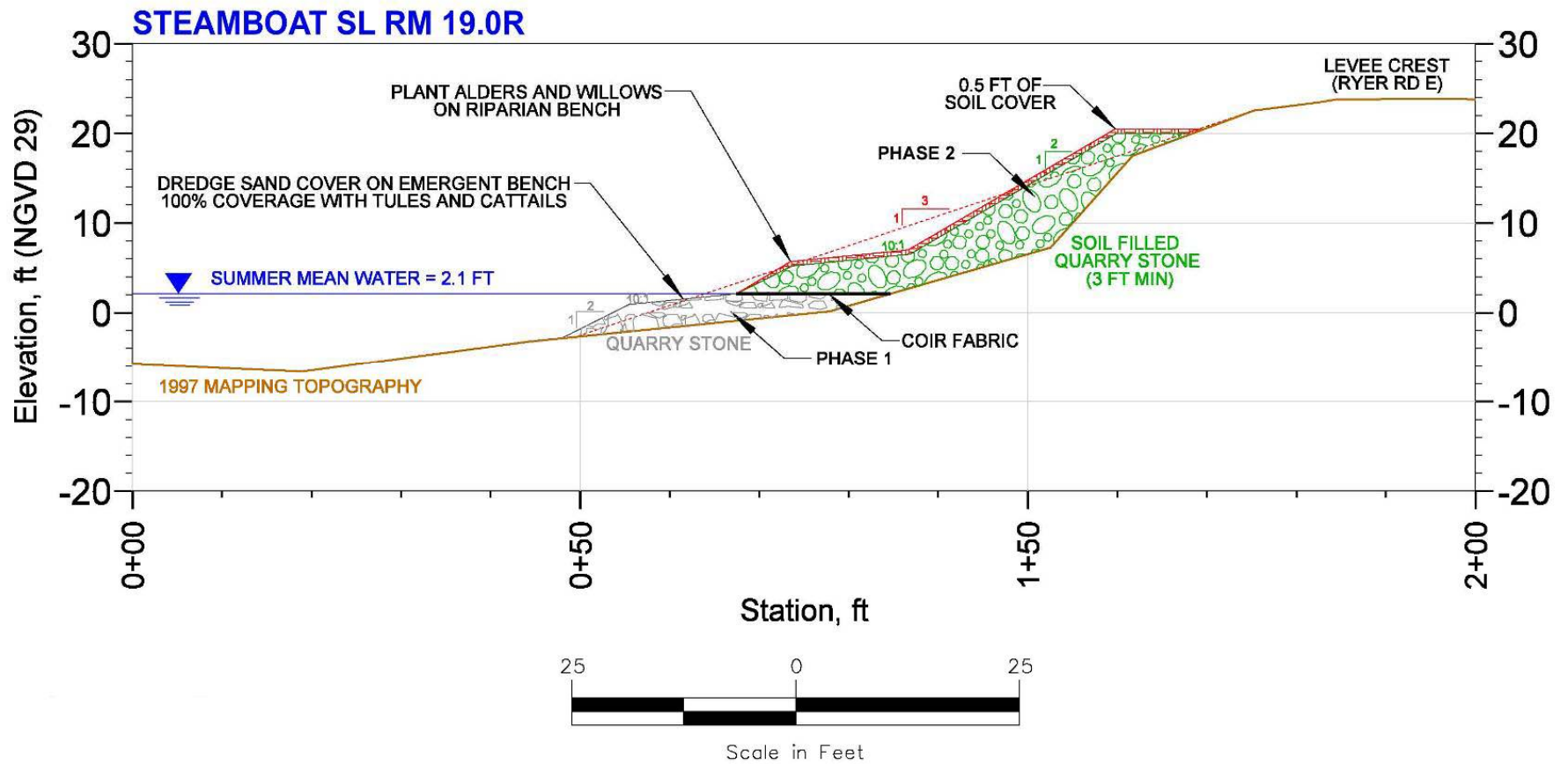


Figure 4. Conceptual cross section of Site RM 19.0R. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 19.0 R CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1841087.12	6674827.85
P2	1840906.63	6675044.94
P3	1840334.40	6674561.26
P4	1840509.42	6674341.63
P5	1840807.17	6674554.01



Figure 5. Construction easement and Project footprint at Site RM 19.0R. Ayres Associates, Sacramento, CA, 22 November 2006.



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EROSION CONTROL SITES

SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING, RM 19.0 R

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2

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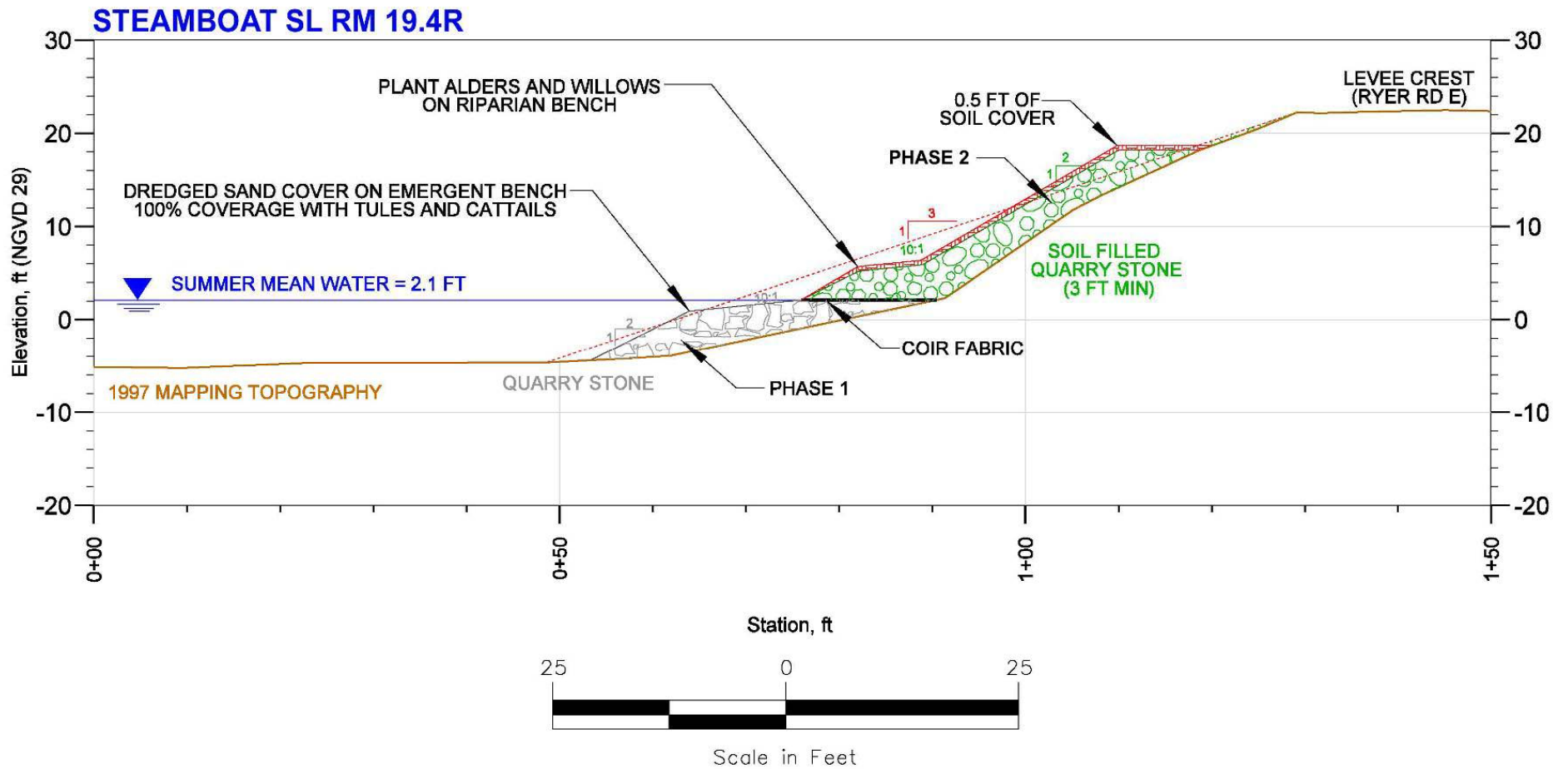


Figure 6. Conceptual cross section of Site RM 19.4R. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 19.4 R CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1842475.48	8675554.93
P2	1842360.74	8675815.65
P3	1841928.01	8675826.53
P4	1842043.99	8675368.89



Symbol	Description	Date Approved

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EROSION CONTROL SITES

SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING. RM 19.4 R

Plate number:
3
Sheet 3 of 13

Figure 7. Construction easement and Project footprint at Site RM 19.4R. Ayres Associates, Sacramento, CA, 22 November 2006.

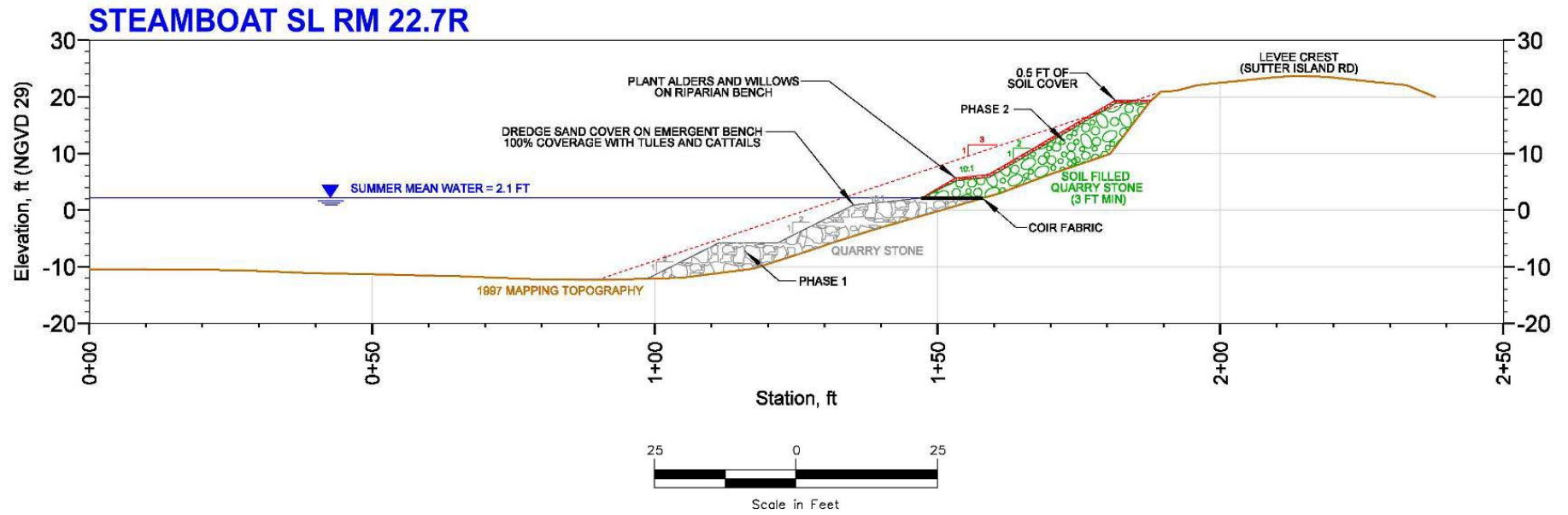


Figure 8. Conceptual cross section of Site RM 22.7R. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 22.7 R CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1857718.34	6678470.82
P2	1857771.15	6678668.17
P3	1857773.46	6678907.28
P4	1857478.00	6678910.23
P5	1857455.02	6678527.78



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Reviewed by:		File name:	RM_22.7_499
Submitted by:		Plot date:	11/03/06
		Plot size:	11x17

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EROSION CONTROL SITES

SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING. RM 22.7 R

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number:
4

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Figure 9. Construction easement and Project footprint at Site RM 22.7R. Ayres Associates, Sacramento, CA, 22 November 2006.

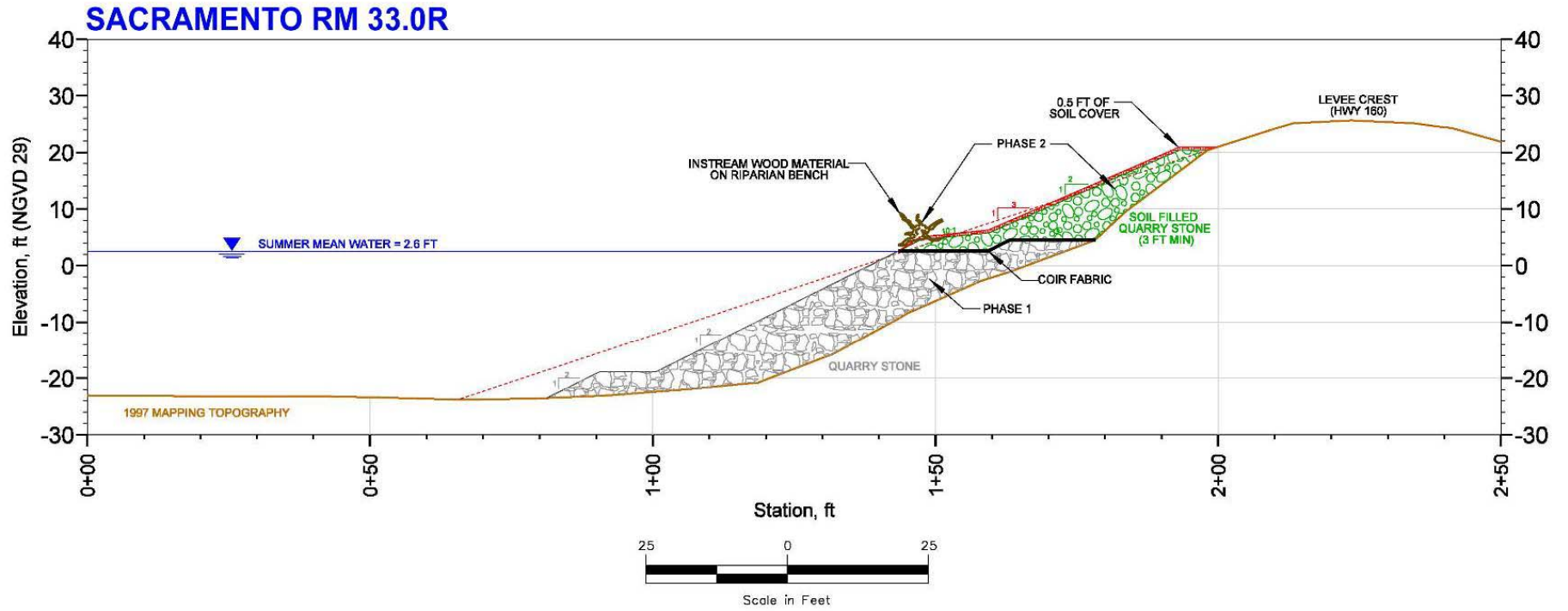


Figure 10. Conceptual cross section of Site RM 33.0R. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 33.0R CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1876508.00	6682481.20
P2	1876548.90	6682723.32
P3	1876026.34	6682815.60
P4	1875985.45	6682583.30



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 SACRAMENTO RIVER EMERGENCY EROSION CONTROL SITES
 SITE MAP SHOWING SITE LIMITS, ACCESS, STAGING, AND PARKING. RM 33.0R

Plate number:
 5
 Sheet 5 of 13

Figure 11. Construction easement and Project footprint at Site RM 33.0R. Ayres Associates, Sacramento, CA, 22 November 2006.

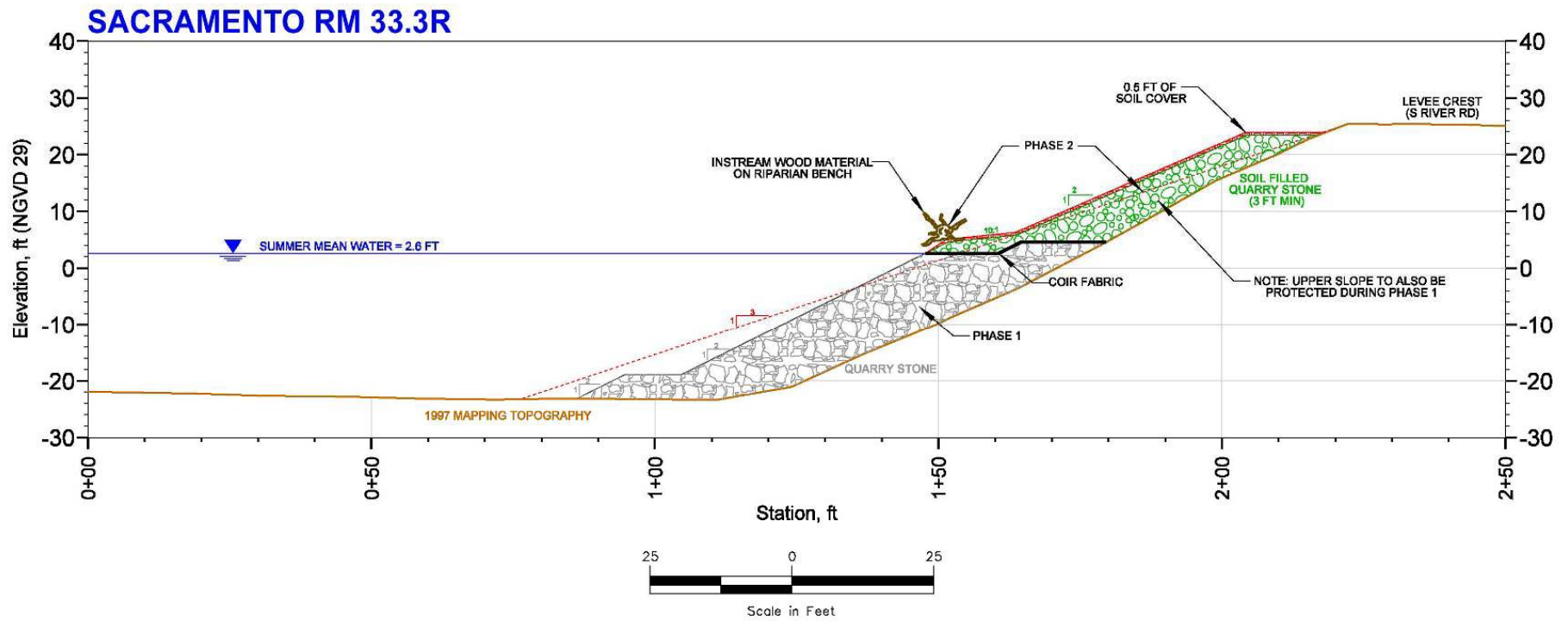


Figure 12. Conceptual cross section of Site RM 33.3R. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 33.3R CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1878543.08	6682585.34
P2	1878513.18	6682831.71
P3	1878059.83	6682780.37
P4	1878092.69	6682503.48



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EROSION CONTROL SITES

SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING, RM 33.3R

Plate number:
6
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Figure 13. Construction easement and Project footprint at Site RM 33.3R. Ayres Associates, Sacramento, CA, 22 November 2006.

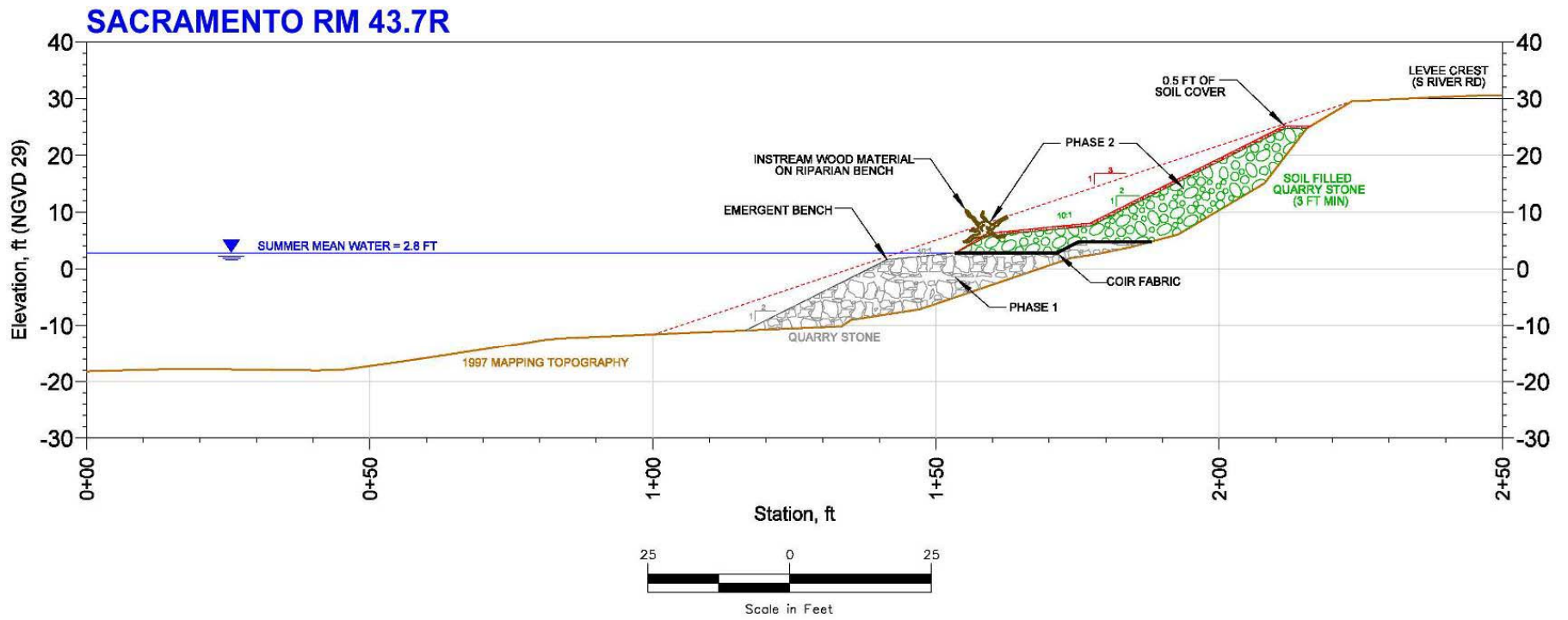


Figure 14. Conceptual cross section of Site RM 43.7R. Ayres Associates, Sacramento, CA, 8 November 2006.

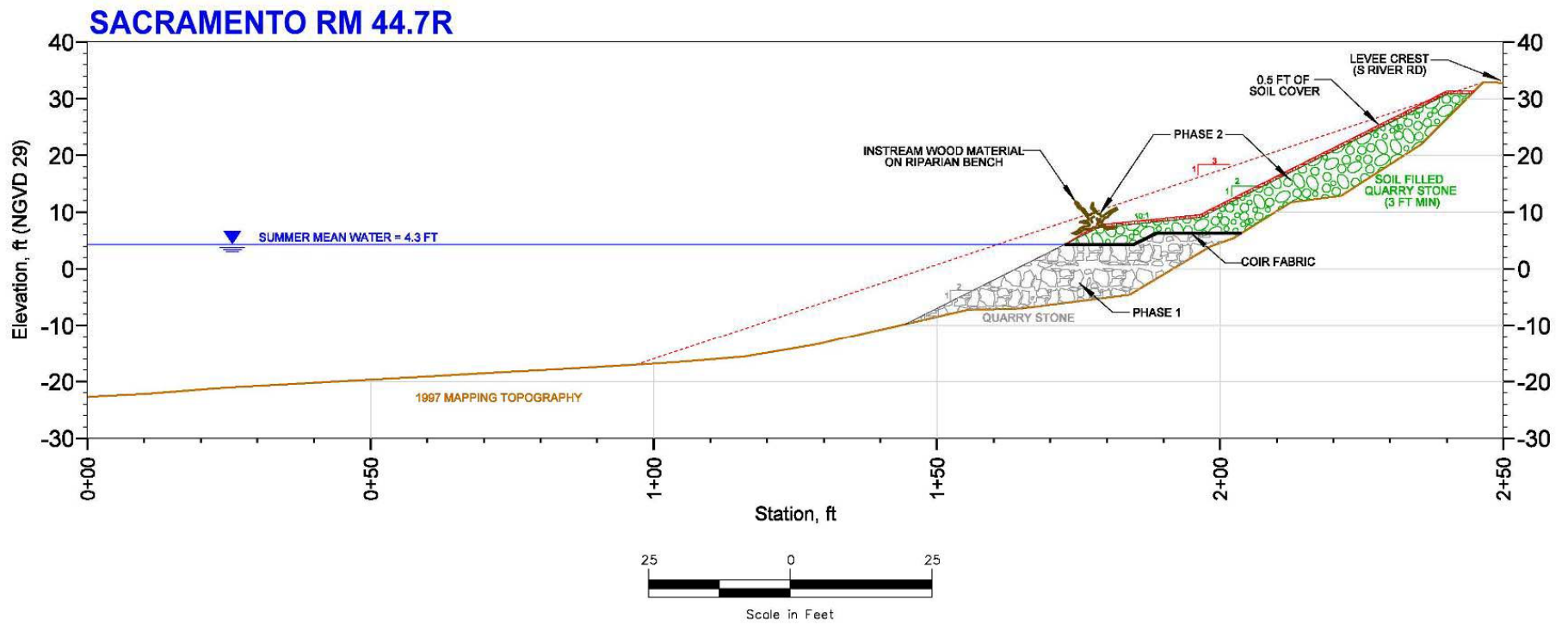
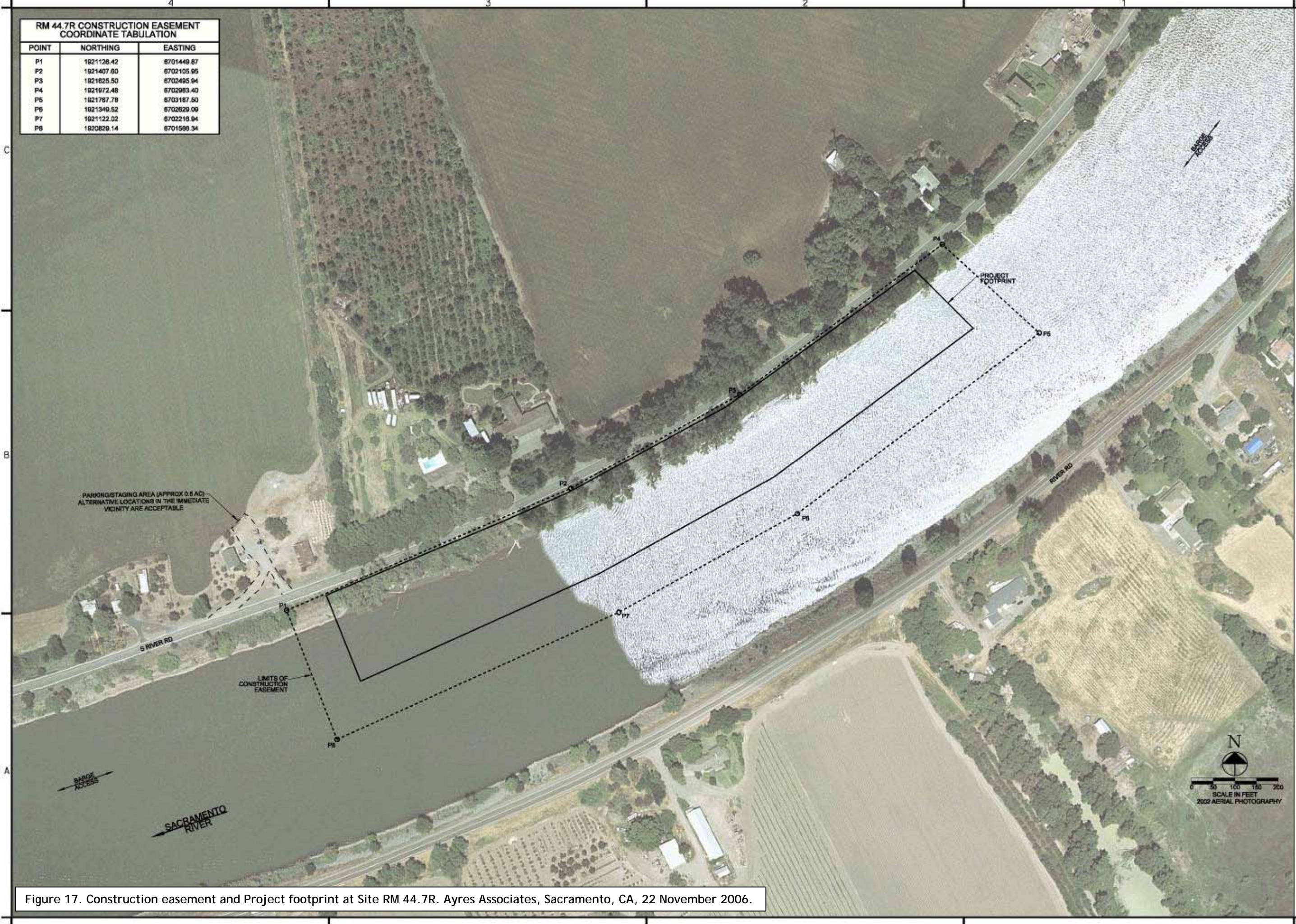


Figure 16. Conceptual cross section of Site RM 44.7R. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 44.7R CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1921128.42	6701449.87
P2	1921407.80	6702105.95
P3	1921825.50	6702495.94
P4	1921972.48	6702983.40
P5	1921767.78	6703187.50
P6	1921349.52	6702629.09
P7	1921122.02	6702218.94
P8	1920828.14	6701596.34



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SACRAMENTO RIVER EMERGENCY
EROSION CONTROL SITES

SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING. RM 44.7R

Plate number:
8
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Figure 17. Construction easement and Project footprint at Site RM 44.7R. Ayres Associates, Sacramento, CA, 22 November 2006.

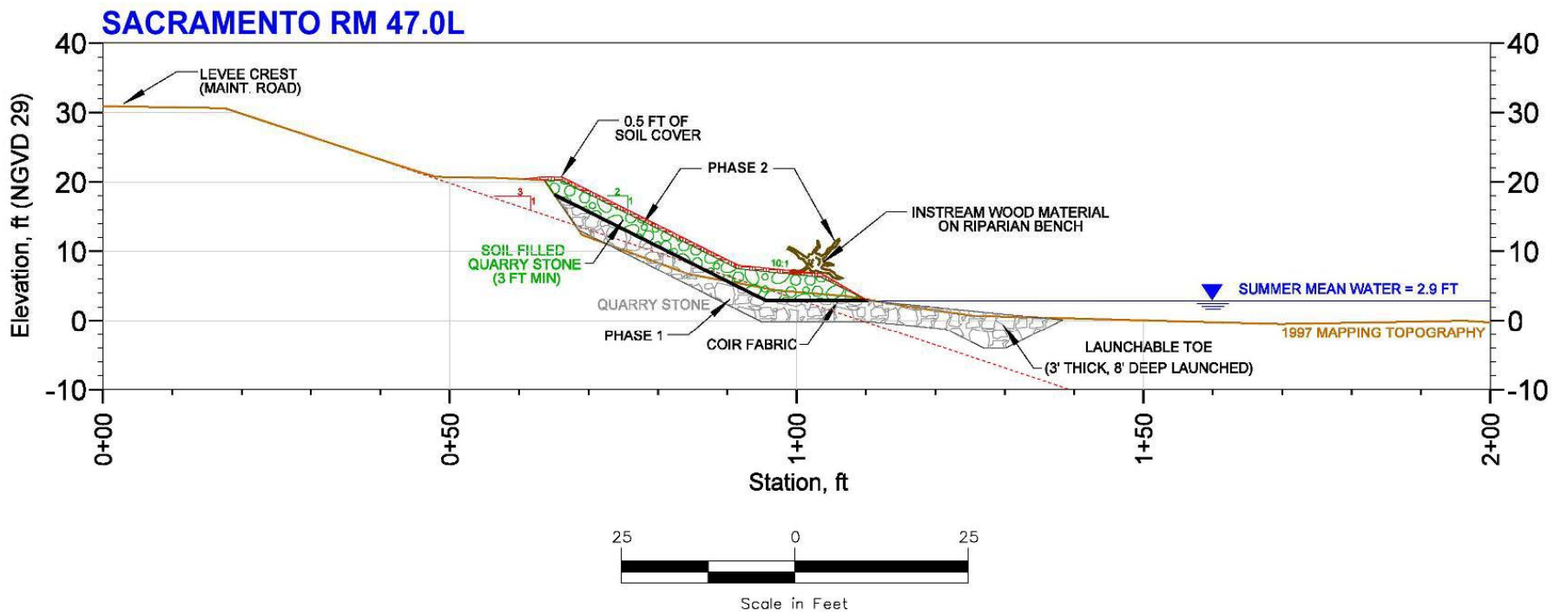


Figure 18. Conceptual cross section of Site RM 47.0L. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 47.0L CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1934106.51	6703382.20
P2	1933613.78	6703712.42
P3	1933233.71	6703806.27
P4	1932736.64	6703634.08
P5	1932721.25	6703499.70
P6	1933154.41	6703464.15
P7	1933459.03	6703380.54
P8	1933013.03	6703099.83



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SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING, RM 47.0L

Plate number:
9
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Figure 19. Construction easement and Project footprint at Site RM 47.0L. Ayres Associates, Sacramento, CA, 22 November 2006.

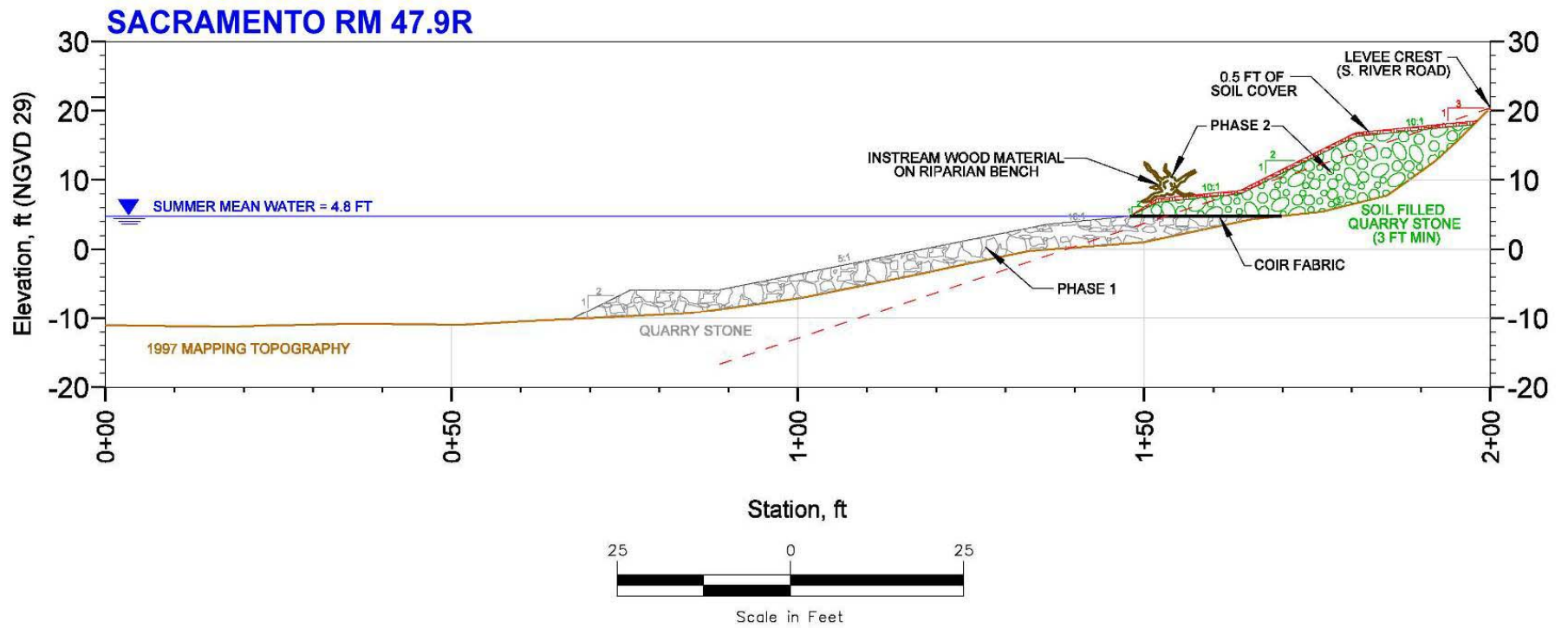


Figure 20. Conceptual cross section of Site RM 47.9R. Ayres Associates, Sacramento, CA, 8 November 2006.

**RM 47.9R & 48.2R CONSTRUCTION EASEMENT
COORDINATE TABULATION**

POINT	NORTHING	EASTING
P1	1934787.84	6997723.22
P2	1934884.86	6999029.12
P3	1934798.73	6700185.09
P4	1934489.73	6700162.81
P6	1934629.11	6999636.84
P6	1934572.00	6998955.42
P7	1934614.27	6998289.06
P8	1934494.48	6997759.58



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EROSION CONTROL SITES
SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING, RM 47.9R & 48.2R

Plate number:
10
Sheet 10 of 13

Figure 21. Construction easement and Project footprint at Site RM 48.0R. This figure is a combination of sites RM 47.9R (east of P6) and 48.2R (west of P6) into one large site, RM 48.0R. Ayres Associates, Sacramento, CA, 22 November 2006.

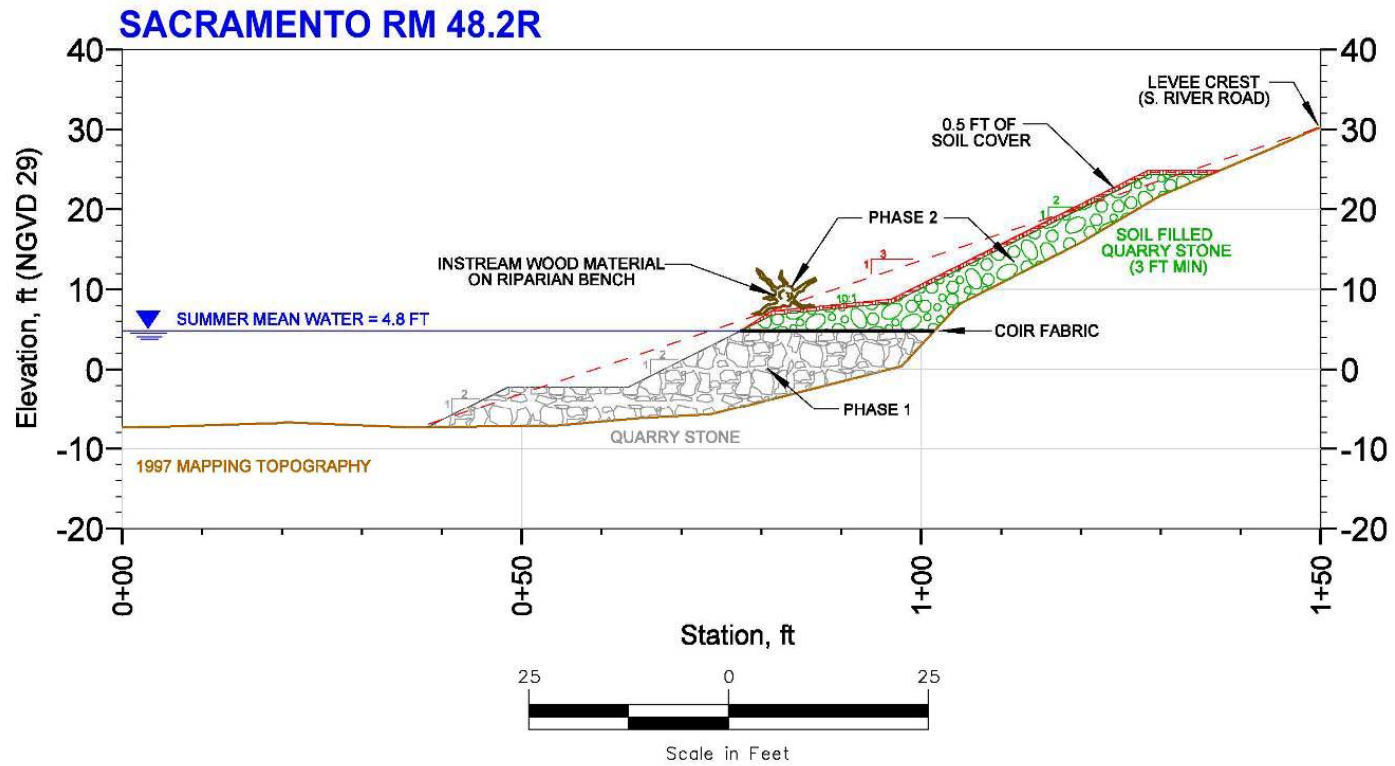


Figure 22. Conceptual cross section of Site RM 48.2R. Ayres Associates, Sacramento, CA, 8 November 2006.

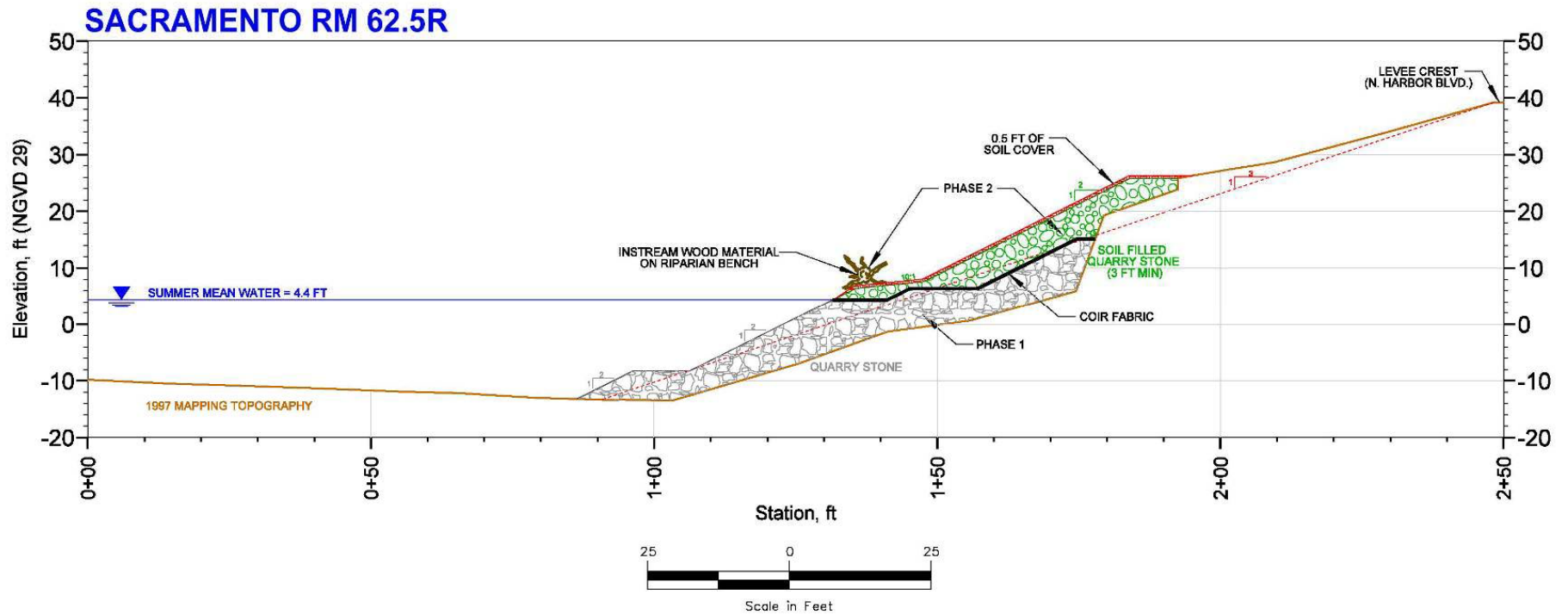


Figure 23. Conceptual cross section of Site RM 62.5R. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 62.5R CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	1979947.22	6890816.06
P2	1979791.41	6891152.03
P3	1979484.32	6891070.67
P4	1979554.05	6890845.24
P5	1979647.98	6890653.66



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Drawn by:	DR	Design title:	
Reviewed by:	D. SMITH	Spec. No.:	
Submitted by:		File name:	PL 62.5R.dwg
		Plot scale:	1:100

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SACRAMENTO, CALIFORNIA

**AYRES ENGINEERS
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SACRAMENTO, CA

SACRAMENTO RIVER BANK
PROTECTION PROJECT - PHASE 11
SACRAMENTO RIVER EMERGENCY
EROSION CONTROL SITES

SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING, RM 62.5R

Plate
number:
11

Sheet 11 of 13

Figure 24. Construction easement and Project footprint at Site RM 62.5R. Ayres Associates, Sacramento, CA, 22 November 2006.

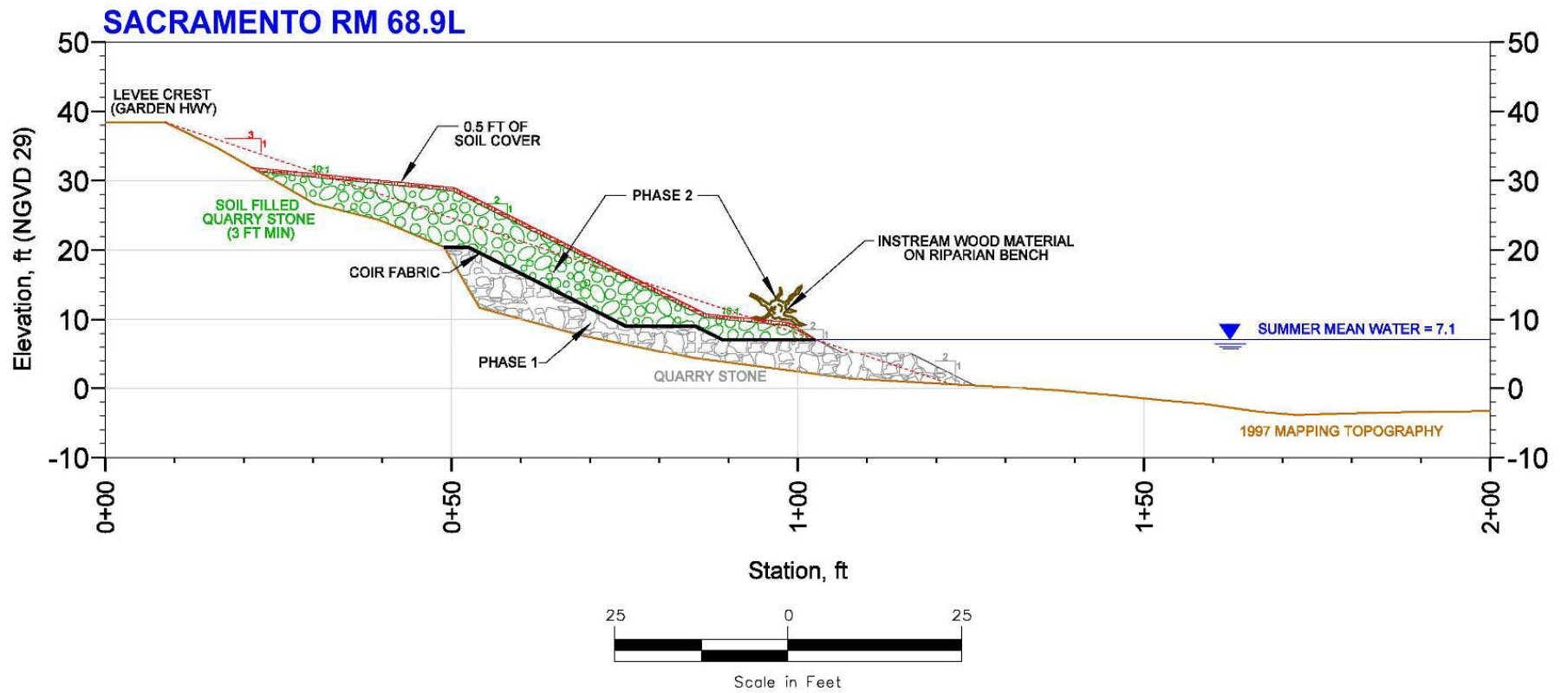


Figure 25. Conceptual cross section of Site RM 68.9L. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 68.9 L CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	2001541.23	8874389.80
P2	2001696.99	8874646.78
P3	2000880.82	8875209.85
P4	2000701.07	8874935.45



Scale	Date	Author	Check	Scale Approval

Date	Rev.
11/03/06	

Design by: [blank] Date by: [blank]
 Drawn by: D. SMITH Rev. issued by: [blank]
 Checked by: [blank] Submitted by: [blank]
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 PROTECTION PROJECT - PHASE 11
 SACRAMENTO RIVER EMERGENCY
 EROSION CONTROL SITES
 SITE MAP SHOWING
 SITE LIMITS, ACCESS, STAGING,
 AND PARKING, RM 68-9L

Plate number:
12
 Sheet 12 of 13

Figure 26. Construction easement and Project footprint at Site RM 68.9L. Ayres Associates, Sacramento, CA, 22 November 2006.

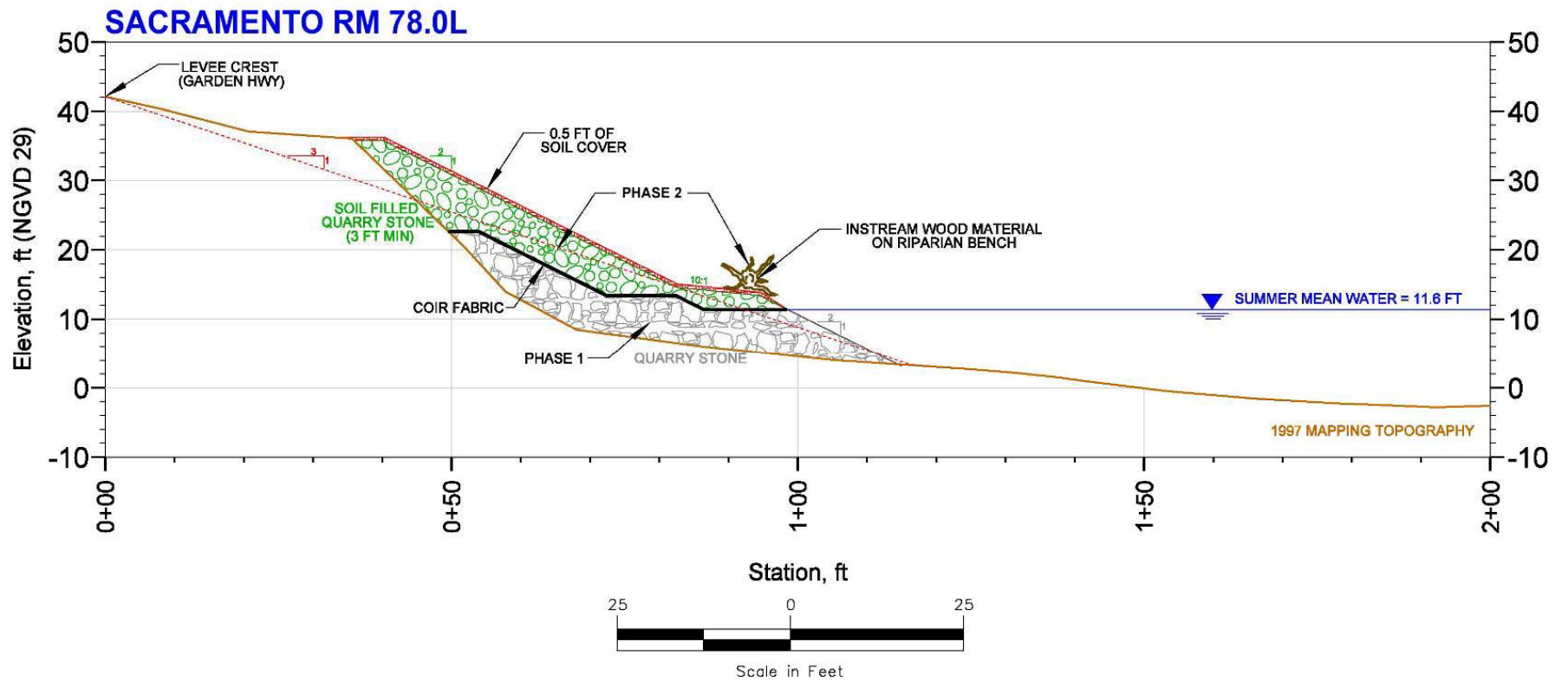


Figure 27. Conceptual cross section of Site RM 78.0L. Ayres Associates, Sacramento, CA, 8 November 2006.

RM 78.0 L CONSTRUCTION EASEMENT COORDINATE TABULATION		
POINT	NORTHING	EASTING
P1	2042810.03	6676487.50
P2	2042932.98	6676828.28
P3	2041812.46	6677410.08
P4	2041674.52	6677036.43



Symbol	Description	Date	Approval

Designed by:	Checked by:	Drawn by:	Revised by:	Date:	Rev.
ABA	DMR	DMR	DMR	11/03/06	
Reviewed by:	Submitted by:	Thomas W. Smith	File name: P12_78.0.dgn	Plot date: 11/03/06	Plot scale: 1:100

DEPARTMENT OF THE ARMY
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SACRAMENTO RIVER BANK
PROTECTION PROJECT, PHASE II
SACRAMENTO RIVER EMERGENCY
EROSION CONTROL SITES

SITE MAP SHOWING
SITE LIMITS, ACCESS, STAGING,
AND PARKING, RM 78.0L

Plate number:
13
Sheet 13 of 13

Figure 28. Construction easement and Project footprint at Site RM 78.0L. Ayres Associates, Sacramento, CA, 22 November 2006.

Appendix A
USFWS Species List

Appendix A. USFWS Species List

Federal Endangered and Threatened Species that Occur in
or may be Affected by Projects in the Counties and/or
U.S.G.S. 7 1/2 Minute Quads you requested

Document Numbers: 061110123501, 061110120837, 061110115201, 061110124511,
061110125046, 061110011140, 061110021327, 061110013313

Database Last Updated: October 27, 2006

THORNTON (479B)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss – Critical habitat, Central Valley Steelhead (X) (NMFS)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run chinook
(X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Proposed Species

Amphibians

Birds

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run chinook (C) (NMFS)

TERMINOUS (479C)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii – Vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss – Critical habitat, Central Valley Steelhead (X) (NMFS)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Proposed Species

Amphibians

Reptiles

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

ISELTON (480A)

Listed Species

Invertebrates

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Elaphrus viridis - Delta green ground beetle (T)

Lepidurus packardii – Vernal pool tadpole shrimp

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X).

Hypomesus transpacificus –Delta smelt (T)

Oncorhynchus mykiss – Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley spring-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley winter-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Rallus longirostris obsoletus - California clapper rail (E)

Mammals

Proposed Species

Amphibians

Reptiles

Candidate Species

Fish

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

RIO VISTA (480B)

Listed Species

Invertebrates

Branchinecta conservation - Conservancy fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Elaphrus viridis - delta green ground beetle (T)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Rallus longirostris obsoletus - California clapper rail (E)

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

JERSEY ISLAND (480C)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Elaphrus viridis - delta green ground beetle (T)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, winter-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Rallus longirostris obsoletus - California clapper rail (E)

Plants

Oenothera deltoides ssp. *howellii* - Antioch Dunes evening-primrose (E)

Candidate Species

Fish

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

BOULDIN ISLAND (480D)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss – Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha –Critical habitat, Central Valley spring-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Rallus longirostris obsoletus - California clapper rail (E)

Mammals

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

FLORIN (496B)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

BRUCEVILLE (496 C)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - Delta smelt (T)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Proposed Species

Plants

Candidate Species

Fish

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

CLARKSBURG (497A)

Listed Species

Invertebrates

Branchinecta conservation - Conservancy fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss – Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha –Critical habitat, Central Valley spring-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, winter-run Chinook salmon, Sacramento River (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Rallus longirostris obsoletus - California clapper rail (E)

Mammals

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

SAXON (497B)

Listed Species

Invertebrates

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss – Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley spring-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Neostapfia colusana – Critical habitat, Colouosa grass (X)

Neostapfia colusana – Colouosa grass (T)

Tuctoria mucronata – Critical habitat, Solano grass (X)

Tuctoria mucronata – Solano grass (X)

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

LIBERTY ISLAND (497C)

Listed Species

Invertebrates

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta lynchi – Vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Elaphrus viridis - delta green ground beetle (T)

Lepidurus packardi – Vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, spring-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Proposed Species

Amphibians

Candidate Species

Fish

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

COURTLAND (497D)

Listed Species

Invertebrates

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Elaphrus viridis - delta green ground beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, winter-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon
(C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook
(C) (NMFS)

RIO LINDA (512B)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon
(C) (NMFS)

SACRAMENTO EAST (512C)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus – Critical habitat, valley elderberry longhorn beetle (X)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

TAYLOR MONUMENT (513A)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley spring-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, winter-run Chinook salmon, Sacramento River (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Birds

Coccyzus americanus occidentalis – Western yellow-billed cuckoo (C)

GRAYS BEND (513B)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardii - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley spring-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, winter-run Chinook salmon, Sacramento River (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Charadrius alexandrinus nivosus – Western snowy plover (T)

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Cordylanthus palmatus – Palmate-bracted bird's beak (E)

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Birds

Coccyzus americanus occidentalis – Western yellow-billed cuckoo (C).

DAVIS (513C)

Listed Species

Invertebrates

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardi – Critical habitat, vernal pool tadpole shrimp (X)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Charadrius alexandrinus nivosus – Western snowy plover (T)

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Nostafya colusana – Critical habitat, Colusa grass (X)

Tuctoria mucronata – Critical habitat, Solano grass (X)

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Birds

SACRAMENTO WEST (513D)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, winter-run Chinook salmon, Sacramento River (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Fish

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

SHERIDAN (528B)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Birds

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

PLEASANT GROVE (528C)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)
Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Birds

Coccyzus americanus occidentalis – Western yellow-billed cuckoo (C)

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

NICOLAUS (529A)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley spring-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Birds

Coccyzus americanus occidentalis – Western yellow-billed cuckoo (C)

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon
(C) (NMFS)

Oncorhynchus tshawytscha –Critical habitat, Central Valley fall/late fall-run Chinook
salmon (C) (NMFS)

SUTTER CAUSEWAY (529B)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, Central Valley spring-run Chinook salmon
(X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Birds

Coccyzus americanus occidentalis – Western yellow-billed cuckoo (C)

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon
(C) (NMFS)

Oncorhynchus tshawytscha –Critical habitat, Central Valley fall/late fall-run Chinook
salmon (C) (NMFS)

KNIGHTS LANDING (529C)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha – Critical habitat, winter-run Chinook salmon, Sacramento River
(X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Birds

Coccyzus americanus occidentalis – Western yellow-billed cuckoo (C)

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon
(C) (NMFS)

Oncorhynchus tshawytscha –Critical habitat, Central Valley fall/late fall-run Chinook
salmon (C) (NMFS)

VERONA (529D)

Listed Species

Invertebrates

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packari - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, winter-run Chinook salmon, Sacramento River
(X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Mammals

Plants

Candidate Species

Birds

Coccyzus americanus occidentalis – Western yellow-billed cuckoo (C)

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon
(C) (NMFS)

Oncorhynchus tshawytscha –Critical habitat, Central Valley fall/late fall-run Chinook
salmon (C) (NMFS)

County Lists

Sacramento County

Listed Species

Invertebrates

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta lynchi - Critical habitat, vernal pool fairy shrimp (X)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - Critical habitat, valley elderberry longhorn beetle (X)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Elaphrus viridis delta green ground beetle (T)

Lepidurus packardi - Critical habitat, vernal pool tadpole shrimp (X)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, winter-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Ambystoma californiense - Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Plants

Castilleja campestris ssp. *succulenta* - Critical habitat, succulent (=fleshy) owl's-clover (X)

Oenothera deltooides ssp. *howelli* - Antioch Dunes evening-primrose (E)

Orcuttia tenuis - Critical habitat, slender Orcutt grass (X)

Orcuttia tenuis - slender Orcutt grass (T)

Orcuttia viscida - Critical habitat, Sacramento Orcutt grass (X)

Orcuttia viscida - Sacramento Orcutt grass (E)

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

Birds

Coccyzus americanus occidentalis - Western yellow-billed cuckoo (C)

Sutter County

Listed Species

Invertebrates

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, winter-run Chinook salmon (X) (NMFS)
Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Plants

Castilleja campestris ssp. *succulenta* - Critical habitat, succulent (=fleshy) owl's-clover (X)

Oenothera deltoides ssp. *howelli* - Antioch Dunes evening-primrose (E)

Orcuttia tenuis - Critical habitat, slender Orcutt grass (X)

Orcuttia tenuis - slender Orcutt grass (T)

Orcuttia viscida - Critical habitat, Sacramento Orcutt grass (X)

Orcuttia viscida - Sacramento Orcutt grass (E)

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

Birds

Coccyzus americanus occidentalis - Western yellow-billed cuckoo (C)

Yolo County

Listed Species

Invertebrates

Branchinecta conservatio - Conservancy fairy shrimp (E)

Branchinecta lynchi - vernal pool fairy shrimp (T)

Desmocerus californicus dimorphus - valley elderberry longhorn beetle (T)

Lepidurus packardi - Critical habitat, vernal pool tadpole shrimp (X)

Lepidurus packardi - vernal pool tadpole shrimp (E)

Fish

Hypomesus transpacificus - Critical habitat, delta smelt (X)

Hypomesus transpacificus - delta smelt (T)

Oncorhynchus mykiss - Central Valley steelhead (T) (NMFS)

Oncorhynchus mykiss - Critical habitat, Central Valley steelhead (X) (NMFS)

Oncorhynchus tshawytscha - Central Valley spring-run Chinook salmon (T) (NMFS)

Oncorhynchus tshawytscha - Critical Habitat, Central Valley spring-run Chinook (X) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, winter-run Chinook salmon (X) (NMFS)

Oncorhynchus tshawytscha - winter-run Chinook salmon, Sacramento River (E) (NMFS)

Amphibians

Ambystoma californiense - California tiger salamander, central population (T)

Ambystoma californiense - Critical habitat, CA tiger salamander, central population (X)

Rana aurora draytonii - California red-legged frog (T)

Reptiles

Thamnophis gigas - giant garter snake (T)

Birds

Haliaeetus leucocephalus - bald eagle (T)

Strix occidentalis caurina - Northern spotted owl (T)

Plants

Cordylanthus palmatus - Palmate-bracted bird's beak (E)

Neostapfia colusana - Critical habitat, Colusa grass (X)

Neostapfia colusana - Colusa grass (T)

Tuctoria mucronata – Critical habitat, Solano grass (X)

Tuctoria mucronata – Solano grass (X)

Candidate Species

Fish

Oncorhynchus tshawytscha - Central Valley fall/late fall-run Chinook salmon (C) (NMFS)

Oncorhynchus tshawytscha - Critical habitat, Central Valley fall/late fall-run Chinook (C) (NMFS)

Birds

Coccyzus americanus occidentalis - Western yellow-billed cuckoo (C)

Key:

- (E) Endangered - Listed as being in danger of extinction.
- (T) Threatened - Listed as likely to become endangered within the foreseeable future.
- (P) Proposed - Officially proposed in the Federal Register for listing as endangered or threatened.
- (NMFS) Species under the Jurisdiction of the [National Oceanic & Atmospheric Administration Fisheries Service](#). Consult with them directly about these species.
- Critical Habitat - Area essential to the conservation of a species.

- (PX) Proposed Critical Habitat - The species is already listed. Critical habitat is being proposed for it.
- (C) Candidate - Candidate to become a proposed species.
- (V) Vacated by a court order. Not currently in effect. Being reviewed by the Service.
- (X) Critical Habitat designated for this species

Appendix B

Special-Status Species with the Potential to Occur in the Project Area

Table B-1. Special-status species with the potential to occur in the Project area.

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Invertebrates													
Antioch Dunes anthicid beetle <i>Anthicus antiochensis</i>	SC/-/-/-	Population in Antioch Dunes believed extinct; now known only from Grand Island and in and around Sandy Beach County Park, Sacramento County.	Loose sand on sand bars and sand dunes.	CNDDDB	CNDDDB	CNDDDB						CNDDDB	Outside the species' known range. No suitable habitat in the Project area.
Conservancy fairy shrimp <i>Branchinecta conservatio</i>	E/-/-/-	Disjunct occurrences in Solano, Merced, Tehama, Ventura, Butte, and Glenn counties.	Large, deep vernal pools in annual grasslands.	USFWS	USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	USFWS			No suitable habitat in the Project area.
Delta green ground beetle <i>Elapharus viridus</i>	T/-/-/-	Restricted to Olcott Lake and other vernal pools at Jepson Prairie Preserve, Solano County.	Sparsely vegetated edges of vernal lakes and pools; occur up to 250 feet from pools.	USFWS	USFWS	USFWS	USFWS	USFWS					No suitable habitat in the Project area.
Mid-valley fairy shrimp <i>Brachinecta</i> sp. <i>Amid-valley</i>	SC/-/-/-	California's Central Valley.	Vernal pools in annual grasslands.			CNDDDB	CNDDDB	CNDDDB	CNDDDB				No suitable habitat in the Project area.
Curved-foot hygrotus diving beetle <i>Hygrotus curvipes</i>	SC/-/-/-	Eastern Contra Costa County and the Alameda watershed.	Inhabits alkali vernal pools and other seasonal wetlands or slow-moving streams with pools and fringed with alkali vegetation between the Outer Coast Range and Sacramento Delta.	CNDDDB	CNDDDB								No suitable habitat in the Project area.
Ricksecker's water scavenger beetle <i>Hydrochara rickseckeri</i>	SC/-/-/-	San Francisco Bay Area including Marin, Sonoma, Alameda, and Contra Costa counties.	Inhabits seasonally ponded wetlands in the San Francisco Bay area.	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB					No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Sacramento anthicid beetle <i>Anthicus sacramento</i>	SC/--/--	Dune areas at mouth of Sacramento River; western tip of Grand Island, Sacramento County; upper Putah Creek and dunes near Rio Vista, Solano County; Ord Ferry Bridge, Butte County.	Found in sand slip-faces among willows; associated with riparian and other aquatic habitats.	CNDDDB	CNDDDB							CNDDDB	No suitable habitat in the Project area.
Valley elderberry longhorn beetle <i>Desmocerus californicus dimorphus</i> And Critical habitat	T/--/--	Streamside habitats below 3,000 feet throughout the Central Valley.	Riparian and oak savanna habitats with elderberry shrubs; elderberries are the host plant.	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	Within the species known range. Suitable habitat (Valley elderberry shrubs) present at Sites RM 44.7R, 47.0L, 47.9R, and 48.2R.
Vernal pool fairy shrimp <i>Branchinecta lynchi</i>	T/--/--	Central Valley, central and south Coast Ranges from Tehama County to Santa Barbara County. Isolated populations also in Riverside County.	Vernal pools; also found in sandstone rock outcrop pools.	CNDDDB, USFWS	NDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	No suitable habitat in the Project area.
Antioch andrenid bee <i>Perdita scitula antiochensis</i>	SC/--/--	Known only from Antioch dunes and Oakley.	Inhabits sand dunes or other loose, sand deposits with late summer and fall-flowering endemics, such as <i>Eriogonum</i> sp., <i>Gutierrezia</i> sp., <i>Californica</i> sp., <i>Heterotherca grandiflora</i> , <i>Lessingia glandulifera</i>	CNDDDB	CNDDDB	CNDDDB							No suitable habitat in the Project area.
Vernal pool tadpole shrimp <i>Lepidurus packardii</i> And Critical Habitat	E/--/--	Shasta County south to Merced County.	Vernal pools and ephemeral stock ponds.	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Sacramento Valley Tiger Beetle <i>Cicindela hirticollis abrupta</i>	-/-/ /G5,TH, SH	Historical ranges include Feather, Sacramento, Yuba, American, San Joaquin, Mokulumne, and King Rivers. Recent surveys, data, and literature strongly supported the extinction of <i>C. h. abrupta</i> .	Extensive low bars or edges that provide near-surface moisture and sandy flood plain habitat near bodies of water. Requires fine to medium sand, terraced floodplains or low sandy water edge flats.				CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	Suitable habitat available at RM Sites RM 44.7R and 47.0L, although based on recent information, they are likely extinct from the Sacramento and Feather Rivers. As a result, not likely present in the Project area.
Antioch multilid wasp <i>Myrmosula pacifica</i>	-/-/ /G1, S1	Known only from the sand dunes at Antioch and San Joaquin Valley.	No habitat associations are known for this species.				CNDDB	CNDDB	CNDDB	CNDDB		Sources indicate species as extirpated or extinct due to lack of further collections. No suitable habitat in the Project area.
California linderiella <i>Linderiella occidentalis</i>	-/-/ /G2, G3, S2, S3	The California fairy shrimp is the most common fairy shrimp in the Central Valley. It has been documented on most land forms, geologic formations and soil types supporting vernal pools in California, at altitudes as high as 3800 feet above sea level.	Seasonal pools in unpowered grasslands with old alluvial soils underlain by hardpan or in sandstone depressions water in the pools has very low alkalinity, conductivity, and total dissolved solids.	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Fish													
Sacramento River winter-run Chinook salmon <i>Oncorhynchus tshawytscha</i> And Critical habitat	E/CE/- /-	Sacramento River and San Joaquin Estuary	Mainstem river reaches with cool water and available spawning gravel; rear five to ten months in the river and estuary; migrate to the ocean to feed and grow until sexually mature.	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	Within the species known range. Rearing and migratory habitat present in the Project area.
Spring-run Chinook salmon <i>Oncorhynchus tshawytscha</i> And Critical habitat	T/CT/- /-	Central Valley Spring-run includes populations spawning in the Sacramento River and its tributaries (Deer, Mill, Antelope, Battle, Beegum, Butte, and Big Chico Creeks) and the Feather and Yuba Rivers.	Low- to mid-elevation rivers and streams with cold water, clean gravel of appropriate size for spawning and adequate rearing habitat; typically rear in fresh water for one or more years before migrating to the ocean.	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	Within the species known range. Rearing and migratory habitat present in the Project area.
Central Valley fall and late fall-run Chinook salmon <i>Oncorhynchus tshawytscha</i> And Critical Habitat	C/CSC/- /-	Sacramento, Feather and Yuba Rivers, Battle Cottonwood, Clear, and Mill creeks.	Low elevation mainstem rivers and tributaries with cool water, deep pools, and suitable spawning gravel; migrate to the ocean to feed and grow until sexually mature.	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	Within the species known range. Rearing and migratory habitat present in the Project area.
Central Valley steelhead <i>Oncorhynchus mykiss</i> And Critical Habitat	T/-/-/-	Sacramento River and its tributaries; San Joaquin River and its tributaries.	Rivers and streams with cold water, clean gravel of appropriate size for spawning, and suitable rearing habitat; typically rear in fresh water for one or more years before migrating to the ocean.	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	NMFS; USFWS	Within the species known range. Rearing and migratory habitat present in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Delta smelt <i>Hypomesus transpacificus</i> And Critical Habitat	T/CT/- /-	Lower reaches of Sacramento and Napa rivers. The Delta including Suisun Bay, Goodyear, Suisun, Cutoff, First Mallard, and Montezuma sloughs.	Estuarine or brackish waters up to 18 parts per thousand (ppt); spawn in shallow brackish water upstream of the mixing zone (zone of saltwater-freshwater interface) where salinity is around 2 ppt.	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	At the upper end of the species range. Only occasionally present.
Sacramento splittail <i>Pogonichthys macrolepidotus</i>	D/CSC/ -/-	Lower portions of the Napa, Petaluma, Sacramento and San Joaquin rivers. Sacramento-San Joaquin Delta including Suisun Bay, Suisun Marsh.	Low elevation mainstem rivers and estuaries with low to moderate salinity (0-18 ppt); shallow, flooded vegetated habitat for spawning and foraging.	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	CNDDB	Within the species known range.
Green sturgeon <i>Acipenser medirostris</i>	T/CSC/- /-	Sacramento and Klamath rivers.	Large mainstem rivers with cool water and cobble, clean sand, or bedrock for spawning.	NMFS	NMFS	NMFS	NMFS	NMFS	NMFS	NMFS	NMFS	NMFS	Within the species known range. Suitable habitat present in the Project area. May not be accounted for by USFWS or CNDDB data sources due to the recent federal listing on 7 April 2006.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Sacramento perch <i>Archoplites interruptus</i>	-/CSC/ /-	Historically found throughout the Central Valley and low elevation rivers. Currently in their native, low elevation habitat, they exist in Clear Lake, Alameda Creek, Central Valley reservoirs, and farm ponds. Introduced into higher elevations, populations have established in reservoirs and the Klamath, Pit, Walker, Mono, and Owens River watersheds.	Rivers, lakes, reservoirs, and farm ponds with warm water, high turbidity, and beds of rooted, submerged, and emergent vegetation.	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	Found in Lake Greenhaven (Brickyard Pond) in 1970s, although not expected to currently inhabit the pond. Recent surveys have not documented Sacramento perch in the Sacramento River; unlikely to occur in the Project area (Patrick Crain, UC Davis, California, pers. comm., April 2006).
Amphibians													
California red-legged frog <i>Rana draytonii</i>	T/CSC/ /-	Found along the coast and coastal mountain ranges of California from Marin County to San Diego County and in the Sierra Nevada from Tehama County to Fresno County.	Permanent and semipermanent aquatic habitats, such as creeks and cold-water ponds, with emergent and submergent vegetation. May aestivate in rodent burrows or cracks during dry periods.	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	No suitable habitat in the Project area.
California tiger salamander <i>Ambystoma californiense</i>	CS/CSC /-/-	Central Valley, including Sierra Nevada foothills, up to approximately 1,000 feet, and coastal region from Butte County south to northeastern San Luis Obispo County.	Small ponds, lakes, or vernal pools in grasslands and oak woodlands for larvae; rodent burrows, rock crevices, or fallen logs for cover for adults and for summer dormancy.	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Western spadefoot <i>Spea hammondi</i>	-/-/ /G3, S3	Historically ranged from Redding to northwestern Baja California. Currently their range includes the Central Valley and associated foothills, eastern edge of the Coast Range, and south of San Francisco Bay.	Occurs primarily in grasslands habitats, but can be found in valley-foothill hardwood woodlands. Vernal pools are essential for breeding and egg-laying. In areas where natural pools are rare or nonexistent artificial impoundments such as stock tanks and pools that form at the base of road and railroad grades have allowed colonization.								CNDDDB	CNDDDB	No suitable habitat in the Project area.
Reptiles													
Giant garter snake <i>Thamnophis gigas</i>	T/CT/- /-	Central Valley from the vicinity of Burrell in Fresno County north to near Chico in Butte County; has been extirpated from areas south of Fresno.	Sloughs, canals, low-gradient streams and freshwater marsh habitats where there is a prey base of small fish and amphibians; also found in irrigation ditches and rice fields; requires grassy banks and emergent vegetation for basking and areas of high ground protected from flooding during winter.	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	No suitable habitat in the Project area (pers comm. Kim Turner, Biologist, USFWS).
Silvery legless lizard <i>Anniella pulchra pulchra</i>	SC/CSC /-/-	Along the Coast, Transverse, and Peninsular ranges from Contra Costa County to San Diego County with spotty occurrences in the San Joaquin Valley.	Habitats with loose soil for burrowing or thick duff or leaf litter; often forages in leaf litter at plant bases; may be found on beaches, sandy washes, and in woodland, chaparral, and riparian areas.	CNDDDB	CNDDDB								Outside the species' known range. No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Western pond turtle <i>Clemmys marmorata</i>	SC/CSC /—/—	Northwestern subspecies occurs from the Oregon border of Del Norte and Siskiyou Counties south along the coast to San Francisco Bay, inland through the Sacramento Valley, and on the western slope of Sierra Nevada. Southwestern subspecies occurs along the central coast of California east to the Sierra Nevada and along the southern California coast inland to the Mojave and Sonora Deserts; range overlaps with that of the northwestern pond turtle throughout the Delta and in the Central Valley.	Occupies ponds, marshes, pools in slow-flowing rivers, streams, and irrigation canals with muddy or rocky bottoms and with watercress, cattails, water lilies, or other aquatic vegetation in woodlands, grasslands, and open forests.	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	Suitable habitat present in the Project area at Sites RM 19.0R, 22.7R, 43.7R, and 44.7R.
Birds												
Great egret rookery <i>Ardea alba</i>	—/—/— /G5, S4	Breeding locations documented along the Klamath River, Tule and Clear Lake, Humboldt County, San Francisco Bay, and scattered locations in the Central Valley.	Colonial nester in large trees located near marshes, tide-flats, irrigated pastures and margins of rivers and lakes. Can be found in coastal lagoons, tidal saltwater marshes and mudflats, bays, estuaries, margins of large rivers and lakes, freshwater marshes, irrigation canals and flooded fields.			CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	Suitable habitat exists in the Project area, although the species was not observed during field surveys.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Great blue heron Rookery <i>Ardea herodias</i>	-/-/-/ G5, S4	Occurs throughout the state and is widespread. Breeding locations documented in northern California include the Klamath River, Tule Lake, and throughout the Central, Sacramento, and San Joaquin valleys. Extends south to San Diego, Riverside, and the Imperial Valley.	Colonial nester in groves of trees, cliffsides, and sequestered spots on marshes in close proximity to foraging areas. Often in mixed colonies with great egrets	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	Suitable habitat exists in the Project area, although the species was not observed during field surveys.
Bald eagle <i>Haliaeetus leucocephalus</i>	T, PR/CE, FP/-	Nests in Siskiyou, Modoc, Trinity, Shasta, Lassen, Plumas, Butte, Tehama, Lake, and Mendocino counties and in the Lake Tahoe basin. Reintroduced into central coast. Winter range includes the rest of California, except the southeastern deserts, very high altitudes in the Sierra Nevada, and east of the Sierra Nevada south of Mono County.	In western North America, nests and roosts in coniferous forests within 1 mile of a lake, reservoir, stream, or the ocean.	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	USFWS	May occur in the Project area during migration or winter. No suitable nesting habitat in the Project area.
Bank swallow <i>Riparia riparia</i>	SC/CT/- /-	Occurs along the Sacramento River from Tehama County to Sacramento County, along the Feather and lower American Rivers, in the Owens Valley; and in the plains east of the Cascade Range in Modoc, Lassen, and northern Siskiyou Counties. Small populations near the coast from San Francisco County to Monterey County.	Nests in bluffs or banks, usually adjacent to water, where the soil consists of sand or sandy loam.	CNDDDB	CNDDDB		CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	No suitable roosting habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Black crowned night heron Rookery <i>Nycticorax nycticorax</i>	-/-/ /G5, S4	Rookeries observed from the Oregon border south throughout the central valley, Sierra and Cascade Mountains, eastern deserts, San Diego, and Imperial county. In northwest California restricted, to coastal slopes of Del Norte and Humboldt County.	Rookery sites usually located in densely vegetated trees and occasionally in tule patches adjacent to foraging areas, lake margins, mud-bordered bays, and marshy spots. Known to nest in association with snowy egrets in low dead trees and bushes near water.			CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	May occur in the Project area during migration or winter. No suitable nesting habitat in the Project area.
California black rail <i>Laterallus jamaicensis coturniculus</i>	SC/CT, FP/-/-	Permanent resident in the San Francisco Bay and eastward through the Delta into Sacramento and San Joaquin Counties; small populations in Marin, Santa Cruz, San Luis Obispo, Orange, Riverside, and Imperial counties.	Tidal salt marshes associated with heavy growth of pickleweed; also occurs in brackish marshes or freshwater marshes at low elevations.	CNDDDB	CNDDDB							No suitable habitat in the Project area.
California clapper rail <i>Rallus longirostris obsoletus</i>	-/-/ /G5, T1, S1	California clapper rail found around northern and southern San Francisco Bay and San Pablo.	(Clapper Rails in General) Coastal subspecies prefer saltwater tidal marshes of pickleweed and chordgrass. Especially partial to tidal channels within the marsh for feeding. Yuma subspecies inhabits freshwater marshes vegetated with reed phragmites, bulrush, and cattail, and occasionally flooded desert brush and grasses.	USFWS	USFWS	USFWS						No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Cooper's hawk <i>Accipiter cooperii</i>	SC/-/-	Throughout California except high altitudes in the Sierra Nevada. Winters in the Central Valley, southeastern desert regions, and plains east of the Cascade Range.	Nests in a wide variety of habitat types, from riparian woodlands and digger pine-oak woodlands through mixed conifer forests.			CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB		Suitable habitat occurs at each of the project sites, although the species was not observed during field surveys.
Double crested cormorant Rookeries <i>Phalacrocorax auritus</i>	-/-/ /G5, S3	Occur throughout the state and are widespread and breed from Cape Mendocino north to the Oregon border. Popular breeding centers are in and around the San Francisco Bay, Channel and Farralon Islands, Salton sea, although a rare breeder in the central valley.	Colonial nester on coastal cliffs, offshore islands, and lake margins. Usually nests on the ground with sloping surface or in tall trees along lake margins.			CNDDDB	CNDDDB	CNDDDB	CNDDDB			No suitable habitat in Project area.
Mountain plover <i>Charadrius montanu</i>	SC/CSC /-/-	Does not breed in California; in winter, found in the Central Valley south of Yuba County, along the coast in parts of San Luis Obispo, Santa Barbara, Ventura, and San Diego Counties; parts of Imperial, Riverside, Kern, and Los Angeles Counties .	Occupies open plains or rolling hills with short grasses or very sparse vegetation; nearby bodies of water are not needed; may use newly plowed or sprouting grainfields.						CNDDDB	CNDDDB	CNDDDB	No suitable habitat in the Project area.
Purple martin <i>Progne subis</i>	-/CSC/ /-	An uncommon to rare, local summer resident in a variety of wooded, low-elevation habitats throughout California.	Inhabits woodlands, low elevation coniferous forest of douglas-fir, ponderosa pine, and Monterey pine.				CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Snowy egret rookery <i>Egretta thula</i>	-/-/ /G5, S4	Breeding areas are wide spread, scattered throughout the state, and are incompletely known. Documented in Humboldt, Del Norte, and Modoc Counties, lower Klamath River, and Sacramento and San Joaquin Valleys. Largest known colonies occur at the southern portion of Salton Sea.	Nest sites situated in low dead trees or bushes within or at the edge of freshwater lakes or in protected beds of dense tules close to foraging areas, marshes, tidal-flats, streams, wet meadows, and borders of lakes.						CNDDDB	CNDDDB	CNDDDB	Suitable habitat exists in the Project area, although the species was not observed during field surveys.
Swainson's hawk <i>Buteo swainsoni</i>	SC/CT/ /-	Lower Sacramento and San Joaquin Valleys, the Klamath Basin, and Butte Valley. Highest nesting densities occur near Davis and Woodland, Yolo County.	Nests in oaks or cottonwoods in or near riparian habitats. Forages in grasslands, irrigated pastures, and grain fields.	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	Suitable habitat observed throughout the Project area, although the species was not observed during field surveys.
Tricolored blackbird <i>Agelaius tricolor</i>	SC/CSC /-	Permanent resident in the Central Valley from Butte County to Kern County. Breeds at scattered coastal locations from Marin County south to San Diego County; and at scattered locations in Lake, Sonoma, and Solano counties. Rare nester in Siskiyou, Modoc, and Lassen counties.	Nests in dense colonies in emergent marsh vegetation, such as tules and cattails, or upland sites with blackberries, nettles, thistles, and grainfields. Habitat must be large enough to support 50 pairs.	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	Suitable habitat observed at Sites RM 19.0R and 43.7R, although the species was not observed during field surveys.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Western snowy plover <i>Charadrius alexandrinus nivosus</i>	T/CSC/- /-	Common on sandy marine and estuarine shores. Also occurs at isolated sites on the shores of alkali lakes in northeastern California, in the Central Valley, and southeastern deserts. Federal listing applies only to the Pacific coastal population.	Sandy beaches, salt pond levees, and shores of alkali lakes. Needs sandy, gravelly, or friable soils for nesting.				CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	CNDDDB, USFWS	No suitable habitat in the Project area.
Western burrowing owl <i>Athene cunicularia hypugea</i>	SC/CSC /-/-	Lowlands throughout California, including the Central Valley, northeastern plateau, southeastern deserts, and coastal areas. Rare along south coast.	Level, open, dry, heavily grazed or low- stature grassland or desert vegetation with available burrows.	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	No suitable habitat in the Project area.
Western yellow-billed cuckoo <i>Coccyzus americanus occidentalis</i>	-/CE/-/-	Nests along the Sacramento River (from Red Bluff to Colusa), South Fork Kern River (from Isabella Reservoir to Canebrake Ecological Reserve), Feather River (from Oroville to Verona, Butte, Yuba and Sutter counties); the Prado Flood Control Basin; Owens Valley; San Bernardino, Los Angeles, Imperial, San Bernardino, and Inyo counties; Santa Clara, Colorado, Mojavie, and Amargosa Rivers.	Wide, dense riparian forests with a thick understory of willows for nesting; sites with a dominant cottonwood overstory are preferred for foraging; may avoid valley-oak riparian habitats where scrub jays are abundant.			CNDDDB	CNDDDB	CNDDDB	CNDDDB, USFWS	USFWS	CNDDDB, USFWS	Although suitable habitat is available in the Project area, it is outside the species' known range.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
White-faced ibis <i>Plegadis chihi</i>	SC/CSC /--	Both resident and winter populations on the Salton Sea and in isolated areas in Imperial, San Diego, Ventura, and Fresno counties; breeds at Honey Lake, Lassen County, at Mendota Wildlife Management Area, Fresno County, and near Woodland, Yolo County.	Prefers freshwater marshes with tules, cattails, and rushes, but may nest in trees and forage in flooded agricultural fields, especially flooded rice fields.							CNDDDB	CNDDDB	CNDDDB	No suitable habitat in the Project area.
White-tailed kite <i>Elanus leucurus</i>	SC/FP/ /-	Lowland areas west of Sierra Nevada from the head of the Sacramento Valley south, including coastal valleys and foothills to western San Diego County at the Mexico border.	Low foothills or valley areas with valley or live oaks, riparian areas, and marshes near open grasslands for foraging.	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	Suitable habitat occurs at each of the project sites, although the species was not observed during field surveys.
Yellow-headed cowbird <i>Xanthocephalus xanthocephalus</i>	--/-- /G5, S3, S4	Breeding areas in the northeastern portion of the state in the Klamath Basin, on the Modoc Plateau, and throughout the Basin and Ranges Region east of the Cascades-Sierra axis. Numerous colonies located from southern Tehema County to western Kern County. Irregular occurrences elsewhere in the state.	Nests in freshwater emergent wetlands with dense vegetation often near lakes or ponds. Nests only where large insects are abundant, nesting timed with maximum emergence of aquatic insects.			CNDDDB	CNDDDB	CNDDDB	CNDDDB				No suitable habitat in Project area.
Mammals													
American badger <i>Taxidea taxus</i>	SC/--/--	Uncommon, permanent resident found throughout he state, except in the northern North Coast area.	Most abundant in drier, open stages of most shrub, forest, and herbaceous habitats, with friable soils.	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	CNDDDB	No suitable habitat in Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Plants													
Suisun Marsh aster <i>Aster lentus</i>	- / - / 1B/-	Sacramento–San Joaquin Delta, Suisun Marsh, Suisun Bay, and Contra Costa, Napa, Sacramento, San Joaquin, and Solano counties.	Brackish and freshwater marshes and swamps; often associated with <i>Phragmites</i> spp. (reed), <i>Scirpus</i> spp. (tules), <i>Rubus</i> spp. (blackberry), and <i>Typha</i> spp. (cattails). Elevation: 0–3 m Blooming: May–November	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS							No suitable habitat in the Project area.
Ferris’s milk-vetch <i>Astragalus tener</i> var. <i>ferrisiae</i>	- / - / 1B/-	Butte, Colusa, Glenn, Solano, Sutter, and Yolo counties.	Vernally mesic meadows and seeps; subalkaline flats within valley and foothill grasslands; usually seen in dry, adobe soil. Elevation: 5–75 m Blooming: April–May	CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS				No suitable habitat in the Project area.
Alkali milk-vetch <i>Astragalus tener</i> var. <i>tener</i>	- / - / 1B/-	Alameda, Contra Costa, Merced, Monterey, Napa, San Benito, Santa Clara, San Francisco, San Joaquin, Solano, Sonoma, Stanislaus, and Yolo counties.	Playas, valley and foothill grasslands on adobe clay soils; alkaline vernal pools. Elevation: 1–60 m Blooming: March–June			CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	No suitable habitat in the Project area.
Heartscale <i>Atriplex cordulata</i>	- / - / 1B/-	Alameda, Butte, Contra Costa, Fresno, Glenn, Kings, Kern, Madera, Merced, San Joaquin, Solano, Stanislaus, Tulare, and Yolo counties.	Chenopod scrub; meadows and seeps; valley and foothill grassland in sandy, saline or alkaline soils. Elevation: 1–375 m Blooming: April–October				CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS		CNPS		No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Brittlescale <i>Atriplex depressa</i>	- / - / 1B/-	Alameda, Contra Costa, Colusa, Fresno, Glenn, Merced, Solano, Tulare, and Yolo counties.	Chenopod scrub; meadows and seeps; valley and foothill grasslands; vernal pools; usually in alkali scalds or alkali clay; rarely associated with riparian marshes or valley playas. Elevation: 1–320 m Blooming: May– October				CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	No suitable habitat in the Project area.
San Joaquin spearscale <i>Atriplex joaquiniana</i>	- / - / 1B/-	Western edge of Central Valley in Alameda, Contra Costa, Colusa, Fresno, Glenn, Merced, Monterey, Napa, Sacramento, San Benito, Santa Clara, San Joaquin, San Luis Obispo, Solano, Tulare, and Yolo counties.	Chenopod scrub; meadows and seeps; playas; valley and foothill grassland in alkaline soils; often associated with <i>Distichilis</i> spp. (saltgrass) and <i>Frankenia</i> spp. (heath). Elevation: 1–835 m Blooming: April–October	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS)	No suitable habitat in the Project area.
Bristly sedge <i>Carex comosa</i>	- / - / 2/-	Contra Costa, Lake, Mendocino, Sacramento, San Bernardino, Santa Cruz, San Francisco, Shasta, San Joaquin, and Sonoma counties; Idaho, Oregon, Washington and elsewhere.	Coastal prairie, marshes and swamps of lake margins, valley and foothill grasslands. Elevation: 0–625 m Blooming: May–September	CNDDDB, CNPS	CNDDDB	CNPS	CNPS	CNPS				No suitable habitat in the Project area.
Soft bird's-beak <i>Cordylanthus mollis</i> ssp. <i>mollis</i>	E/CR/1 B/-	Contra Costa, Marin, Napa, Sacramento, Solano, and Sonoma counties.	Coastal salt marshes and swamps; associated with <i>Distichilis</i> spp., <i>Salicornia</i> spp. (pickleweed), and <i>Frankenia</i> spp. Elevation: 0–3 m Blooming: July–November	CNDDDB, CNPS	CNDDDB							No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Palmate-bracted bird's-beak <i>Cordylanthus palmatus</i>	E/CE/1B /-	Contra Costa, Marin, Napa, Sacramento, Solano, and Sonoma counties.	Chenopod scrub; valley and foothill grasslands; usually on alkaline soils; associated with <i>Distichilis</i> spp. and <i>Frankenia</i> spp. Elevation: 5–155 m Blooming: May–October							CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS	No suitable habitat in the Project area.
Dwarf downingia <i>Downingia pusilla</i>	- / - / 2 / -	Fresno, Merced, Mariposa, Napa, Placer, Sacramento, Solano, Sonoma, Stanislaus, Tehama, Yuba counties and South America.	Mesic valley and foothill grasslands; vernal pools and lake margins. Elevation: 1–445 m Blooming: March–May	CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS)	No suitable habitat in the Project area.
Boggs Lake hedge-hyssop <i>Gratiola heterosepala</i>	- /CE/1B/ -	Fresno, Lake, Lassen, Madera, Merced, Modoc, Placer, Sacramento, Shasta, Siskiyou, San Joaquin, Solano, Tehama, Oregon	Vernal pools, clay soils; freshwater marshes and swamps; lake margins. Elevation: 5–2400 m Blooming: April–August						CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	No suitable habitat in the Project area.
Rose-mallow <i>Hibisucs lasiocarpus</i>	- / - / 2 / -	Within the Delta watershed; Butte, Contra Costa, Colusa, Glenn, Sacramento, San Joaquin, Solano, Sutter, and Yolo counties.	Freshwater marshes and swamps; soaked river banks and low peat islands in sloughs. Elevation 0–120 m Blooming: June–September	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	Potentially present; suitable habitat exists in the Project area.
Carquinez golden bush <i>Isocoma arguta</i>	- / - / 1B / -	Contra Costa and Solano counties.	Alkaline soils in valley and foothill grasslands; on low benches near drainages and on tops and sides of mounds in swale habitat. Elevation: 1–20 m Blooming: August–September	CNDDDB	CNDDDB	CNDDDB							No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Northern California black walnut <i>Juglans hindsii</i>	- / - / 1B/-	Native stands in Contra Costa, Lake, Napa, Sacramento, Solano, and Yolo counties.	Riparian forest; riparian woodland; deep alluvial soils associated with a creek or stream. Elevation: 0–440 m Blooming: April–May	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS		Potentially present; suitable habitat exists in the Project area.
Delta tule pea <i>Lathyrus jepsonii</i> var. <i>jepsonii</i>	- / - / 1B/-	Central Valley (especially the San Francisco Bay region); Alameda, Contra Costa, Napa, Sacramento, Santa Clara, San Joaquin, and Solano counties.	Edges of freshwater and brackish marshes and swamps; edges of river banks; occasionally found along older riprapped banks. Elevation: 0–4 m Blooming: May–September	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS				Potentially present; suitable habitat exists in the Project area.
Legenere <i>Legenere limosa</i>	- / - / 1B/-	Primarily located in the lower Sacramento Valley, also from north Coast Ranges, northern San Joaquin Valley and the Santa Cruz mountains; Lake, Napa, Placer, Sacramento, Santa Clara, Shasta, San Joaquin, San Mateo, Solano, Sonoma, Stanislaus, Tehama, and Yuba counties.	Vernal pools. Elevation: 1–800 m Blooming: April–June			CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS)	No suitable habitat in the Project area.
Heckard's pepper-grass <i>Lepidium latipes</i> var. <i>heckardii</i>	- / - / 1B/-	Glenn, Solano, and Yolo counties.	Alkanine flats of valley and foothill grasslands; sometimes vernal pool edges. Elevation: 10–200 m Blooming: March–May	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Woolly-headed lessingia <i>Lessingia hololeuca</i>	- / - / 3/-	Alameda, Monterey, Marin, Napa, Santa Clara, San Mateo, Solano, Sonoma, and Yolo counties.	Broadleafed upland forest; coastal scrub; lower montane coniferous forest; valley and foothill grassland; in clay soils and serpentinite. Elevation: 15–305 m Blooming: June– October									No suitable habitat in the Project area.
Mason’s lilaepsis <i>Lilaeopsis masonii</i>	- / CR / 1B/-	Southern Sacramento Valley, Sacramento–San Joaquin Delta, northeast San Francisco Bay area; Alameda, Contra Costa, Napa, Sacramento, San Joaquin, and Solano counties.	Brackish or freshwater marshes and swamps; riparian scrub; in muddy or silty soil formed through river deposition or river bank erosion. Elevation: 0–10 m Blooming: April– November	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS				Potentially present; suitable habitat exists in the Project area.
Delta mudwort <i>Limosella subulata</i>	- / - / 2/-	Primarily located in the Delta; Contra Costa, Sacramento, San Joaquin, and Solano counties, and Oregon.	Marshes and swamps; mud banks of the delta in marshy or scrubby riparian associations; often associated with <i>Lilaeopsis masonii</i> . Elevation: 0–3 m Blooming: May–August	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS	CNPS	CNDDDB				Potentially present; suitable habitat exists in the Project area.
Baker’s navarretia <i>Navarretia leucocephala</i> ssp. <i>bakeri</i>	- / - / 1B/-	Colusa, Lake, Mendocino, Marin, Napa, Solano, Sonoma, Tehama, and Yolo counties.	Cismontane woodland; lower montane coniferous forest; meadows and seeps; valley and foothill grasslands; mesic vernal pools; adobe or alkaline soils. Elevation: 5–1740 m Blooming: April–July			CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS			No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area	
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L		
Colusa grass <i>Neostapfia colusana</i> And Critical Habitat	T/ CE/ 1B/-	Colusa, Merced, Solano, Stanislaus, and Yolo counties.	Usually in large or deep vernal pool bottoms in adobe soils. Elevation: 5–200 m Blooming: May–August			CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS	USFWS		No suitable habitat in the Project area.
Antioch Dunes evening Primrose <i>Oenothera deltoides</i> ssp. <i>howellii</i>	E/ CE/ 1B/-	Northeast San Francisco Bay region, known from three native occurrences; Contra Costa county.	Remnant river bluffs and sand dunes east of Antioch. Elevation: 0–30 m Blooming: March–September	CNDDDB, CNPS, USFWS	CNDDDB, USFWS								No suitable habitat in the Project area.
Eel-grass pondweed <i>Potamogeton zosteriformis</i>	- / - / 2/-	Contra Costa, Lake, Lassen, Modoc, and Shasta counties; Idaho, Oregon, Utah, Washington states.	Assorted freshwater marshes and swamps. Elevation: 0–1,860 m Blooming: June–July	CNDDDB, CNPS	CNDDDB								No suitable habitat in the Project area.
Sanford’s arrowhead <i>Sagittaria sanfordii</i>	- / - / 1B/-	Scattered locations in Central Valley and Coast Ranges; Butte, Del Norte, Fresno, Kern, Merced, Mariposa, Orange, Sacramento, Shasta, San Joaquin, Tehama, and Ventura counties.	Assorted, shallow freshwater marshes and swamps; in standing or slow-moving freshwater ponds, marshes and ditches. Elevation: 0–610 m Blooming: May–October	CNDDDB, CNPS	CNDDDB	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS	CNDDDB, CNPS		No suitable habitat in the Project area.
Marsh skullcap <i>Scutellaria galericulata</i>	- / - / 2/-	El Dorado, Lassen, Modoc, Nevada, Placer, Plumas, Shasta, Siskiyou, and San Joaquin counties; Oregon state.	Lower montane coniferous forest; mesic meadows and seeps (mesic); marshes and swamps. Elevation: 0–2,100 m Blooming: June–September	CNDDDB, CNPS	CNDDDB								No suitable habitat in the Project area.
Blue skullcap <i>Scutellaria lateriflora</i>	- / - / 2/-	Inyo and San Joaquin counties; New Mexico and Oregon states.	Mesic meadows and seeps; marshes and swamps. Elevation: 0–500 m Blooming: July–September	CNDDDB, CNPS	CNDDDB	CNDDDB							No suitable habitat in the Project area.

Table B-1 Continued

Species	Status ¹ Federal/ State/ CNPS/ Other	Distribution	Habitat association	Potential occurrence by site (RM) ²								Likelihood of occurrence in the Project area
				16.9L	19.4R, 19.0R	33.3R, 33.0R, 22.7R	48.2R, 47.9R, 44.7R, 43.7R	47.0L	62.5R	68.9L	78.0L	
Solano grass <i>Tuctoria mucronata</i> And Critical Habitat	E / CE/ 1B/-	Solano and Yolo counties.	Clay bottoms of drying vernal pools and lakes in valley grassland. Elevation: 5–10 m Blooming: April–August			CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS	CNDDDB, CNPS, USFWS			No suitable habitat in the Project area.

¹ Status:

Federal

- E = Listed as endangered under the federal Endangered Species Act (ESA).
- T = Listed as threatened under ESA.
- C = Candidate for listing under ESA.
- SC = Species of concern under ESA.
- D = Delisted. Status to be monitored for 5 years.
- PR = Protected under the Bald and Golden Eagle Protection Act.
- = No federal status.

State

- CE = Listed as endangered under the California Endangered Species Act (CESA).
- CT = Listed as threatened under CESA.
- CR = Listed as rare under the California Endangered Species Act.
- CSC = California species of special concern.
- FP = Fully protected under California Fish and Game Code.
- = No state status.

CNPS

- 1A = Plants Presumed extinct in California
- 1B = Plants rare, threatened, or endangered in California and elsewhere
- 2 = Plants rare, threatened, or endangered in California, but more common elsewhere
- 3 = Plants for which more information is need to determine status

Other

- USCB = United States Bird Conservation (Watch List)
- Global and State Ranking determined by CNDDDB were only noted for species that had neither a state nor federal listing
- G1 = Extremely endangered throughout its worldwide range; <1,000 individuals, or <2,000 acres of occupied habitat.
- G2 = Endangered throughout its worldwide range; 1,000 – 3,000 individuals, or 2,000 to 10,000 – 50,000 acres of occupied habitat.
- G3 = Restricted throughout its worldwide range; 3,000 – 10,000 individuals or 10,000 – 50,000 acres of occupied habitat.
- G5 = Demonstrably secure throughout its worldwide range; commonly found throughout its historic range.
- S1 = Extremely endangered throughout its statewide range; <1,000 individuals, or <2,000 acres of occupied habitat.
- S2 = Endangered throughout its statewide range; 1,000 – 3,000 individuals, or 2,000 to 10,000 – 50,000 acres of occupied habitat.

Table B-1 Continued

Other continued

- S3 = Restricted throughout its statewide range; 3,000 – 10,000 individuals or 10,000 – 50,000 acres of occupied habitat.
- S4 = Apparently secure throughout its statewide range; factors exist to cause concern of narrowing habitat or continuing threats.
- TH = Subspecies may be extinct, but further field work is needed. All sites are historical.
- SH = Species may be extinct, but further field work is needed. All sites are historical.
- T1 = Subspecies is extremely endangered throughout its worldwide range; <1,000 individuals, or <2,000 acres of occupied habitat.

² Potential occurrence by site is indicated where a species has been documented to occur, either historically or recently, based on one or more of the databases searched: the U.S. Fish and Wildlife Service USFWS project species list, California Natural Diversity Database CNDDDB records, National Marine Fisheries Service (NMFS), and the California Native Plant Society (CNPS) database.

Table B-2. Wildlife species and habitat observed at the Project area during November 2006 survey.

Common name	Scientific name	RM 16.9L			RM 19.0R			RM 19.4R			RM 22.7R			RM 33.0R			RM 33.3R			RM 43.7		
		Observed	Habitat present	Habitat present within 0.25 mi	Observed	Habitat present	Habitat present within 0.25 mi	Observed	Habitat present	Habitat present within 0.25 mi	Observed	Habitat present	Habitat present within 0.25 mi	Observed	Habitat present	Habitat present within 0.25 mi	Observed	Habitat present	Habitat present within 0.25 mi	Observed	Habitat present	Habitat present within 0.25 mi
Invertebrates																						
Valley elderberry longhorn beetle*	<i>Desmocerus californicus dimorphus</i>																					
Herpetofauna																						
Red-eared Slider	<i>Chrysemys scripta</i>				X	X		X	X													
Western pond turtle*	<i>Clemmys marmorata</i>					X			X						X	X						
Avifauna																						
Acorn woodpecker	<i>Melanerpes formicivorus</i>							X	X													
American goldfinch	<i>Carduelis tristis</i>				X	X					X	X										
American kestrel	<i>Falco sparverius</i>																					

Table B-3. Hypothesized timing of western pond turtle life stages along the Sacramento River. Source: Stillwater Sciences 2006¹.

Life stage	Month												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	
Construction Period (year 1)													Phase 1
Construction Period (year 2)	Phase 1					Phase 2							
Nesting													
Egg incubation													
Hatchling emergence – southern pattern													
Hatchling overwintering													
Hatchling emergence – northern pattern													
Juvenile growth and adult activity													
Juvenile and adult overwintering													
Juvenile and adult return movements to the river (Reese and Walsh 1997)													

¹ Stillwater Sciences. 2006. Sacramento River ecological flows study: State of the system report. Public Review draft. Prepared by Stillwater Sciences, Berkeley for The Nature Conservancy, California.

	Period of low activity
	Period of moderate activity
	Period of peak activity

Appendix C-1

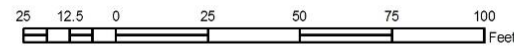
Maps of Existing Vegetation and Habitat Types



Legend

- Herbaceous
- Riparian forest
- Scrub shrub
- Riprap (unvegetated)
- Bare natural substrate
- Construction Footprint
- Upstream limit of erosion
- Downstream limit of erosion

Sources:
 Vegetation Survey: Stillwater Sciences, November 2006
 Imagery: NAIP 2006



**Sacramento River Bank Protection
 Vegetation Survey - Site RM 16.9L**











Nov. 27, 2006 / saa

Figure C1-1. Existing vegetation and habitat types at Site RM 16.9L.

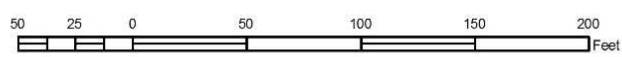


Legend

- | | |
|--|---|
|  Herbaceous |  Construction Footprint |
|  Riparian forest |  Upstream limit of erosion |
|  Scrub shrub |  Downstream limit of erosion |
|  Riprap (unvegetated) | |
|  Bare natural substrate | |

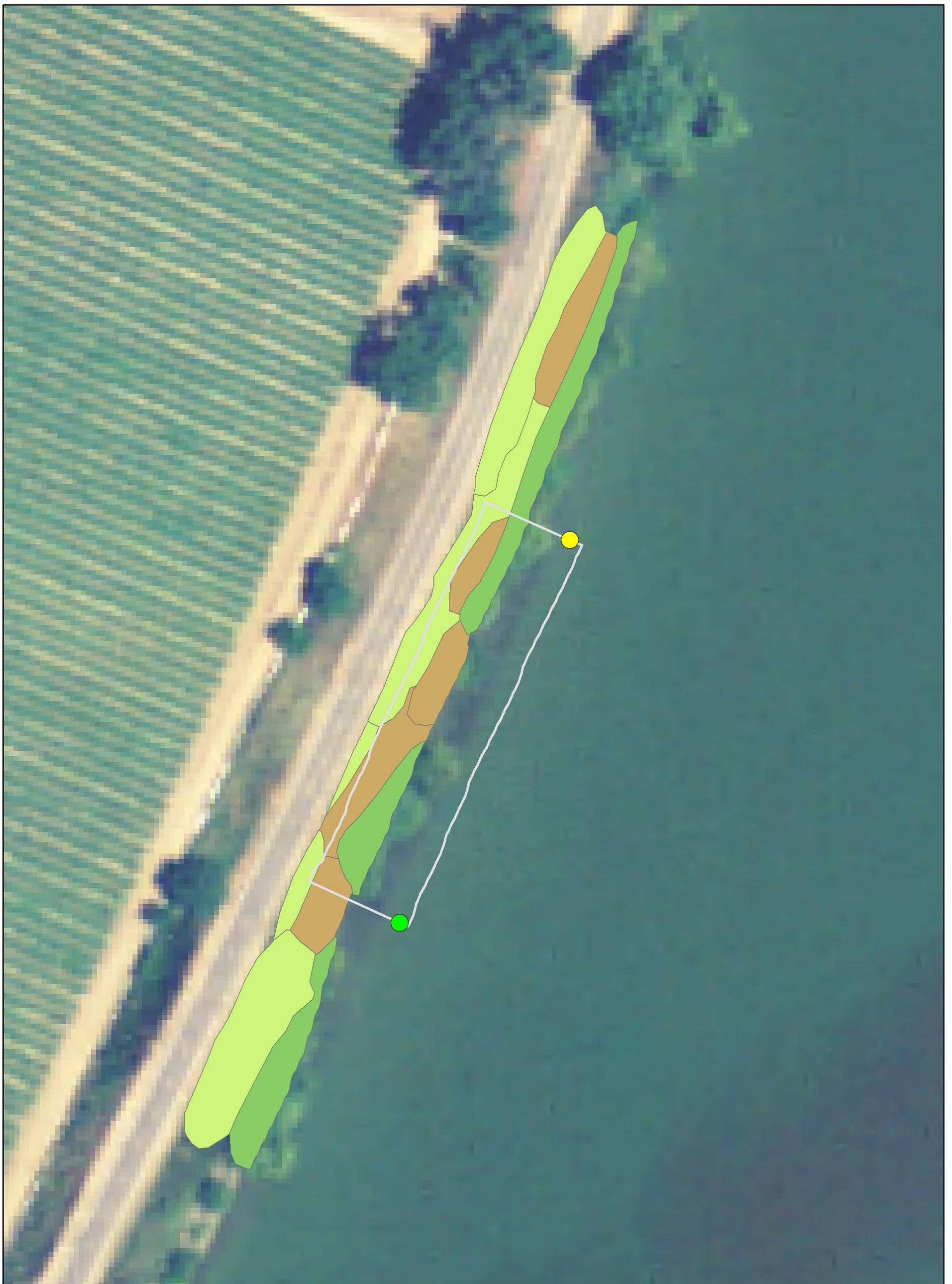
Sacramento River Bank Protection Vegetation Survey - Site RM 19R

Sources:
Vegetation Survey: Stillwater Sciences, November 2006
Imagery: NAIP 2006












Stillwater Sciences
Nov. 27, 2006 / saa

Figure C1-2. Existing vegetation and habitat types at Site RM 19.0R.

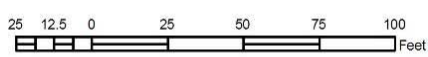


Legend

- | | |
|--|---|
|  Herbaceous |  Construction Footprint |
|  Riparian forest |  Upstream limit of erosion |
|  Scrub shrub |  Downstream limit of erosion |
|  Riprap (unvegetated) | |
|  Bare natural substrate | |

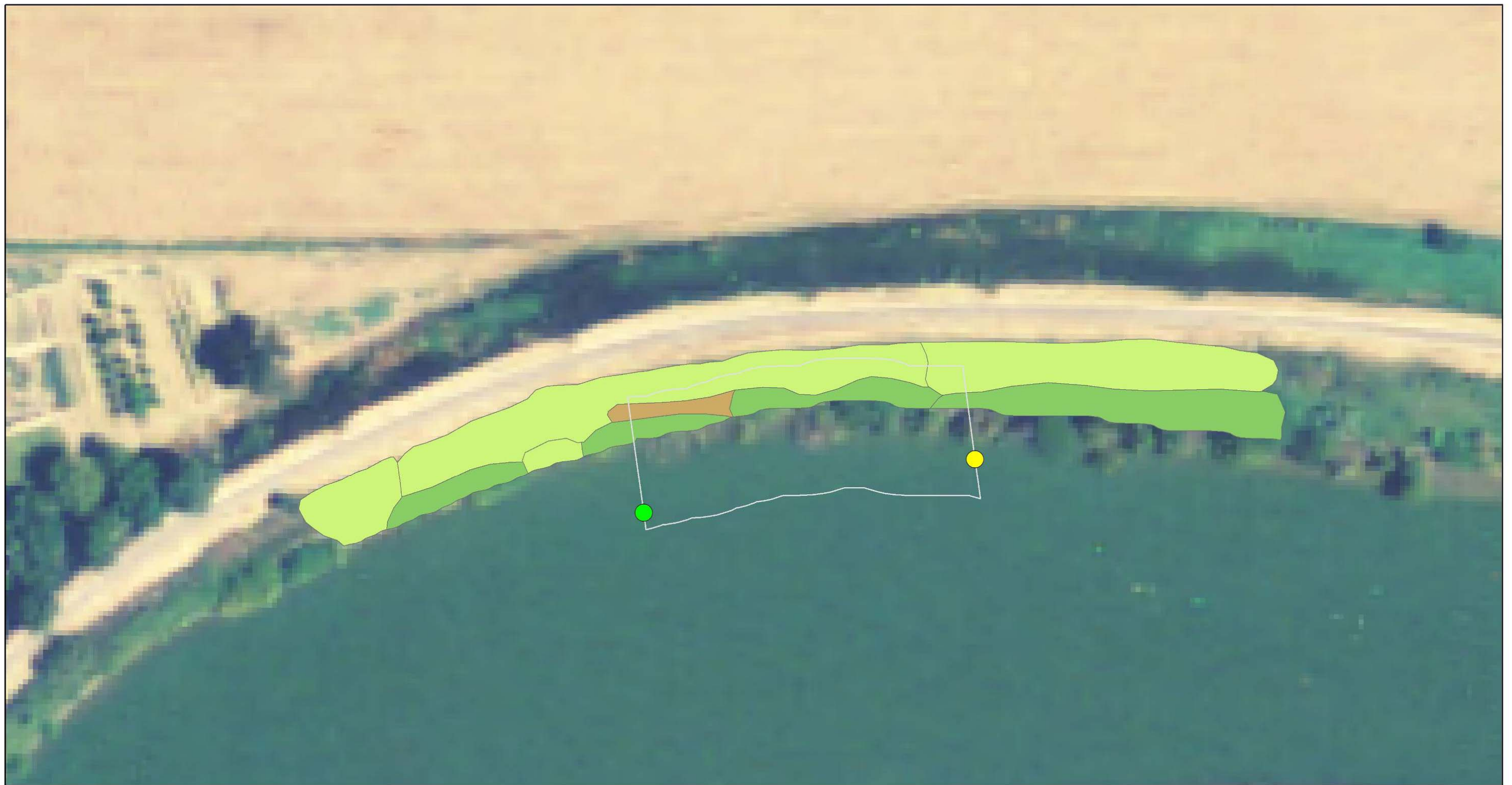
Sacramento River Bank Protection Vegetation Survey - Site RM 19.4R

Sources:
Vegetation Survey: Stillwater Sciences, November 2006
Imagery: NAIP 2006











Stillwater Sciences
Nov. 27, 2006 / saa

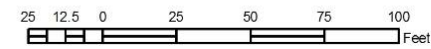
Figure C1-3. Existing vegetation and habitat types at Site RM 19.4R.



Legend

 Herbaceous	 Construction Footprint
 Riparian forest	 Upstream limit of erosion
 Scrub shrub	 Downstream limit of erosion
 Riprap (unvegetated)	
 Bare natural substrate	

Sources:
 Vegetation Survey: Stillwater Sciences, November 2006
 Imagery: NAIP 2006



Sacramento River Bank Protection
 Vegetation Survey - Site RM 22.7R











Nov. 27, 2006 / saa

Figure C1-4. Existing vegetation and habitat types at Site RM 22.7R.

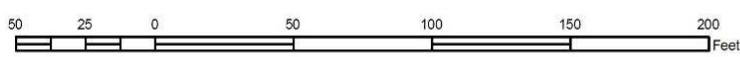


Legend

- | | | | |
|---|------------------------|---|-----------------------------|
|  | Herbaceous |  | Construction Footprint |
|  | Riparian forest |  | Upstream limit of erosion |
|  | Scrub shrub |  | Downstream limit of erosion |
|  | Riprap (unvegetated) | | |
|  | Bare natural substrate | | |

Sacramento River Bank Protection Vegetation Survey - Site RM 33R

Sources:
Vegetation Survey: Stillwater Sciences, November 2006
Imagery: NAIP 2006












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Figure C1-5. Existing vegetation and habitat types at Site RM 33.0R.

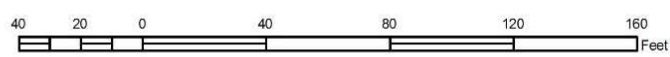


Legend

- | | |
|--|---|
|  Herbaceous |  Construction Footprint |
|  Riparian forest |  Upstream limit of erosion |
|  Scrub shrub |  Downstream limit of erosion |
|  Riprap (unvegetated) | |
|  Bare natural substrate | |

Sacramento River Bank Protection Vegetation Survey - Site RM 33.3R

Sources:
Vegetation Survey: Stillwater Sciences, November 2006
Imagery: NAIP 2006












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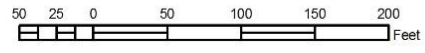
Figure C1-6. Existing vegetation and habitat types at Site RM 33.3R.



Legend

 Herbaceous	 Construction Footprint
 Riparian forest	 Upstream limit of erosion
 Scrub shrub	 Downstream limit of erosion
 Riprap (unvegetated)	
 Bare natural substrate	

Sources:
 Vegetation Survey: Stillwater Sciences, November 2006
 Imagery: NAIP 2006



**Sacramento River Bank Protection
 Vegetation Survey - Site RM 43.7R**



Nov. 27, 2006 / saa

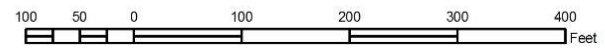
Figure C1-7. Existing vegetation and habitat types at Site RM 43.7R.



Legend

Herbaceous	Construction Footprint
Riparian forest	Upstream limit of erosion
Scrub shrub	Downstream limit of erosion
Riprap (unvegetated)	
Bare natural substrate	
Elderberry Clump	

Sources:
 Vegetation Survey: Stillwater Sciences, November 2006
 Imagery: NAIP 2006



Sacramento River Bank Protection
 Vegetation Survey - Site RM 44.7R

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Figure C1-8. Existing vegetation and habitat types at Site RM 44.7R. Elderberry clumps correspond to data presented in Appendix C2.



Legend

- | | |
|--|---|
|  Herbaceous |  Construction Footprint |
|  Riparian forest |  Upstream limit of erosion |
|  Scrub shrub |  Downstream limit of erosion |
|  Riprap (unvegetated) | |
|  Bare natural substrate | |
|  Elderberry Clump | |

Sacramento River Bank Protection Vegetation Survey - Site RM 47L

Sources:
Vegetation Survey: Stillwater Sciences, November 2006
Imagery: NAIP 2006

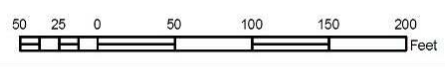











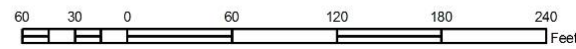
Figure C1-9. Existing vegetation and habitat types at Site RM 47.0L. Elderberry clumps correspond to data presented in Appendix C2.



Legend

- | | |
|--|---|
|  Herbaceous |  Construction Footprint |
|  Riparian forest |  Upstream limit of erosion |
|  Scrub shrub |  Downstream limit of erosion |
|  Riprap (unvegetated) | |
|  Bare natural substrate | |
|  Elderberry Clump | |

Sources:
 Vegetation Survey: Stillwater Sciences, November 2006
 Imagery: NAIP 2006



**Sacramento River Bank Protection
 Vegetation Survey - Site RM 47.9R**



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Figure C1-10. Existing vegetation and habitat types at Site RM 47.9R. Elderberry clumps correspond to data presented in Appendix C2.



Site RM 48.2R

Site RM 47.9R

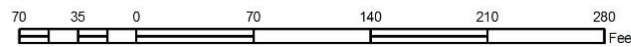
8

7

Legend

- Herbaceous
- Riparian forest
- Scrub shrub
- Riprap (unvegetated)
- Bare natural substrate
- Elderberry Clump
- Construction Footprint
- Upstream limit of erosion
- Downstream limit of erosion

Sources:
Vegetation Survey: Stillwater Sciences, November 2006
Imagery: NAIP 2006



**Sacramento River Bank Protection
Vegetation Survey - Site RM 48.2R**











Nov. 27, 2006 / saa

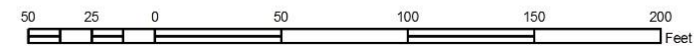
Figure C1-11. Existing vegetation and habitat types at Site RM 48.2R. Elderberry clumps correspond to data presented in Appendix C2.



Legend

 Herbaceous	 Construction Footprint
 Riparian forest	 Upstream limit of erosion
 Scrub shrub	 Downstream limit of erosion
 Riprap (unvegetated)	
 Bare natural substrate	

Sources:
 Vegetation Survey: Stillwater Sciences, November 2006
 Imagery: NAIP 2006



Sacramento River Bank Protection
 Vegetation Survey - Site RM 62.5R



Nov. 27, 2006 / saa










Figure C1-12. Existing vegetation and habitat types at Site RM 62.5R.



Figure C1-13. Existing vegetation and habitat types at Site RM 68.9L.



Legend

- | | |
|--|---|
|  Herbaceous |  Construction Footprint |
|  Riparian forest |  Upstream limit of erosion |
|  Scrub shrub |  Downstream limit of erosion |
|  Riprap (unvegetated) | |
|  Bare natural substrate | |
|  Tamarisk | |

Sacramento River Bank Protection Vegetation Survey - Site RM 78L

Sources:
Vegetation Survey: Stillwater Sciences, November 2006
Imagery: NAIP 2006

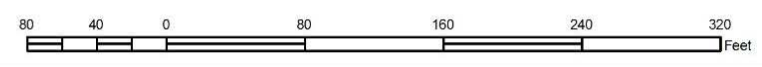


Figure C1-14. Existing vegetation and habitat types at Site RM 78.0L. Locations of non-native invasive tamarisk or salt cedar (*Tamarix ramosissima*) are also shown.

Appendix C-2

Summary of elderberry shrub survey results

Appendix C-2. Summary of elderberry shrub survey results
 (surveys conducted between 7 and 14 November 2006).

Site (RM)	Mapped clump ID	Shrub ID number	Number of stems by stem diameter at ground level			Exit holes present?	Shrub located in riparian habitat?	Shrub within Project footprint	Shrub within 100 ft of footprint	Shrub outside of 100 ft buffer
			≥ 1– ≤ 3 in	> 3– < 5 in	≥ 5 in					
44.7R	1	1		1		no	yes	no	no	yes
44.7R	1	2			1	no	yes	no	no	yes
44.7R	1	3		2		no	yes	no	no	yes
44.7R	1	4	1			no	yes	no	no	yes
44.7R	1	5	3			no	yes	no	no	yes
44.7R	1	6	1			no	yes	no	no	yes
44.7R	1	7	1			no	yes	no	no	yes
44.7R	1	8			1	no	yes	no	no	yes
44.7R	1	9	2			no	yes	no	no	yes
44.7R	1	10		1		no	yes	no	no	yes
44.7R	1	11	1			no	yes	no	no	yes
44.7R	1	12	1	1		no	yes	no	no	yes
44.7R	1	13		1		no	yes	no	no	yes
44.7R	1	14	1	1		no	yes	no	no	yes
44.7R	1	15	2			no	yes	no	no	yes
44.7R	2	16	2	1		no	yes	no	yes	no
44.7R	2	17	2			no	yes	no	yes	no
44.7R	2	18	1			no	yes	no	yes	no
44.7R	2	19	2		1	no	yes	no	yes	no
44.7R	2	20	1			no	yes	no	yes	no
44.7R	2	21	1			no	yes	no	yes	no
44.7R	2	22	1			no	yes	no	yes	no
44.7R	2	23	2			no	yes	no	yes	no
44.7R	2	24	1			no	yes	no	yes	no
44.7R	2	25	2			no	yes	no	yes	no
44.7R	2	26			1	no	yes	no	yes	no
44.7R	2	27	1			no	yes	no	yes	no
44.7R	3	28	2			no	yes	no	yes	no
44.7R	3	29		1		no	yes	no	yes	no
44.7R	3	30	2			no	yes	no	yes	no
44.7R	3	31	1			no	yes	no	yes	no
44.7R	3	32	1			no	yes	no	yes	no
44.7R	3	33	1			no	yes	no	yes	no
44.7R	3	34	1			no	yes	no	yes	no
44.7R	3	35	1			no	yes	no	yes	no
44.7R	3	36	6	1	2	no	yes	no	yes	no
44.7R	3	37	1		1	no	yes	no	yes	no

Site (RM)	Mapped clump ID	Shrub ID number	Number of stems by stem diameter at ground level			Exit holes present?	Shrub located in riparian habitat?	Shrub within Project footprint	Shrub within 100 ft of footprint	Shrub outside of 100 ft buffer
			≥ 1– ≤ 3 in	> 3– < 5 in	≥ 5 in					
44.7R	3	38	2			no	yes	no	yes	no
44.7R	3	39	1			no	yes	no	yes	no
44.7R	3	40	1			no	yes	no	yes	no
44.7R	3	41	4			no	yes	no	yes	no
44.7R	3	42	2			no	yes	no	yes	no
44.7R	3	43	1			no	yes	no	yes	no
44.7R	3	44	1			no	yes	no	yes	no
44.7R	3	45	3			no	yes	no	yes	no
44.7R	3	46	3			no	yes	no	yes	no
44.7R	3	47	2			no	yes	no	yes	no
44.7R	3	48	1			no	yes	no	yes	no
44.7R	3	49	2			no	yes	no	yes	no
44.7R	3	50	1			no	yes	no	yes	no
44.7R	3	51	1			no	yes	no	yes	no
44.7R	3	52	2			no	yes	no	yes	no
44.7R	3	53	1			no	yes	no	yes	no
44.7R	3	54	1			no	yes	no	yes	no
44.7R	3	55	1			no	yes	no	yes	no
44.7R	3	56	1			no	yes	no	yes	no
44.7R	3	57	1			no	yes	no	yes	no
44.7R	3	58	2			no	yes	no	yes	no
44.7R	3	59	1			no	yes	no	yes	no
44.7R	3	60	1			no	yes	no	yes	no
44.7R	3	61	1			no	yes	no	yes	no
44.7R	3	62	1			no	yes	no	yes	no
44.7R	3	63	1			no	yes	no	yes	no
44.7R	3	64	4			no	yes	no	yes	no
44.7R	3	65	2			no	yes	no	yes	no
44.7R	3	66	3			no	yes	no	yes	no
44.7R	3	67			1	no	yes	no	yes	no
44.7R	3	68	1			no	yes	no	yes	no
44.7R	3	69	1			no	yes	no	yes	no
44.7R	3	70	2			no	yes	no	yes	no
44.7R	3	71	1			no	yes	no	yes	no
44.7R	3	72	1			no	yes	no	yes	no
44.7R	4	73	3			no	yes	no	yes	no
44.7R	4	74	2	1		no	yes	no	yes	no
44.7R	4	75		1		no	yes	no	yes	no
44.7R	4	76	1			no	yes	no	yes	no

Site (RM)	Mapped clump ID	Shrub ID number	Number of stems by stem diameter at ground level			Exit holes present?	Shrub located in riparian habitat?	Shrub within Project footprint	Shrub within 100 ft of footprint	Shrub outside of 100 ft buffer
			≥ 1– ≤ 3 in	> 3– < 5 in	≥ 5 in					
44.7R	4	77	1			no	yes	no	yes	no
44.7R	4	78	1			no	yes	no	yes	no
44.7R	4	79	1			no	yes	no	yes	no
44.7R	4	80	1			no	yes	no	yes	no
44.7R	4	81	1			no	yes	no	yes	no
44.7R	4	82	1			no	yes	no	yes	no
44.7R	4	83	1			no	yes	no	yes	no
44.7R	4	84	1			no	yes	no	yes	no
44.7R	4	85	1			no	yes	no	yes	no
44.7R	4	86	2			no	yes	no	yes	no
44.7R	4	87	2			no	yes	no	yes	no
47.0L	5	1	1			no	yes	no	yes	no
47.0L	5	2	1			no	yes	no	yes	no
47.0L	5	3	1			no	yes	no	yes	no
47.0L	5	4	3			no	yes	no	yes	no
47.0L	5	5	1			no	yes	no	yes	no
47.0L	5	6	1			no	yes	no	yes	no
47.0L	5	7	3			no	yes	no	yes	no
47.0L	5	8	2			no	yes	no	yes	no
47.9R	6	1	2			no	yes	yes	no	no
47.9R	6	2	2			no	yes	yes	no	no
47.9R	6	3	3			no	yes	yes	no	no
48.2R	7	1	1			no	yes	no	yes	no
48.2R	7	2	1			no	yes	no	yes	no
						yes - old; need to verify in Spring				
48.2R	8	3		1	1		yes	yes	yes	no
48.2R	8	4			1	no	yes	yes	yes	no
48.2R	8	5		1	1	no	yes	yes	yes	no
48.2R	8	6		1		no	yes	yes	yes	no

Appendix C-3

Baseline tree survey data for all Project sites

Appendix C-3. Baseline tree survey data for all Project sites (November 2006)

Scientific name	Northing	Easting	Number trunks	DBH (in)	Dripline diameter max X (ft)	Dripline diameter max Y (ft)	Mean dripline diameter (ft)	Est. Height (ft)	Notes, tree health, general condition (i.e., vigor)
Alnus rhombifolia	1821319.661	6672127.259	-	-	20	20	20	15-20	
Alnus rhombifolia	1821318.996	6672106.646	-	-	20	10	15	15-20	
Alnus rhombifolia	1821319.661	6672085.368	-	-	20	10	15	15-20	
Platanus racemosa	1821382.164	6671693.125	-	-	10	15	12.5	10	
Fraxinus latifolia	1821354.237	6671875.25	1	6	8	10	9	12	fair
Quercus agrifolia	1821311.302	6672027.04	2	12,18	36	30	33	25	
Quercus lobata	1821346.974	6671790.957	1	9	20	18	19	30	
Quercus agrifolia	1821353.368	6671780.812	1	9	25	15	20	30	
Quercus agrifolia	1821349.096	6671791.291	1	4	10	12	11	20	
Quercus agrifolia	1821347.69	6671807.848	1	12	35	17	26	35	
Quercus agrifolia	1821344.289	6671805.125	1	20	28	15	21.5	30	
Quercus lobata	1821353.865	6671825.896	1	6	20	10	15	15	
Alnus rhombifolia	1821353.907	6671830.4	3	8,8,6	20	25	22.5	25	
Alnus rhombifolia	1821351.033	6671835.576	7	6,6,4,5,5,10	40	30	35	35	
Quercus agrifolia	1821377.816	6671589.79	4	15,13,5,5,9	29	33	31	20	
Quercus agrifolia	1821371.696	6671671.035	1	30	42	41	41.5	30	
Quercus agrifolia	1821351.82	6671773.253	1	18	28	26	27	35	
Quercus agrifolia	1821353.532	6671765.659	1	8	15	15	15	20	
Quercus agrifolia	1821359.932	6671753.202	1	4	13	10	11.5	12	
Quercus agrifolia	1840437.595	6674284.259	2	13,8	15	25	20	22	
Juglans regia	1840424.169	6674326.215	1	9	10	20	15	28	
Alnus rhombifolia	1840430.043	6674341.319	4	5,10,10,5	12	28	20	20	
Fraxinus latifolia	1840548.358	6674423.552	2	10,6	12	18	15	25	
Fraxinus latifolia	1840556.749	6674432.783	2	5,6	15	10	12.5	20	
Alnus rhombifolia	1840576.049	6674429.426	1	8	12	12	12	28	
Fraxinus latifolia	1840575.209	6674438.656	3	12,10,8	20	15	17.5	25	
Fraxinus latifolia	1840609.613	6674448.726	4	5,12,10,4	22	20	21	30	
Alnus rhombifolia	1840615.487	6674461.312	3	6,6,4	10	12	11	20	
Alnus rhombifolia	1840630.591	6674462.152	1	10	10	20	15	25	
Alnus rhombifolia	1840621.361	6674473.06	5	8	10	22	16	28	
Alnus rhombifolia	1840638.982	6674483.129	1	12	8	15	11.5	15	
Alnus rhombifolia	1840657.443	6674499.912	1	10	22	10	16	10	
Alnus rhombifolia	1840711.146	6674547.741	1	6	10	5	7.5	18	
Alnus rhombifolia	1840821.489	6674655.148	6	4	10	12	11	18	
Alnus rhombifolia	1840832.398	6674669.413	1	8	5	5	5	10	
Salix goodingii	1840917.148	6674742.415	2	5,12	20	10	15	20	
Alnus rhombifolia	1840930.574	6674754.163	4	5,8,6,8	8	8	8	12	

Scientific name	Northing	Easting	Number trunks	DBH (in)	Dripline diameter max X (ft)	Dripline diameter max Y (ft)	Mean dripline diameter (ft)	Est. Height (ft)	Notes, tree health, general condition (i.e., vigor)
Acer negundo	1841031.268	6674830.522	1	6	8	5	6.5	23	
Fraxinus latifolia	1841120.214	6674902.686	1	5	10	10	10	20	
Juglans regia	1841136.157	6674919.468	1	7	12	22	17	23	
Acer negundo	1841150.422	6674916.951	1	5	10	10	10	22	
Alnus rhombifolia	1840682.624	6674498.124	2	10,18	15	20	17.5	25	
Alnus rhombifolia	1840707.313	6674524.853	4	10,8,8,8	12	15	13.5	22	
Alnus rhombifolia	1840709.741	6674526.522	1	8	12	12	12	22	
Alnus rhombifolia	1840711.446	6674530.612	2	8.5,12	15	10	12.5	25	
Alnus rhombifolia	1840732.985	6674545.149	2	20,10	18	15	16.5	25	
Alnus rhombifolia	1840739.585	6674557.646	2	12,6	10	15	12.5	15	
Fraxinus latifolia	1840742.442	6674557.664	1	10	15	10	12.5	23	
Alnus rhombifolia	1840742.625	6674573.055	7	10	15	20	17.5	15	
Alnus rhombifolia	1840755.969	6674583.475	3	10,8,8	25	20	22.5	18	
Alnus rhombifolia	1840854.399	6674682.585	4	4,20,12,10	20	15	17.5	20	
Alnus rhombifolia	1840856.269	6674685.594	7	7.5	10	12	11	18	
Alnus rhombifolia	1840945.476	6674745.022	2	20,18	18	10	14	15	
Acer negundo	1841008.739	6674803.622	3	6	10	20	15	28	
Alnus rhombifolia	1842229.042	6675489.878	8	15,5,5,5,10,10,8,8	25	30	27.5	25	
Alnus rhombifolia	1841970.834	6675380.246	7	10,10,12,7, 5,9,6	30	15	22.5	35	
Fraxinus latifolia	1841955.431	6675387.355	4	6,8,8,7.5	20	20	20	20	
Alnus rhombifolia	1842175.808	6675472.662	2	18,10	30	25	27.5	25	
Alnus rhombifolia	1842211.353	6675492.804	2	12,9	35	20	27.5	20	
Fraxinus latifolia	1842396.957	6675560.732	1	7	5	5	5	10	
Alnus rhombifolia	1842403.266	6675561.217	1	8	10	8	9	15	
Fraxinus latifolia			1	8	10	8	9	20	
Acer negundo	1842413.462	6675538.02	1	4	5	10	7.5	15	
Alnus rhombifolia	1842458.618	6675577.567	1	5	10	10	10	30	
Alnus rhombifolia	1842451.163	6675575.553	6	8,8,12,7,6,5	20	35	27.5	25	
Alnus rhombifolia	1842437.921	6675569.638	4	6,9,9,5	15	20	17.5	25	
Alnus rhombifolia	1842428.869	6675564.512	5	7,6,6,4,8	22	15	18.5	20	
Alnus rhombifolia	1842419.047	6675559.037	2	4,5	10	12	11	20	
Alnus rhombifolia	1842410.123	6675554.162	2	15,5	15	22	18.5	20	
Alnus rhombifolia	1842401.283	6675552.153	3	10,8,6	20	20	20	35	
Alnus rhombifolia	1842394.212	6675552.47	3	4,8,6	20	10	15	12	
Alnus rhombifolia	1842383.572	6675547.92	5	4,5,7,6,12	15	20	17.5	15	
Fraxinus latifolia	1842353.061	6675534.877	2	5,4	15	25	20	15	
Alnus rhombifolia	1842346.289	6675532.05	6	6,8,6,10,8, 11	20	35	27.5	15	

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Alnus rhombifolia	1842339.481	6675528.298	2	8,8	20	15	17.5	10	
Alnus rhombifolia	1842325.451	6675518.013	1	6	5	10	7.5	15	
Platanus racemosa	1842318.086	6675520.41	1	14	15	25	20	30	
Alnus rhombifolia	1842283.761	6675506.821	2	8,15	25	20	22.5	10	
Alnus rhombifolia	1842315.094	6675514.026	3	16,20,8	25	30	27.5	25	
Alnus rhombifolia	1842309.339	6675508.833	1	2	5	5	5	6	
Alnus rhombifolia	1842276.833	6675502.514	5	5,5,5,5,7.5	20	20	20	20	
Alnus rhombifolia	1842240.856	6675478.891	2	8,8	15	10	12.5	20	
Alnus rhombifolia	1842156.042	6675435.776	2	8,6	20	15	17.5	20	
Alnus rhombifolia	1842152.286	6675435.149	5	8,8,6,6,5	25	15	20	20	
Alnus rhombifolia	1842140.852	6675434.672	1	10	15	15	15	20	
Alnus rhombifolia	1842189.268	6675457.954	5	20,20,20,9,?	25	40	32.5	30	
Alnus rhombifolia	1842175.311	6675450.84	1	11	20	20	20	30	
Platanus racemosa	1842165.806	6675441.746	1	20	15	25	20	50	
Fraxinus latifolia	1842088.394	6675419.274	3	10,8,6	10	20	15	20	
Acer negundo	1842065.427	6675414.209	1	7.5	10	10	10	20	
Acer negundo	1841989.637	6675377.604	2	18,12	35	25	30	30	
Fraxinus latifolia	1842042.897	6675405.821	1	6	15	20	17.5	20	
Acer negundo	1841992.134	6675380.299	4	8,9,6,12	15	15	15	30	
Fraxinus latifolia	1842034.664	6675402.631	1	5	5	5	5	15	
Fraxinus latifolia	1842031.429	6675398.239	1	7	10	15	12.5	20	
Fraxinus latifolia	1842007.225	6675388.73	1	11	10	15	12.5	20	
Fraxinus latifolia	1842018.262	6675391.816	1	7	20	15	17.5	35	
Fraxinus latifolia	1842006.697	6675390.378	1	8.5	10	20	15	40	
Fraxinus latifolia	1842015.011	6675392.445	2	5,2,6	5	10	7.5	15	
Alnus rhombifolia	1857698.564	6678605.646	3	8,7,4	15	25	20	30	
Alnus rhombifolia	1857700.126	6678610.505	1	6	10	20	15	15	
Alnus rhombifolia	1857695.075	6678620.031	3	5,5,5	10	20	15	25	
Alnus rhombifolia	1857698.488	6678635.06	2	6,6	15	12	13.5	20	
Alnus rhombifolia	1857696.581	6678652.575	1	8	10	10	10	20	
Alnus rhombifolia	1857712.746	6678656.717	5	5,5,5,8,?	10	25	17.5	25	
Alnus rhombifolia	1857711.737	6678667.917	3	20,10,10	12	30	21	20	
Alnus rhombifolia	1857713.257	6678669.315	4	5,8,5,12	15	35	25	25	
Alnus rhombifolia	1857704.477	6678703.361	2	4,6	10	12	11	30	
Alnus rhombifolia	1857710.551	6678721.652	1	8	10	15	12.5	22	
Alnus rhombifolia	1857709.518	6678731.404	2	10,8	10	25	17.5	10	
Acer negundo	1857716.639	6678743.827	2	6,8,	10	10	10	15	

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Acer negundo	1857708.192	6678753.174	1	7	10	12	11	20	
Alnus rhombifolia	1857716.39	6678773.345	4	8,8,12.5,10	15	30	22.5	20	
Alnus rhombifolia	1857712.476	6678780.201	2	10,10	20	25	22.5	25	
Alnus rhombifolia	1857711.602	6678792.396	4	40,10,8,8	25	30	27.5	35	
Fraxinus latifolia	1857710.582	6678813.637	5	12,12,8,6,10	40	25	32.5	40	
Alnus rhombifolia	1857711.064	6678834.638	2	10,9	30	15	22.5	25	
Alnus rhombifolia	1857709.805	6678838.804	3	20,12,11	35	20	27.5	30	
Fraxinus latifolia	1857706.38	6678861.032	3	8,12,14	40	25	32.5	25	
Robinia pseudoacacia	1876413.502	6682522.767	3	11,11,6	43	36	39.5	35	good
Robinia pseudoacacia	1876501.868	6682506.03	1	12	32	19	25.5	45	good
Robinia pseudoacacia	1876504.917	6682505.197	2	9,5	25	10	17.5	45	good
Robinia pseudoacacia	1876467.664	6682512.451	1	25	40	31	35.5	40	good
Robinia pseudoacacia	1876469.896	6682510.833	1	6	15	20	17.5	30	good
Robinia pseudoacacia	1876486.56	6682509.977	1	13	35	25	30	40	good
Robinia pseudoacacia	1876491.164	6682508.091	1	10	0	0	0	0	dead
Quercus agrifolia	1876490.918	6682504.108	1	17	35	22	28.5	30	good
Quercus agrifolia	1876265.63	6682546.806	1	20	38	44	41	40	good
Fraxinus latifolia	1878024.433	6682527.545	1	8	20	19	19.5	25	
Robinia pseudoacacia	1878199.522	6682544.266	1	6.5	35	30	32.5	45	
Robinia pseudoacacia	1878252.112	6682445.915	1	13	50	40	45	45	
Robinia pseudoacacia	1878326.22	6682546.936	1	29	37	31	34	50	
Robinia pseudoacacia	1878358.044	6682546.235	1	10	50	40	45	45	
Ornamental	1878632.215	6682597.472	1	12	24	23	23.5	20	
Robinia pseudoacacia	1878337.403	6682560.659	2	4, 4	20	20	20	25	
Robinia pseudoacacia	1878385.879	6682566.523	2	6,4	25	30	27.5	30	
Robinia pseudoacacia	1878388.976	6682562.506	2	8,6	30	35	32.5	40	
Robinia pseudoacacia	1878221.334	6682540.535	1	4	15	12	13.5	40	
Robinia pseudoacacia	1878227.092	6682538.931	1	4	8	8	8	30	
Robinia pseudoacacia	1878223.628	6682544.813	1	4	10	12	11	35	
Robinia pseudoacacia	1878215.287	6682547.262	1	4.5	20	25	22.5	40	
Robinia pseudoacacia	1878211.158	6682548.102	1	4	20	15	17.5	35	
Robinia pseudoacacia	1878204.125	6682543.375	1	4	20	15	17.5	30	
Robinia pseudoacacia	1878199.522	6682544.266	2	4, 4	30	25	27.5	40	
Robinia pseudoacacia	1878194.744	6682548.415	1	5	20	20	20	30	
Quercus lobata	1878079.681	6682506.475	6	3,3,3,3,4,5	23	19	21	25	
Quercus agrifolia	1878000.205	6682498.776	1	4	20	20	20	15	
Robinia pseudoacacia			4	8,8,7,7	40	30	35	45	

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Salix goodingii	1920930.583	6696965.565	1	5	35	15	25	15	
Salix goodingii	1920945.591	6697067.541	1	5.5	10	12	11	25	
Quercus lobata	1920927.768	6697449.581	1	4.5	10	17	13.5	30	
Fraxinus latifolia	1920935.44	6697468.466	4	10,8,7,12	25	12	18.5	35	
Quercus lobata	1920954.915	6697610.102	1	8.2	22	15	18.5	40	
Acer negundo	1920940.162	6697613.052	2	9,8	35	22	28.5	30	
Quercus lobata	1920869.344	6698101.697	1	8	25	15	20	30	
Salix goodingii	1920878.786	6698153.63	1	5	5	12	8.5	15	
Quercus lobata	1920859.901	6698291.135	1	8	20	15	17.5	30	
Platanus racemosa	1920871.704	6698281.102	1	5	12	12	12	35	
Quercus lobata	1920828.033	6698370.805	1	4	15	10	12.5	30	
Quercus lobata	1920854	6698429.82	1	4	10	5	7.5	20	
Quercus lobata	1920961.611	6697148.059	1	13	24	27	25.5	50	
Populus fremontii ssp. fremontii	1920955.564	6697554.953	5	12.5,8,10,8,5	32	27	29.5	45	
Fraxinus latifolia	1920852.054	6698269.645	2	9,4	10	15	12.5	15	
Populus fremontii ssp. fremontii	1920854.175	6698263.271	1	72	50	30	40	50	
Quercus agrifolia	1920875.742	6698247.692	1	18	30	35	32.5	50	
Populus fremontii ssp. fremontii	1920863.533	6698159.298	1	30	52	35	43.5	60	
Fraxinus latifolia	1920860.517	6698147.102	3	10,11,15	30	27	28.5	30	
Quercus lobata	1920902.528	6698035.597	1	10	15	10	12.5	40	
Acer negundo	1920902.528	6698035.597	4	8,10,12,17	25	20	22.5	35	
Quercus lobata	1920902.528	6698035.597	2	18,8	42	25	33.5	40	
Acer negundo	1920895.476	6697992.227	2	9,9	20	12	16	20	
Salix goodingii	1920880.56	6697994.71	1	10	5	15	10	10	
Populus fremontii ssp. fremontii	1920896.697	6697972.578	2	24,72	50	37	43.5	70	
Fraxinus latifolia			1	7.9	12	10	11	12	
Populus fremontii ssp. fremontii			2	36,15	40	25	32.5	55	
Salix goodingii	1920887.769	6697922.298	1	14	15	20	17.5	30	
Populus fremontii ssp. fremontii	1920900.889	6697893.337	1	40	35	20	27.5	60	
Quercus lobata	1920929.033	6697883.427	1	14.8	35	17	26	30	
Quercus lobata	1920927.908	6697877.379	1	13	50	21	35.5	35	
Quercus lobata	1920936.912	6697854.562	3	28,5,7	47	35	41	45	
Acer negundo	1920923.679	6697848.474	3	11,10,9	15	27	21	30	
Populus fremontii ssp. fremontii	1920916.533	6697840.627	2	27,12	40	25	32.5	70	
Populus fremontii ssp. fremontii	1920912.052	6697727.695	2	36,40	52	40	46	60	
Quercus lobata	1920930.048	6697692.926	3	7.4,15,14	45	32	38.5	40	
Acer negundo	1920938.767	6697674.983	5	5,55,6,7,13	35	20	27.5	25	

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Quercus lobata	1920940.194	6697654.274	2	15,10.8	53	39	46	50	
Quercus lobata	1920953.158	6697629.248	2	9,6	40	35	37.5	40	
Populus fremontii ssp. fremontii	1920926.158	6697625.146	1	36	32	19	25.5	50	
Populus fremontii ssp. fremontii	1920931.951	6697621.162	3	50,24,36	48	37	42.5	65	
Acer negundo	1920945.716	6697590.67	2	11.5,12	30	42	36	35	
Acer negundo	1920942.785	6697583.114	1	15	25	37	31	35	
Platanus racemosa	1920931.169	6697570.824	2	8,16	30	19	24.5	38	
Salix goodingii	1920931.214	6697564.355	2	6,7	10	8	9	12	
Quercus lobata	1920949.123	6697493.256	1	12	37	30	33.5	35	
Acer negundo	1920944.533	6697575.525	2	6,8	15	26	20.5	40	
Populus fremontii ssp. fremontii	1920930.069	6697482.303	1	36	30	23	26.5	65	
Populus fremontii ssp. fremontii	1920949.446	6697395.587	1	20	45	30	37.5	60	
Populus fremontii ssp. fremontii	1920932.768	6697366.481	2	14,10	22	36	29	55	
Populus fremontii ssp. fremontii	1920936.022	6697363.936	2	5,5	15	25	20	35	
Quercus lobata	1920946.698	6697332.645	1	7	10	15	12.5	20	
Quercus lobata	1920946.698	6697332.645	3	10,21,10	50	35	42.5	50	
Populus fremontii ssp. fremontii	1920933.277	6697293.083	1	96	43	35	39	55	
Quercus lobata	1920943.96	6697295.595	1	16	38	25	31.5	45	
Quercus lobata	1920942.564	6697268.755	1	30	30	45	37.5	50	
Fraxinus latifolia	1920923.268	6697238.171	1	14	25	15	20	12	
Populus fremontii ssp. fremontii	1920935.223	6697080.609	1	23	42	27	34.5	65	
Populus fremontii ssp. fremontii	1920955.479	6697101.219	2	30,6	5	10	7.5	12	
Populus fremontii ssp. fremontii	1920955.479	6697101.219	1	40	5	10	7.5	10	
Quercus lobata	1920955.479	6697101.219	1	14.3	40	25	32.5	45	
Acer negundo	1920949.899	6697136.889	1	15	35	52	43.5	40	
Acer negundo	1920954.076	6697145.99	1	13	20	32	26	30	
Quercus lobata	1920956.141	6697006.689	1	8	36	30	33	35	
Quercus lobata	1920943.651	6696986.444	1	12	45	25	35	30	
Quercus lobata	1920957.301	6697054.727	1	8	20	35	27.5	25	
Quercus agrifolia	1921205.565	6701690.855	1	5.5	15	13	14	18	
Quercus agrifolia	1921206.302	6701717.731	1	8	14	14	14	26	
Quercus agrifolia	1921300.184	6701899.605	1	5	16	12	14	20	
Populus fremontii ssp. fremontii	1921454.078	6702281.393	3	33,33,16	55	35	45	65	
Quercus agrifolia	1921866.32	6702815.353	2	8,10	20	15	17.5	20	
Salix goodingii	1921515.561	6702397.734	1	10	10	15	12.5	15	
Robinia pseudoacacia			2	8,10	0	0	0	30	snag, dead
Robinia pseudoacacia			1	13	0	0	0	45	snag, dead

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Quercus agrifolia	1921438.615	6702205.551	2	10, 15	25	32	28.5	33	
Quercus agrifolia	1921852.766	6702798.102	1	4.5	12	10	11	12	
Robinia pseudoacacia	1921605.762	6702480.203	1	7	12	8	10	30	
Robinia pseudoacacia	1921592.876	6702482.412	1	7	5	10	7.5	10	
Quercus agrifolia	1921735.018	6702660.117	2	15,20	10	15	12.5	25	
Quercus agrifolia	1921733.222	6702697.532	2	20,24	37	45	41	45	
Populus fremontii ssp. fremontii	1921909.523	6702901.072	1	36	42	40	41	75	
Acer negundo	1921951.727	6702998.052	4	8,10,12,14	30	25	27.5	25	
Quercus agrifolia	1922026.797	6703038.161	1	6.7	10	12	11	25	
Acer negundo	1922010.634	6703039.059	5	5,5,5,8,8	42	25	33.5	35	
Acer negundo	1922018.29	6703024.121	5	8,6,6,8,12	45	32	38.5	28	
Quercus agrifolia	1922018.29	6703024.121	1	50	45	39	42	60	
Acer negundo	1921962.467	6702993.963	3	8,8,2,9	15	37	26	25	
Populus fremontii ssp. fremontii	1921942.035	6702984.451	1	5	5	8	6.5	12	
Quercus lobata	1921971.202	6702965.039	1	16	20	35	27.5	45	
Quercus lobata	1921970.011	6702975.872	1	17	30	52	41	50	
Quercus agrifolia	1921918.674	6702911.851	1	20	52	37	44.5	55	
Quercus agrifolia	1921913.521	6702918.95	2	10.5, ?	48	42	45	60	
Juglans regia	1921894.27	6702899.551	1	15.4	15	35	25	65	
Quercus agrifolia	1921900.634	6702902.84	1	5	10	8	9	25	
Quercus agrifolia	1921870.126	6702870.172	7	12,12,20,10,24,26,10	45	57	51	60	
Quercus agrifolia	1921833.632	6702843.037	1	35	38	20	29	55	
Quercus agrifolia	1921819.389	6702815.101	1	28	43	50	46.5	65	
Quercus lobata	1921822.454	6702819.304	1	14.4	25	40	32.5	50	
Populus fremontii ssp. fremontii	1921827.416	6702816.635	2	65,20	35	20	27.5	65	
Quercus agrifolia	1921815.863	6702800.499	2	8,18	45	23	34	45	
Populus fremontii ssp. fremontii	1921800.736	6702785.964	4	20,18,25,70	55	40	47.5	70	
Populus fremontii ssp. fremontii	1921754.256	6702754.557	1	29	10	23	16.5	55	
Populus fremontii ssp. fremontii	1921767.149	6702737.17	1	90	25	30	27.5	80	
Populus fremontii ssp. fremontii	1921762.501	6702734.96	1	40	40	53	46.5	60	
Quercus lobata	1921745.311	6702718.549	1	9	10	25	17.5	35	
Quercus lobata	1921761.328	6702728.475	1	23	15	25	20	50	
Robinia pseudoacacia	1921753.9	6702713.792	1	9	10	12	11	20	
Quercus agrifolia	1921753.9	6702713.792	3	7.4,20,40	45	36	40.5	55	
Quercus agrifolia	1921749.363	6702700.085	1	5	10	10	10	20	
Quercus lobata	1921740.96	6702698.056	1	8.5	15	20	17.5	15	
Quercus agrifolia	1921749.848	6702690.635	1	50	60	35	47.5	55	

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Quercus agrifolia	1921738.604	6702690.584	1	10.8	20	15	17.5	25	
Quercus agrifolia	1921738.604	6702690.584	1	14.8	50	42	46	50	
Quercus lobata	1921739.234	6702673.071	2	30,9	20	40	30	30	
Quercus agrifolia	1921721.598	6702679.001	1	11	15	20	17.5	30	
Quercus agrifolia	1921720.01	6702658.362	3	40,25,20	42	35	38.5	55	
Quercus agrifolia	1921709.84	6702648.741	1	5.5	10	12	11	15	
Populus fremontii ssp. fremontii	1921670.217	6702627.935	2	40,38	33	47	40	70	
Quercus agrifolia	1921704.441	6702614.229	2	9.6,7.2	25	35	30	30	
Quercus lobata	1921682.503	6702623.212	1	15	10	25	17.5	35	
Populus fremontii ssp. fremontii	1921520.083	6702397.83	3	16,15,18	25	30	27.5	60	
Robinia pseudoacacia	1921524.71	6702393.37	1	8	20	25	22.5	30	
Populus fremontii ssp. fremontii	1921524.71	6702393.37	1	21.7	36	32	34	65	
Populus fremontii ssp. fremontii	1921517.442	6702383.385	1	26.7	43	30	36.5	65	
Quercus lobata	1921517.442	6702383.385	1	21	64	54	59	55	
Populus fremontii ssp. fremontii	1921490.349	6702334.468	1	43	57	51	54	60	
Populus fremontii ssp. fremontii	1921451.825	6702273.761	1	36	38	29	33.5	75	
Quercus lobata	1921462.885	6702280.198	1	8	18	12	15	18	
Populus fremontii ssp. fremontii	1921427.855	6702218.143	1	40	60	35.8	47.9	75-80	
Populus fremontii ssp. fremontii	1921427.105	6702209.741	1	30	55	37.5	46.25	75-80	
Populus fremontii ssp. fremontii	1921421.882	6702202.121	1	40	53	27	40	75	
Populus fremontii ssp. fremontii	1921416.022	6702198.035	3	30,25,26	50	26	38	75	
Quercus lobata	1921499.918	6702339.451	2	7.7,14.7	40	54	47	25	
Populus fremontii ssp. fremontii	1921410.525	6702180.365	3	33,6.5,18	25	35	30	75	
Quercus lobata	1921419.05	6702181.68	1	22	38	38	38	25	
Populus fremontii ssp. fremontii	1921530.381	6702403.182	2	8,29	10	12	11	50	
Unknown - dead/down	1921539.117	6702415.103	1	18	0	0	0	50	down/dead
Platanus racemosa	1921378.131	6702137.941	1	11.5	25	17	21	25	
Salix goodingii	1921378.131	6702137.941	1	12	20	23	21.5	25	
Salix goodingii	1921378.131	6702137.941	1	8.5	20	29	24.5	25	
Quercus lobata	1921547.376	6702435.725	1	4.5	20	10	15	25	
Populus fremontii ssp. fremontii	1921547.376	6702435.725	5	24,32,28,30,33	55	42	48.5	65	
Populus fremontii ssp. fremontii	1921386.703	6702113.571	1	45	47	45	46	85	
Quercus lobata	1921387.395	6702123.284	1	10	25	28	26.5	35	
Populus fremontii ssp. fremontii	1921555.531	6702446.74	1	55	40	55	47.5	55	
Populus fremontii ssp. fremontii	1921355.539	6702069.773	2	33,10	50	40	45	80	
Robinia pseudoacacia	1921589.057	6702487.371	1	6	10	10	10	30	almost dead
Quercus agrifolia	1921637.949	6702587.547	1	6.8	15	23	19	35	

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Fraxinus latifolia	1921328.645	6702033.779	3	9,6.5,7	16	38	27	20	
Salix goodingii	1921327.076	6702036.388	2	12,11	35	30	32.5	25	
Populus fremontii ssp. fremontii	1921644.217	6702592.538	3	24,27,50	45	32	38.5	65	
Quercus lobata	1921334.833	6702026.121	1	32	46	40	43	70	
Populus fremontii ssp. fremontii	1921651.378	6702597.731	1	55	26	39	32.5	50	
Quercus lobata	1921616.02	6702493.008	1	18	60	20	40	40	
Robinia pseudoacacia	1921621.619	6702486.412	2	7,10	30	25	27.5	35	
Robinia pseudoacacia	1921615.129	6702488.509	1	8.4	0	0	0	45	dead
Robinia pseudoacacia	1921612.437	6702476.492	1	6.6	15	20	17.5	50	
Robinia pseudoacacia	1921613.055	6702493.86	2	8.5	20	15	17.5	50	
Robinia pseudoacacia	1921605.168	6702499.077	2	9,10	0	0	0	45	dead
Quercus lobata	1921584.358	6702441.679	2	7.5,11.7	15	25	20	40	
Robinia pseudoacacia	1921577.414	6702433.022	1	8.8	20	10	15	35	
Quercus agrifolia	1921337.321	6701992.58	1	23	45	54	49.5	40	
Quercus lobata	1921302.196	6701965.528	1	15	31	36	33.5	32	
Populus fremontii ssp. fremontii	1921287.354	6701923.576	1	37	45	47	46	75	
Populus fremontii ssp. fremontii	1921274.211	6701914.106	1	28	35	38	36.5	60	
Platanus racemosa	1921280.478	6701910.672	3	15,15,14	56	42	49	55	
Populus fremontii ssp. fremontii	1921284.947	6701906.038	1	16	35	27	31	56	
Platanus racemosa	1921284.947	6701906.038	2	11,14	35	29	32	50	
Quercus lobata	1921273.436	6701897.618	1	30	37	32.7	34.85	40	
Cephalanthus occidentalis	1921256.409	6701872.397	1	6	8	10	9	8	
Fraxinus latifolia	1921256.409	6701872.397	1	10	15	21	18	23	
Salix goodingii	1921238.651	6701845.984	1	16	30	20	25	14	
Robinia pseudoacacia	1921255.447	6701828.24	1	13	44	14.5	29.25	35	down
Robinia pseudoacacia	1921273.394	6701869.606	2	8,11	35	25	30	30	
Robinia pseudoacacia	1921273.394	6701869.606	1	15	35	27.4	31.2	30	
Robinia pseudoacacia	1921257.479	6701824.207	1	6	45	18	31.5	30	
Robinia pseudoacacia	1921247.08	6701828.295	2	6,9	30	25	27.5	18	
Robinia pseudoacacia	1921261.882	6701852.795	3	8,14,12	28	42	35	40	
Populus fremontii ssp. fremontii	1921238.31	6701832.739	2	27,9	49	35	42	66	
Robinia pseudoacacia	1921251.257	6701833.003	1	6	32	17	24.5	26	
Robinia pseudoacacia	1921254.892	6701807.82	1	7	20	20	20	26	
Robinia pseudoacacia	1921254.562	6701797.52	2	6,5	28	27	27.5	53	
Robinia pseudoacacia	1921252.316	6701791.044	1	11.5	25	24	24.5	28	
Robinia pseudoacacia	1921237.461	6701791.407	1	4	12	26	19	19	
Robinia pseudoacacia	1921250.255	6701782.293	1	7	28	22	25	40	

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Populus fremontii ssp. fremontii	1921227.166	6701791.239	1	36	62	38	50	77	
Robinia pseudoacacia	1921245.587	6701779.369	1	7.5	23	19	21	50	
Robinia pseudoacacia	1921242.475	6701775.709	1	11	53	25	39	55	
Acer negundo	1921223.718	6701767.004	3	5,12,8.5	26	25	25.5	19	
Robinia pseudoacacia	1921236.239	6701767.62	1	12.5	41	31	36	50	
Quercus lobata	1921217.492	6701732.839	1	19	38	39	38.5	39	
Robinia pseudoacacia	1921244.891	6701768.315	1	7	40	30	35	12	
Populus fremontii ssp. fremontii	1921208.96	6701725.339	1	36	60	35	47.5	60	
Robinia pseudoacacia	1921215.719	6701713.168	1	5.5	34	20	27	29	
Populus fremontii ssp. fremontii	1921198.02	6701707.992	1	-	0	0	0	-	downed snag
Populus fremontii ssp. fremontii	1921192.582	6701693.695	1	35	31	42	36.5	75	
Populus fremontii ssp. fremontii	1921187.501	6701658.762	1	37	40	66	53	81	
Populus fremontii ssp. fremontii	1921184.254	6701652.693	1	18	27	42	34.5	33	
Populus fremontii ssp. fremontii	1921175.781	6701650.396	4	38,30,36,36	80	56	68	120	
Quercus lobata	1921166.344	6701629.274	1	10	23	19	21	26	
Alnus rhombifolia	1921179.393	6701632.149	1	26	38	45	41.5	56	
Alnus rhombifolia	1921172.625	6701632.961	1	17	29	23	26	19	
Populus fremontii ssp. fremontii	1921146.99	6701605.683	1	33	25	28.5	26.75	76	
Populus fremontii ssp. fremontii	1921146.99	6701605.683	1	51	74	59.5	66.75	80	
Fraxinus latifolia	1921137.73	6701589.955	1	15	25	18	21.5	29	
Quercus lobata	1921162.214	6701587.201	1	3.5	15.6	12.8	14.2	15	
Populus fremontii ssp. fremontii	1921138.963	6701574.534	1	42	32	24	28	74	
Populus fremontii ssp. fremontii	1921150.992	6701561.271	1	9	30	12	21	39	mistletoe
Quercus agrifolia	1921777.425	6702727.86	2	15,30	20	30	25	70	
Robinia pseudoacacia	1921640.357	6702524.359	1	7	0	0	0	15	dead
Robinia pseudoacacia	1921637.95	6702530.671	1	9	20	15	17.5	45	
Robinia pseudoacacia	1921631.778	6702515.824	1	5	0	0	0	20	dead
Robinia pseudoacacia	1921629.689	6702509.85	2	6.5,8.5	0	0	0	40	dead
Robinia pseudoacacia	1921623.036	6702505.621	1	8.4	10	15	12.5	40	
Robinia pseudoacacia	1921623.036	6702505.621	1	7.8	12	20	16	30	lots of grape vines
Quercus lobata	1932589.067	6703806.942	1	12.5	20	40	30	38	mistletoe, cavity at breast height
Populus fremontii ssp. fremontii	1932625.046	6703738.41	2	19.8,20	10	20	15	50	
Populus fremontii ssp. fremontii	1932621.62	6703759.826	1	19.5	20	10	15	30	
Quercus lobata	1932893.176	6703759.826	1	18	40	30	35	40	
Quercus lobata	1932918.019	6703784.669	1	4.5	10	10	10	15	
Quercus lobata	1932779.881	6703797.47	1	12.3	30	20	25	40	
Quercus lobata	1932806.465	6703802.688	1	14.5	30	30	30	40	

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Quercus lobata	1932870.474	6703782.925	2	16,16.2	50	40	45	45	
Salix goodingii	1932862.705	6703738.61	1	36	40	20	30	40	
Salix goodingii	1932867.025	6703740.102	1	40	20	50	35	60	
Salix goodingii	1932871.723	6703739.888	1	18	15	30	22.5	30	
Salix goodingii	1932892.544	6703742.436	1	30	20	20	20	25	
Populus fremontii ssp. fremontii	1932912.586	6703746.141	1	7	10	10	10	20	
Populus fremontii ssp. fremontii	1932968.117	6703736.89	1	7.5	15	20	17.5	20	
Populus fremontii ssp. fremontii	1933008.522	6703730.119	1	40	20	15	17.5	60	
Populus fremontii ssp. fremontii	1933012.805	6703728.796	1	36	20	20	20	50	
Quercus lobata	1933034.676	6703733.713	1	12.2	20	40	30	20	leaning
Fraxinus latifolia	1933034.676	6703733.713	4	10.3,7,12,5.5	25	40	32.5	30	
Populus fremontii ssp. fremontii	1933034.676	6703733.713	3	32,40,50	40	60	50	50	
Quercus lobata	1933041.935	6703775.854	1	21.5	20	50	35	30	
Robinia pseudoacacia	1932763.165	6703790.413	2	11.1,10.2	20	15	17.5	35	mistletoe
Robinia pseudoacacia	1932742.341	6703797.189	1	11	20	30	25	45	
Robinia pseudoacacia	1932739.485	6703793.032	1	15.2	15	30	22.5	45	
Robinia pseudoacacia	1932727.592	6703793.077	1	11.2	10	20	15	50	
Robinia pseudoacacia	1932720.2	6703789.485	1	12	10	15	12.5	40	
Robinia pseudoacacia	1932717.151	6703793.013	1	11.8	40	10	25	50	
Robinia pseudoacacia	1932712.572	6703789.748	2	11.7,12.8	20	15	17.5	40	11.7 in trunk dying
Robinia pseudoacacia	1932708.911	6703794.189	2	11.4,7.4	8	10	9	35	
Robinia pseudoacacia	1932703.43	6703796.94	1	8	10	10	10	25	
Robinia pseudoacacia	1932702.477	6703794.267	1	6.8	8	10	9	20	
Robinia pseudoacacia	1932679.889	6703788.694	2	9.5,9.5	10	10	10	20	
Populus fremontii ssp. fremontii	1932671.987	6703758.1	2	24,19.7	20	20	20	35	
Populus fremontii ssp. fremontii	1932757.612	6703738.966	3	28,13.5,20	25	10	17.5	60	28 in trunk fallen into river
Populus fremontii ssp. fremontii	1932732.474	6703756.641	3	27,12,25	20	40	30	60	2 trunks recently fallen (25 and 12 in dbh)
Populus fremontii ssp. fremontii	1932806.652	6703738.049	1	18.1	10	8	9	55	dead top
Populus fremontii ssp. fremontii	1932815.96	6703731.875	1	18.2	25	10	17.5	50	
Populus fremontii ssp. fremontii	1932813.166	6703738.13	1	13.5	10	10	10	30	
Populus fremontii ssp. fremontii	1933114.367	6703722.625	4	55,32,25,30	60	40	50	50	
Salix goodingii	1933171.452	6703721.958	1	30	40	20	30	30	
Populus fremontii ssp. fremontii	1933203.174	6703717.11	1	60	20	50	35	60	
Populus fremontii ssp. fremontii	1933275.991	6703700.344	1	25	20	30	25	30	
Populus fremontii ssp. fremontii	1933287.609	6703702.487	1	23	20	30	25	50	
Populus fremontii ssp. fremontii	1933302.095	6703714.835	2	31.5,28.5	20	60	40	50	burnt at fork
Populus fremontii ssp. fremontii	1933323.708	6703684.558	1	23.2	0	0	0	20	snag, no crown

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Populus fremontii ssp. fremontii	1933328.165	6703688.642	1	27	50	50	50	30	
Populus fremontii ssp. fremontii	1933333.356	6703693.536	1	37.6	40	30	35	70	
Populus fremontii ssp. fremontii	1933346.524	6703674.635	1	36	30	30	30	50	
Salix goodingii	1933387.256	6703679.716	1	23	20	10	15	20	
Populus fremontii ssp. fremontii	1933398.765	6703677.249	1	30	15	20	17.5	50	
Populus fremontii ssp. fremontii	1933401.616	6703674.936	1	36	20	30	25	50	
Populus fremontii ssp. fremontii	1933404.818	6703674.431	1	36	30	30	30	50	
Populus fremontii ssp. fremontii	1933405.79	6703672.372	1	22	10	20	15	50	
Populus fremontii ssp. fremontii	1933409.903	6703670.422	1	32	20	40	30	50	
Populus fremontii ssp. fremontii	1933410.915	6703672.524	1	20	10	30	20	30	
Salix goodingii	1933491.263	6703646.922	1	24	20	35	27.5	25	
Quercus lobata	1933577.273	6703665.933	1	16.8	20	20	20	40	
Populus fremontii ssp. fremontii	1933643.948	6703574.634	3	24,24,24	20	40	30	40	
Populus fremontii ssp. fremontii	1933654.253	6703572.895	1	40	15	25	20	35	
Populus fremontii ssp. fremontii	1933729.455	6703543.255	1	18	25	12	18.5	20	
Populus fremontii ssp. fremontii	1933769.074	6703536.295	2	30,30	20	30	25	60	
Quercus lobata	1933782.886	6703546.82	1	11.2	25	20	22.5	20	
Populus fremontii ssp. fremontii	1933783.89	6703523.224	1	27	30	20	25	55	
Populus fremontii ssp. fremontii	1933829.335	6703503.552	2	24,14.6	30	20	25	50	
Quercus lobata	1933879.015	6703481.893	1	15.4	20	20	20	25	
Populus fremontii ssp. fremontii	1933894.446	6703431.861	2	30,30	40	20	30	40	
Populus fremontii ssp. fremontii	1933928.75	6703412.712	1	36	20	30	25	50	
Acer negundo	1933961.411	6703406.982	2	8.5,8.8	15	20	17.5	25	
Acer negundo	1933961.169	6703402.989	2	7.5,7.3	10	15	12.5	20	
Acer negundo	1933969.24	6703393.812	2	5.7,5.7	8	15	11.5	25	
Fraxinus latifolia	1933964.984	6703390.797	4	15,11,10.5,9.4	25	40	32.5	30	
Quercus agrifolia	1934040.445	6703365.277	1	32.4	30	40	35	25	
Quercus agrifolia	1934142.066	6703268.805	3	20,9.8	20	35	27.5	30	
Platanus racemosa	1934068.671	6703253.104	2	8,6	10	10	10	20	
Platanus racemosa	1934065.495	6703254.023	2	5,4	8	15	11.5	12	
Platanus racemosa	1934081.021	6703239.537	1	9.3	8	15	11.5	15	
Platanus racemosa	1934574.473	6699872.153	1	6	15	10	12.5	12	
Robinia pseudoacacia	1934563.174	6699467.965	1	7	10	10	10	20	
Populus fremontii ssp. fremontii	1934572.701	6699401.279	1	8	8	10	9	20	
Fraxinus latifolia	1934577.031	6699389.155	1	8	20	15	17.5	15	
Populus fremontii ssp. fremontii	1934581.361	6699377.463	1	8	15	10	12.5	20	
Salix goodingii	1934561.442	6699351.481	1	20	20	35	27.5	25	fallen

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Ficus carica	1934563.174	6699133.02	1	6	10	20	15	12	
Robinia pseudoacacia	1934570.102	6699079.757	1	7	5	5	5	30	
Ailanthus altissima	1934481.476	6700092.615	2	7.7	15	15	15	25	
Ailanthus altissima	1934494.332	6700075.646	2	7.5	10	20	15	32	
Ailanthus altissima	1934496.793	6700079.612	1	8.5	10	10	10	25	
Ailanthus altissima	1934498.742	6700078.513	1	6	0	0	0	30	dead
Ailanthus altissima	1934496.852	6700074.775	1	8	10	10	10	30	
Ailanthus altissima	1934492.374	6700070.472	1	7.6	10	15	12.5	35	
Ailanthus altissima	1934489.879	6700062.492	1	7.5	10	10	10	30	
Ailanthus altissima	1934486.571	6700051.563	1	7.5	10	12	11	28	
Ailanthus altissima	1934487.511	6700050.001	1	6.9	10	10	10	34	
Ailanthus altissima	1934495.238	6700047.301	2	8,7.9	10	30	20	38	
Ailanthus altissima	1934493.217	6700044.081	1	8.9	10	10	10	32	
Ailanthus altissima	1934492.069	6700043.014	1	9.8	15	10	12.5	35	
Ailanthus altissima	1934490.621	6700041.677	1	8.1	10	8	9	25	
Ailanthus altissima	1934491.556	6700035.18	1	6.8	10	10	10	28	
Ailanthus altissima	1934492.478	6700020.855	1	4	15	10	12.5	30	
Ailanthus altissima	1934495.592	6700018.955	1	6	10	10	10	36	
Ailanthus altissima	1934494.809	6700015.959	1	7.5	15	10	12.5	35	
Ailanthus altissima	1934495.796	6700005.588	1	7.6	10	10	10	30	
Ailanthus altissima	1934493.427	6700003.189	1	7.5	15	10	12.5	32	
Ailanthus altissima	1934495.619	6700002.239	1	8.1	10	10	10	35	
Ailanthus altissima	1934494.351	6699999.166	1	8	15	15	15	34	
Ailanthus altissima	1934496.255	6699991.665	1	7.7	20	10	15	31	
Ailanthus altissima	1934497.272	6699989.492	1	8.2	12	15	13.5	34	
Quercus lobata	1934516.835	6699928.676	2	24,15	30	25	27.5	40	
Quercus lobata	1934554.017	6699274.726	3	24,18,10	35	18	26.5	40	
Quercus lobata	1934555.384	6699275.913	2	30,25	40	40	40	35	
Quercus lobata	1934551.247	6699471.824	1	30	30	30	30	40	
Robinia pseudoacacia	1934550.615	6699363.381	1	9	0	0	0	35	dead
Robinia pseudoacacia	1934551.14	6699355.499	1	7.5	0	0	0	35	dead
Robinia pseudoacacia	1934551.963	6699340.663	1	8.1	0	0	0	30	dead
Robinia pseudoacacia	1934553.52	6699334.407	1	7	0	0	0	30	dead
Robinia pseudoacacia	1934560.229	6699339.42	3	6,6,6	0	0	0	32	dead
Robinia pseudoacacia	1934563.85	6699316.542	1	5	8	8	8	32	
Robinia pseudoacacia	1934568.716	6699314.035	1	4	8	5	6.5	35	
Robinia pseudoacacia	1934567.432	6699309.201	1	8.8	8	8	8	30	

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Robinia pseudoacacia	1934574.354	6699305.37	1	6.9	8	5	6.5	28	
Robinia pseudoacacia	1934574.371	6699293.994	1	8.6	10	20	15	25	
Robinia pseudoacacia	1934572.371	6699288.104	1	8	10	30	20	12	
Robinia pseudoacacia	1934575.694	6699285.632	1	8	10	10	10	30	
Robinia pseudoacacia	1934553.778	6699304.757	1	9.2	8	8	8	32	
Robinia pseudoacacia	1934559.929	6699306.748	1	7.2	8	5	6.5	30	
Robinia pseudoacacia	1934567.954	6699261.844	3	6,6,6	0	0	0	30	dead
Robinia pseudoacacia	1934565.913	6699254.843	2	8,6	0	0	0	28	dead
Robinia pseudoacacia	1934569.756	6699252.316	1	7.5	0	0	0	30	dead
Robinia pseudoacacia	1934564.832	6699243.388	1	9	8	8	8	32	
Robinia pseudoacacia	1934565.704	6699223.551	1	9	20	15	17.5	35	
Robinia pseudoacacia	1934572.329	6699226.315	4	6	20	10	15	30	
Robinia pseudoacacia	1934570.388	6699212.012	1	7	10	10	10	28	
Robinia pseudoacacia	1934568.644	6699199.902	1	8	10	12	11	32	
Robinia pseudoacacia	1934566.895	6699198.326	1	5	15	10	12.5	30	
Robinia pseudoacacia	1934569.995	6699192.476	2	5	15	15	15	30	
Robinia pseudoacacia	1934572.736	6699193.967	1	6	10	10	10	30	
Populus fremontii ssp. fremontii	1934587.606	6699081.852	2	30	20	20	20	20	dead
Juglans regia	1934585.374	6699087.343	2	10,12	40	10	25	25	10 in trunk dead
Populus fremontii ssp. fremontii	1934583.844	6699097.845	1	36	30	35	32.5	55	
Populus fremontii ssp. fremontii	1934596.697	6699089.908	1	33	10	15	12.5	50	
Salix goodingii	1934599.261	6699084.01	1	20,8	20	25	22.5	28	
Populus fremontii ssp. fremontii	1934595.522	6699117.427	2	15,22	10	10	10	45	22 in trunk dead
Quercus lobata	1934580.43	6699115.294	1	18	30	20	25	45	
Quercus lobata	1934580.462	6699125.247	2	18,12	30	35	32.5	40	
Quercus lobata	1934577.98	6699146.854	1	20	30	20	25	25	
Populus fremontii ssp. fremontii	1934585.614	6699148.441	2	40,40	25	15	20	35	tops are dead
Populus fremontii ssp. fremontii	1934601.396	6699146.127	1	18	15	10	12.5	45	
Quercus lobata	1934591.794	6699179.394	2	22,10	30	20	25	35	
Populus fremontii ssp. fremontii	1934596.848	6699180.87	1	28	15	15	15	50	
Robinia pseudoacacia	1934584.024	6699191.442	2	6,8	10	25	17.5	35	
Populus fremontii ssp. fremontii	1934581.432	6699406.795	2	24,28	30	20	25	45	
Quercus lobata	1934572.251	6699422.938	1	40	20	25	22.5	55	
Populus fremontii ssp. fremontii	1934560.142	6699425.613	1	24	10	10	10	50	
Populus fremontii ssp. fremontii	1934561.59	6699400.465	1	26	30	25	27.5	55	
Robinia pseudoacacia	1934559.42	6699410.549	1	6	10	10	10	35	dead/dying
Populus fremontii ssp. fremontii	1934553.41	6699455.997	1	12	10	20	15	35	

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Robinia pseudoacacia	1934563.425	6699455.82	1	5	8	8	8	25	
Populus fremontii ssp. fremontii	1934560.62	6699433.794	1	5	8	8	8	30	
Quercus lobata	1934573.575	6699442.578	1	10	5	8	6.5	20	
Populus fremontii ssp. fremontii	1934571.377	6699477.668	2	32,40	20	25	22.5	40	
Populus fremontii ssp. fremontii	1934569.539	6699482.861	1	12	10	8	9	20	
Quercus lobata	1934565.651	6699492.428	1	40	30	20	25	45	
Populus fremontii ssp. fremontii	1934575.996	6699496.842	1	36	10	10	10	48	
Populus fremontii ssp. fremontii	1934581.017	6699502.493	1	40	8	8	8	50	
Populus fremontii ssp. fremontii	1934581.017	6699502.493	3	40,35,35	20	30	25	50	
Populus fremontii ssp. fremontii	1934580.649	6699510.984	1	60	10	20	15	50	hole in base
Quercus lobata	1934570.942	6699510.241	1	7	5	8	6.5	20	
Populus fremontii ssp. fremontii	1934569.162	6699524.049	2	20,8	10	10	10	55	
Quercus lobata	1934556.17	6699527.63	1	30	20	25	22.5	40	
Populus fremontii ssp. fremontii	1934567.651	6699535.76	1	52	20	15	17.5	60	
Populus fremontii ssp. fremontii	1934564.764	6699548.423	1	33	20	20	20	45	
Populus fremontii ssp. fremontii	1934576.362	6699556.396	1	18	15	8	11.5	30	
Populus fremontii ssp. fremontii	1934575.786	6699560.327	2	40,33	10	12	11	35	
Populus fremontii ssp. fremontii	1934579.817	6699568.72	1	36	12	10	11	40	
Populus fremontii ssp. fremontii	1934565.118	6699586.826	3	20,20,8	25	15	20	48	
Quercus lobata	1934559.718	6699586.322	1	6.1	10	12	11	15	
Quercus lobata	1934565.498	6699613.301	2	8,8,7,9	20	15	17.5	20	
Populus fremontii ssp. fremontii	1934556.078	6699622.199	1	18	20	10	15	25	
Populus fremontii ssp. fremontii	1934560.722	6699626.531	2	42,33	30	25	27.5	50	
Populus fremontii ssp. fremontii	1934574.022	6699607.981	2	36,24	15	15	15	50	
Populus fremontii ssp. fremontii	1934575.516	6699629.015	1	28	10	8	9	30	
Populus fremontii ssp. fremontii	1934561.446	6699642.061	1	36	8	8	8	35	
Quercus lobata	1934553.324	6699645.174	1	14	20	12	16	25	
Populus fremontii ssp. fremontii	1934558.911	6699651.16	1	36	20	10	15	50	
Populus fremontii ssp. fremontii	1934556.611	6699662.111	1	33	20	10	15	35	
Fraxinus latifolia	1934564.661	6699664.293	6	8	20	12	16	20	
Populus fremontii ssp. fremontii	1934548.651	6699669.835	1	30	40	10	25	40	
Populus fremontii ssp. fremontii	1934558.034	6699682.01	1	30	20	10	15	52	
Populus fremontii ssp. fremontii	1934567.796	6699686.343	1	10	15	8	11.5	15	
Populus fremontii ssp. fremontii	1934568.838	6699694.98	3	20,25,15	15	15	15	45	
Quercus lobata	1934551.543	6699748.111	1	20	25	15	20	50	
Quercus lobata	1934545.786	6699778.161	2	10,8	20	15	17.5	50	
Populus fremontii ssp. fremontii	1934557.827	6699776.973	1	40	25	12	18.5	55	

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Quercus lobata	1934551.909	6699794.124	1	38	20	35	27.5	55	
Populus fremontii ssp. fremontii	1934562.176	6699781.464	1	24	20	15	17.5	40	
Populus fremontii ssp. fremontii	1934557.603	6699798.013	1	12	10	10	10	25	
Salix goodingii	1934552.349	6699802.922	1	33	30	15	22.5	35	
Quercus lobata	1934540.669	6699809.889	2	22,18	30	20	25	40	
Fraxinus latifolia	1934557.121	6699812.304	3	8,8,6	20	30	25	25	
Salix goodingii	1934558.825	6699826.13	1	6	20	10	15	10	
Populus fremontii ssp. fremontii	1934550.897	6699831.728	2	25,18	0	0	0	55	dead
Populus fremontii ssp. fremontii	1934551.662	6699838.187	3	30,22,8	15	20	17.5	60	
Populus fremontii ssp. fremontii	1934553.973	6699848.273	1	24	30	20	25	55	
Quercus lobata	1934536.471	6699822.216	3	12,6,8	25	12	18.5	25	
Quercus lobata	1934529.673	6699846.274	1	49.2	40	50	45	60	
Salix goodingii	1934543.942	6699876.356	1	18	40	20	30	35	
Salix goodingii	1934547.162	6699888.773	1	8	20	15	17.5	25	
Fraxinus latifolia	1934540.742	6699908.505	1	8	12	10	11	20	
Quercus lobata	1934524.798	6699921.544	2	14,16	10	15	12.5	25	
Quercus lobata	1934519.721	6699920.842	1	18	40	20	30	15	leaning/fallen
Populus fremontii ssp. fremontii	1934545.578	6699939.945	4	30,30,30,8.9	40	20	30	50	
Quercus lobata	1934532.387	6699941.856	1	17.5	35	20	27.5	35	
Fraxinus latifolia	1934550.442	6699938.901	2	8.6	20	10	15	8	
Salix goodingii	1934537.818	6699956.482	1	11.5	10	10	10	12	
Quercus lobata	1934526.694	6699972.151	1	24	40	35	37.5	40	
Quercus lobata	1934528.144	6700024.952	1	33	30	10	20	40	Fallen into river, half dead
Quercus lobata	1934520.386	6700052.711	4	11.7,33,16,5.9	35	40	37.5	40	
Quercus lobata	1934513.273	6700036.087	2	15,11.6	25	30	27.5	35	
Quercus lobata	1934500.161	6700058.361	1	15.1	10	30	20	38	
Salix goodingii			2	30,8	20	40	30	12	
Robinia pseudoacacia			1	5	0	0	0	20	dead
Robinia pseudoacacia			1	6	0	0	0	22	dead
Robinia pseudoacacia			1	5.5	0	0	0	24	dead
Robinia pseudoacacia	1934566.638	6699044.379	1	5	2	2	2	20	
Robinia pseudoacacia	1934569.236	6699037.018	1	5.5	0	0	0	20	dead
Robinia pseudoacacia			1	6.4	0	0	0	20	dead
Robinia pseudoacacia			3	4,5,4,5	0	0	0	22	dead
Robinia pseudoacacia	1934568.803	6699000.21	2	5.5,4,4	15	10	12.5	25	
Robinia pseudoacacia	1934574	6698991.983	1	5.5	5	5	5	27	
Robinia pseudoacacia	1934566.205	6698990.251	1	4	10	5	7.5	20	

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Robinia pseudoacacia	1934566.205	6698979.425	2	5,5	15	10	12.5	20	
Robinia pseudoacacia	1934573.134	6698974.662	1	5.5	5	5	5	20	
Robinia pseudoacacia	1934568.37	6698972.93	1	4.5	8	5	6.5	22	
Robinia pseudoacacia			1	5	0	0	0	20	dead
Robinia pseudoacacia	1934575.732	6698962.537	3	7.5,5.2,6	15	12	13.5	22	
Robinia pseudoacacia			1	4	0	0	0	22	dead
Robinia pseudoacacia	1934582.227	6698954.743	1	5.5	12	10	11	18	
Robinia pseudoacacia	1934583.093	6698963.403	1	7.3	15	15	15	20	
Populus fremontii ssp. fremontii	1934624.664	6698977.693	2	40,38	40	20	30	40	
Robinia pseudoacacia	1934565.772	6698956.475	1	4	2	2	2	12	
Acer negundo	1934607.776	6698950.845	2	18,12	10	20	15	20	
Acer negundo	1934609.075	6698945.649	1	8	10	20	15	25	
Populus fremontii ssp. fremontii	1934616.869	6698917.502	2	50,20	25	20	22.5	55	
Robinia pseudoacacia	1934573.134	6698938.288	2	6,8	10	15	12.5	20	
Populus fremontii ssp. fremontii	1934638.088	6698902.347	3	30,36,25	30	25	27.5	58	
Populus fremontii ssp. fremontii	1934628.128	6698895.418	1	16.5	20	15	17.5	30	
Salix goodingii	1934544.987	6698328.89	2	12,10	12	18	15	25	
Populus fremontii ssp. fremontii	1934538.925	6698251.811	1	7.2	5	5	5	8	
Juglans regia	1934514.242	6698199.415	1	5.4	10	8	9	30	
Juglans regia	1934539.791	6698191.188	1	8	15	15	15	30	
Quercus lobata	1934534.594	6698135.457	1	5	10	10	10	15	
Robinia pseudoacacia	1934515.108	6698085.226	1	8	5	5	5	20	
Populus fremontii ssp. fremontii			1	25	0	0	0	55	dead
Quercus lobata	1934531.563	6697790.768	1	6.5	8	10	9	18	
Quercus lobata	1934517.706	6697751.796	1	13	10	18	14	25	
Fraxinus latifolia	1934531.996	6697743.568	1	7	15	12	13.5	20	
Populus fremontii ssp. fremontii	1934551.915	6697767.385	1	40	0	0	0	38	dead
Fraxinus latifolia	1934541.956	6697720.185	2	6,4	15	15	15	15	
Acer negundo	1934502.55	6697714.123	2	14,12	25	20	22.5	22	
Quercus lobata	1934508.18	6697688.141	1	12.5	15	20	17.5	30	
Acer negundo	1934532.862	6697678.181	1	8	10	20	15	15	
Fraxinus latifolia	1934522.47	6697647.87	3	10,8,8	12	22	17	30	
Salix goodingii	1934507.747	6697664.758	3	6,7,8	10	20	15	22	
Quercus lobata	1934533.728	6697631.415	1	19.5	20	30	25	35	
Robinia pseudoacacia	1934570.585	6699026.624	1	6.6	10	5	7.5	18	
Robinia pseudoacacia	1934573.556	6698921.583	1	6	10	10	10	28	
Robinia pseudoacacia	1934573.293	6698915.702	1	4	10	10	10	22	

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Robinia pseudoacacia	1934574.032	6698917.12	1	8	15	10	12.5	25	
Fraxinus latifolia	1934609.107	6699179.119	1	12	15	20	17.5	12	
Salix goodingii	1934600.641	6699015.51	1	20	30	25	27.5	30	
Populus fremontii ssp. fremontii	1934594.915	6699009.31	1	60	30	20	25	60	
Acer negundo	1934508.257	6698109.921	1	6	10	10	10	30	
Quercus lobata	1934530.558	6698183.289	1	14.5	15	20	17.5	35	
Salix goodingii	1934515.036	6698180.971	1	8	30	10	20	20	recently broken at breast height
Acacia spp.	1934527.036	6698173.791	9	8	20	15	17.5	20	
Quercus lobata	1934497.322	6698177.301	3	18,8,10	20	18	19	35	
Quercus lobata	1934493.336	6698170.536	1	16	20	15	17.5	22	
Quercus lobata	1934492.885	6698142.244	1	10.5	10	12	11	30	
Quercus lobata	1934492.722	6698138.631	1	15.2	15	12	13.5	35	
Robinia pseudoacacia	1934513.365	6698100.654	5	10	15	15	15	30	burned
Robinia pseudoacacia	1934509.34	6698094.007	5	20,6,8,15,8	20	20	20	35	
Robinia pseudoacacia	1934520.986	6698092.995	4	6,6,8,10	10	8	9	28	
Robinia pseudoacacia	1934513.248	6698077.852	1	8	10	10	10	27	
Robinia pseudoacacia	1934522.918	6698069.333	1	6	10	8	9	28	
Robinia pseudoacacia	1934522.52	6698065.106	1	5.5	10	5	7.5	21	
Populus fremontii ssp. fremontii	1934512.889	6697999.525	8	36	30	40	35	58	
Populus fremontii ssp. fremontii	1934515.054	6697987.347	1	25	10	10	10	50	dead top
Populus fremontii ssp. fremontii	1934523.853	6697977.681	2	25,30	10	18	14	50	
Populus fremontii ssp. fremontii	1934512.292	6697966.971	3	30,35,8	20	15	17.5	50	
Populus fremontii ssp. fremontii	1934512.754	6697941.259	6	12,20,33,24,30,20	25	20	22.5	48	
Populus fremontii ssp. fremontii	1934528.832	6697943.415	2	36,25	15	15	15	40	dead top
Populus fremontii ssp. fremontii	1934532.143	6697915.487	1	21.5	10	10	10	45	
Populus fremontii ssp. fremontii	1934523.763	6697912.593	4	20,33,12,35	20	15	17.5	48	
Populus fremontii ssp. fremontii	1934537.183	6697906.371	1	18	10	10	10	45	
Populus fremontii ssp. fremontii	1934527.835	6697887.795	2	21,15	10	12	11	50	
Populus fremontii ssp. fremontii	1934520.45	6697881.423	5	25	20	20	20	40	
Populus fremontii ssp. fremontii	1934520.975	6697872.369	1	30	10	10	10	50	
Populus fremontii ssp. fremontii	1934521.104	6697858.013	4	30,30,15,25	20	15	17.5	55	
Populus fremontii ssp. fremontii	1934527.472	6697844.774	1	30	15	10	12.5	55	
Populus fremontii ssp. fremontii	1934523.964	6697839.212	1	29	15	25	20	45	
Populus fremontii ssp. fremontii	1934541.115	6697843.794	2	20,36	20	15	17.5	45	
Populus fremontii ssp. fremontii	1934528.516	6697859.229	1	19	10	10	10	32	
Populus fremontii ssp. fremontii	1934534.769	6697866.293	2	33,10	10	12	11	30	
Populus fremontii ssp. fremontii	1934531.564	6697876.078	1	20	10	10	10	40	

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populus fremontii ssp. fremontii	1934540.758	6697895.529	1	13.5	10	10	10	35	
Populus fremontii ssp. fremontii	1934530.837	6697882.45	1	24	15	10	12.5	40	
Populus fremontii ssp. fremontii	1934540.146	6697950.778	1	30	20	10	15	40	leaning over water
Populus fremontii ssp. fremontii	1934527.065	6697960.85	1	24	10	10	10	50	
Populus fremontii ssp. fremontii	1934537.909	6697967.991	1	15.5	5	5	5	35	dead top
Populus fremontii ssp. fremontii	1934537.269	6697982.424	1	20	10	12	11	45	
Populus fremontii ssp. fremontii	1934545.885	6697987.401	1	20	15	10	12.5	40	
Populus fremontii ssp. fremontii	1934545.026	6698017.765	1	15	10	12	11	45	
Acer negundo	1934542.346	6698052.763	1	8	8	10	9	10	
Robinia pseudoacacia	1934529.623	6698061.717	1	6	10	8	9	21	
Quercus lobata	1934527.992	6698080.322	1	10.8	15	18	16.5	32	
Populus fremontii ssp. fremontii	1934543.599	6698080.424	1	19	0	0	0	55	dead
Fraxinus latifolia	1934535.877	6698093.356	1	10	20	15	17.5	30	
Acer negundo	1934524.424	6698121.444	1	12	15	10	12.5	10	
Platanus racemosa	1934550.857	6698223.61	1	18	20	15	17.5	35	leaning completely over water
Quercus lobata	1934495.094	6698156.741	1	14.5	20	12	16	25	
Acer saccharinum	1934532.449	6698220.112	6	7	15	20	17.5	25	
Acer saccharinum	1934527.897	6698190.454	3	8,8,6	10	12	11	25	
Acer saccharinum	1934527.018	6698223.464	4	7,12,10,5,5	15	20	17.5	25	
Acer saccharinum	1934526.756	6698199.43	4	8,8,6,4	10	15	12.5	35	
Quercus lobata	1934516.266	6698218.072	1	10	12	12	12	31	
Acer negundo	1934531.962	6698199.419	1	8	20	15	17.5	15	
Acer negundo	1934514.114	6698216.529	1	4.5	12	15	13.5	25	
Fraxinus latifolia	1934543.603	6698198.477	3	7,5,5	20	10	15	15	
Fraxinus latifolia	1934543.603	6698198.477	3	6,4,5	15	15	15	18	over water
Juglans regia	1934498.268	6698221.647	5	10	25	20	22.5	30	
Quercus lobata	1934540.775	6698232.438	1	5	10	8	9	12	
Quercus lobata	1934497.5	6698211.416	2	5,8	8	8	8	15	
Acer saccharinum	1934526.869	6698231.33	1	5	10	12	11	22	
Quercus lobata	1934501.405	6698202.852	1	6.2	10	10	10	30	
Quercus lobata	1934490.46	6698198.276	1	7	10	10	10	25	
Acer saccharinum	1934527.347	6698261.067	2	7,6	10	12	11	30	
Quercus lobata	1934495.851	6698234.561	1	13.5	15	10	12.5	35	
Acer saccharinum	1934526.387	6698275.412	1	10	12	20	16	28	
Quercus lobata	1934498.872	6698242.819	2	14,2,10	25	15	20	32	
Quercus lobata	1934537.727	6698261.838	1	12	12	20	16	30	
Quercus lobata	1934501.23	6698258.339	3	20,20,6	15	18	16.5	35	

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Populus fremontii ssp. fremontii	1934545.782	6698276.629	1	40	10	10	10	45	dying
Quercus lobata	1934497.462	6698285.401	1	17.5	20	18	19	30	
Quercus lobata	1934502.026	6698295.641	1	5.5	8	8	8	15	
Quercus lobata	1934504.977	6698304.881	1	4	10	10	10	12	
Quercus lobata	1934499.14	6698300.749	2	9,9	20	10	15	28	
Juglans regia	1934501.993	6698316.616	6	10	15	20	17.5	23	
Acer negundo	1934530.134	6698303.922	3	10,12,8	15	15	15	30	
Acer negundo	1934533.38	6698341.944	1	6.7	15	10	12.5	18	
Acer negundo	1934540.923	6698346.351	7	8	20	25	22.5	25	
Juglans regia	1934512.516	6698329.646	4	8,6,6,4	12	15	13.5	22	
Juglans regia	1934533.036	6698368.88	2	13,11	30	18	24	30	
Juglans regia	1934518.051	6698381.771	4	7,10,9,8.5	20	30	25	30	
Acer negundo	1934536.456	6698378.204	1	8	15	30	22.5	25	
Quercus lobata	1934518.938	6698402.121	1	5.3	10	10	10	20	
Quercus lobata	1934550.972	6698374.946	1	4.2	10	10	10	20	
Salix goodingii	1934550.972	6698374.946	6	8,8,5,5,5,?	12	10	11	15	
Quercus lobata	1934539.596	6698401.705	1	15.2	30	20	25	40	
Acer saccharinum	1934557.642	6698399.094	5	7.6,6,5,5,5	20	15	17.5	35	
Acer saccharinum	1934554.664	6698402.952	2	10,9.6	20	15	17.5	30	
Quercus lobata	1934543.158	6698426.663	1	15.5	30	20	25	45	
Acer saccharinum	1934555.338	6698407.625	2	8,4	30	15	22.5	22	
Acer saccharinum	1934558.868	6698410.408	2	5.7,4	20	12	16	26	
Acer negundo	1934545.117	6698451.777	1	11	20	10	15	35	
Acer saccharinum	1934574.676	6698419.856	4	6,6,6,6	10	15	12.5	25	
Acer negundo	1934556.199	6698438.538	3	6,6,8	40	20	30	20	
Acer negundo	1934556.199	6698438.538	4	6,4,10,8	30	35	32.5	30	
Acer negundo	1934565.765	6698423.608	1	4.1	10	10	10	30	
Acer saccharinum	1934566.889	6698432.233	3	12,6,6	20	20	20	32	
Salix goodingii	1934565.187	6698464.634	12	8	25	35	30	20	
Acer saccharinum	1934573.098	6698434.309	1	4.2	20	10	15	25	
Salix goodingii	1934567.977	6698459.902	2	10,8	15	30	22.5	25	
Salix goodingii	1934580.803	6698442.784	6	10	15	15	15	18	
Quercus lobata	1934547.136	6698468.834	1	12.6	15	12	13.5	35	
Salix goodingii	1934564.746	6698501.185	3	8,10,5	10	20	15	20	
Acer negundo	1934572.88	6698537.355	7	10	25	32	28.5	18	
Acer saccharinum	1934573.62	6698493.544	12	8	30	20	25	25	
Acer negundo	1934572.526	6698552.099	8	20,20,20,10,10,5,?,?	40	15	27.5	20	

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Fraxinus latifolia	1934580.631	6698474.705	1	9.7	15	12	13.5	25	
Acer negundo	1934589.744	6698561.407	4	12,10,8,4	15	9	12	20	large clump
Salix goodingii	1934588.258	6698512.409	1	10	20	10	15	15	
Acer negundo	1934570.538	6698574.57	4	6,12,12,8	20	30	25	30	
Acer negundo	1934567.924	6698548.513	1	11.8	35	10	22.5	15	
Acer negundo	1934563.134	6698577.01	2	10,6	20	10	15	20	
Acer negundo	1934580.469	6698590.445	4	6,12,10,6	10	10	10	28	
Quercus lobata	1934550.055	6698609.203	1	30	20	22	21	35	
Acer negundo	1934594.336	6698614.246	1	10	2	2	2	25	almost dead
Quercus lobata	1934560.913	6698628.989	2	18,20.8	20	35	27.5	42	
Acer negundo	1934564.651	6698620.824	1	3.6	10	10	10	12	
Quercus lobata	1934599.446	6698653.449	1	20	20	30	25	35	
Acer negundo	1934576.017	6698640.685	2	6,10	15	12	13.5	20	
Acer negundo	1934594.036	6698662.653	1	8	10	12	11	18	
Quercus lobata	1934595.806	6698695.361	1	9.6	12	18	15	30	
Acer negundo	1934576.735	6698697.489	1	8	10	12	11	20	
Acer negundo	1934603.594	6698687.369	2	6,10	20	15	17.5	15	
Acer negundo	1934572.905	6698695.136	2	6,6.5	15	12	13.5	18	
Populus fremontii ssp. fremontii	1934604.45	6698694.594	1	15	20	28	24	40	
Acer negundo	1934564.717	6698699.645	1	4.2	8	10	9	15	
Fraxinus latifolia	1934609.233	6698719.088	4	4,8,6,6	20	25	22.5	20	
Quercus lobata	1934561.548	6698707.419	1	10	20	18	19	22	
Populus fremontii ssp. fremontii	1934599.512	6698726.073	1	18	15	20	17.5	40	
Quercus lobata	1934555.776	6698718.772	1	7.7	10	20	15	38	
Populus fremontii ssp. fremontii	1934598.834	6698760.056	3	24,12,20	20	18	19	50	
Quercus lobata	1934565.652	6698720.745	1	8.2	20	15	17.5	42	
Populus fremontii ssp. fremontii	1934597.593	6698770.467	2	12,10	10	10	10	18	
Quercus lobata	1934572.901	6698720.365	1	18.5	30	30	30	40	
Populus fremontii ssp. fremontii	1934590.276	6698775.093	1	20	20	10	15	40	
Acer negundo	1934576.048	6698737.04	1	4.5	10	10	10	19	
Alnus rhombifolia	1934585.428	6698812.044	1	8.5	10	30	20	15	
Alnus rhombifolia	1934597.406	6698823.418	1	6	20	15	17.5	12	
Alnus rhombifolia	1934594.572	6698829.033	1	13.8	20	10	15	15	
Quercus lobata	1934574.971	6698750.121	1	12.5	20	10	15	40	
Acer negundo	1934574.971	6698750.121	4	8,8,6,6	30	20	25	25	
Alnus rhombifolia	1934594.605	6698832.753	1	6.2	15	10	12.5	20	
Quercus lobata	1934565.132	6698760.608	1	5.5	20	15	17.5	20	

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Alnus rhombifolia	1934595.579	6698842.32	1	6	10	8	9	25	
Quercus lobata	1934558.273	6698749.318	1	12	20	20	20	45	
Alnus rhombifolia	1934588.933	6698845.797	3	12,8,6	20	15	17.5	35	
Alnus rhombifolia	1934595.857	6698857.254	1	8.5	10	10	10	30	
Alnus rhombifolia	1934576.369	6698825.041	7	36,36,12,12,10,12,6	40	35	37.5	55	
Populus fremontii ssp. fremontii	1934599.839	6698865.562	1	6	20	30	25	40	
Alnus rhombifolia	1934579.501	6698845.272	1	27	40	30	35	50	
Populus fremontii ssp. fremontii	1934594.191	6698876.682	4	36,40,30,15	50	30	40	50	
Populus fremontii ssp. fremontii	1934596.999	6698889.446	2	36,30	30	35	32.5	40	
Populus fremontii ssp. fremontii	1934599.814	6698895.380	3	30,25,18	30	30	30	50	
Alnus rhombifolia	1934549.255	6698796.046	1	12	30	15	22.5	25	
Quercus lobata	1934531.707	6698509.096	1	6.5	30	15	22.5	40	
Gleditsia triacanthos	1979519.254	6691168.416	5	11.5,11.2,6.8,7,5.5	15	20	17.5	30	
Quercus lobata	1979525.447	6691116.809	1	6.5	10	8	9	22	
Juglans regia	1979537.833	6691097.542	1	11.5	20	10	15	28	
Quercus lobata	1979548.155	6691113.368	1	5.5	10	10	10	12	
Salix goodingii	1979676.83	6690784.456	1	6	5	5	5	10	
Prunus dulcis	1979638.434	6690741.381	12	8	10	30	20	15	
Prunus dulcis	1979650.131	6690724.866	4	6	10	10	10	15	
Fraxinus latifolia	1979650.131	6690700.095	1	6	10	10	10	20	
Quercus lobata	1979677.655	6690647.111	1	12	10	18	14	35	
Quercus lobata	1979684.536	6690627.844	2	9,6.5	15	15	15	20	
Quercus lobata	1979692.105	6690599.632	2	22,10	20	15	17.5	30	
Quercus lobata	1979730.639	6690485.407	1	5.5	6	8	7	12	
Quercus agrifolia	1979745.777	6690485.407	2	6,5	15	15	15	15	
Populus fremontii ssp. fremontii	1979634.583	6690832.912	3	30,14,10	20	20	20	50	
Populus fremontii ssp. fremontii	1979639.273	6690844.542	1	10.5	10	10	10	20	
Quercus lobata	1979585.864	6690956.073	1	10	10	20	15	20	
Gleditsia triacanthos	1979567.469	6690983.453	3	6.5,6.7	15	20	17.5	20	
Quercus lobata	1979575.655	6690942.195	2	9.5,6.5	10	20	15	15	
Quercus lobata	1979605.738	6690918.178	2	18,8.5	20	30	25	25	
Populus fremontii ssp. fremontii	1979641.982	6690827.245	1	30	20	20	20	50	
Populus fremontii ssp. fremontii	1979665.427	6690795.953	1	24	15	20	17.5	55	
Fraxinus latifolia	2000773.665	6675211.912	1	5	10	15	12.5	25	
Quercus lobata	2000780.294	6675184.291	3	10,30,24	50	35	42.5	60	
Fraxinus latifolia	2000760.407	6675190.368	1	9	30	25	27.5	40	
Quercus lobata	2000749.359	6675148.937	1	16	15	10	12.5	20	

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Quercus lobata	2000767.036	6675137.337	1	33	60	20	40	50	
Fraxinus latifolia	2000791.342	6675135.127	1	7.5	30	10	20	30	
Quercus lobata	2000790.789	6675167.719	1	5	5	12	8.5	15	
Quercus lobata	2000775.322	6675158.88	3	14,12,9	40	25	32.5	35	
Fraxinus latifolia	2001140.629	6674953.993	1	24	40	35	37.5	40	
Quercus lobata	2001189.793	6674942.392	1	3	5	5	5	15	
Quercus lobata	2001410.977	6674776.338	1	6	5	5	5	15	
Quercus lobata	2001407.11	6674773.024	1	6	5	5	5	15	
Quercus lobata	2001402.691	6674768.052	1	6	5	5	5	15	
Quercus lobata	2001408.768	6674759.766	1	6	5	5	5	15	
Quercus lobata	2001417.606	6674765.843	1	8	10	15	12.5	20	
Salix goodingii	2001417.606	6674759.214	1	7	25	15	20	20	
Quercus lobata	2001425.34	6674775.786	1	9	10	15	12.5	25	
Juglans regia	2001430.864	6674766.395	1	20	10	10	10	30	
Quercus lobata	2001446.331	6674774.129	1	12	10	25	17.5	25	
Juglans regia	2001433.074	6674779.1	1	19	40	30	35	55	
Juglans regia	2001445.779	6674784.072	9	9	25	35	30	25	
Juglans regia	2001447.989	6674760.871	1	13.5	25	15	20	30	
Juglans regia	2001456.827	6674771.367	1	9.2	10	20	15	15	
Juglans regia	2001465.113	6674764.738	1	13.8	15	15	15	25	
Juglans regia	2001462.904	6674752.585	1	9.8	25	10	17.5	20	
Juglans regia	2001445.779	6674737.117	1	10.5	20	15	17.5	30	
Juglans regia	2001452.408	6674727.174	1	5.5	5	10	7.5	15	
Juglans regia	2001453.513	6674741.537	1	5.8	5	10	7.5	15	
Juglans regia	2001468.98	6674737.117	1	6.3	10	15	12.5	20	
Juglans regia	2001474.504	6674740.984	1	5.5	10	10	10	15	
Juglans regia	2001480.581	6674736.013	1	6.6	20	10	15	20	
Juglans regia	2001471.19	6674707.84	1	5	5	10	7.5	20	
Juglans regia	2001483.343	6674702.868	1	9	10	15	12.5	30	
Juglans regia	2001476.161	6674713.916	1	5	10	10	10	15	
Juglans regia	2001477.266	6674720.545	1	7.5	5	10	7.5	25	
Juglans regia	2001485	6674722.755	1	11.7	10	20	15	20	
Quercus lobata	2001494.391	6674733.803	1	11	10	10	10	25	
Quercus lobata	2001510.963	6674723.307	1	10	12	10	11	18	
Quercus lobata	2001523.668	6674715.021	1	9	8	5	6.5	10	
Fraxinus latifolia	2001515.382	6674706.183	2	4,6	10	20	15	10	
Juglans regia	2001515.382	6674694.03	1	7	15	20	17.5	30	

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Juglans regia	2001569.518	6674685.743	1	7	10	15	12.5	20	
Juglans regia	2001543.003	6674675.248	1	5	5	10	7.5	15	
Juglans regia	2001510.411	6674684.086	1	5	8	15	11.5	15	
Juglans regia	2001597.47	6674615.588	1	7	15	20	17.5	35	
Juglans regia	2001602.994	6674629.95	1	49	45	30	37.5	40	possibly dead
Quercus lobata	2001667.073	6674613.378	1	14	20	20	20	55	
Quercus lobata	2001673.702	6674586.863	1	9	35	20	27.5	40	
Quercus lobata	2001698.561	6674584.1	1	18	20	25	22.5	35	
Juglans regia	2001700.218	6674554.823	1	10	10	20	15	20	
Quercus lobata	2001582.555	6674631.608	1	6	10	15	12.5	30	
Quercus lobata	2001616.252	6674616.693	1	9	20	10	15	30	
Juglans regia	2001620.671	6674632.712	1	33	35	40	37.5	40	possibly dead
Juglans regia	2001653.816	6674594.596	1	8	20	10	15	20	
Juglans regia	2001679.779	6674605.644	1	6	15	15	15	25	
Juglans regia	2001684.198	6674566.976	1	10	10	15	12.5	20	
Fraxinus latifolia	2001724.524	6674574.71	3	6,8,6	15	20	17.5	15	
Fraxinus latifolia	2001715.685	6674549.851	1	10	20	20	20	20	
Quercus lobata	2001688.617	6674575.814	1	40	35	60	47.5	55	
Juglans regia	2001712.371	6674592.387	1	9	10	10	10	15	
Juglans regia	2001712.371	6674574.157	1	7	15	25	20	20	
Quercus lobata	2000906.881	6675106.615	1	34	45	30	37.5	50	
Quercus lobata	2000897.702	6675083.635	1	11	10	12	11	25	
Fraxinus latifolia	2000916.987	6675093.133	3	7.3,8.5,6.2	15	30	22.5	20	
Quercus lobata	2000912.587	6675074.919	2	14,10	45	30	37.5	40	
Quercus lobata	2000940.678	6675102.551	1	9	30	20	25	25	
Juglans regia	2001069.577	6675011.838	4	5,4,6,6	35	20	27.5	35	
Quercus lobata	2001087.04	6674991.63	2	14,14	30	20	25	35	
Juglans regia	2001091.122	6674992.419	1	6	5	5	5	12	
Juglans regia	2001115.111	6674984.663	1	16	45	20	32.5	40	
Juglans regia	2001109.737	6674973.791	1	8	10	10	10	20	
Fraxinus latifolia	2001100.005	6674979.74	1	7	15	10	12.5	30	
Juglans regia	2001114.438	6674968.925	1	5	10	8	9	25	
Juglans regia	2001123.112	6674967.412	1	7	10	10	10	30	
Juglans regia	2001134.127	6674964.722	1	8	15	8	11.5	30	
Juglans regia	2001138.026	6674961.526	1	8	20	15	17.5	25	
Juglans regia	2001141.04	6674963.278	1	15	20	15	17.5	40	
Juglans regia	2001126.363	6674986.87	1	40	35	15	25	45	

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Juglans regia	2001174.298	6674957.142	1	13	30	15	22.5	30	
Quercus lobata	2001196.189	6674946.402	1	11	20	15	17.5	25	
Juglans regia	2000995.842	6675056.124	3	6,8,5	20	15	17.5	30	
Quercus lobata	2000990.45	6675062.189	4	4,6,5,6	20	10	15	20	
Juglans regia	2000987.369	6675047.544	1	5	10	15	12.5	25	
Juglans regia	2000988.872	6675050.492	1	7	8	15	11.5	35	
Juglans regia	2000986.759	6675051.131	1	6	15	15	15	30	
Juglans regia	2000988.056	6675052.868	1	9	10	20	15	35	
Quercus lobata	2000956.592	6675067.582	2	8,7	20	30	25	20	
Juglans regia	2000956.902	6675068.583	1	11	25	40	32.5	40	
Quercus lobata	2001172.733	6674909.711	1	30	30	30	30	40	
Quercus lobata	2001208.744	6674920.278	2	7,6	10	15	12.5	25	
Quercus lobata	2001212.825	6674921.494	1	15	25	20	22.5	25	
Quercus lobata	2001212.181	6674923.596	1	8	15	10	12.5	15	
Populus fremontii ssp. fremontii	2001145.275	6674930.643	3	13.8,9,6	25	15	20	35	
Juglans regia	2001231.941	6674908.319	3	4	20	10	15	20	
Quercus lobata	2001238.395	6674906.693	1	8.8	15	10	12.5	25	
Quercus lobata	2001241.85	6674901.617	1	21.4	35	20	27.5	45	
Juglans regia	2001246.69	6674893.12	1	9.4	15	10	12.5	25	
Quercus lobata	2001255.502	6674897.618	1	5.5	10	20	15	20	
Quercus lobata	2001264.191	6674894.064	1	30	25	20	22.5	40	possibly dead
Juglans regia	2001257.456	6674883.251	1	12.8	10	15	12.5	30	
Juglans regia	2001261.721	6674883.102	1	8	12	10	11	15	
Juglans regia	2001261.117	6674881.206	1	11	15	10	12.5	25	possibly dead
Juglans regia	2001262.745	6674877.73	1	14.2	10	10	10	20	
Juglans regia	2001264.014	6674880.732	1	11.5	10	5	7.5	35	possibly dead
Juglans regia	2001265.831	6674877.499	1	11.5	15	20	17.5	30	
Juglans regia	2001267.033	6674879.059	1	3.5	10	10	10	15	
Juglans regia	2001271.373	6674881.37	1	12.4	20	15	17.5	20	possibly dead
Juglans regia	2001275.598	6674870.909	1	11.9	25	20	22.5	40	
Juglans regia	2001301.235	6674861.949	4	16,7.2,8,7.5	30	25	27.5	30	
Juglans regia	2001223.827	6674888.468	6	4	15	25	20	20	
Juglans regia	2001296.705	6674852.168	1	8	10	5	7.5	15	
Juglans regia	2001306.939	6674847.937	2	8	20	15	17.5	15	
Quercus lobata	2001338.774	6674835.462	1	20	30	25	27.5	50	
Juglans regia	2001362.649	6674824.699	4	36,30,20,25	35	30	32.5	40	
Quercus lobata	1857719.184	6678640.246	1	28	45	30	37.5	60	

Scientific name	Northing	Easting	Number trunks	DBH (in)	Dripline diameter max X (ft)	Dripline diameter max Y (ft)	Mean dripline diameter (ft)	Est. Height (ft)	Notes, tree health, general condition (i.e., vigor)
Fraxinus latifolia	2041745.549	6677349.205	5	8-12	20	25	22.5	20	
Quercus lobata	2041865.604	6677265.482	2	8,10	8	10	9	25	
Quercus lobata	2041909.521	6677235.139	2	12,10	15	20	17.5	28	
Populus fremontii ssp. fremontii	2041875.585	6677249.912	2	48,18	20	40	30	50	poison oak
Quercus lobata	2042940.467	6676737.393	1	12	20	20	20	40	
Quercus lobata	2042680.536	6676872.978	1	18	15	20	17.5	30	
Quercus lobata	2042660.446	6676899.715	1	10	10	30	20	40	
Quercus lobata	2042651.636	6676885.477	1	9	15	20	17.5	15	
Fraxinus latifolia	2042656.186	6676885.141	1	8	30	20	25	20	
Quercus lobata	2042643.837	6676895.282	1	30	30	35	32.5	45	
Quercus lobata	2042633.7	6676920.161	1	36	30	30	30	50	
Quercus lobata	2042597.749	6676925.22	1	20	10	25	17.5	35	
Quercus lobata	2042791.756	6676810.71	1	15	15	20	17.5	25	
Quercus lobata	2042764.713	6676821.607	2	35,20	20	35	27.5	35	35 in trunk is dead
Populus fremontii ssp. fremontii	2042629.76	6676893.977	1	10	10	15	12.5	30	
Quercus lobata	2042592.005	6676918.12	1	10	15	30	22.5	30	
Quercus lobata	2042594.663	6676908.32	1	15	10	20	15	25	
Quercus lobata	2042589.339	6676914.359	1	25	10	10	10	30	
Quercus lobata	2042518.149	6676982.712	2	12.3,6.5	20	15	17.5	30	
Quercus lobata	2042510.034	6676983.421	1	7.5	15	15	15	30	
Quercus lobata	2042493.489	6676984.452	1	8	10	10	10	30	
Populus fremontii ssp. fremontii	2042477.486	6676975.489	1	10	8	8	8	20	
Quercus lobata	2042483.841	6676974.577	1	6	10	10	10	20	
Quercus lobata	2042491.32	6677000.956	1	22	40	30	35	45	
Quercus lobata	2042475.047	6677003.731	1	18	30	35	32.5	50	
Quercus lobata	2042468.658	6677006.731	1	28	30	40	35	50	
Quercus lobata	2042460.816	6677000.647	1	20	20	30	25	50	
Quercus lobata	2042453.951	6677005.368	1	6	10	10	10	20	
Quercus lobata	2042427.394	6677013.842	1	15	20	30	25	60	
Quercus lobata	2042212.934	6677144.191	1	15.5	15	30	22.5	30	
Quercus lobata	2042265.475	6677117.643	1	15.3	20	40	30	50	
Quercus lobata	2042022.097	6677243.696	1	50	45	38	41.5	55	
Populus fremontii ssp. fremontii	2042277.695	6677081.632	3	20,12,12	15	40	27.5	40	
Quercus lobata	2042317.931	6677052.351	1	20	40	30	35	50	
Quercus lobata	2042322.382	6677044.129	2	35,40	50	25	37.5	45	
Quercus lobata	2042335.317	6677038.624	2	38,10	15	50	32.5	45	
Populus fremontii ssp. fremontii	2042366.012	6677033.49	1	9	30	10	20	40	

Scientific name	Northing	Easting	Number trunks	DBH (in)	Dripline diameter max X (ft)	Dripline diameter max Y (ft)	Mean dripline diameter (ft)	Est. Height (ft)	Notes, tree health, general condition (i.e., vigor)
Quercus lobata	2041952.38	6677295.539	1	51.3	60	60	60	65	
Quercus lobata	2041886.135	6677263.079	1	16	30	30	30	30	poison oak
Quercus lobata	2042142.023	6677126.079	3	8,10,20	20	35	27.5	45	
Quercus lobata	2042119.22	6677133.883	1	5.5	10	10	10	15	
Quercus lobata	2042094.654	6677158.249	1	46	40	45	42.5	40	
Fraxinus latifolia	2042093.537	6677147.141	12	8-12	15	45	30	15	
Quercus lobata	2042064.524	6677172.617	1	36	40	40	40	60	
Quercus lobata	2042357.277	6677021.209	2	12,12	15	10	12.5	20	
Fraxinus latifolia	2042364.802	6677023.639	3	10-12	20	20	20	-	
Quercus lobata	2042156.358	6677111.378	1	18	20	15	17.5	50	
Quercus lobata	2041994.227	6677218.162	1	30.8	50	40	45	50	
Quercus lobata	2041961.066	6677236.903	2	12,6	10	20	15	30	
Quercus lobata	2041901.3	6677260.906	1	10	10	20	15	35	poison oak
Quercus lobata	2041892.22	6677258.614	1	12	20	10	15	30	poison oak

Appendix D

Clean Water Act 401 Water Quality Certification Application

**CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD
CENTRAL VALLEY REGION**

**SECTION 401 WATER QUALITY CERTIFICATION
APPLICATION FORM**

A fee of \$40,500 is included with this application as required by 23 CCR §3833b(2)(A) and by 23 CCR § 2200(e). The total fee includes the required \$500 base price plus the maximum dredge and fill operation fee of \$40,000, as indicated by the fee calculator at <http://www.waterboards.ca.gov/cwa401/docs/dredgefillfeecalculator.xls>

1. APPLICANT INFORMATION

2. AGENT INFORMATION*

Applicant: US Army Corps of Engineers	Agent*
Contact Name: Don Lash	Contact Name:
Address: 1325 J Street	Address:
Sacramento, CA 95814	
Phone No: 916-557-6742	Phone No:
Fax No: 916-557-7856	Fax No:

*Complete only if applicable

3. PROJECT DESCRIPTION

a) Project Title: **Sacramento River Bank Protection Project Priority Sites, River Miles:** Sacramento River at 16.9 Left, 33.0 Right, 33.3 Right, 43.7 Right, 44.7 Right, 47.0 Left, 47.9 Right, 48.2 Right, 62.5 Right, 68.9 Left, and 78.0 Left; Steamboat Slough at 19.0 Right, 19.4 Right, and 22.7 Right.

b) Project Location:

Sacramento River Locations

<u>Site:</u>	<u>Street Location</u>	<u>Latitude</u>	<u>Longitude</u>
RM 16.9	Highway 160 and Terminus Rd, Isleton, CA	-121.6164	38.1629
RM 33.0	Highway 160 and Courtland Rd Paintersville, CA	-121.5786	38.3138
RM 33.3	Highway 160 and Sutter Island Rd, Paintersville, CA	-121.5784	38.3194
RM 43.7	South River Rd and Rose Rd, Clarksburg, CA	-121.5231	38.4355
RM 44.7	South River Rd and Freeport Bridge., Clarksburg, CA	-121.5067	38.4384
RM 47.0	South River Rd and Freeport Bridge, Freeport, CA	-121.5201	38.4715
RM 47.9	South River Rd and Freeport Bridge, Freeport, CA	-121.5243	38.4736
RM 48.2	North Harbor Blvd and Riverbank Rd, Freeport, CA	-121.5481	38.4733
RM 62.5	Garden Highway and Powerline Rd, Lovdal, CA	-121.6045	38.5975

RM 68.9	Garden Highway and West Riego Rd, Vin, CA	-121.5963	38.6575
RM 78.0	South River Rd and Freeport Bridge, Joe's Landing, CA	-121.5201	38.7708
Steamboat Slough Locations			
<u>Site:</u>	<u>Street Location</u>	<u>Latitude</u>	<u>Longitude</u>
RM 19.0	Ryer Rd East and Snug Harbor Dr, Walker Landing, CA	38.2166	-121.6062
RM 19.4	Ryer Rd East and Highway 220, Walker Landing, CA	38.2204	-121.6035
RM 22.7	Sutter Island Rd and West Sutter Island Cross Rd, Howard Landing, CA	38.2624	-121.5920

c) Project Description: *(include purpose and final goal):*

The U.S. Army Corps of Engineers (Corps) and the State of California Reclamation Board (Reclamation Board) propose to implement bank protection measures to prevent ongoing streambank erosion at 14 priority sites along the Sacramento River and Steamboat Slough. The 14 sites are River Miles (RM) 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, 78.0L along the Sacramento River in Yolo, Sacramento, and Sutter counties and RM 19.0R, 19.4R, and 22.7R along the Steamboat Slough in Solano and Sacramento counties. These 14 sites are among 24 critical erosion sites in Governor Schwarzenegger's February 24, 2006 Declaration of State of Emergency of California Levee System and March 7, 2006 Executive Order S-01-06. Erosion into the banks at these sites requires immediate work to prevent levee failure.

Bank protection measures will be implemented at each of the 14 sites and, in total, the overall project would generally consist of: (1) reinforcement of the bank toes with riprap; (2) placement of a mixture of riprap and soil (mixture of sand and silt suitable for plant growth) on tops of the lower banks riprap to create riparian benches above the MSWL; (3) placement of riprap and soil along the upper banks; and (4) planting the lower banks, benches and upper banks with vegetation to provide bank stabilization and riparian habitat. Ten of the 14 sites (Sacramento River at RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, 78.0L) will have instream wood material (IWM) anchored on the tops of riparian benches; the benches will be designed to be barely wet at winter/spring average flows.

The construction will occur in two phases. Phase 1 construction will occur during Fall 2006 and Winter 2007; all work will be on the waterside of the riverbank from a barge. During Phase 2, which will occur during Spring and Summer 2007, construction at six sites will occur from landside (Sites RM 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L). These six erosion sites are adjacent to wide grassy areas that can support all construction-related activities and equipment staging. The Phase 2 activities at the remaining sites on the Sacramento River (sites RM 16.9L, 33.0R, 33.3R, 43.7R, and 44.7R) and all sites on Steamboat Slough (Sites RM 19.0R, 19.4R, and

22.7R) will be from the waterside. For all waterside construction, the contractor would use adjacent landside areas for staging of vehicles and plant materials and other associated construction equipment as necessary.

The bank protection measures summarized for the entire project (14 site totals) consist of: (1) reinforcement of the bank toe with a total of 9,817 linear feet (LF) of riprap covering an area of 359,263 square feet (8.5 acres); (2) placement of a mixture of soil and rock on top of the toe riprap to create a bench at approximately MSWL, and extending along the upper slope, covering a total area of 567,767 square feet (13.4 acres); (4) planting the lower bank, riparian bench and upper slope with vegetation to provide bank stabilization and riparian habitat; and (5) anchoring instream woody materials (IWM) along approximately 7,705 LF the waterside edge of the riparian bench to provide aquatic habitat.

A total of approximately 213,926 cubic yards of riprap and soil-rock mix would be placed along the embankment. The total surface area of these materials would be about 927,030 square feet (21.8 acres). Approximately 359,263 square feet (8.5 acres) of this area would be below the mean summer water line.

d) Proposed Schedule: (*start-up, duration, and completion dates*): Phase 1 - November 13, 2006 through June 1, 2007. Phase 2 - June 1, 2007 through November 30, 2007.

e) Total Project size: (*clearing, grading, other construction activities*)
21.8 acres 9,817 linear feet (*if appropriate*)

4. IMPACTED WATER BODIES

a) Name(s) of Receiving Water Body(ies): Sacramento River and Steamboat Slough

b) Anticipated potential stream flow during project activity: Phase I - Between 6,000 cfs and 16,000 cfs at late-fall to summer flows at the four most downstream sites (RM 16.9L, 19.0R, 19.4R, and 22.7R); between 6,000 cfs and 16,000 cfs at the seven sites in the mid-reaches (Sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R); and, between 10,000 cfs and 30,000 cfs at the three most upstream sites (RM 62.5R, 68.9L, and 78.0L). Phase II - Between 6,000 cfs and 10,000 cfs at summer to fall flows at the four most downstream sites (RM 16.9L, 19.0R, 19.4R, and 22.7R); between 6,000 cfs and 9,000 cfs at the seven sites in the mid-reaches (Sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R); and, between 10,000 cfs and 15,000 cfs at the three most upstream sites (RM 62.5R, 68.9L, and 78.0L).

c) Describe potential impacts to water quality:

The placement of riprap during construction activities within the channel would temporarily generate increased turbidity in the immediate vicinity of the project area. The placement of riprap on the toe to the water surface could result in a plume of sediments generated from the channel bottom and the channel side, becoming suspended in the water and could generate turbidity levels above those identified as acceptable by the Basin Plan. For landside construction (Sites RM 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L), water quality impacts would be constrained to the temporary turbidity increases for riprap placement. Waterside

construction (Sites RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 44.7R) would also include the potential for additional turbidity impacts from wave action generated during boat and barge operations. Other potential impacts include releases of small volumes of petroleum products (fuel, engine oil, and hydraulic line oil) due to their use in close proximity to the local receiving waters downstream of the projects sites.

d) Indicate in ACRES and LINEAR FEET (*where appropriate*) the proposed **waters of the United States** to be impacted by any discharge other than dredging, and identify the impacts(s) as permanent and/or temporary for each water body type listed below:

Water Body Type	Permanent Impacts		Temporary Impacts	
	(acres)	(linear feet)	(acres)	(linear feet)
Jurisdictional Wetland				
Riparian			6.1	9,817
Streambed unvegetated	7.9		7.8	9,817
Lake & Reservoir				

e) Indicate the volume of dredged material (cubic yards) to be discharged to waters of the United States: Small amounts of sand may be dredged from mid-channel locations adjacent to proposed wetland benches at 5 of the 14 priority erosion sites, including Sacramento River Sites RM 16.9L, 43.7 as well as Steamboat Slough Sites RM 19.0R, 19.4R and 22.7R.

f) Indicate type(s) of material proposed to be discharged to waters of the United States: This project would use approximately 116,744 cubic yards of riprap rock revetment (D50 of 12 inches) placed below the summer water surface, with a mixture of 97,181 cubic yards of rock (D50 of 8 inches) and soil (a mixture of sand and silt suitable for plant establishment and growth) placed along the riparian benches and upper slopes. The rock and soil mixture may be covered with a biodegradable coir fabric to prevent soil loss during the first high water before vegetation has established. Sand will be placed on top of wetland benches at 5 of the 14 priority erosion sites, including Sacramento River Sites RM 16.9L, 43.7 as well as Steamboat Slough Sites RM 19.0R, 19.4R and 22.7R.

5. COMPENSATORY MITIGATION

a) Indicate in ACRES and LINEAR FEET (*where appropriate*) the total quantity of **waters of the United States** proposed to be Created, Restored and/or Enhanced for purposes of providing Compensatory Mitigation: On-site mitigation/restoration

Water Body Type	Created		Restored		Enhanced	
	(acres)	(linear ft)	(acres)	(linear ft)	(acres)	(linear ft)
Jurisdictional Wetland	0.7	2,346				

Riparian	7.3	9,817				
Streambed						
Lake/Reservoir						
<p>b) If contributing to a Mitigation or Conservation Bank, indicate the agency, dollar amount, acreage, and water body type (<i>if applicable</i>): Not applicable. Conservation Agency _____ \$ _____ for _____ acres of _____ (water body type) How many acres of this mitigation area qualify as waters of the United States? _____</p>						
<p>c) Other Mitigation (<i>omit if not applicable</i>): Not applicable. How many acres of this mitigation area qualify as waters of the United States? _____</p>						
<p>d) Location of Compensatory Mitigation Site(s): Created riparian habitat (e.g. riparian benches) is proposed at all 14 priority erosion sites (see 3b for locations). Created wetland habitat is proposed at 5 of the 14 priority erosion sites, including Sacramento River sites RM 16.9L, 43.7 as well as Steamboat Slough sites RM 19.0R, 19.4R and 22.7R.</p>						

6. OTHER ACTIONS/BEST MANAGEMENT PRACTICES (BMPs)

Briefly describe other actions/BMPs to be implemented to Avoid and/or Minimize impacts to waters of the United States, including preservations of habitats, erosion control measures, project scheduling, flow diversions, etc.: The Corps would implement a Storm Water Pollution Prevention Plan before and during construction to minimize turbidity generating activities. The Corps will monitor turbidity and settleable solids to avoid violation of basin standards. The contractor would be required to develop and implement a hazardous materials management plan prior to initiation of construction. The plan would include best management practices to (1) reduce the likelihood of spills of toxic chemicals and other hazardous materials during construction, (2) describe a specific protocol for the proper handling and disposal of materials and contingency procedures to follow in the event of an accidental spill, and (3) describe a specific protocol for the proper handling and disposal of materials should materials be encountered during construction.

The specific BMPs that will be incorporated into the SWPPP will be determined during the final stages of project design. However, the SWPPP is likely to include one or more of the following standard practices, which are commonly used during the construction and postconstruction phases of levee improvement projects:

- Stage construction equipment and materials on the landside of the subject levee reaches. To the extent possible, stage equipment and materials in areas that have already been

disturbed.

- Minimize ground and vegetation disturbance during project construction by establishing designated equipment staging areas, ingress and egress corridors, spoils disposal and soil stockpile areas, and equipment exclusion zones prior to the commencement of any grading operations.
- Stockpile soil and grading spoils on the landside of the subject levee reaches, and install sediment barriers (e.g., silt fences, fiber rolls, straw bales) around the base of stockpiles to intercept runoff and sediment during storm events. If necessary, cover stockpiles with geotextile fabric to provide further protection against wind and water erosion.
- Install sediment barriers on graded or otherwise disturbed slopes as needed to prevent sediment from leaving the project site and entering nearby surface waters.
- Use and store hazardous materials, such as vehicle fuels and lubricants, in designated staging areas located away from surface waters. Implement a spill prevention and control plan that specifies measures that will be used to prevent, control, and clean up hazardous material spills.
- Install plant materials to stabilize cut and fill slopes and other disturbed areas once construction is complete. Plant materials may include an erosion control seed mixture or shrub and tree container stock. Temporary structural BMPs, such as sediment barriers, erosion control blankets, mulch, and mulch tackifier, may be installed as needed to stabilize disturbed areas until vegetation becomes established.
- Implementation of the BMPs specified in the erosion control plan and SWPPP would substantially reduce the potential for accelerated erosion and sedimentation to occur as a result of construction-related ground and vegetation disturbance.

7. OTHER PERMITS/AGREEMENTS/ETC

a) U.S. Army Corps of Engineers Permit

Indicate the type of ACOE permit (*check one*)

Nationwide Permit No(s) _____ Individual Permit No(s): _____ Regional Permit

No(s): _____

Have you notified ACOE of project? _____ Corps Project _____

Have you reviewed the General Conditions for your ACOE permit? Corps Project

Have you attached a copy of the application/notification to ACOE? See Section 404(b) (1)

Evaluation in Environmental Assessment

b) California Department of Fish and Game Lake or Streambed Alteration Agreement: Not

Applicable. Federal Project.

Date of Application: _____

Have you attached a copy of the application?

Has the Agreement been issued? _____ if so, list Agreement number: _____

8. CALIFORNIA ENVIRONMENTAL QUALITY ACT (CEQA)

a) Indicate the type of CEQA Document required for project and Lead Agency:

Categorical Exemption yes Negative Declaration _____ Environmental Impact Report _____ CEQA document, Mitigated Negative Declaration, and Notice of Determination may not be filed. Reclamation Board, and DWR may elect to use emergency declaration.

Has the document been certified/approved, or has a Notice of Exemption been filed?

yes

If yes date of approval/filing 11-28-06 If no, expected approval/filing date:

Lead Agency Department of Water Resources – California Reclamation Board
Submit final or draft copy if available*

b) Threatened or Endangered Species impacted by this project (*list potential*): Eleven special-status wildlife species occur or have the potential to occur in the project area. These species include: giant garter snake (*Thamnophis couchi gigas*), valley elderberry longhorn beetle (*Desmocerus californicus dimorphus*), Cooper's hawk (*Accipiter cooperii*), Swainson's hawk (*Buteo swainsoni*), white-tailed kite (*Elanus leucurus*), Central Valley steelhead (*Oncorhynchus mykiss*), Sacramento River winter-run Chinook salmon (*O. tshawytscha*), Central Valley spring-run Chinook salmon (*O. tshawytscha*), delta smelt (*Hypomesus transpacificus*), green sturgeon (*Acipenser medirostris*), and late fall/fall-run Chinook salmon (*O. tshawytscha*).

9. PAST/FUTURE PROPOSALS BY THE APPLICANT

Briefly list/describe any projects carried out in the last 5 years or planned for implementation in the next 5 years that are in any way related to the proposed activity or may impact the same receiving body of water. Include the estimated adverse impacts from the past or future projects. Current authorization of the Sacramento River Bank Protection Project includes 28,000 linear feet throughout the Sacramento River Flood Control Project. This program is on-going and will incorporate similar measures for bank protection as described in the EA.

10. CERTIFICATION

"I certify under penalty of law that this document, including all attachments and supplemental information, were prepared under my direction and supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

Print Name: E. Scott Clark Title: Chief, Planning Division, USACE, Sacramento District

Signature: _____

Date: _____

Appendix E
Section 404(b) (1) Evaluation

Appendix E. Section 404(b) (1) Evaluation

Levee Repair of 14 Winter 2006 Priority Sites

Sacramento River Bank Protection Project, Sacramento California

I. Project Description

The U.S. Army Corps of Engineers (Corps) and the State of California Reclamation Board (Reclamation Board) propose to implement bank protection measures to prevent ongoing streambank erosion at 14 critically eroding sites along the Sacramento River and Steamboat Slough. Eleven of the 14 sites are along the Sacramento River at River Mile (RM) 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L. Three critically eroding sites are along Steamboat Slough at RM 19.0R, 19.4R, and 22.7R. The 14 sites are located in Yolo, Sacramento, Sutter, and Solano counties. These 14 sites are among 24 critical erosion sites in Governor Schwarzenegger's February 24, 2006 Declaration of State of Emergency of California Levee System, and March 7, 2006 Executive Order S-01-06. Erosion into the banks at these sites requires immediate work to prevent levee failure.

a. Location

The project area extends along the Sacramento River from RM 16.9 to RM 78.0. The 14 erosion sites are located from the most downstream site near the town of Isleton in Sacramento County, to the most upstream site north east of the town of Woodland also in Sacramento County. The RM locations and lengths of the 14 sites are listed (Table 1). A location and vicinity map for the 14 sites is provided in Figure 1 of the EA, and cross-sectional and plan view maps for each site are provided in Figures 2–28 of the EA.

Table 1. Erosion site river mile locations, counties, and lengths.

Erosion site	Water body	County	Length of erosion (feet)
RM 16.9L	Sacramento River	Sacramento	210
RM 19.0R	Steamboat Slough	Solano	552
RM 19.4R	Steamboat Slough	Solano	272
RM 22.7R	Steamboat Slough	Sacramento	222
RM 33.0R	Sacramento River	Yolo	326
RM 33.3R	Sacramento River	Yolo	235
RM 43.7R	Sacramento River	Yolo	1,090
RM 44.7R	Sacramento River	Yolo	1,585
RM 47.0L	Sacramento River	Sacramento	1,156
RM 47.9R	Sacramento River	Yolo	1,031
RM 48.2R	Sacramento River	Yolo	1,039
RM 62.5R	Sacramento River	Yolo	255
RM 68.9L	Sacramento River	Sacramento	786
RM 78.0L	Sacramento River	Sutter	1,058
Total			9,817

b. General Description

The U.S. Army Corps of Engineers (Corps) and the State of California Reclamation Board (Reclamation Board) propose to implement bank protection measures to prevent ongoing streambank erosion at 14 critically eroding sites along the Sacramento River and Steamboat Slough. Eleven of the 14 sites are along the Sacramento River at River Mile (RM) 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L. Three critically eroding sites are along Steamboat Slough at RM 19.0R, 19.4R, and 22.7R. The 14 sites are located in Yolo, Sacramento, Sutter, and Solano counties. These 14 sites are among 24 critical erosion sites in Governor Schwarzenegger’s February 24, 2006 Declaration of State of Emergency of California Levee System, and March 7, 2006 Executive Order S-01-06. Erosion into the banks at these sites requires immediate work to prevent levee failure.

The proposed bank protection measures would include: (1) protecting the toe and upper slopes of the bank with riprap; (2) establishing a berm around the mean summer water level (MSWL) to provide aquatic habitat during lower and higher river stages in winter and spring; (3) placing instream wood material (IWM) for aquatic habitat; and (4) planting pole and container plantings to stabilize the bank and provide riparian and shaded riverine aquatic habitat.

c. Background

Over the years, at the 14 sites' river banks, continued erosion has threatened the stability of the levees in these areas. In downstream locations, the erosion appears to be due to wave run-up from tidal and wind action, as well as some recreational boat traffic during the summer months. The Corps, Reclamation Board, and their consultants have made several field assessments of these sites over the last few years. The levee berm has almost completely eroded away along the waterline at most sites, threatening the integrity of the upper banks. Recent bathymetric surveys conducted in April 2006 indicate the development of scour holes in the river bed near the toes of the levees in many locations. To fill those scour holes, the project design includes rock fill of the holes with riprap toe protection. Riprap and soil berms will also be placed on the upper banks of the levees to protect these areas from further erosion, while maintaining existing vegetation as much as possible.

d. Authority and Purpose

This project is a component of the Sacramento River Bank Protection Project (SRBPP), which was authorized by Congress under the Flood Control Act of 1960 (Public Law 86-645). Congress authorized the SRBPP in accordance with the recommendations of the Chief of Engineers in Senate Document No. 103, 86th Congress, Second Session, entitled "Sacramento River Flood Control Project, California," dated May 26, 1960. Authorization for environmental features associated with the project was provided in the Water Resources Development Act (WRDA) of 1990. The SRBPP is a State-federal partnership between the Corps and Reclamation Board.

Additionally, as noted above, the 14 sites within this proposed Project are among the 24 newly identified critical levee erosion sites that recently prompted the Army Corps to issue a Declaration of Emergency. The Governor of California and the Army Corps have both determined that emergency repairs are needed to prevent a catastrophic levee failure.

This Environmental Assessment (EA): (1) describes the existing environmental resources in the project area; (2) evaluates the project alternatives' environmental effects on those resources; and (3) if the effects are significant, determines and describes actions that may be taken to mitigate and reduce environmental effects such that they become not significant. The purpose of this EA is to fulfill the permitting requirements of the state and federal agencies that are implementing the project.

The California Governor's Office and the US Army Corps of Engineers have declared states of emergency for the levee repair work, and this project qualifies as an emergency exemption under CEQA and NEPA. This project qualifies as a statutory exemption under CEQA (Section 15269);

(b) emergency repairs to publicly or privately owned service facilities necessary to maintain service essential to the public health, safety or welfare, and;

(c) Specific actions necessary to prevent or mitigate an emergency. This does not include long-term projects undertaken for the purpose of preventing or mitigating a situation that has a low probability of occurrence in the short-term.

As an emergency exemption under NEPA, stated in 33 CFR 230.8,

In responding to emergency situations to prevent or reduce imminent risk of life, health, property, or severe economic losses, district commanders may proceed without the specific documentation and procedural requirements of other sections of this regulation. District commanders shall consider the probable environmental consequences in determining appropriate emergency actions and when requesting approval to proceed on emergency actions, will describe proposed NEPA documentation or reasons for exclusion from documentation. NEPA documentation should be accomplished prior to initiation of emergency work if time constraints render this practicable. Such documentation may also be accomplished after the completion of emergency work, if appropriate. Emergency actions include Flood Control and Coastal Emergencies Activities pursuant to Pub. L. 84-99, as amended, and projects constructed under sections 3 of the River and Harbor Act of 1945 or 14 of the Flood Control Act of 1946 of the Continuing Authorities Program. When possible, emergency actions considered major in scope with potentially significant environmental impacts shall be referred through the division commanders to HQUSACE (CECW-RE) for consultation with CEQ about NEPA arrangements. The Declaration of Emergency enables the Army Corps of Engineers to begin repairs by mid-December while concurrently completing the environmental assessments and mitigation plans.

In addition, the EA will serve as a biological assessment to be provided to the National Marine Fisheries Service (NMFS) and the US Fish and Wildlife Service (USFWS) for the Section 7 Endangered Species Act (ESA) consultation, including evaluation of effects of the project on listed and sensitive species, critical habitat, and essential fish habitat. A programmatic biological assessment is currently being prepared for the Sacramento River Bank Protection Project, but consultation will not be completed prior to the need to implement the proposed project.

e. General Description and Quantity of Dredged or Fill Material

(1) General Characteristics of Material

Bank protection measures will be implemented at each of the 14 sites and, in total, the overall project would generally consist of: (1) reinforcement of the bank toe with a total of 9,800 lineal feet (LF) of riprap covering a plan view area of 8.5 acres; (2) placement of a mixture of riprap and soil (mixture of sand and silt suitable for plant growth) on upper banks and tops of the lower banks' riprap, to create riparian benches above the MSWL, covering a total area 13.4 acres; (3) planting the benches and upper banks with vegetation to provide bank stabilization and riparian habitat. Tidal variations range from $\pm 2-3$ ft for the sites nearest the Delta, with variations of $\pm 0-1$ ft at sites further upstream.

Estimates of project areas (acreages) above and below the median summer water surface elevation (WSEL) affected by project construction (i.e., the project footprint), and of required material quantities are listed by site (Tables 2 and 3). The total surface area of the construction footprint is estimated to be 21.8 acres, resulting in the conversion of

approximately 7.3 acres of existing open water habitat into riparian habitats, with an additional conversion of 0.7 acres of open water habitat into wetland habitat. In total, Phase 1 construction includes approximately 117,000 cubic yards of riprap that would be placed along the lower banks to reinforce the levee toe at the 14 sites. During Phase 2, approximately 97,000 cubic yards of additional riprap and soil would be used to build up the benches and upper banks at the project sites. The quantities of riprap, soil and IWM to be placed may vary slightly from the above estimates due to conditions encountered at the site during construction as well as Fall/Winter 2006/07 flow conditions.

Table 2. Acreages* for the Project construction footprint at each site.

Site	Water body	Total site area (acres)	Existing area above water (acres)	Existing area below water (acres)	Post-Project area above water (acres)	Post-Project area below water (acres)
RM 16.9L	Sacramento River	0.4	0.15	0.31	0.15	0.26
RM 19.0R	Steamboat Slough	0.9	0.63	0.44	0.63	0.25
RM 19.4R	Steamboat Slough	0.4	0.28	0.23	0.28	0.14
RM 22.7R	Steamboat Slough	0.4	0.20	0.30	0.20	0.23
RM 33.0R	Sacramento River	0.9	0.42	0.71	0.42	0.46
RM 33.3R	Sacramento River	0.7	0.38	0.51	0.38	0.32
RM 43.7R	Sacramento River	2.5	1.53	1.75	1.53	0.98
RM 44.7R	Sacramento River	3.6	2.62	2.19	2.62	1.02
RM 47.0L	Sacramento River	2.0	1.22	1.91	1.22	0.77
RM 47.9R	Sacramento River	3.1	1.14	2.42	1.14	1.94
RM 48.2R	Sacramento River	2.4	1.43	1.48	1.43	0.96
RM 62.5R	Sacramento River	0.6	0.35	0.53	0.35	0.27
RM 68.9L	Sacramento River	1.9	1.48	1.36	1.48	0.40
RM 78.0L	Sacramento River	1.9	1.51	1.56	1.51	0.44
Total		21.8	13.36	15.70	13.36	8.45

* Acreages were estimated as projected in plan view.

Table 3. Material quantities for Project sites.

Site	IWM removed (lineal feet) ¹	IWM Placed above MSWL ²	Riprap placed (cubic yards) ³	Riprap and soil mixture placed (cubic yards) ³
RM 16.9L	30		2,722	1,750
RM 19.0R	98		2,044	5,111
RM 19.4R	12		967	1,612
RM 22.7R	35		1,842	2,138
RM 33.0R	25	293	7,848	2,656
RM 33.3R	15	212	5,361	2,559
RM 43.7R	65	981	14,533	14,533
RM 44.7R	243	1,427	19,372	17,846
RM 47.0L	72	1,040	8,734	5,823
RM 47.9R	140	928	13,365	9,317
RM 48.2R	107	935	13,930	8,774
RM 62.5R	40	230	5,138	2,361
RM 68.9L	50	707	10,189	10,946
RM 78.0L	20	952	10,698	11,756
Total	952	7,705	116,744	97,181

¹ Existing length of IWM estimated from % shoreline cover during visual bank-line surveys in November 2006.

² Length of anchored IWM to be placed estimated at 90% of site length.

³ Volume of riprap (Phase 1) and riprap/soil mixture (Phase 2) estimated from site cross-sections.

For riparian reestablishment, riparian benches will be constructed to flood at river stages corresponding to high tide (where tidally influenced) at average winter/spring flows. Container plants and pole cuttings would be installed along the lower bank, bench and upper bank with the long-term goal of providing riparian and shaded riverine aquatic (SRA) cover habitat as defined by USFWS (Fris and DeHaven 1993). These areas would be seeded and covered with mulch to prevent soil loss during the first high water which would likely occur before plantings have become established.

Ten of the 14 sites (Sacramento River Sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, 78.0L) will have anchored woody material placed on top of the riparian benches. Individual pieces will be anchored either parallel to the bank or at an oblique angle to the river flow. Woody materials would: (1) be between 23 and 35 feet long; (2) maintain a crown branch structure that is approximately 6–8 feet wide; and (3) retain limbs and root wads (to the extent feasible) for maximum habitat value.

In addition to the riparian benches, planted wetland benches will be constructed at five sites, including two sites in the Sacramento River (Sites RM 16.9L and 43.7R) as well as three sites in Steamboat Slough (Sites RM 198.0R, 19.4R and 22.7R). The wetland benches will be constructed to remain inundated at river stages corresponding to low tide at average summer/fall flows.

(2) Source of Material

Fill materials including rock revetment may be hauled from a quarry in San Rafael, California, which is within approximately 100 miles or less of each of the 14 sites. Other sites for rock revetment exist and the source would be determined by the selected contractor.

f. Description of the Proposed Discharge Site(s)

(1) Location (map)

The location of the discharge sites would be the Sacramento River and Steamboat Slough at the 14 project sites, as summarized in Table 1. A location and vicinity map for the sites is provided in Figure 1 of the EA, and detailed cross-sectional and plan view maps for each site are provided in Figures 2–28 of the EA.

(2) Size (acres)

The total size of the potential fill/impacted area would be almost 7.87 acres of open water.

(3) Type of Site (confined, unconfined, open water)

The fill needed for the bank protection construction would take place in open water areas.

(4) Type(s) of Habitat

In total, four land cover types exist at the 14 sites: riparian forest, riparian scrub/shrub, ruderal herbaceous vegetation, and open water (i.e., the Sacramento River or Steamboat Slough) (Table 4). Each of these cover types is described in more detail in Section 4.1.1 of the EA. Fill in the open water area would occur in a glide habitat.

Table 4. Land types and associated area (acres and percent) in the Project construction footprint (i.e., spatial extent of Project).

Site	Acreage by land cover type (% of area above water)				Total above water	Open water
	Riparian forest	Riparian scrub/ shrub	Ruderal herbaceous	Sub total		
16.9L	0.05 (48%)	0.05 (48%)	0.00 (3%)	0.10	0.41	0.31
19.0R	0.13 (28%)	0.18 (39%)	0.15 (33%)	0.46	0.69	0.44
19.4R	0.06 (34%)	0.10 (52%)	0.03 (14%)	0.18	0.63	0.23
22.7R	0.06 (42%)	0.02 (12%)	0.07 (46%)	0.15	0.45	0.30
33.0R	0.02 (14%)	0.09 (53%)	0.03 (15%)	0.14	0.68	0.71
33.3R	0.11 (60%)	0.03 (16%)	0.04 (21%)	0.18	0.90	0.51
43.7R	0.45 (63%)	0.01 (1%)	0.11 (16%)	0.58	2.48	1.75
44.7R	1.08 (75%)	0.13 (9%)	0.21 (14%)	1.41	3.63	2.19
47.0L	0.00 (12%)	0.00 (0%)	0.00 (0%)	0.00	2.45	1.91
47.9R	0.66 (97%)	0.02 (3%)	0.00 (0%)	0.68	2.59	2.42
48.2R	0.86 (95%)	0.00 (0%)	0.05 (5%)	0.90	2.38	1.48
62.5R	0.05 (74%)	0.02 (23%)	0.00 (0%)	0.07	0.60	0.53
68.9L	0.03 (13%)	0.01 (4%)	0.18 (83%)	0.21	1.57	1.36
78.0L	0.18 (90%)	0.02 (10%)	0.00 (0%)	0.20	1.75	1.56
Total	3.74 (67.87%)	0.66 (12.05%)	0.86 (15.65%)	5.27	21.22	15.70

A total of 104 elderberry shrubs in eight main clumps were located at four sites: RM 44.7R, 47.0L, 47.9R, and 48.2R. The locations of elderberry shrubs are provided in Appendix C-1 of the EA. The results of elderberry surveys conducted in November 2006 are summarized in Appendix C-2 of the EA. At Site RM 44.7R, a total of 87 shrubs were identified, of which 72 were within 100 ft of the Project footprint, though none were inside of the footprint itself. At Site RM 47.0L, a total of eight shrubs was identified, all of which were within 100 ft of the Project footprint, though none were inside of the footprint itself. At Site RM 47.9R, a total of three shrubs was identified, all of which were located within the Project footprint. At Site RM 48.2R, a total of six shrubs was identified, one of which had a potential exit hole. Four of the six shrubs observed were located inside of the Project footprint and the other two were within 100 ft of the Project footprint.

The season to survey valley elderberry longhorn beetle and exit holes is March-June, consequently additional surveys will need to be conducted at this time to determine species presence or absence from these sites.

During construction activities, 166 elderberry stems ≥ 1 inch in diameter could be affected by levee restoration activities at Sites RM 44.7R, 47.0L, 47.9R, and 48.2R. All shrubs associated with these stems occur within 100 feet of Project footprint, with the exception of 15 shrubs at Site RM 44.7R. The shrubs located outside of the 100 ft buffer can be avoided by a minimum of 20 feet. For all other shrubs, it is expected that fencing and other protection measures as outlined in the *Conservation Guidelines for the Valley Elderberry Longhorn Beetle* (USFWS 1999) would be sufficient to prevent any impacts from occurring to any of these shrubs.

At Site RM 48.2R there are four shrubs and at site RM 47.9R there are three shrubs that are within the Project footprint and therefore have the greatest potential to be damaged. These shrubs would be avoided if possible, but construction equipment and personnel could accidentally damage limbs or root structures when working in close proximity. In addition, it is possible that one or more elderberry shrubs would need to be removed to facilitate the placement of bank protection materials. If elderberry shrubs are damaged or need to be transplanted, mitigation would be implemented as described in the *Conservation Guidelines for the Valley Elderberry Longhorn Beetle* (USFWS 1999).

No insecticides, herbicides, fertilizers, or other chemicals that might harm the beetle or its host plant will be used in the buffer areas, or within 100 feet of any elderberry plant with one or more stems measuring 1.0 inch or greater in diameter at ground level. Additional mitigation measures for elderberry are discussed in Section 4.3.4.1 of the EA.

(5) Timing and Duration of Discharge

The construction will occur in two phases (Phases 1 and 2). Phase 1 construction will occur during Fall/Winter 2006/07; all Phase 1 work will be from the waterside. During Phase 2, which will occur during Spring and Summer 2007, construction at four sites will occur from the landside (Sites RM 47.0L, 62.5R, 68.9L, and 78.0L), with work at two other sites (RM 47.9R and 48.2R) from either water- or landside. The Phase 2 work at the remaining sites on the Sacramento River (Sites RM 16.9L, 33.0R, 33.3R, 43.7R, and 44.7R) and all three sites on Steamboat Slough (Sites RM 19.0R, 19.4R, and 22.7R) will be from the waterside.

The Phase 1 construction window is from November 13, 2006 to June 1, 2007. The US Fish and Wildlife Service has confirmed that work could begin immediately and that “the Section 7 consultation will be expediated and treated as an emergency consultation” (US Fish and Wildlife Service 2006). Phase 2 will commence June 1, 2007 through November 30, 2007.

Placement of riprap, the rock/soil mixture, and IWM would be completed during one construction season. Vegetation would be installed and maintained during that same construction season and then maintained for an additional 3 years. Maintenance activities may occur year-round in the overbank and dry areas, but would avoid any elderberry shrubs by 100 feet or another distance coordinated with USFWS. In coordination with Federal and State resource agencies, any in-water work needed for maintenance would be conducted during appropriate time periods to avoid adverse effects on fish. The current acceptable in-water work “window” for listed salmonids is July 1 to October 30 in any year.

h. Description of Disposal Method (hydraulic, drag line, etc.)

At all 14 erosion sites, fill work (Phase 1 bank protection activities) will be conducted from cranes mounted on barges in the Sacramento River or Steamboat Slough, with the crane (boom) systems mechanically placing the rock along the shore and beneath the water line. Waterside construction will minimize noise and traffic disturbances, and effects on existing vegetation. The contractor may choose to use excavators, loaders, and other construction equipment once the riprap has reached the MSLW.

The contractor will use adjacent landside areas for staging of vehicles, plant materials, and other associated construction equipment, as necessary. Protective fencing will be installed to prevent vehicles from getting too close to the waterside edge of the existing bank materials. The exact locations of staging areas have not been determined, but agricultural properties that could accommodate staging areas are available at all sites.

II. Factual Determinations (Section 230.11)

a. Physical Substrate Determinations (consider items in Section 230.11(a) and 230.20 Substrate)

(1) Substrate Elevation and Slope

Elevation of the 14 sites varies from minus 23 ft (NGVD) at Site RM 33.0R to 37 ft at Site RM 78.0L (Table 5). The range of existing slopes at each site is summarized in Table 5, and varies across the 14 sites from 1.9H:1V to 7.8H:1V.

Table 5. Range of existing site elevations (from typical cross-sections) and slopes at each site. Elevations are relative to NGVD 29.

Site	Approximate Min. Elevation (ft)	Summer Median Water Surface Elevation ¹ (ft)	Approximate Max. Elevation (ft)	Existing Slope Range ² (H:V)
RM 16.9L	-14	2.1	15	4.4 – 6.8
RM 19.0R	-3	2.1	21	4.6 – 6.9
RM 19.4R	-5	2.1	18	3.2 – 4.0

Site	Approximate Min. Elevation (ft)	Summer Median Water Surface Elevation ¹ (ft)	Approximate Max. Elevation (ft)	Existing Slope Range ² (H:V)
RM 22.7R	-12	2.1	20	2.3 – 3.0
RM 33.0R	-23	2.6	21	2.6 – 2.8
RM 33.3R	-22	2.6	24	1.9 – 2.0
RM 43.7R	-10	4.1	25	2.1
RM 44.7R	-10	4.3	32	2.5
RM 47.0L	-4	4.6	21	6.3 – 7.8
RM 47.9R	-10	4.8	18	2.8 – 3.1
RM 48.2R	-8	4.8	25	2.7 – 2.9
RM 62.5R	-13	7.0	26	2.6 – 4.4
RM 68.9L	0	8.0	32	3.4 – 3.6
RM 78.0L	4	11.6	37	2.4 – 2.5

¹ Based on values presented in Table 4-18 (Section 4.4.2.1) of the EA.

² Based on seasonal bank slope values presented in Appendix I of the EA.

(2) Sediment Type

Natural bank soils at each site are primarily river deposits, which include silts, sands, and gravel. Sites RM 16.9L, 33.0R, 33.3R, 47.0L, and 47.9R also contain some existing, isolated rock revetment material typically 12–20 inches in diameter located in areas away from the erosion sites considered under this project.

(3) Dredged/ Fill Material Movement

The fill material needed for the bank protection construction is not expected to move either during construction or after construction is completed. Construction personnel would use existing roads or would access the site by barge from the river. Some fill may be used to access the immediate construction site from the levee road; however, this material would be incorporated into the final site design. For example, the contractor may elect to access the site from constructed berms.

(4) Physical Effects on Benthos (burial, changes in sediment type, etc.)

All of the fill associated with the construction takes place in submerged, open water areas. It is expected that the benthos of the river bottom areas within the footprint of bank protection would be completely eliminated by the fill activity.

(5) Other Effects

The installation of the fill material to complete bank protection activities would, over the long-term, reduce sediment input into the Sacramento River and Steamboat Slough.

(6) Actions Taken to Minimize Impacts (Subpart H)

Fill material would only be placed where it is needed for bank protection. During construction, disturbance outside of the project area would be kept to a minimum. The Corps would implement a Storm Water Pollution Prevention Plan before and during construction to minimize turbidity generating activities. The Corps will monitor turbidity and settleable solids to avoid violation of basin standards. The contractor would be required to develop and implement a hazardous materials management plan prior to initiation of construction. The plan would include best management practices to (1) reduce the likelihood of spills of toxic chemicals and other hazardous materials during construction, (2) describe a specific protocol for the proper handling and disposal of materials and contingency procedures to follow in the event of an accidental spill, and (3) describe a specific protocol for the proper handling and disposal of materials should materials be encountered during construction.

b. Water Circulation, Fluctuation, and Salinity Determinations

(1) Water (refer to section 230.11(b), 230.22 Water, and 230.25 Salinity Gradients; test specified in subpart G may be required). Consider effects on:

(a) Salinity

The fill would occur in areas of permanent water in the Sacramento River and Steamboat Slough. When these areas receive water, it is from rain or flood events. All waters affected are freshwater and therefore filling these areas would not adversely affect salinity.

(b) Water Chemistry (pH, etc.)

The fill areas are in areas of permanent water. Materials would be tested for pH prior to placement so as not to affect water chemistry.

(c) Clarity

Fill would occur in areas of permanent water. The Corps would adhere to turbidity and water chemistry requirements associated with the Corps 401 water quality permit (to be issued).

(d) Color

The proposed project is expected to affect color only during fill activities.

(e) Odor

The proposed project is not expected to affect odor.

(f) Taste

The proposed project is not expected to affect taste.

(g) Dissolved Gas Level

Fill would occur in areas of permanent water. During filling the Corps would adhere to turbidity and water chemistry requirements associated with the Corps 401 water quality permit (to be issued).

(h) Nutrients

None of the proposed project components would adversely affect nutrients in the water.

(i) Eutrophication

Fill would occur in areas of permanent water. During filling, the Corps would adhere to turbidity and water chemistry requirements associated with the Corps 401 water quality permit.

(j) Others as Appropriate

The proposed project is not expected to affect other water characteristics.

(2) Current Patterns and Circulation (consider items in Section 230.11(b), and 230.23), Current Flow and Water Circulation

(a) Current Patterns and Flow

Although some changes to the shoreline contour are anticipated due to the proposed fill, the project is not expected to affect general current and flow patterns.

(b) Velocity

The velocities of stormwater and the velocities during flood events are not expected to change with the project.

(c) Stratification

The proposed project is not expected to significantly affect stratification.

(d) Hydrologic Regime

The hydrologic regime of the stormwater runoff is not expected to change with the proposed project.

(3) Normal Water level Fluctuations (tides, river stage, etc.) (consider items in Sections 230.11(b) and 230.24)

Although the proposed project may reduce the section width by 5–20 feet in the construction area, normal water fluctuations would not be affected. The project would not affect stage elevations.

(4) Salinity Gradients (consider items in section 230.11(b) and 230.25)

Since the fill areas receive freshwater stormwater runoff, salinity gradients would not be affected.

(5) Actions That Will Be Taken to Minimize Impacts (refer to Subpart H)

Effects on pattern or flow of stormwater runoff are not expected to be significant. Therefore, no additional minimization measures are needed that are not already defined in Subpart H.

e. Suspended Particulate/ Turbidity Determinations

(1) Expected Changes in Suspended Particulates and Turbidity Levels in Vicinity of Disposal Site (consider items in section 230.11(c) and 230.21)

Temporary changes in particulates and turbidity would occur during construction. There would not be significant long-term changes in suspended particulates and turbidity. It is anticipated that turbidity would increase by 5 NTU's above ambient levels during construction activities. It is anticipated that an increase of < 20% above ambient levels would be acceptable to the RWQCB based on previous bank protection projects in the area.

For water quality mitigation, and as detailed in the SWPPP, the Corps' contractor would conduct water quality tests specifically for increases in turbidity and sedimentation caused by construction activities as described below:

- Sampling location – Water samples for determining background levels at the time of construction shall be collected in the Sacramento River at upstream locations within the general vicinity of the construction site. Upstream testing to establish background levels shall be performed at least once a day when construction activity is in progress. Water samples for determining down-current turbidity and settleable solid levels shall be collected in the Sacramento River at a point 5 feet out from the shoreline and 300 feet down current of each construction site.
- Turbidity – During working hours, the construction activity shall not cause the turbidity in the Sacramento River down-current from each construction site to exceed:
 - where natural turbidity is between 0 and 5 Nephelometric Turbidity Units (NTUs), increases shall not exceed 1 NTU above ambient levels;

- where natural turbidity is between 5 and 50 NTUs, increases shall not exceed 20 percent of ambient levels;
- where natural turbidity is between 50 and 100 NTUs, increases shall not exceed 10 NTUs above ambient levels;
- where natural turbidity is greater than 100 NTUs, increases shall not exceed 10 percent of ambient levels.

These limits would be eased during in-water working periods to allow a turbidity increase of 15 NTU over background turbidity as measured in surface waters 300 feet downstream from the working area. In determining compliance with the above limits, appropriate averaging periods may be applied provided that beneficial uses would be fully protected.

- **Settleable Solids** – Settleable solids shall be determined by APHA (1998) Method 2540F. During working hours, the construction activity shall not cause the settleable solids in the Sacramento River down-current from each construction site to exceed 0.1 mL/L after one hour settling.

If turbidity or settleable solids measurements exceed the values listed above, the contractor would either slow construction or stop until compliance with the regulation is achieved. Therefore, this impact would be less than significant and no further mitigation is required.

(2) Effects (degree and duration) on Chemical and Physical Properties of the water Column (consider environmental values in Section 230.21, as appropriate)

(a) Light Penetration

There would not be adverse effects on light penetration due to the project.

(b) Dissolved Oxygen

There would be no adverse effects on dissolved oxygen due to the project.

(c) Toxic Metals and Organics

Due to the inertness of the fill materials, there would be no exchange of constituents between the fill and aquatic systems. Measures described in the SWPPP, prepared to RWQCB guidelines, and EA would minimize the potential for contaminants to be introduced into the fill areas.

The contractor would be required to develop and implement a hazardous materials management plan prior to initiation of construction. The plan would include best management practices to: (1) reduce the likelihood of spills of toxic chemicals and other hazardous materials during construction, (2) describe a specific protocol for the proper handling and disposal of materials and contingency procedures to follow in the event of

an accidental spill, and (3) describe a specific protocol for the proper handling and disposal of materials should materials be encountered during construction. Any spills of hazardous materials within the Sacramento River shall be cleaned up immediately with notifications provided to the CVRWQCB, NMFS, and USFWS.

(d) Pathogens

The proposed project would not introduce pathogens to the aquatic community.

(e) Aesthetics

There would be temporary aesthetic effects during construction (construction equipment and general disturbance), but the effects are not considered significant, and there will be a net long-term increase in native vegetation and IWM than the preconstruction condition.

A crane on top of a barge or on top of a levee would be visible to residents and visitors within the surrounding areas. Motorists, boaters, pedestrians, and bicyclists using the levee crown would be able to see the construction equipment. The equipment would be visible for approximately 120 days. The presence of construction equipment would degrade the visual quality of scenic vistas from the levee top and river to that of lower vividness, intactness and unity. However, because these effects are temporary (i.e., only for the duration of construction), they are considered to be less than significant.

Visual effects from the placement of riprap and rock onto the bank would be offset by the installation of IWM, soil fill, and tree plantings. These features would successfully establish and cover the riverbank within a 2-year period.

(f) Others as Appropriate

There would be no other significant adverse effects on the chemical and physical properties of the water column.

(3) Effects on Biota (consider environmental values in Section 230.21, as appropriate)

(a) Primary Production, Photosynthesis

The project may temporarily affect primary production and photosynthesis in those areas filled, and in downstream areas affected by temporary project-related increases in suspended sediment, turbidity, or sediment deposition. However, the effect would be temporary and less than significant.

(b) Suspension/ Filter Feeders

The project may temporarily affect suspension and filter feeders in those areas filled, and in downstream areas affected by temporary project-related increases in suspended sediment or turbidity. However, the effect would be temporary and less than significant for the area.

(c) Sight Feeders

The project would temporarily affect sight feeders in those areas filled, and in downstream areas affected by temporary project-related increases in suspended sediment or turbidity. However, the effect would be temporary and less than significant for the area.

(4) Actions Taken to Minimize Impacts (Subpart H)

Effects to the aquatic biota would be temporary and not significant at the project sites and in the areas downstream. Therefore, no additional measures to minimize effects are needed for fill occurring there.

d. Contaminant Determinations (consider items in Section 230.11(d))

The proposed project would not add contaminants to any nearby body of water. Best management practices to reduce the potential of accidental spills during construction are included in the EA. The rock and soil fill material for the sites would not be contaminated and would be tested for contaminants prior to placement.

e. Aquatic Ecosystem and Organism Determinations (use evaluation and testing Procedures in Subpart G, as appropriate)

(1) Effects on Plankton

The project may temporarily affect plankton in those areas filled, and in downstream areas affected by temporary project-related increases in suspended sediment or turbidity. However, the effect would be temporary and less than significant for the area, and no additional measures to minimize effects are needed for fill occurring in the area.

(2) Effects on Benthos

The project may temporarily affect benthos in those areas filled, and in downstream areas affected by temporary project-related increases in suspended sediment, turbidity, or sediment deposition. However, the effect would be temporary and less than significant, and no additional measures to minimize effects are needed for fill occurring in the area.

(3) Effects on Nekton

The project may temporarily affect plankton in those areas filled, and in downstream areas affected by temporary project-related increases in suspended sediment or turbidity. However, the effect would be temporary and less than significant for the area, and no additional measures to minimize effects are needed for fill occurring in the area.

(4) Effects on Aquatic Food Web (refer to Section 230.31)

Effects on the aquatic food web, or the plankton, benthic, and nekton communities, would be temporary and less than significant.

(5) Effects on Special Aquatic Sites (discuss only those found in project area or disposal site)

(a) Sanctuaries and Refuges (refer to section 230.40)

There would be no adverse effects to sanctuaries or refuges with the proposed project.

(b) Wetlands (refer to section 230.41)

No wetlands would be filled; therefore, there would be no adverse effects on wetlands with the proposed project.

(c) Mud Flats (refer to Section 230.42)

There would be no adverse effects on mud flats with the proposed project.

(d) Vegetated Shallows (refer to Section 230.43)

There would be no adverse effects on vegetated shallows with the proposed project. The project would create 0.67 acres total of vegetated shallows at sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R.

(e) Coral Reefs (refer to Section 230.44)

There would be no adverse effects on coral reefs with the proposed project.

(f) Riffle and Pool Complexes (refer to section 230.45)

There would be no adverse effects to riffle and pool complexes.

(6) Threatened and Endangered Species (refer to Section 230.30)

The proposed action at the erosion sites would affect the following special-status species: valley elderberry longhorn beetle, western pond turtle, giant garter snake,

Swainson's hawk, Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley fall-/late fall-run Chinook salmon, Central Valley steelhead, delta smelt, green sturgeon, and Sacramento splittail. Project effects also include alteration of Essential Fish Habitat of Chinook salmon (all runs), and the designated critical habitat of Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, Central Valley steelhead, and delta smelt.

Short-term construction-related effects may include localized disturbance or displacement of these special-status species due to noise, vibration, suspended sediment, and turbidity generated during in-water construction activities. The potential also exists for injury or mortality to the special-status aquatic species that may not be able to readily move away from channel or nearshore areas directly affected by construction activities.

Long-term impacts due to loss of habitat will be mitigated through planting of native riparian vegetation and placement of IWM.

(7) Other Wildlife (refer to Section 230.32)

Wildlife effects associated with the construction are expected to be temporary. Generally, wildlife species that use the areas around the project area are mobile species that would leave the area during construction and return when construction is completed. Therefore, the proposed project would not have any significant adverse effects on wildlife over what was described in the EA.

(8) Actions to Minimize Impacts (refer to Subpart H)

In consideration of the above information, the proposed action is likely to result in take but is not likely to result in jeopardy to these species as long as the applicable conservation and mitigation measures are adhered to. The conclusion of non-jeopardy is based on the Corps' commitments to: (1) avoid direct impacts by maintaining buffers around sensitive habitat and/or conducting construction activities outside of sensitive timeframes (e.g., during the giant garter snake active window or fledging period of special-status birds); (2) minimize temporary habitat losses through the incorporation of on-site mitigation features (e.g., constructed wetland trenches, riparian plantings as discussed in section 4.3.4, and anchored IWM) in the project design; (3) implement a stormwater pollution prevention plan (SWPPP) and associated BMPs, as described in section 4.4.4; and (4) offset permanent, incremental adverse effects of riprap on fluvial processes and associated habitat values through the implementation of proven conservation measures (e.g., setback levees, removal of riprap) at an off-site conservation area (see sections 4.3.4 and 2.10). Concurrent implementation of these conservation measures would adequately avoid, minimize, and mitigate adverse effects on the special-status wildlife and fish species discussed in this document. Finally, as of present, no special-status plants are documented to occur on the project sites. However, if such species are documented during the planned surveys in spring/summer 2007, the proposed action is not likely to result in jeopardy to these species, as long as the applicable protection and mitigation measures, as detailed in section 4.3.4 of the EA, are adhered to.

f. Proposed Disposal Site Determinations

(1) Mixing Zone Determination (consider factors in section 230.11(f)(2))

Not applicable.

(2) Determination of Compliance with Applicable Water Quality Standards (present the standards and rationale for compliance or non-compliance with each standard)

With the exception of temporary impacts on turbidity (discussed above in Section “e. Suspended Particulate/ Turbidity Determinations”), water quality or effluent standards would not be violated either during or after construction.

(3) Potential Effects on Human Use Characteristics

The proposed project would not have any significant adverse effects on municipal and private water supply, or commercial fisheries. There would be no national and historic monuments, parks, seashores, wilderness areas, research sites, or similar preserves affected by the proposed project. Recreational fisheries and water-related recreation would be temporarily adversely affected during construction, as discussed in more detail below.

During Phase 2 construction from June through November, the erosion site locations and immediate areas adjacent to the sites would be closed to the public. Detours and alternate routes would be implemented as necessary. Most of the erosion sites are inaccessible due to steep slopes, so river access would not be displaced as a result of construction. However, at Site RM 47.9R, the dock located within the construction area would likely be closed to pedestrian traffic while the project is being implemented. It is anticipated that the barge and tugboats would occupy approximately 200 feet of the river channel. Access to docks and marinas may be temporarily halted due to the presence of construction equipment (boats, barges, landside staging and storage material) working at this location. Boat access to the docks at Sites RM 33.0R and 47.9R may be prohibited during construction.

The placement of soil, riprap, vegetation, and IWM along the bank would be designed to enhance the natural qualities of the area. Fishing, boating, and swimming opportunities in the area would remain substantially the same as before construction, with the exception of the temporary closures of the construction site areas for public safety purposes.

Most existing trees would remain in place to provide shade, nesting, and quality habitat for wildlife. The installation of rocks, soil and native vegetation, IWM, and their post-construction appeal to the public would not be substantially diminished when

compared to existing conditions. As a result, there would be no substantial loss of recreational values at each erosion site.

g. Determination of Cumulative Effects on the Aquatic Ecosystem (consider requirements in Section 230.11(g))

The proposed project would not have any significant cumulative effects on the aquatic ecosystem. The proposed project would result in the creation of approximately 0.21 acres of vegetated shallows and the addition of 3,738 LF of IWM, covering at least 1,765 LF of the total project bankline of 4,411 LF (approx 40%). Because this represents a substantial increase of the baseline cover habitat for listed salmonids, a key indicator species of river health, cumulative long-term effects on the aquatic ecosystem should be considered beneficial.

h. Determination of Secondary Effects on the Aquatic Ecosystem (consider requirements in Section 230.11(h))

The proposed project would not have any secondary effects on the aquatic ecosystem. The proposed project would result in the creation of approximately 0.67 acres of vegetated shallows and the addition of 6,753 LF of IWM, covering approximately 90% of the total project bankline. Because this represents a substantial increase of the baseline cover habitat for listed salmonids, a key indicator species of river health, cumulative long-term effects on the aquatic ecosystem should be considered beneficial.

III. Findings of Compliance or Non-Compliance with the Restrictions on Discharge

a. Adaptation of the Section 404(b)(1) Guidelines to this Evaluation

No significant adaptations of the guidelines were made relative to this evaluation.

b. Evaluation of Availability of Practicable Alternatives to the Proposed Discharge Site Which Would Have Less Impact on the Aquatic Ecosystem

There were no alternatives identified that would have significantly less adverse effects on the aquatic ecosystem than the proposed alternative.

c. Compliance with Applicable State Water Quality Standards and

d. Compliance with Applicable Toxic Effluent Standard or Prohibition Under Section 307 of the Clean Water Act

State water quality standards would not be violated. The proposed action would not violate the Toxic Effluent Standards of Section 307 of the Clean Water Act.

e. Compliance with Endangered Species Act (ESA) of 1973

Formal consultation was initiated with NMFS and USFWS on October 31, 2006. It is anticipated that biological opinions will be issued on or prior to December 22, 2006 (K. Turner, USFWS, Sacramento, California, pers. comm., 2006).

f. Compliance with Specified Protection Measures for Marine Sanctuaries Designated by the Marine Protection, Research, and Sanctuaries Act of 1972

Not applicable.

g. Evaluation of Extent of Degradation of the Waters of the United States

(1) Significant Adverse Effects on Human Health and Welfare

The proposed project would not cause significant adverse effects on human health and welfare, including municipal and private water supplies, recreation and commercial fishing (other than construction-related effects on recreational fishing access, which would be temporary and less than significant). Construction activities would have temporary effects on benthic communities and plankton. There would be temporary adverse effects to fish, shellfish, wildlife or special aquatic sites. The proposed project would not significantly affect recreation or economic values. Temporary effects on aesthetics would occur during construction only, and would have a net long-term benefit due to establishment of additional riparian vegetation at each site.

h. Appropriate and Practicable Steps Taken to Minimize Potential Adverse Impacts of the Discharge on the Aquatic Ecosystem

i. On the Basis of the Guidelines, the Proposed Disposal Site(s) for the discharge of fill material complies with the requirements of these guidelines.

Appropriate and practicable steps to minimize potential adverse effects of discharge and fill on the aquatic ecosystem include: placing fill material only where it is needed for the proposed project and confining it to the smallest practicable area. The areas disturbed by construction would be returned as close as possible to pre-project conditions where practicable.

On the basis of the guidelines, the proposed project is specified as complying with the inclusion of appropriate and practical conditions to minimize pollution or adverse effect on the aquatic ecosystem

IV. References

APHA. 1998. Standard methods for the examination of water and wastewater. American Public Health Association, Washington, D.C.

Fris, M. B. and R. W. DeHaven. 1993. A community-based Habitat Suitability Index model for Shaded Riverine Aquatic Cover, selected reaches of the Sacramento River system (draft). USDI, FWS, Sacramento Field Office, CA. 23 pp.

USFWS (U.S. Fish and Wildlife Service). 1999. Conservation Guidelines for the Valley Elderberry Longhorn Beetle. U.S. Fish and Wildlife Service, Sacramento, CA.

USFWS (U. S. Fish and Wildlife Service). 2006. Re: Response to the October 31, 2006 initiation of formal Section 7 ESA consultation for the Sacramento River Bank Protection Project, Sacramento River Mile 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, and 68.9L, and Steamboat Slough River Mile 19.0R, 19.4R, and 22.7R in Sacramento and Yolo counties, California. Record No. 1-1-07-I-0110. Letter from Susan Moore, Field Supervisor, USFWS, Sacramento, California to Scott E. Clark, Chief, Planning Division, U. S. Army Corps of Engineers, Sacramento, California. 1 November.

Appendix F
Air Quality Emissions Data

Road Construction Emissions Model, Version 5.2

Emission Estimates for -> Waterside construction (phase I and II)					Exhaust	Fugitive Dust	
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	20	96	135	8	8	0	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (pounds/day)	20	96	135	8	8	0	
Total (tons/construction project)	0.63	2.84	4.31	0.24	0.24	0.00	<-tons
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	4					
	Total Project Area (acres) ->	1					
	Maximum Area Disturbed/Day (acres) ->	0					
	Total Soil Imported/Exported (yd ³ /day)->	81					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							
Emission Estimates for -> Waterside construction (phase I and II)					Exhaust	Fugitive Dust	
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	9	43	61	4	4	0	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (kilograms/day)	9	43	61	4	4	0	
Total (megagrams/construction project)	0.57	2.58	3.91	0.22	0.22	0.00	<-megagrams
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	4					
	Total Project Area (hectares) ->	0					
	Maximum Area Disturbed/Day (hectares) ->	0					
	Total Soil Imported/Exported (meters ³ /day)->	62					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							

Figure 1. Emissions estimates for sites undergoing waterside construction during phase I and II (Sites RM 16.9L, 19.0R, 19.4R, 22.7R, 33.0R, 33.3R, 43.7R, 44.7R, and 47.9R). Total Project area and total soil imported/exported vary by site, but emission estimates are the same for all the aforementioned sites due to common assumptions about equipment usage.

Road Construction Emissions Model, Version 5.2

Emission Estimates for -> Waterside construction (phase I)					Exhaust	Fugitive Dust	
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	18	87	123	7	7	0	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (pounds/day)	18	87	123	7	7	0	
Total (tons/construction project)	0.29	1.29	1.97	0.11	0.11	0.00	<-tons
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (acres) ->	1					
	Maximum Area Disturbed/Day (acres) ->	0					
	Total Soil Imported/Exported (yd ³ /day)->	233					

PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.

Emission Estimates for -> Waterside construction (phase I)					Exhaust	Fugitive Dust	
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	8	40	56	3	3	0	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (kilograms/day)	8	40	56	3	3	0	
Total (megagrams/construction project)	0.26	1.17	1.79	0.10	0.10	0.00	<-megagrams
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (hectares) ->	0					
	Maximum Area Disturbed/Day (hectares) ->	0					
	Total Soil Imported/Exported (meters ³ /day)->	178					

PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.

Figure 2. Phase I emissions estimates for sites undergoing waterside construction during phase I only (Sites RM 47.0L, 48.2R, 62.5R, 68.9L, and 78.0L). Total Project area and total soil imported/exported vary by site, but emission estimates are the same for all the aforementioned sites due to common assumptions about equipment usage.

Road Construction Emissions Model, Version 5.2

Emission Estimates for -> RM 47.0L (phase II)					Exhaust	Fugitive Dust	
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	18	110	139	12	7	5	
Drainage/Utilities/Sub-Grade	0	0	1	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (pounds/day)	18	110	139	12	7	5	
Total (tons/construction project)	0.28	1.78	2.11	0.18	0.11	0.08	<-tons
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (acres) ->	2					
	Maximum Area Disturbed/Day (acres) ->	0					
	Total Soil Imported/Exported (yd ³ /day)->	135					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							
Emission Estimates for -> RM 47.0L (phase II)					Exhaust	Fugitive Dust	
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	8	50	63	5	3	2	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (kilograms/day)	8	50	63	5	3	2	
Total (megagrams/construction project)	0.26	1.62	1.91	0.17	0.10	0.07	<-megagrams
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (hectares) ->	1					
	Maximum Area Disturbed/Day (hectares) ->	0					
	Total Soil Imported/Exported (meters ³ /day)->	103					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							

Figure 3. Phase II emission estimates for Site RM 47.0L, landside construction.

Road Construction Emissions Model, Version 5.2

Emission Estimates for -> RM 48.2R (phase II)					Exhaust	Fugitive Dust	
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	20	129	162	12	7	5	
Drainage/Utilities/Sub-Grade	0	0	1	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (pounds/day)	20	129	162	12	7	5	
Total (tons/construction project)	0.31	2.14	2.42	0.19	0.12	0.08	<-tons
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (acres) ->	2					
	Maximum Area Disturbed/Day (acres) ->	0					
	Total Soil Imported/Exported (yd ³ /day)->	204					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							
Emission Estimates for -> RM 48.2R (phase II)					Exhaust	Fugitive Dust	
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	9	59	73	6	3	2	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (kilograms/day)	9	59	73	6	3	2	
Total (megagrams/construction project)	0.28	1.94	2.19	0.18	0.11	0.07	<-megagrams
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (hectares) ->	1					
	Maximum Area Disturbed/Day (hectares) ->	0					
	Total Soil Imported/Exported (meters ³ /day)->	156					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							

Figure 4. Phase II emission estimates for Site RM 48.2R, landside construction.

Road Construction Emissions Model, Version 5.2

Emission Estimates for -> RM 62.5R (phase II)					Exhaust	Fugitive Dust	
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	15	76	100	11	6	5	
Drainage/Utilities/Sub-Grade	0	0	1	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (pounds/day)	15	76	100	11	6	5	
Total (tons/construction project)	0.23	1.17	1.58	0.17	0.09	0.08	<-tons
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (acres) ->	1					
	Maximum Area Disturbed/Day (acres) ->	0					
	Total Soil Imported/Exported (yd ³ /day)->	55					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							
Emission Estimates for -> RM 62.5R (phase II)					Exhaust	Fugitive Dust	
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	7	35	45	5	3	2	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (kilograms/day)	7	35	45	5	3	2	
Total (megagrams/construction project)	0.21	1.06	1.43	0.15	0.08	0.07	<-megagrams
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (hectares) ->	0					
	Maximum Area Disturbed/Day (hectares) ->	0					
	Total Soil Imported/Exported (meters ³ /day)->	42					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							

Figure 5. Phase II emission estimates for Site RM 62.5R, landside construction.

Road Construction Emissions Model, Version 5.2

Emission Estimates for -> RM 68.9L (phase II)					Exhaust	Fugitive Dust	
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	21	146	180	13	8	5	
Drainage/Utilities/Sub-Grade	0	0	1	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (pounds/day)	21	146	180	13	8	5	
Total (tons/construction project)	0.34	2.44	2.67	0.20	0.13	0.08	<-tons
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (acres) ->	2					
	Maximum Area Disturbed/Day (acres) ->	0					
	Total Soil Imported/Exported (yd ³ /day)->	255					

PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.

Emission Estimates for -> RM 68.9L (phase II)					Exhaust	Fugitive Dust	
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	10	66	82	6	4	2	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (kilograms/day)	10	66	82	6	4	2	
Total (megagrams/construction project)	0.31	2.21	2.43	0.18	0.11	0.07	<-megagrams
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (hectares) ->	1					
	Maximum Area Disturbed/Day (hectares) ->	0					
	Total Soil Imported/Exported (meters ³ /day)->	195					

PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.

Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.

Figure 6. Phase II emission estimates for Site at 68.9L, landside construction.

Road Construction Emissions Model, Version 5.2

Emission Estimates for -> RM 78.0L (phase II)					Exhaust	Fugitive Dust	
Project Phases (English Units)	ROG (lbs/day)	CO (lbs/day)	NOx (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	PM10 (lbs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	23	161	199	13	8	5	
Drainage/Utilities/Sub-Grade	0	0	1	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (pounds/day)	23	161	199	13	8	5	
Total (tons/construction project)	0.36	2.73	2.92	0.21	0.13	0.08	<-tons
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (acres) ->	2					
	Maximum Area Disturbed/Day (acres) ->	0					
	Total Soil Imported/Exported (yd ³ /day)->	273					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							
Emission Estimates for -> RM 78.0L (phase II)					Exhaust	Fugitive Dust	
Project Phases (Metric Units)	ROG (kgs/day)	CO (kgs/day)	NOx (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	PM10 (kgs/day)	
Grubbing/Land Clearing	0	0	0	0	0	0	
Grading/Excavation	10	73	90	6	4	2	
Drainage/Utilities/Sub-Grade	0	0	0	0	0	0	
Paving	0	0	0	0	0	0	
Maximum (kilograms/day)	10	73	90	6	4	2	
Total (megagrams/construction project)	0.33	2.47	2.65	0.19	0.12	0.07	<-megagrams
Notes:	Project Start Year ->	2006					
	Project Length (months) ->	2					
	Total Project Area (hectares) ->	1					
	Maximum Area Disturbed/Day (hectares) ->	0					
	Total Soil Imported/Exported (meters ³ /day)->	209					
PM10 estimates assume 50% control of fugitive dust from watering and associated dust control measures if a minimum number of water trucks are specified.							
Total PM10 emissions shown in column F are the sum of exhaust and fugitive dust emissions shown in columns H and I.							

Figure 7. Phase II emission estimates for Site RM 78.0L, landside construction.

Appendix G

2006 Site Reconnaissance Photographs



a) Site RM 16.9L riparian vegetation, November 2006.



b) Site RM 16.9L waterside, July 2006, Ayres Associates.

Figure G-1. Site reconnaissance photographs at Site RM 16.9L.



a) Site RM 19.0R riparian vegetation, November 2006.



b) Site RM 19.0R waterside, November 2006.

Figure G-2. Site reconnaissance photographs at **Site RM 19.0R**.



a) Site RM 19.4R riparian vegetation, November 2006.



b) Site RM 19.4R waterside, November 2006.

Figure G-3. Site reconnaissance photographs at **Site RM 19.4R**.



a) Site RM 22.7R riparian vegetation, November 2006.



b) Site RM 22.7R waterside, November 2006.

Figure G-4. Site reconnaissance photographs at **Site RM 22.7R**.



a) Site RM 33.0R riparian vegetation, November 2006.



b) Site RM 33.0R waterside, July 2006, Ayres Associates.

Figure G-5. Site reconnaissance photographs at **Site RM 33.0R**.



a) Site RM 33.3R riparian vegetation, November 2006.



b) Site RM 33.3R waterside, July 2006, Ayres Associates.

Figure G-6. Site reconnaissance photographs at **Site RM 33.3R**.



a) Site RM 43.7R riparian vegetation, November 2006.



b) Site RM 43.7R waterside, July 2006, Ayres Associates.

Figure G-7. Site reconnaissance photographs at **Site RM 43.7R**.



a) Site RM 44.7L riparian vegetation, November 2006.



b) Site RM 44.7L waterside, July 2006, Ayres Associates.

Figure G-8. Site reconnaissance photographs at **Site RM 44.7L**.



a) Site RM 47.0L riparian vegetation, November 2006.



b) Site RM 47.0L waterside, July 2006, Ayres Associates.

Figure G-9. Site reconnaissance photographs at **Site RM 47.0L**.



a) Site RM 47.9L riparian vegetation, November 2006.



b) Site RM 47.9L waterside, July 2006, Ayres Associates.

Figure G-10. Site reconnaissance photographs at **Site RM 47.9L**.



a) Site RM 48.2R riparian vegetation, November 2006.



b) Site RM 48.2R waterside, July 2006, Ayres Associates.



a) Site RM 62.5R riparian vegetation, November 2006.



b) Site RM 62.5R waterside, July 2006, Ayres Associates.

Figure G-12. Site reconnaissance photographs at **Site RM 62.5R**.



a) Site RM 68.9L riparian vegetation, November 2006.



b) Site RM 68.9L waterside, July 2006, Ayres Associates.

Figure G-13. Site reconnaissance photographs at **Site RM 68.9L**.



a) Site RM 78.0L riparian vegetation, November 2006.



b) Site RM 78.0L waterside, July 2006, Ayres Associates.

Appendix H

Hazardous, Toxic and Radioactive Waste Assessment

**HAZARDOUS, TOXIC, AND RADIOACTIVE
WASTE ASSESSMENT**
Sacramento River Bank Protection Project
Sacramento River and Tributaries, California

Prepared for:

Ayres Associates
2150 River Plaza Drive
Suite 330
Sacramento, California 95833

November 21, 2006

Prepared by:



MECX, LLC
12269 East Vassar Avenue
Aurora, CO 80014
www.mecx.net

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- Appendix B: Steamboat Slough Site River Mile 19.0 R - EDR Report, Aerial Photographs, Historical Topographic Maps
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1.0 EXECUTIVE SUMMARY

MECX, LLC (MECX) has performed a hazardous, toxic and radioactive waste (HTRW) site assessment for 14 sites located in California along the Sacramento River and its tributary, Steamboat Slough (Sites), pursuant to the United States Army Corp of Engineers (USACE) Engineering Regulation (ER) 1165-2-132. This HTRW assessment has revealed no recognized environmental conditions (RECs) in connection with the Sites, except for those described below.

Possible Recognized Environmental Conditions

- Remedial Investigation Near SAC16.9L – Currently a remedial investigation is occurring for a leaking gasoline UST discovered at a site (Isleton General Sore/Dunn) south of SAC16.9L. total petroleum hydrocarbons and volatile organic constituents have been detected in the Dunn site monitoring wells and data from the investigation indicate that the contamination is migrating west, toward SAC16.9L.

A subsurface investigation would be necessary to determine if the leaking UST has adversely affected SAC16.9L.

- Potential Contamination Near SAC47.0L – Historical aerial photographs indicate that the area designated for site parking has been used for material storage since at least 1971. At the time of the site reconnaissance, old creosote railroad ties and open, rusting drums containing railroad spikes were stored in this area. Depending on the nature of materials stored in this area and the storage practices, soils under the parking area may be impacted with unknown contaminants which may have migrated to the soils and sediments of SAC47.0L.

A subsurface investigation would be necessary to determine if past practices have adversely affected SAC47.0L.

- Remedial Investigations Near SAC62.5R – One facility near SAC62.5R is currently undergoing a remedial investigation and two others have been the focus of remedial investigations in the past. The current remedial investigation is at the Petroleum Tank Line, located about 4000 feet south-southeast of SAC62.5R. This site is impacted by diesel fuel and volatile organic constituent contamination. Groundwater flow data available from this site indicate that the contamination could potentially move toward SAC62.5R. The other two sites, Home Depot and the Riverpoint Business Park, are also south of SAC62.5R. Soils at the Home Depot site are impacted by arsenic through the historical use of arsenic-containing pesticides. Soils at Riverpoint Business Park are impacted by lead from historical practices at a former battery recycling facility. While metals are not as mobile as organic constituents, these sites are close to SAC62.5R and the contamination has been present for many years. Therefore, the contamination associated with these sites, arsenic and lead, may affect SAC62.5R.

A subsurface investigation would be necessary to determine if SAC62.5R is adversely affected by diesel, volatile organic constituents, arsenic, or lead.

Following this Executive Summary, Section 2.0 provides the HTRW assessment of the Sites. Section 3.0 presents the results of MEC^X HTRW assessment of the Sites. Documentation for the activities described herein is provided in the Appendices at the end of this report.

2.0 HTRW SITE ASSESSMENTS

2.1 INTRODUCTION

This report presents the findings of a hazardous, toxic and radioactive waste (HTRW) assessment of the Sites. Ayers Associates (Client) retained MEC^X to conduct this assessment in accordance with the terms of the Environmental Consulting Services Agreement between MEC^X and Client dated November 3, 2006.

2.1.1 Purpose

This report is provided to Client for the purpose of identifying possible HTRW that may be located within USACE project boundaries or that may affect or be affected by USACE projects.

2.1.2 Scope of Services

This HTRW assessment was conducted according to USACE ER 1165-2-132.

2.1.3 Significant Assumptions

In conducting the HTRW assessment, MEC^X made the assumptions below.

- MEC^X would have the timely, unrestricted access necessary to complete the scope of work.
- In general, when groundwater flow information is not available, it is assumed to mimic the topographic gradient. Near rivers, however, groundwater flow is assumed to vary with the seasonal river flow. In times of low river flow, groundwater is assumed to flow toward the river and with the flow of the river. In high river flow, groundwater is assumed to move away from the river to recharge the groundwater system.

2.1.4 Limitations and Exceptions

The accuracy and completeness of this report is necessarily limited by the following:

- Access limitations – None;
- Physical obstructions – Direct visualization of approximately one-third of Sacramento River Site River Mile 68.9L was precluded due to the presence of a backhoe performing shrub and tree-trimming activities. Upon arrival at the Site, MEC^X found that shrubs in the lower third of the site had been trimmed, leaving significant amounts of debris and rendering visualization of the ground impossible. Additionally, debris blocked the only viable access point to waterline. River bank slope, vegetation density, leaf litter, deadfall, and/or slash piles precluded direct visualization of the ground in some places at all Sites;
- Historical Data Source Failure – Sanborn Fire Insurance maps were not available for any Site.

2.1.5 Special Terms and Conditions

In conducting the HTRW assessment, MEC^X employed technical judgments within the constraints of time and scope of the project. MEC^X's conclusions are based on the conditions existing at the time of the Site inspections. Past conditions which were not observable, were established by review of standard environmental sources. MEC^X depended on readily available information, without subjecting it to any further independent verification.

2.2 SITE DESCRIPTIONS

2.2.1 Sacramento River Site River Mile 16.9 L

Sacramento River Site River Mile 16.9 L (SAC16.9L) is located on the left bank of the Sacramento River, within the town of Isleton in Sacramento County, California, at historical river mile 16.9. The bank protection footprint is approximately 210 feet long, encompasses approximately 1.2 acres, and parallels and is accessed from Highway 160. The construction easement is approximately 420 feet long and encompasses approximately 3.3 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 1. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 1. Approximate Limits of SAC16.9L

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.162842°	-121.617188°	38.162896°	-121.617645°
38.163667°	-121.616955°	38.164028°	-121.617419°
38.163600°	-121.616158°	38.163726°	-121.615941°
38.162766°	-121.616402°	38.162716°	-121.616117°

The properties in the immediate vicinity of the Site are located on the south side of Highway 160 and are agricultural or developed for residential use. Properties directly across Highway 160 from the Site include three private homes and portion of an unplanted field.

2.2.2 Steamboat Slough Site River Mile 19.0 R

Steamboat Slough Site River Mile 19.0 R (STE19.0R) is located on the right bank of the Steamboat Slough in Yolo County, California, at historical river mile 19.0. The bank protection footprint is approximately 550 feet long, encompasses approximately 2.1 acres, and parallels and is accessed from Ryer Road. The construction easement is approximately 700 feet long and encompasses approximately 3.3 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 2. Access to the lower bank of the Site was limited in places by the steep bank and dense vegetation.

Table 2. Approximate Limits of STE19.0R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.215769 ^o	-121.607773 ^o	38.215528 ^o	-121.608048 ^o
38.216920 ^o	-121.606549 ^o	38.214964 ^o	-121.606847 ^o
38.216554 ^o	-121.605831 ^o	38.217160 ^o	-121.606307 ^o
38.215445 ^o	-121.606987 ^o	38.216687 ^o	-121.605376 ^o

The properties in the immediate vicinity of the Site are located on the west side of Ryer Road and are agricultural or developed for residential use. The property directly across Ryer Road from the Site includes a private home and an agricultural field.

2.2.3 Steamboat Slough Site River Mile 19.4 R

Steamboat Slough Site River Mile 19.4 R (STE19.4R) is located on the right bank of the Steamboat Slough, Yolo County, California, at historical river mile 19.4. The bank protection footprint is approximately 275 feet long, encompasses approximately 1.2 acres, and parallels and is accessed from Ryer Road. The construction easement is approximately 515 feet long and encompasses approximately 3.4 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 3. Access to the lower bank of the Site was limited by the steep bank and dense vegetation.

Table 3. Approximate Limits of STE19.4R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.220566 ^o	-121.603908 ^o	38.220827 ^o	-121.603768 ^o
38.220332 ^o	-121.603060 ^o	38.220568 ^o	-121.602650 ^o
38.219830 ^o	-121.604322 ^o	38.219655 ^o	-121.604467 ^o
38.219517 ^o	-121.603508 ^o	38.219130 ^o	-121.603514 ^o

The properties in the immediate vicinity of the Site are located on the west side of Ryer Road and are agricultural or developed for residential use. The property directly across Ryer Road from the Site is an agricultural field.

2.2.4 Steamboat Slough Site River Mile 22.7 R

Steamboat Slough Site River Mile 22.7 R (STE22.7R) is located on the right bank of the Steamboat Slough, Sacramento County, California, at historical river mile 22.7. The bank protection footprint is approximately 220 feet long, encompasses approximately

1.1 acres, and parallels and is accessed from Sutter Island Road. The construction easement is approximately 380 feet long and encompasses approximately 2.1 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 4. Access to the lower bank of the Site was limited by the steep bank and access to the upper bank was limited by dense vegetation.

Table 4. Approximate Limits of STE22.7R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.262673°	-121.593223°	38.262606°	-121.593437°
38.262132°	-121.593067°	38.261870°	-121.593245°
38.262813°	-121.592136°	38.262790°	-121.591567°
38.262288°	-121.592150°	38.262015°	-121.591510°

The properties in the immediate vicinity of the Site are located on the north side of Sutter Island Road and are agricultural or developed residential use. The property directly across Sutter Island Road from the Site is an agricultural field.

2.2.5 Sacramento River Site River Mile 33.0 R

Sacramento River Site River Mile 33.0 R (SAC33.0R) is located on the right bank of the Sacramento River, in Sacramento County, California, at historical river mile 33.0. The bank protection footprint is approximately 325 feet long, encompasses approximately 0.75 acres, and parallels and is accessed from Highway 160. The construction easement is approximately 550 feet long and encompasses approximately 2.7 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 5. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 5. Approximate Limits of SAC33.0R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.313056°	-121.578758°	38.312686°	-121.578694°
38.313125°	-121.578172°	38.312895°	-121.577764°
38.313845°	-121.578879°	38.314209°	-121.5790006°
38.313830°	-121.578305°	38.314285°	-121.578044°

The properties in the immediate vicinity of the Site are located on the west side of Highway 160 and are agricultural or are developed for residential use. The property

directly across Highway 160 from the Site includes one private home and an agricultural field.

2.2.6 Sacramento River Site River Mile 33.3 R

Sacramento River Site River Mile 33.3 R (SAC33.3R) is located on the right bank of the Sacramento River, in Sacramento County, California, at historical river mile 33.3. The bank protection footprint is approximately 235 feet long, encompasses approximately 1.0 acre, and parallels and is accessed from Highway 160. The construction easement is approximately 450 feet long and encompasses approximately 3.0 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 6. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 6. Approximate Limits of SAC33.3R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.318863 ^o	-121.578844 ^o	38.318583 ^o	-121.578953 ^o
38.318809 ^o	-121.578352 ^o	38.318500 ^o	-121.578103 ^o
38.319730 ^o	-121.578687 ^o	38.319875 ^o	-121.578664 ^o
38.319694 ^o	-121.578201 ^o	38.319821 ^o	-121.577889 ^o

The properties in the immediate vicinity of the Site are located on the west side of Highway 160 and are agricultural or are developed for residential use. The property directly across Highway 160 from the Site includes one private home and an agricultural field.

2.2.7 Sacramento River Site River Mile 43.7 R

Sacramento River Site River Mile 43.7 R (SAC43.7R) is located on the right bank of the Sacramento River, in Yolo County, California, at historical river mile 43.7. The bank protection footprint is approximately 1080 feet long, encompasses approximately 6.4 acres, and parallels and is accessed from River Road. The construction easement is approximately 1340 feet long and encompasses approximately 11.4 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 7. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 7. Approximate Limits of SAC43.7R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.436063°	-121.526927°	38.436066°	-121.527544°
38.435439°	-121.526797°	38.435016°	-121.527476°
38.435832°	-121.523045°	38.435797°	-121.522761°
38.435205°	-121.523019°	38.434958°	-121.522777°

The properties in the immediate vicinity of the Site are located on the north side of River Road and are agricultural or are developed for residential use. Properties directly across River Road from the Site include three private homes backed by agricultural fields.

2.2.8 Sacramento River Site River Mile 44.7 R

Sacramento River Site River Mile 44.7 R (SAC44.7R) is located on the right bank of the Sacramento River, in Yolo County, California, at historical river mile 44.7. The bank protection footprint is approximately 1580 feet long, encompasses approximately 7.3 acres, and parallels and is accessed from River Road. The construction easement is approximately 1720 feet long and encompasses approximately 13.4 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 8. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 8. Approximate Limits of SAC44.7R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.436532°	-121.511715°	38.436441°	-121.512091°
38.435853°	-121.511449°	38.438461°	-121.511661°
38.438560°	-121.506945°	38.438700°	-121.506731°
38.438127°	-121.506536°	38.438098°	-121.506112°

The properties in the immediate vicinity of the Site are located on the north side of River Road and are agricultural or are developed for residential use. Properties directly across River Road from the Site include four private homes and agricultural fields.

2.2.9 Sacramento River Site River Mile 47.0 L

Sacramento River Site River Mile 47.0 L (SAC47.0L) is located on the left bank of the Sacramento River, at the northern limits of the town of Freeport in Sacramento County,

California, at historical river mile 47.0. The bank protection footprint is approximately 1160 feet long, encompasses approximately 9.3 acres, and parallels and is accessed from Freeport Boulevard. The construction easement is approximately 1430 feet long and encompasses approximately 13.8 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 9. Access to the Site was limited in places by Sacramento storm water outfalls, the steep bank and dense vegetation.

Table 9. Approximate Limits of SAC47.0L

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.468518 ^o	-121.503574 ^o	38.471951 ^o	-121.505085 ^o
38.468484 ^o	-121.504366 ^o	38.471419 ^o	-121.505903 ^o
38.471731 ^o	-121.504931 ^o	38.468206 ^o	-121.503521 ^o
38.471307 ^o	-121.505569 ^o	38.468196 ^o	-121.504591 ^o

The properties in the immediate vicinity of the Site are located primarily on the east side of Freeport Boulevard and are developed for commercial and recreational use. Properties directly across Freeport Boulevard from the Site include an athletic complex with soccer and baseball fields, a Sacramento storm water outfall pumping station, and an office complex. Immediately adjacent to the Site and on the same side of Freeport Boulevard is a small Sacramento drinking water treatment plant. Additionally, the entire eastern edge of the side is bounded by abandoned railroad tracks and a storage area currently housing railroad ties, spikes, and gravel.

2.2.10 Sacramento River Site River Mile 47.9 R

Sacramento River Site River Mile 47.9 R (SAC47.9R) is located on the right bank of the Sacramento River, in Yolo Country, California, at historical river mile 47.9. The bank protection footprint is approximately 1030 feet long, encompasses approximately 2.6 acres, and parallels and is accessed from River Road. The construction easement is approximately 1200 feet long and encompasses approximately 4.2 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 10. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 10. Approximate Limits of SAC47.9R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.473094 ^o	-121.516591 ^o	38.473056 ^o	-121.516260 ^o
38.473636 ^o	-121.516414 ^o	38.473897 ^o	-121.515957 ^o
38.473332 ^o	-121.520483 ^o	38.473331 ^o	-121.520483 ^o
38.73927 ^o	-121.570363 ^o	38.474169 ^o	-121.520334 ^o

The properties in the immediate vicinity of the Site are located on the south side of River Road and are agricultural or developed for residential use. Properties directly across River Road from the Site include four private homes and agricultural fields.

2.2.11 Sacramento River Site River Mile 48.2 R

Sacramento River Site River Mile 48.2 R (SAC48.2R) is located on the right bank of the Sacramento River, in Yolo County, California, at historical river mile 48.2. The bank protection footprint is approximately 1040 feet long, encompasses approximately 2.6 acres, and parallels and is accessed from River Road. The construction easement is approximately 1200 feet long and encompasses approximately 4.2 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 11. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 11. Approximate Limits of SAC48.2R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.473189 ^o	-121.524328 ^o	38.473148 ^o	-121.524720 ^o
38.473723 ^o	-121.524270 ^o	38.473921 ^o	-121.524682 ^o
38.473332 ^o	-121.520483 ^o	38.473331 ^o	-121.520483 ^o
38.73927 ^o	-121.570363 ^o	38.474169 ^o	-121.520334 ^o

The properties in the immediate vicinity of the Site are located on the south side of River Road and are agricultural or developed for residential use. Properties directly across River Road from the Site include four private homes and agricultural fields.

2.2.12 Sacramento River Site River Mile 62.5 R

Sacramento River Site River Mile 62.5 R (SAC62.5R) is located on the right bank of the Sacramento River, within the town of West Sacramento in Yolo County, California, at historical river mile 62.5. The bank protection footprint is approximately 255 feet long,

encompasses approximately 1.2 acres, and parallels and is accessed from North Harbor Boulevard. The construction easement is approximately 400 feet long and encompasses 3.5 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 12. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 12. Approximate limits of SAC62.5R

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.597223°	-121.548315°	38.597214°	-121.548711°
38.597689°	-121.548003°	38.598058°	-121.548162°
38.596973°	-121.547570°	38.596784°	-121.547245°
38.597542°	-121.547409°	38.597720°	-121.546952°

The properties in the immediate vicinity of the Site are located on the south side of North Harbor Boulevard and are undeveloped or developed for commercial and residential use. The property directly across North Harbor Boulevard from the Site is undeveloped.

2.2.13 Sacramento River Site River Mile 68.9 L

Sacramento River Site River Mile 68.9 L (SAC68.9L) is located on the left bank of the Sacramento River, in Sacramento County, California, at historical river mile 68.9. The bank protection footprint is approximately 785 feet long, encompasses approximately 4.56 acres, and parallels and is accessed from Garden Highway. The construction easement is approximately 1000 feet long and encompasses approximately 7.4 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 13. Access to the south end of the Site was limited by the presence of a backhoe performing tree and shrub trimming activities. Access to the Site was also limited in places by the steep bank and dense vegetation.

Table 13. Approximate Limits of SAC68.9L

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.655998°	-121.602656°	38.655731°	-121.602399°
38.655532°	-121.603439°	38.655131°	-121.603404°
38.657789°	-121.604187°	38.658021°	-121.604351°
38.657341°	-121.604975°	38.657316°	-121.605313°

The properties in the immediate vicinity of the Site are located on the east side of Garden Highway and are agricultural or developed for residential use. Properties directly across Garden Highway from the Site include two agricultural fields.

2.2.14 Sacramento River Site River Mile 78.0 L

Sacramento River Site River Mile 78.0 L (SAC78.0L) is located on the left bank of the Sacramento River, in Sutter County, California, at historical river mile 78.0. The bank protection footprint is approximately 1060 feet long, encompasses approximately 5.4 acres, and parallels and is accessed from Garden Highway. The construction easement is approximately 1250 feet long and encompasses approximately 5.4 acres. Waypoints that describe the footprint of the bank protection site and the construction footprint are listed in Table 14. Access to the Site was limited in places by the steep bank and dense vegetation.

Table 14. Approximate Limits of SAC78.0L

Bank Protection Footprint		Construction Footprint	
Northing	Easting	Northing	Easting
38.768262°	-121.594455°	38.768071°	-121.594095°
38.768131°	-121.595269°	38.767727°	-121.595404°
38.770856°	-121.596105°	38.771159°	-121.596122°
38.770706°	-121.596875°	38.770873°	-121.597450°

The properties in the immediate vicinity of the Site are located on the east side of Garden Highway and are agricultural or developed for residential use. Properties directly across Garden Highway from the Site include agricultural fields.

2.3 STANDARD ENVIRONMENTAL RECORD SOURCES, FEDERAL AND STATE

The purpose of records review is to obtain and review records that help identify RECs in connection with the Site and surrounding vicinity.

MEC^X reviewed available regulatory information to evaluate potential environmental concerns on and near the Site. A state and federal database search was conducted by Environmental Data Resources, Inc. (EDR) for MEC^X. The EDR reports dated November 7, 2006 are presented in Appendices A-N. The databases reviewed and search distances used are specifically listed in the EDR reports. MEC^X reviewed the report, and assessed the likelihood that any identified facilities may result in a recognized environmental condition in connection with the Site. The specific databases that were searched are listed in the EDR report in Appendix A.

2.3.1 SAC16.9L

Leaking underground storage tanks (USTs), contaminated or potentially contaminated sites, and businesses with hazardous materials on site were identified as being within

one mile of the site. Closed sites, businesses with hazardous materials with no violations, and sites identified as located downstream or at lower elevations were considered to have no potential impact on the Site. Eliminating these sites left two sites: Isleton Cleaners, from the EnviroStor database and Isleton General Store, a leaking UST site listed in the EDR “Orphan Summary.” The Orphan Summary lists potential contamination sites for which specific locations are not available from the databases searched. In cases where exact locations cannot be determined, the potential impact on the site cannot be assessed.

The EDR report for this Site can be found in Appendix A.

2.3.1.1 Isleton Cleaners

The EnviroStor database lists both contaminated sites and potentially contaminated sites. Isleton Cleaners was located at 10 Main Street in Isleton, approximately 3000 feet east of SAC16.9L. This business is no longer operating, had no reported violations, and was listed as a historical site with no specified contamination.

2.3.1.2 Isleton General Store

A search of the California Geotracker LUFT Site indicated that the Isleton General Store is currently operated by Dunn and Son Dodge Dealership (Dunn). The Dunn site located at 208 2nd Street in Isleton, approximately 1700 feet east of SAC16.9L.

A leaking gasoline UST was discovered at Dunn in 1987. No regulatory enforcement actions were taken and according to the LUFT program, some remediation was performed in 1990. The site came under regulatory review again in 2002. In September 2006, an environmental contractor, EarthTec, filed a remediation pilot study work plan and two quarterly groundwater monitoring reports. Maps provided in the work plan show the contamination from Dunn moving westward, toward the Site. The maps also show one monitoring well (MW6) installed one block west of the Dunn site, between the plume and SAC16.9L, and two monitoring wells (MW2 and MW4) installed one block north of the Dunn site, between the plume and the Sacramento River. From 1994 to June 2006, about 30 quarterly monitoring samples have been collected from these wells. MW6 has had two detects for total petroleum hydrocarbons (TPH). The most recent detect was in June 2005 at a concentration of 63 parts-per-billion (ppb). MW2 has had sporadic detects for TPH, benzene, toluene, ethyl benzene, and total xylene. The most recent detect was in June 2005 for TPH only, at 84 ppb. MW4 has had two detects, one for TPH and one for toluene. The most recent detect was in December 2003 for TPH at 81 ppb.

2.3.2 STE19.0R

EDR reported no mapped sites from the search of available government records. The specific databases that were searched are listed in the EDR report in Appendix B.

2.3.3 STE19.4R

EDR reported no mapped sites from the search of available government records. The specific databases that were searched are listed in the EDR report in Appendix C.

2.3.4 STE22.7R

A single site, a business with hazardous materials on site, was identified as being within one mile of the STE22.7R. As this business is downstream of the Site, it has no potential impact on the Site.

The EDR report for STE22.7R site can be found in Appendix D.

2.3.5 SAC33.0R

EDR reported no mapped sites from the search of available government records; however, the site mapped for SAC33.3R could affect SAC33.0R as it is purportedly within one mile of SAC33.0R. This site, Delta Aerial Applicators, is an open case identified from the State Water Resources Control Board Spills, Leaks, Investigations, and Cleanups (SLIC) program. The Central Valley RWQCB contact for the site, Cori Condon, indicated that site inspections were conducted at the Delta Aerial Applicator property at 15931 Sutter Island Road in October 1985 and October 1987. The inspection reports note that the property has been used as a base for aerial pesticide, fertilizer, and seed application activities since the mid 1960s. After application, tanks and planes were rinsed on a paved area and the rinse water was allowed to drain to an earthen ditch. In the October 1987 report, the investigator noted that it was possible to see the path the rinse water followed in the ditch, up to the point it soaked into the ground, and at this spot the investigator noted there were six dead pear trees. There has been no further investigation of this site by the RWQCB since 1987.

Other available information, however, does not support Delta Aerial Applicators as being located at 15931 Sutter Island Road. First, the historical aerial photographs (see section 2.3.5) of the area identified as the location of Delta Aerial Applicators do not reveal an airfield. Additionally, the RWQCB Geotracker database maps the Delta Aerial Applicators site on the other side of the Sacramento River, but then lists this location under another facility name, JR Simplot. Investigation of the JR Simplot facility finds that it was not at this location. The RWQCB was contacted for clarification regarding the location of Delta Aerial Applicators. When contacted the second time, Cori Condon found a map indicating the location of Delta Aerial Applicators. According to this map, the facility is located on Grand Island Road, instead of Sutter Island Road, placing the facility approximately one-half mile downstream of SAC33.0R. Only the historical aerial photographs from 1993 and 1998 show Grand Island Road; however, both photographs show a strip of land that could be an airfield. Based on the absence of an airfield on Sutter Island Road and the possible presence of an airfield on Grand Island Road, MEC^X believes that the location of Delta Aerial Applicators is probably on Grand Island Road. As the site is actually located downstream of SAC33.0R, there is no potential impact.

The Orphan Summary identified leaking underground storage tanks (USTs), historical USTs, contaminated sites, and businesses with hazardous materials on site were as being within one mile of SAC33.0R. Closed sites, businesses with hazardous materials with no violations, and sites identified as located downstream or at lower elevations were considered to have no potential impact on the Site. Eliminating these sites left three sites for which exact locations could not be determined. Two of these sites,

Rueben Gentner and JH Thomas, were from the SWEEPS UST and/or the HIST UST databases, both of which list USTs and do not necessarily indicate contaminated sites. A search of the California Geotracker LUFT site did not identify any leaking USTs associated with these sites. The third site, Homackich and Mello, was identified as a business with hazardous materials on site. A search of the County of Sacramento Environmental Management Department's *Master List of Facilities and Toxic Site Clean-Up* did not identify this site. As no releases appear to be associated with these three sites, there is no potential impact on SAC33.0R.

The EDR report for SAC33.0R can be found in Appendix E.

2.3.6 SAC33.3R

One site, Delta Aerial Applicators, was identified as being within one mile of the Site. The specifics of this site are discussed above in Section 2.3.5. Additionally, the Orphan Summary sites identified for SAC33.0R are associated with SAC33.3R; however, as no releases appear to be associated with these sites, there is no potential impact on SAC33.3R.

The EDR report for SAC33.0R can be found in Appendix F.

2.3.7 SAC43.7R

One site was identified as being with one mile of SAC43.7R; however, as this site was determined to be on the opposite side of the Sacramento River, there is no potential impact on SAC43.7R.

Sites were also identified from the Orphan Summary. Closed sites, businesses with hazardous materials with no violations, and sites identified as located downstream or at lower elevations were considered to have no potential impact on the Site. Eliminating these sites left three sites for which exact locations could not be determined. Two of these sites, Shorter's Corner and Garter Ranch, were from the UST or HIST UST databases, both of which list USTs and do not necessarily indicate contaminated sites. A search of the California Geotracker LUFT site did not identify any leaking USTs associated with these sites; therefore, there is no potential impact on SAC43.7R. The third site, a power generation plant, was identified from the California Emissions Inventory Data. No emission violations for this plant were identified.

The EDR report for SAC43.7R can be found in Appendix G.

2.3.8 SAC44.7R

Historical USTs, contaminated sites, and businesses with hazardous materials on site were identified as being within one mile of SAC44.7R. Closed sites, businesses with no violations, and sites identified as located downstream, on the other side of the river, or at lower elevations were considered to have no potential impact on SAC44.7R. All mapped sites were eliminated.

Additionally, the Orphan Summary sites identified for SAC44.7R are also associated with SAC43.7R; however, as no releases appear to be associated with these sites, there is no potential impact on SAC44.7R.

The EDR report for SAC44.7R can be found in Appendix H.

2.3.9 SAC47.0L

Leaking USTs, historical USTs, contaminated sites, and businesses with hazardous materials on site were identified as being within one mile of SAC47.0R. Closed sites, businesses with no violations, and sites identified as located downstream, on the other side of the river, or at lower elevations were considered to have no potential impact on SAC47.0R. All mapped sites were eliminated.

Additionally, the Orphan Summary sites identified for SAC47.0R are also associated with SAC43.7R; however, as no releases appear to be associated with these sites, there is no potential impact on SAC47.0R.

The EDR report for SAC47.0R can be found in Appendix I.

2.3.10 SAC47.9R

Leaking USTs, historical USTs, contaminated sites, and businesses with hazardous materials on site were identified as being within one mile of either SAC47.9 or SAC48.2R. Closed sites, businesses with hazardous materials with no violations, and sites identified as located downstream, on the other side of the river, or at lower elevations were considered to have no potential impact on SAC47.9R. All mapped sites were eliminated.

Additionally, the Orphan Summary sites identified for SAC47.9R are also associated with SAC43.7R; however, as no releases appear to be associated with these sites, there is no potential impact on SAC47.9R.

The EDR report for SAC47.9R can be found in Appendix J.

2.3.11 SAC48.2R

Leaking USTs, historical USTs, contaminated sites, and businesses with hazardous materials on site were identified as being within one mile of either SAC47.9R or SAC48.2R. Closed sites, businesses with hazardous materials with no violations, and sites identified as located downstream, on the other side of the river, or at lower elevations were considered to have no potential impact on SAC48.2R. All mapped sites were eliminated.

Additionally, the Orphan Summary sites identified for SAC48.2R are also associated with SAC43.7R; however, as no releases appear to be associated with these sites, there is no potential impact on SAC48.2R.

The EDR report for SAC48.2R can be found in Appendix K.

2.3.12 SAC62.5R

Leaking USTs, Historical USTs, contaminated sites, and businesses with hazardous materials on site were identified as being within one mile of SAC62.5R. Closed sites, businesses with hazardous materials with no violations, and sites identified as located downstream, on the other side of the river, or at lower elevations were considered to

have no potential impact on SAC62.5R. After eliminating these sites, three mapped sites remained.

The EDR report for SAC62.5R can be found in Appendix L.

2.3.12.1 Riverpoint Business Park

This site, located at the intersection of Harbor Boulevard and Reed Avenue is, at its closest, approximately 600 feet south of SAC62.5R. Formerly the site was occupied by a battery recycling company. Lead from the used batteries has impacted soils at the site. According to the RWQCB contact for the site, Duncan Austin, although only some of the lead has been stabilized in concrete, there will be no further remedial investigations or remediation at the site. The contaminated area has been capped with asphalt and the property will be placed under a deed restriction. Per the deed restriction, the asphalt cap will be inspected yearly to assure proper water drainage.

2.3.12.2 Home Depot

This site, located at 700 Riverpoint Circle is, at its closest, approximately 1900 feet south of SAC62.5R. During a remedial investigation, high levels of arsenic contamination were found in the soils of the site. This contamination is from historical use of arsenic containing pesticides when the site was a pear orchard. According to the RWQCB contact for the site, Duncan Austin, there will be no further remedial investigations or remediation at the site. The contaminated area has been capped with asphalt and the property will be placed under a deed restriction. Per the deed restriction, the asphalt cap will be inspected yearly to assure proper water drainage.

2.3.12.3 Petroleum Tank Line

This site, located at 2600 Rice Avenue is, at its closest, approximately 4000 feet south-southeast of SAC62.5R. Four USTs were removed from three separate sites at the Petroleum Tank Line Facility in 1995. Soil beneath two tanks was discovered to be contaminated with diesel fuel or diesel and gasoline. Some of the contaminated soils have been excavated and stockpiled on-site. An environmental firm, Ramcon, performed an initial site investigation in February of 2005. This investigation determined that both soil and groundwater were impacted by diesel and volatile organic constituents. According to a quarterly monitoring report filed by Ramcon in November 2005, there are five monitoring wells installed at the facility; however, none are between the facility and SAC62.5R and none are proposed. According to the RWQCB contact, David Stavarek, recent quarterly sampling indicates that groundwater at the facility is flowing to the northwest at three monitoring wells (toward SAC62.5R) and to the northeast at one well. Current levels of contamination range from 830 ppb for 1,1-dichloroethene, to 35 ppb for tetrachloroethene, to less than 10 ppb for the rest of the monitored constituents. Additional work is pending for this site.

2.3.13 SAC68.9L

Historical USTs and businesses with hazardous materials on site were identified as being within one mile of the site. Closed sites, businesses with hazardous materials

with no violations, and sites identified as located downstream or at lower elevations were considered to have no potential impact on the Site. All mapped sites were eliminated.

One site from the Orphan Summary was identified. The site, JR McCray Plastering, was from the UST databases, which lists USTs and does not necessarily indicate a contaminated site. A search of the California Geotracker LUFT site did not identify any leaking USTs associated with this site; therefore, there is no potential impact on SAC68.9L.

The EDR report for SAC68.9L can be found in Appendix M.

2.3.14 SAC78.0L

EDR reported no mapped sites from the search of available government records and no sites from the Orphans Summary were identified. The EDR report for SAC78.0L can be found in Appendix N.

2.4 HISTORICAL USE INFORMATION ON THE SITE AND ADJOINING PROPERTIES

MEC^X reviewed the previous use of properties surrounding the Sites by reviewing aerial photographs and topographic maps.

The objective of the aerial photography and topographic map review was to identify past activity that could suggest hazardous substances use, storage, or disposal at the Sites, including industrial activities, open-pit dumping, tank or drum storage and disposal. These activities and associated objects can be identified by a combination of visual characteristics (i.e., size, shape, tone, shadow, and pattern).

2.4.1 SAC16.9L

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1957, 1968, 1971, 1984, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix A.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained consistent, primarily agricultural at the downstream end of SAC16.9L and single family residences at the upstream end. The land was developed for these residences after 1968 and most of the homes were built after 1971. The agricultural use of the adjoining property appears to have remained consistent, with no change in the amount of cultivated acreage.

No Sanborn fire insurance maps were available for the SAC16.9L.

2.4.2 STE19.0R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1968, 1971, 1987, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix B.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained primarily agricultural, with one

single family residence. A large barn was built on the property between 1952 and 1968, but there has been no change in the amount of cultivated land

No Sanborn fire insurance maps were available for STE19.0R.

2.4.3 STE19.4R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1968, 1971, 1987, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix C.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained agricultural, with a single family residence just beyond the upstream end of the Site.

No Sanborn fire insurance maps were available for STE19.4R.

2.4.4 STE22.7R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1968, 1971, 1981, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix D.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained consistently agricultural, with no increase or decrease in the amount of cultivated land. In 1952, there appeared to be one single family residence on an adjoining property. A small parcel of land near the site appears to have been sold between 1968 and 1971, and a larger home was built on this parcel between 1971 and 1981.

No Sanborn fire insurance maps were available for STE22.7R.

2.4.5 SAC33.0R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1993 and 1998. Aerial photographs were provided for 1968, 1971 and 1981; however, these photographs do not depict all of SAC33.0R. The aerial photographs are presented in the EDR report in Appendix E.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained agricultural in nature, with two associated single family residences. It appears that additional acreage west of SAC33.0R was cultivated between 1981 and 1993.

No Sanborn fire insurance maps were available for SAC33.0R.

2.4.6 SAC33.3R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1968, 1971, 1981, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix F.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained consistent, primarily agricultural

with one single family residence and the western terminus of the Highway 160 drawbridge. The amount of cultivated land on an adjoining property decreased slightly between 1952 and 1968 and then increased between 1981 and 1993, to a level greater than seen in 1952.

No Sanborn fire insurance maps were available for SAC33.3R.

2.4.7 SAC43.7R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1961, 1971, 1981, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix G.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained primarily agricultural, with no increase or decrease in the amount of cultivated land. Several single family residences were apparent in 1952 and one was added at approximately mid-site between 1971 and 1981.

No Sanborn fire insurance maps were available for SAC43.7R.

2.4.8 SAC44.7R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1961, 1971, 1981, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix H.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained primarily agricultural, with no increase or decrease in the number of single family residences or the amount of cultivated land.

No Sanborn fire insurance maps were available for the SAC44.7R.

2.4.9 SAC47.0L

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1961, 1971, 1981, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix I.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has changed from agricultural to commercial, recreational and public works. In 1952 all of the adjoining property was agricultural with one single family residence. Between 1952 and 1961 a drinking water treatment plant was built at the north end of SAC47.0L and a storm water runoff ditch was built near the south end of the SAC47.0L. The drinking water treatment plant expanded between 1961 and 1971, and a small parcel of land south of the plant appears to have been used for materials storage. The single family residence was removed between 1971 and 1981. An office building was built on the property adjoining the southern end of SAC47.0L between 1981 and 1993 and athletic fields were build on the property north of the office building between 1993 and 1998.

No Sanborn fire insurance maps were available for the SAC47.0L.

2.4.10 SAC47.9R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1961, 1971, 1981, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix J.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained primarily agricultural, with no increase or decrease in the number of single family residences or the amount of cultivated land.

No Sanborn fire insurance maps were available for the SAC47.9R.

2.4.11 SAC48.2R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1961, 1971, 1981, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix K.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained primarily agricultural, with no increase or decrease in the number of single family residences or the amount of cultivated land.

No Sanborn fire insurance maps were available for the SAC48.2R.

2.4.12 SAC62.5R

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1961, 1971, 1981, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix L.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has changed from agricultural to commercial. Prior to 1981 properties directly adjoining SAC62.5R were agricultural, as were properties to the west. Properties to the east were single family residences. Interstate 80, the northbound lanes of which are in SAC62.5R, was built in 1971. Most of the commercial development of the adjoining properties occurred between 1981 and 1993; although a significant amount of property to the west of SAC62.5R was developed between 1993 and 1998.

No Sanborn fire insurance maps were available for the SAC62.5R.

2.4.13 SAC68.9L

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1961, 1971, 1981, 1993 and 1999. The aerial photographs are presented in the EDR report in Appendix M.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained primarily agricultural, with no increase or decrease in the amount of cultivated land.

No Sanborn fire insurance maps were available for the SAC68.9L.

2.4.14 SAC78.0L

MEC^X reviewed historical black and white aerial photographs that were obtained from EDR for the years 1952, 1961, 1972, 1987, 1993 and 1998. The aerial photographs are presented in the EDR report in Appendix N.

Although data gaps exist, based on the reasonably ascertainable information reviewed, it appears that the adjoining property use has remained consistently agricultural, with no increase or decrease in the amount of cultivated land.

No Sanborn fire insurance maps were available for SAC78.0L.

2.5 INFORMATION FROM SITE RECONNAISSANCE

MEC^X's representative, Dr. Patti Meeks, performed visual inspections at the Sites on November 6-10, 2006.

MEC^X inspected the Sites for evidence of HTRW. MEC^X also inspected the Sites for evidence of a release or threat of release of hazardous materials to the environment on or in the vicinity of the Sites. Such evidence may include oil and grease staining, stressed and/or dying vegetation, UST vent/fill pipes, dumping activities, noxious odors, and/or storage of hazardous substances.

2.5.1 SAC16.9L

Access to the Site was limited in places by steep banks and dense vegetation and direct visualization of the ground was additionally limited by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed. The site appears to be used for fishing, as a small platform built on two pallets was found near the water. Trash and other evidence of human occupation was noted along the length of the site.

A gas station with large aboveground fuel storage tanks is in operation about 1100 feet upstream of SAC16.9L.

2.5.2 STE19.0R

Access to the Site was in places limited by steep banks and dense vegetation and direct visualization of the ground was additionally limited by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.3 STE19.4R

Access to the Site waterline was limited dense vegetation. Where direct access was not possible, the area was viewed from above or below. The upper banks of the site are lightly vegetated and appear to have been part of a controlled burn to control growth. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.4 STE22.7R

Access to the Site was limited by steep banks and dense vegetation. Where direct access was not possible, the area was viewed from above or below. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.5 SAC33.0R

Access to the Site was limited by dense vegetation and direct visualization of the ground was additionally limited by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. The site appears to be used for fishing, as fishing related trash and other evidence of human occupation was at waterline. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.6 SAC33.3R

Access to the Site was limited by dense vegetation and direct visualization of the ground was additionally limited by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. The primary formation of the site is the western terminus of the Highway 160 drawbridge, at the southern end of the site within the construction footprint. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.7 SAC43.7R

Access to the Site was limited in places by dense vegetation and direct visualization of the ground was additionally limited by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. The site has collected significant amount of trash, from paper and plastics to empty five-gallon buckets and tires. Despite the significant amount of detritus, where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.8 SAC44.7R

Access to the Site was limited by steep bank, some dense vegetation and slash piles. Additionally, direct visualization of the ground was limited in places by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.9 SAC47.0L

Access to the Site was limited in places by dense vegetation and storm water outfalls. Additionally, direct visualization of the ground was limited in places by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

At the north end of the Site are two sets of pipes through which the city of Sacramento pumps storm water runoff into the river. The associated pumping station is located on

the opposite side of Freeport Boulevard, near the southern end of the Site. These pumps were not in operation at the time of the site visit. The area designated for Site parking is currently occupied by stacks of railroad ties, some of which are in direct contact with the ground, rusting 50-gallon drums containing railroad tie spikes, and a large pile of roadbed gravel. This area is covered with gravel and no staining or signs of leakage were visible on the gravel. At the time of the site visit a backhoe was loading gravel into a truck. Where it was possible to visualize the ground, no direct evidence of the presence or possible presence of HTRW was observed in the designated parking area.

2.5.10 SAC47.9R

Access to the Site was limited in places by the steep bank, dense vegetation and some deadfall. Where direct access was not possible, the area was viewed from above or below. Additionally, direct visualization of the ground was limited in places by heavy leaf litter. Discarded tires were noted in the water and the remnants of an auto body were noted on the bank. Vegetation near the tires and auto remnants showed no signs of distress nor were there any signs of leakage from the auto. Also in the water, were a few, telephone pole-sized supports that perhaps served as a mooring. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.11 SAC48.2R

Access to the Site was limited by in places dense vegetation and direct visualization of the ground was limited in places by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. Signs of a fire were noted on some trees, both standing and fallen. An aluminum dock built on wooden supports, the remnants of two auto bodies, full bags of trash, and bags of cement mix were noted along the bank. A compressed gas tank, tires, and large metal pipe were noted in the water. Vegetation near these items showed no signs of distress nor were there any signs of leakage from the auto. The intake pipes for local irrigating were also noted on the bank. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.12 SAC62.5R

Access to the Site was limited in places by dense vegetation and direct visualization was limited in places by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. Some trash, including rusty pipe was noted along the bank. On the north side of the parking area, along the land side of the levee, several old creosote timbers were found to be jutting out of the ground where the bank was collapsing. There was no vegetation near the timbers and no soil staining was noted in the bare soil. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.13 SAC68.9L

Access to the southern end of the Site was severely limited by a backhoe performing tree and shrub trimming activities. Trees and shrubs had the southern end had already

been trimmed, and the ground was covered with the resulting slash and mulch. A slash piles also blocked the only access route to the waterline. Access to the rest of the Site was limited by steep banks, dense vegetation, and direct visualization was limited in places by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.5.14 SAC78.0L

Access to the Site was limited in places by dense vegetation and direct visualization was limited in places by heavy leaf litter. Where direct access was not possible, the area was viewed from above or below. Some trash was noted on the banks and in the water. Where access was possible, no direct evidence of the presence or possible presence of HTRW was observed.

2.6 CONSTRUCTION MATERIALS

Fuels, lubricants and other construction materials will enter the Sites during this project. To mitigate the possibility that fuels and lubricants used on-site may impact the environment, all construction employees must be trained in the proper use and handling of these materials. Also, an appropriate storage area must be identified for these materials. This area should have a secondary containment system such that any spills would be completely contained or stopped and mitigated prior to release to the river. A spill response plan must also be in place prior to the start of the project and all employees working on the project must receive appropriate training on this plan.

Construction materials, such as riprap, wood for habitat, and fill dirt, may be added to the levee system. These materials must be free of HTRW. To mitigate the possibility that HTRW is released to the environment through these materials, the supplying contractor should have strict specifications for these materials and the supplier providing these materials should supply certificates indicating these materials are free of HTRW.

3.0 SUMMARY OF FINDINGS, OPINIONS, AND CONCLUSIONS

This HTRW assessment has revealed no RECs in connection with the Sites, except for that described below.

- **Remedial Investigation Near SAC16.9L** – Currently a remedial investigation is occurring for a leaking gasoline UST discovered at a site (Dunn) south of SAC16.9L. Total petroleum hydrocarbons and volatile organic constituents have been detected in the Dunn site monitoring wells and data from the investigation indicate that the contamination is migrating west, toward SAC16.9L.

A subsurface investigation would be necessary to determine if soils or sediments at SAC16.9L have been adversely affected. If soils are to be disturbed during construction, such an investigation may be warranted, especially if evidence of staining is discovered or petroleum odors are noted. (Additionally, if petroleum odors are noted, the applicable sections of the site health and safety plan should be implemented.) Soil samples from the areas that are to be disturbed should

be sent to a laboratory certified by the State of California for volatile organic constituents and total petroleum hydrocarbon analyses. If the analytical results indicate the soils have not been affected by environmental practices at these facilities, then they may be reused at the site or sent for off-site disposal. If the analytical results indicate that the soils have been affected, they must not be reused at the site and, instead, should be disposed of appropriately.

- **Potential Contamination Near SAC47.0L** - Historical aerial photographs indicate that the area designated for SAC47.0L site parking has been used for material storage since at least 1971. At the time of the site reconnaissance, old creosote railroad ties and open, rusting drums containing railroad spikes were stored in this area. Depending on the nature of materials stored in this area and the storage practices, soils under the parking area may be impacted with unknown contaminants which may have migrated to the soils and sediments of SAC47.0L.
- **Remedial Investigations Near SAC62.5R** – Three facilities near SAC62.5R are currently undergoing remedial investigations or are likely to undergo remedial investigations. The Petroleum Tank Line, located about 400 feet south of SAC62.5R, is the furthest from SAC62.5R. This site is impacted by diesel and volatile organic constituent contamination. Groundwater flow data available from this site indicate that the contamination could potentially move toward SAC62.5R. The other two sites, Home Depot and the Riverpoint Business Park, are also south of SAC62.5R. Soils at the Home Depot site are impacted by arsenic from the historical use of arsenic-containing pesticides. Soils at Riverpoint Business Park are impacted by lead from historical practices at a former battery recycling facility. While metals are not as mobile as organic constituents, these sites are close to SAC62.5R and the contamination has been present for many years. Therefore, the contamination associated with these sites, arsenic and lead, may affect SAC62.5R. Therefore, contamination associated with these sites, arsenic and lead, respectively, may affect SAC62.5R.

A subsurface investigation would be necessary to determine if soils or sediments at SAC62.5R have been adversely affected. If soils are to be disturbed during construction, such an investigation may be warranted, especially if evidence of staining is discovered or petroleum or solvent odors are noted. (Additionally, if petroleum or solvent odors are noted, the applicable sections of the site health and safety plan should be implemented.) Soil samples from the areas that are to be disturbed should be sent to a laboratory certified by the State of California for lead, arsenic, volatile organic constituents, and total petroleum hydrocarbon analyses. If the analytical results indicate the soils have not been affected by environmental practices at these facilities, then they may be reused at the site or sent for off-site disposal. If the analytical results indicate that the soils have been affected, they must not be reused at the site and, instead, should be disposed of appropriately.

- **Dredged Material At All Sites** – According to USACE ER 1165-2-132, Section 4(a)2, dredged material or sediments beneath navigable waters are not considered as hazardous unless they are within the boundaries of a site designated by the United States Environmental Protection Agency (USEPA) or the state for a response action under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) or are within the boundaries of a site on the National Priorities List (NPL). The areas encompassing SAC16.9L, SAC33.0R, SAC33.3R, or SAC62.5R were not found to be listed as within a CERCLA sites or NPL sites. USACE ER 1165-2-132, however, further states that any sediments proposed for dredging must be tested and evaluated for their suitability for disposal as per the Clean Water Act (CWA) or the Marine Protection Research and Sanctuaries Act (MPRSA). Therefore, if the construction plan should require dredging at this site, sediment samples should be collected prior to dredging. The samples should be sent to a laboratory certified by the State of California for all applicable analyses. If the analytical results indicate the sediments have not been affected by environmental practices at the plant, then the sediments may be reused at the site or sent for off-site disposal. If the analytical results indicate that the sediments have been affected, the sediments must not be reused at the site and, instead, should be disposed of as hazardous waste.

APPENDIX A

**EDR REPORT FOR SAC16.9L
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 16.9
RiverMile 16.9
WALNUT GROVE, CA 95641**

Inquiry Number: 1790929.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 16.9
WALNUT GROVE, CA 95641

COORDINATES

Latitude (North): 38.163000 - 38° 9' 46.8"
Longitude (West): 121.616800 - 121° 37' 0.5"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 621177.8
UTM Y (Meters): 4224598.5
Elevation: 0 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-B5 ISLETON, CA
Most Recent Revision: 1993

West Map: 38121-B6 RIO VISTA, CA
Most Recent Revision: 1993

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

EXECUTIVE SUMMARY

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
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EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2 Cortese sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>CITY HALL</i>	<i>102 JACKSON BLVD</i>	<i>1/4 - 1/2 SE</i>	<i>A3</i>	<i>8</i>
<i>RAMOS OIL/MART-GAS (FORME</i>	<i>307 2ND</i>	<i>1/4 - 1/2 ESE</i>	<i>5</i>	<i>10</i>

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 10/11/2006 has revealed that there are 3 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>VIEIRA'S RESORT INC.</i> Facility Status: Case Closed	<i>15476 HWY 160</i>	<i>1/8 - 1/4 ESE</i>	<i>2</i>	<i>6</i>
<i>CITY HALL</i> Facility Status: Case Closed	<i>102 JACKSON BLVD</i>	<i>1/4 - 1/2 SE</i>	<i>A3</i>	<i>8</i>
<i>RAMOS OIL/MART-GAS (FORME</i> Facility Status: Case Closed	<i>307 2ND</i>	<i>1/4 - 1/2 ESE</i>	<i>5</i>	<i>10</i>

EXECUTIVE SUMMARY

CS: Contaminated Sites.

A review of the Sacramento Co. CS list, as provided by EDR, and dated 08/02/2006 has revealed that there are 2 Sacramento Co. CS sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
VIEIRA'S RESORT INC. Date Closed: 12/19/1995	15476 HWY 160	1/8 - 1/4ESE	2	6
CITY OF ISLETON	102 JACKSON RD	1/4 - 1/2SE	A4	10

CA ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 08/02/2006 has revealed that there are 2 Sacramento Co. ML sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DEAN DOCKERY	100 2ND ST	1/8 - 1/4ESE	1	6
VIEIRA'S RESORT INC.	15476 HWY 160	1/8 - 1/4ESE	2	6

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/29/2006 has revealed that there is 1 ENVIROSTOR site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ISLETON CLEANERS Facility Status: Refer: Other Agency	10 MAIN ST.	1/2 - 1 E	6	11

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
RAMOS OIL COMPANY	SWEEPS UST
BELLI & FAHN	SWEEPS UST
LARRY A. GALISKY	SWEEPS UST
RIVERFRONT SHELL	SWEEPS UST
LEARY RANCH, INC.	SWEEPS UST
SCHAUER RIVER FRONT PROP.	LUST, Cortese, Sacramento Co. ML
ISLETON GENERAL STORE & DELI	LUST, UST, Sacramento Co. CS, Sacramento Co. ML
CAL TRANS - STEAMBOAT FERRY	LUST
CALTRANS	LUST
BELLI & FAHN	UST
CAL TRANS - STEAMBOAT FERRY	UST
L AND J SERVICE	HIST UST
L.&J. MOBIL SERVICE	HIST UST
RAMOS OIL COMPANY	HIST UST
BELLI & FAHN	HIST UST
RIVERFRONT SHELL	HIST UST
ISLETON PLANT	AST
RAMOS OIL BULK PLANT FACILITY	HAZNET, SLIC
CALPINE NATURAL GAS COMPANY	SLIC
PG & E COMPRESSOR #19	Sacramento Co. ML
VINCE CHAVIER	Sacramento Co. ML
MATSUBARA	Sacramento Co. ML
NORENE DALLAS PROPERTIES	Sacramento Co. ML
NORENE DALLAS PROPERTIES	Sacramento Co. ML
IMPERIAL BANK	Sacramento Co. ML
RVGU13 WELL SITE	Sacramento Co. ML
WILCOX 10 WELL SITE	Sacramento Co. ML
RAMOS OIL - ISLETON	Sacramento Co. ML
PG&E GRAND ISLAND SUBSTATION	Sacramento Co. ML
L.E. WIEDMAN	Sacramento Co. ML
JULIUS NIELSEN	Sacramento Co. ML
B.C. STOCKING	Sacramento Co. ML
RIVERFRONT DEVELOPMENT	Sacramento Co. ML
ED GIOVONIONI	Sacramento Co. ML
HORI RANCH, INC	Sacramento Co. ML
CAMPI BROS	Sacramento Co. ML
TOKVYOSH FARM, INC	Sacramento Co. ML
CITIZENS UTILITIES	Sacramento Co. ML
DELTA BODY & FENDER	Sacramento Co. ML
CLIPPER SPA MANUFACTURING	Sacramento Co. ML
DECKHAND'S MARINA	Sacramento Co. ML
WILCOX BROTHERS INC	Sacramento Co. ML
SCHAUER RIVER FRONT PROPERTY	Sacramento Co. CS

OVERVIEW MAP - 1790929.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites

- ▨ Indian Reservations BIA
- ⚡ Power transmission lines
- ⚡ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ National Wetland Inventory
- ▨ Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

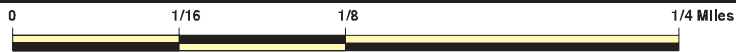
SITE NAME: Sacramento River RiverMile 16.9
 ADDRESS: RiverMile 16.9
 WALNUT GROVE CA 95641
 LAT/LONG: 38.1630 / 121.6168

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790929.2s
 DATE: November 07, 2006 10:52 am

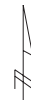
DETAIL MAP - 1790929.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚡ Manufactured Gas Plants
- ⚠ Sensitive Receptors
- 🚧 National Priority List Sites
- 🗑️ Landfill Sites
- 🏠 Dept. Defense Sites



- 🏠 Indian Reservations BIA
- 🛢️ Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🔴 Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 16.9
 ADDRESS: RiverMile 16.9
 WALNUT GROVE CA 95641
 LAT/LONG: 38.1630 / 121.6168

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790929.2s
 DATE: November 07, 2006 10:52 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	2	NR	NR	2
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	2	NR	NR	3
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
Sacramento Co. CS		0.500	0	1	1	NR	NR	2
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP	TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP	TP	NR	NR	NR	NR	NR	0
Sacramento Co. ML		0.250	0	2	NR	NR	NR	2
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP	TP	NR	NR	NR	NR	NR	0
EMI	TP	TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	1	NR	1
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

1
ESE
1/8-1/4
1167 ft.

DEAN DOCKERY
100 2ND ST
ISLETON, CA 95641

Sacramento Co. ML

S106967402
N/A

Relative:
Higher

Sacramento Co. ML:
 FD: Not reported
 Billing Codes BP: 5250
 Billing Codes UST: Not reported
 WG Bill Code: 5350
 Target Property Bill Cod: Not reported
 Food Bill Code: Not reported
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: Not reported
 Facility Id: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

2
ESE
1/8-1/4
1265 ft.

VIEIRA'S RESORT INC.
15476 HWY 160
ISLETON, CA 95641

LUST
Sacramento Co. CS
Sacramento Co. ML

S104163491
N/A

Relative:
Higher

LUST:
 Region: STATE
 Case Type: Drinking Water Aquifer affected
 Cross Street: Not reported
 Enf Type: None Taken
 Funding: Federal
 How Discovered: Not reported
 How Stopped: Not reported
 Leak Cause: Not reported
 Leak Source: Not reported
 Global Id: T0606700464
 Stop Date: Not reported
 Confirm Leak: 1990-05-23 00:00:00
 Workplan: 1990-05-07 00:00:00
 Prelim Assess: 1990-05-23 00:00:00
 Pollution Char: Not reported
 Remed Plan: 1991-08-16 00:00:00
 Remed Action: Not reported
 Monitoring: Not reported
 Close Date: 1996-03-19 00:00:00
 Discover Date: 1990-05-23 00:00:00
 Enforcement Dt: 1965-01-01 00:00:00
 Release Date: 1991-05-17 00:00:00
 Review Date: 1996-03-21 00:00:00
 Enter Date: 1991-05-31 00:00:00
 MTBE Date: Not reported
 GW Qualifier: Not reported
 Soil Qualifier: Not reported
 Max MTBE GW ppb: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

VIEIRA'S RESORT INC. (Continued)

S104163491

Max MTBE Soil ppb: Not reported
County: 34
Org Name: Not reported
Reg Board: 5S
Status: Case Closed
Chemical: Gasoline
Contact Person: Not reported
Responsible Party: CHAVIER, KEVIN
RP Address: 15476 STATE HIGHWAY 160, ISLETON, CA 95641
Interim: Not reported
Oversight Prgm: LUST
MTBE Class: *
MTBE Conc: 0
MTBE Fuel: 1
MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
Staff: VJF
Staff Initials: SJE
Lead Agency: Local Agency
Local Agency: 34000L
Hydr Basin #: SACRAMENTO VALLEY (5)
Beneficial: Not reported
Priority: 2
Cleanup Fund Id: Not reported
Work Suspended: No
Local Case #: A538
Case Number: 340550
Qty Leaked: Not reported
Abate Method: Not reported
Operator: KEVIN P. VIEIRA
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary: CLOSED PER RB CONCURRENCE LETTER DATED 03/19/96.

LUST:

Region: 5
Case Number: 340550
Staff Initials: VJF
Substance: GASOLINE
Case Type: Drinking Water Aquifer affected
Status: Case Closed
Lead Agency: Local
Program: LUST
MTBE Code: N/A

Sacramento Co. CS:

Region: SACRAMENTO
State Site Number: A538
Lead Staff: ERIKSON, S.
Lead Agency: HM
Remedial Action Taken: YE, S
Substance: Automotive(motor gasoline and additives)
Date Reported: 05/23/1990
Facility Id: RO0000627

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

VIEIRA'S RESORT INC. (Continued)

S104163491

Case Type: Other ground water affected
 Case Closed: Y
 Date Closed: 12/19/1995

Sacramento Co. ML:

FD: Not reported
 Billing Codes BP: 5203
 Billing Codes UST: Not reported
 WG Bill Code: 5304
 Target Property Bill Cod: Not reported
 Food Bill Code: Not reported
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: Not reported
 Facility Id: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

**A3
 SE
 1/4-1/2
 1458 ft.**

**CITY HALL
 102 JACKSON BLVD
 ISLETON, CA 95641**

**LUST S102427949
 Cortese N/A**

Site 1 of 2 in cluster A

**Relative:
 Equal**

LUST:

**Actual:
 0 ft.**

Region: STATE
 Case Type: Soil only
 Cross Street: 2ND
 Enf Type: None Taken
 Funding: Not reported
 How Discovered: Not reported
 How Stopped: Not reported
 Leak Cause: Not reported
 Leak Source: Not reported
 Global Id: T0606700054
 Stop Date: Not reported
 Confirm Leak: Not reported
 Workplan: Not reported
 Prelim Assess: 1987-02-01 00:00:00
 Pollution Char: Not reported
 Remed Plan: Not reported
 Remed Action: Not reported
 Monitoring: Not reported
 Close Date: 1987-07-06 00:00:00
 Discover Date: Not reported
 Enforcement Dt: 1965-01-01 00:00:00
 Release Date: 1986-11-26 00:00:00
 Review Date: 1993-03-11 00:00:00
 Enter Date: 1987-03-25 00:00:00
 MTBE Date: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

CITY HALL (Continued)

S102427949

GW Qualifier: Not reported
Soil Qualifier: Not reported
Max MTBE GW ppb: Not reported
Max MTBE Soil ppb: Not reported
County: 34
Org Name: Not reported
Reg Board: 5S
Status: Case Closed
Chemical: Gasoline
Contact Person: Not reported
Responsible Party: ISLETON CITY
RP Address: 100 SECOND STREET, ISLETON, CA 95641
Interim: Not reported
Oversight Prgm: LUST
MTBE Class: *
MTBE Conc: 0
MTBE Fuel: 1
MTBE Tested: Site NOT Tested for MTBE. Includes Unknown and Not Analyzed.
Staff: VJF
Staff Initials: HM
Lead Agency: Regional Board
Local Agency: 34000L
Hydr Basin #: SACRAMENTO VALLEY (5)
Beneficial: Not reported
Priority: 2
Cleanup Fund Id: Not reported
Work Suspended: No
Local Case #: RB015
Case Number: 340077
Qty Leaked: Not reported
Abate Method: Not reported
Operator: CITY OF ISLETON
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary: SOIL SAMPLE RESULTS PENDING. NO ODOR AND VERY LITTLE CONTAMINATION AT SITE.

LUST:

Region: 5
Case Number: 340077
Staff Initials: VJF
Substance: GASOLINE
Case Type: Soil only
Status: Case Closed
Lead Agency: Regional
Program: LUST
MTBE Code: N/A

Cortese:

Region: CORTESE
Facility Addr2: 102 JACKSON BLVD

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

A4
SE
 1/4-1/2
 1458 ft.

CITY OF ISLETON
102 JACKSON RD
ISLETON, CA

Sacramento Co. CS

S102428000
N/A

Site 2 of 2 in cluster A

Relative:
Equal

Sacramento Co. CS:

Actual:
0 ft.

Region: SACRAMENTO
 State Site Number: RB015
 Lead Staff: NONE ASSIGNED, H.
 Lead Agency: RW
 Remedial Action Taken: NO
 Substance: Automotive(motor gasoline and additives)
 Date Reported: Not reported
 Facility Id: RO0000655
 Case Type: Not reported
 Case Closed: Y
Date Closed: Not reported

5
ESE
 1/4-1/2
 1786 ft.

RAMOS OIL/MART-GAS (FORME
307 2ND
ISLETON, CA 95641

LUST **S104164067**
Cortese **N/A**

Relative:
Higher

LUST:

Actual:
8 ft.

Region: STATE
 Case Type: Drinking Water Aquifer affected
 Cross Street: Not reported
 Enf Type: None Taken
 Funding: Federal
 How Discovered: Not reported
 How Stopped: Not reported
 Leak Cause: Not reported
 Leak Source: Not reported
 Global Id: T0606700320
 Stop Date: Not reported
 Confirm Leak: 1989-03-03 00:00:00
 Workplan: 1989-03-22 00:00:00
 Prelim Assess: 1991-02-19 00:00:00
 Pollution Char: 1991-02-19 00:00:00
 Remed Plan: 1991-02-19 00:00:00
 Remed Action: 1991-02-19 00:00:00
 Monitoring: Not reported
 Close Date: 1998-03-08 00:00:00
 Discover Date: 1989-03-03 00:00:00
 Enforcement Dt: 1990-07-11 00:00:00
 Release Date: 1989-03-03 00:00:00
 Review Date: 1996-09-27 00:00:00
 Enter Date: 1990-02-28 00:00:00
 MTBE Date: Not reported
 GW Qualifier: Not reported
 Soil Qualifier: Not reported
 Max MTBE GW ppb: Not reported
 Max MTBE Soil ppb: Not reported
 County: 34
 Org Name: Not reported
 Reg Board: 5S
 Status: Case Closed
 Chemical: Gasoline
 Contact Person: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

RAMOS OIL/MART-GAS (FORME (Continued))

EDR ID Number
 EPA ID Number

Database(s)

S104164067

Responsible Party: RAMOS OIL COMPANY
 RP Address: P.O. BOX 401, WEST SACRAMENTO, CA 95691
 Interim: Not reported
 Oversight Prgm: LUST
 MTBE Class: *
 MTBE Conc: 0
 MTBE Fuel: 1
 MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
 Staff: VJF
 Staff Initials: SBW
 Lead Agency: Local Agency
 Local Agency: 34000L
 Hydr Basin #: SACRAMENTO VALLEY (5)
 Beneficial: Not reported
 Priority: 1
 Cleanup Fund Id: Not reported
 Work Suspended: No
 Local Case #: 0521
 Case Number: 340390
 Qty Leaked: Not reported
 Abate Method: Not reported
 Operator: WILLIAM RAMOS
 Water System Name: Not reported
 Well Name: Not reported
 Distance To Lust: 0
 Waste Discharge Global ID: Not reported
 Waste Disch Assigned Name: Not reported
 Summary: Not reported

LUST:

Region: 5
 Case Number: 340390
 Staff Initials: VJF
 Substance: GASOLINE
 Case Type: Drinking Water Aquifer affected
 Status: Case Closed
 Lead Agency: Local
 Program: LUST
 MTBE Code: N/A

Cortese:

Region: CORTESE
 Facility Addr2: Not reported

**6
 East
 1/2-1
 2925 ft.**

**ISLETON CLEANERS
 10 MAIN ST.
 ISLETON, CA 95641**

**Sacramento Co. ML S100189470
 ENVIROSTOR N/A**

**Relative:
 Higher**

Sacramento Co. ML:
 FD: O
 Billing Codes BP: Disclaimer
 Billing Codes UST: No Tanks
 WG Bill Code: Oil Changed by Outside Company-No Fee
 Target Property Bill Cod: 50
 Food Bill Code: 50
 CUPA Permit Date: Not reported

**Actual:
 6 ft.**

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

ISLETON CLEANERS (Continued)

S100189470

HAZMAT Permit Date: Not reported
HAZMAT Inspection Date: Not reported
Hazmat Date BP Received: Not reported
UST Permit Dt: Not reported
UST Inspection Date: Not reported
UST Tank Test Date: Not reported
Number of Tanks: 0
Facility Id: Not reported
UST Tank Test Date: Not reported
SIC Code: 7216
Tier Permitting: Not reported
Risk Mgmt Protection Program: Not reported

ENVIROSTOR:

Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Central California
Envirostor ID: 34720157
Site Code: Not reported
Assembly: Not reported
Senate: Not reported
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 1994-11-16 00:00:00
Restricted Use: NO
Funding: Not reported
Latitude: 0
Longitude: 0

CA ENVIROSTOR ALIAS:

Alias Type: Calsites ID Number
Alias Project Name: 34720157

CA ENVIROSTOR COMPLETE:

Area Name: Not reported
Sub Area Name: Not reported
Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

CA ENVIROSTOR FUTURE:

Area Name: Not reported
Sub Area Name: Not reported
Document Type: Not reported
Due Date: Not reported

CA ENVIROSTOR SCHEDULE:

Area Name: Not reported
Sub Area Name: Not reported
Document Type: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

ISLETON CLEANERS (Continued)

S100189470

Due Date: Not reported
Revised Date: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
BRANN	S105269805	PG & E COMPRESSOR #19	HWY 12 (1/8 MI OFF)	95641	Sacramento Co. ML
ISLETO	S105269832	VINCE CHAVIER	16123 HWY 160	95641	Sacramento Co. ML
ISLETO	S105269835	MATSUBARA	16779 HWY 160	95641	Sacramento Co. ML
ISLETO	S105269840	NORENE DALLAS PROPERTIES	HWY 160 (EAST END)	95641	Sacramento Co. ML
ISLETO	S105269845	NORENE DALLAS PROPERTIES	HWY 160/EAST END	95641	Sacramento Co. ML
ISLETO	S105269848	IMPERIAL BANK	HWY 160/TYLER	95641	Sacramento Co. ML
ISLETON	A100108710	ISLETON PLANT	1ST ST. & HWY 160	95641	AST
ISLETON	S106931096	RAMOS OIL COMPANY	1ST ST / HWY 160	95641	SWEEPS UST
ISLETON	S105982580	CALPINE NATURAL GAS COMPANY	HIGHWAY 12	95641	SLIC
ISLETON	S106967488	RVGU13 WELL SITE	HWY 12/JACKSON SLOUGH RD	95641	Sacramento Co. ML
ISLETON	S108054373	WILCOX 10 WELL SITE	HWY 12/ST 160	95641	Sacramento Co. ML
ISLETON	S100852408	RAMOS OIL BULK PLANT FACILITY	HIGHWAY 160 AND 1ST ST	95641	HAZNET, SLIC
ISLETON	U003940094	ISLETON GENERAL STORE & DELI	208 2ND ST	95641	LUST, UST, Sacramento Co. CS, Sacramento Co. ML
ISLETON	S102310872	RAMOS OIL - ISLETON	1ST ST/HWY 160	95641	Sacramento Co. ML
ISLETON	U001613106	L AND J SERVICE	208 2ND STREET	95641	HIST UST
ISLETON	U001613107	L.&J. MOBIL SERVICE	208 2ND STREET	95641	HIST UST
ISLETON	U001613113	RAMOS OIL COMPANY	1ST STREET / HIGHWAY 160	95641	HIST UST
RYDE	S104654942	PG&E GRAND ISLAND SUBSTATION	HWY 220 W OF RYDE	95690	Sacramento Co. ML
RYER ISLAND	U001614112	BELLI & FAHN	HWY 132	95690	HIST UST
RYER ISLAND	U003113127	BELLI & FAHN	HIGHWAY 132	95690	SWEEPS UST
RYER ISLAND	U003973539	BELLI & FAHN	HIGHWAY 132	95690	UST
RYER ISLAND	U003700411	CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1	95690	LUST
RYER ISLAND	U003975762	CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1	95690	UST
WALNU	S105269822	L.E. WIEDMAN	12680 HWY 160	95690	Sacramento Co. ML
WALNU	S105269824	JULIUS NIELSEN	13600 HWY 160	95690	Sacramento Co. ML
WALNU	S105269825	B.C. STOCKING	14064 HWY 160	95690	Sacramento Co. ML
WALNU	S105269826	RIVERFRONT DEVELOPMENT	14160 HWY 160	95690	Sacramento Co. ML
WALNU	S105269827	ED GIOVONIONI	14192 HWY 160	95690	Sacramento Co. ML
WALNU	S105269828	HORI RANCH, INC	14242 HWY 160	95690	Sacramento Co. ML
WALNU	S105269829	CAMPI BROS	14246 HWY 160	95690	Sacramento Co. ML
WALNU	S105269830	TOKVYOSH FARM, INC	14494 HWY 160	95690	Sacramento Co. ML
WALNU	S105269846	CITIZENS UTILITIES	HWY 160/GRAND AV	95690	Sacramento Co. ML
WALNU	S105269851	DELTA BODY & FENDER	HWY 160/WALNUT	95690	Sacramento Co. ML
WALNUT GROVE	S105027297	SCHAUER RIVER FRONT PROP.	14162 HWY 160	95690	LUST, Cortese, Sacramento Co. ML
WALNUT GROVE	S102436565	SCHAUER RIVER FRONT PROPERTY	14162 HIGHWAY 160	95690	Sacramento Co. CS
WALNUT GROVE	S103707536	CLIPPER SPA MANUFACTURING	14099 HIGHWAY 160	95690	Sacramento Co. ML
WALNUT GROVE	S104654940	DECKHAND'S MARINA	14090 HWY 160	95690	Sacramento Co. ML
WALNUT GROVE	S104795876	WILCOX BROTHERS INC	14180 HIGHWAY 160	95690	Sacramento Co. ML
WALNUT GROVE	S106928523	LARRY A. GALISKY	13890 HIGHWAY 160	95690	SWEEPS UST
WALNUT GROVE	S106931414	RIVERFRONT SHELL	14160 HWY 160 WALNUT GRV	95690	SWEEPS UST
WALNUT GROVE	U001614138	RIVERFRONT SHELL	14160 HIGHWAY 160 WALNUT GROVE	95690	HIST UST
WALNUT GROVE	S107472869	CALTRANS	HWY 20 / RYERS ISLAND RD	95690	LUST

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
WALNUT GROVE	S106928580	LEARY RANCH, INC.	13376 ST HWY 160	95690	SWEEPS UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 08/15/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 09/14/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 16.9
RIVERMILE 16.9
WALNUT GROVE, CA 95641

TARGET PROPERTY COORDINATES

Latitude (North): 38.16300 - 38° 9' 46.8"
Longitude (West): 121.6168 - 121° 37' 0.5"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 621177.8
UTM Y (Meters): 4224598.5
Elevation: 0 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38121-B5 ISLETON, CA
Most Recent Revision: 1993

West Map: 38121-B6 RIO VISTA, CA
Most Recent Revision: 1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

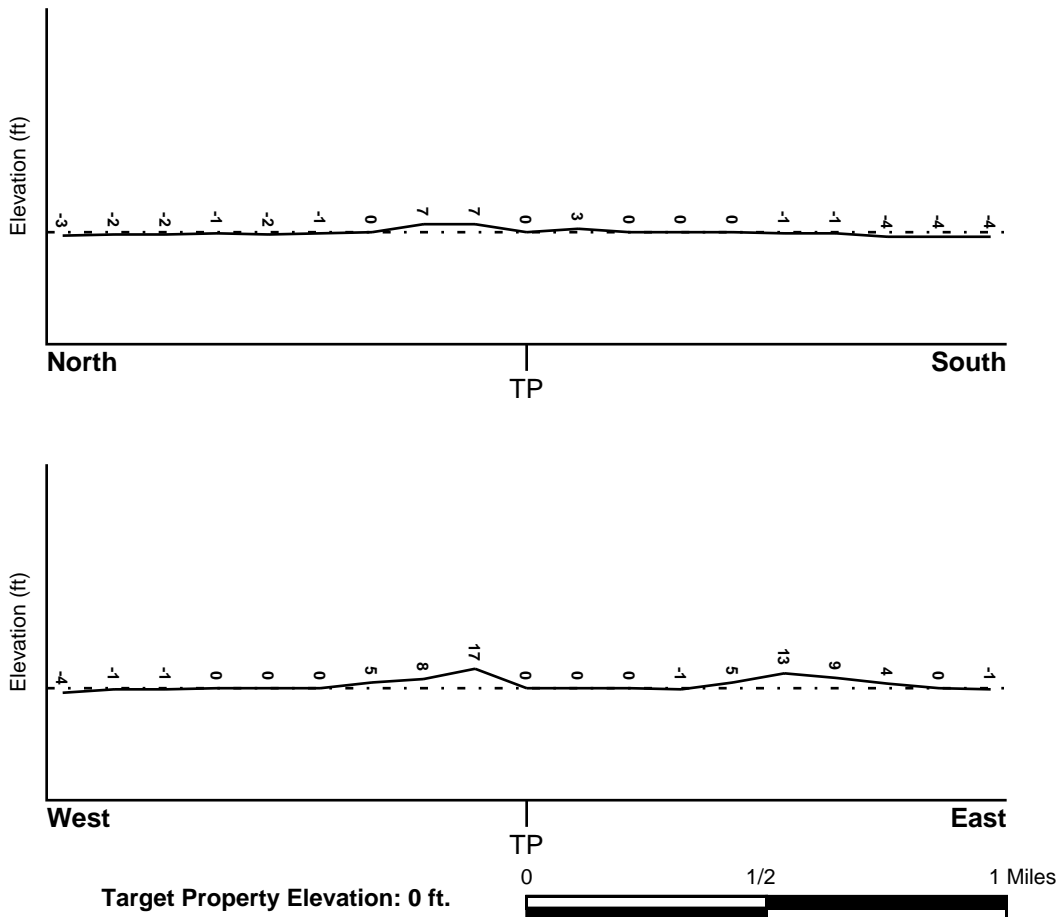
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General East

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SACRAMENTO, CA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0602650001B
Additional Panels in search area:	0602620565C 0602620545C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> ISLETON	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

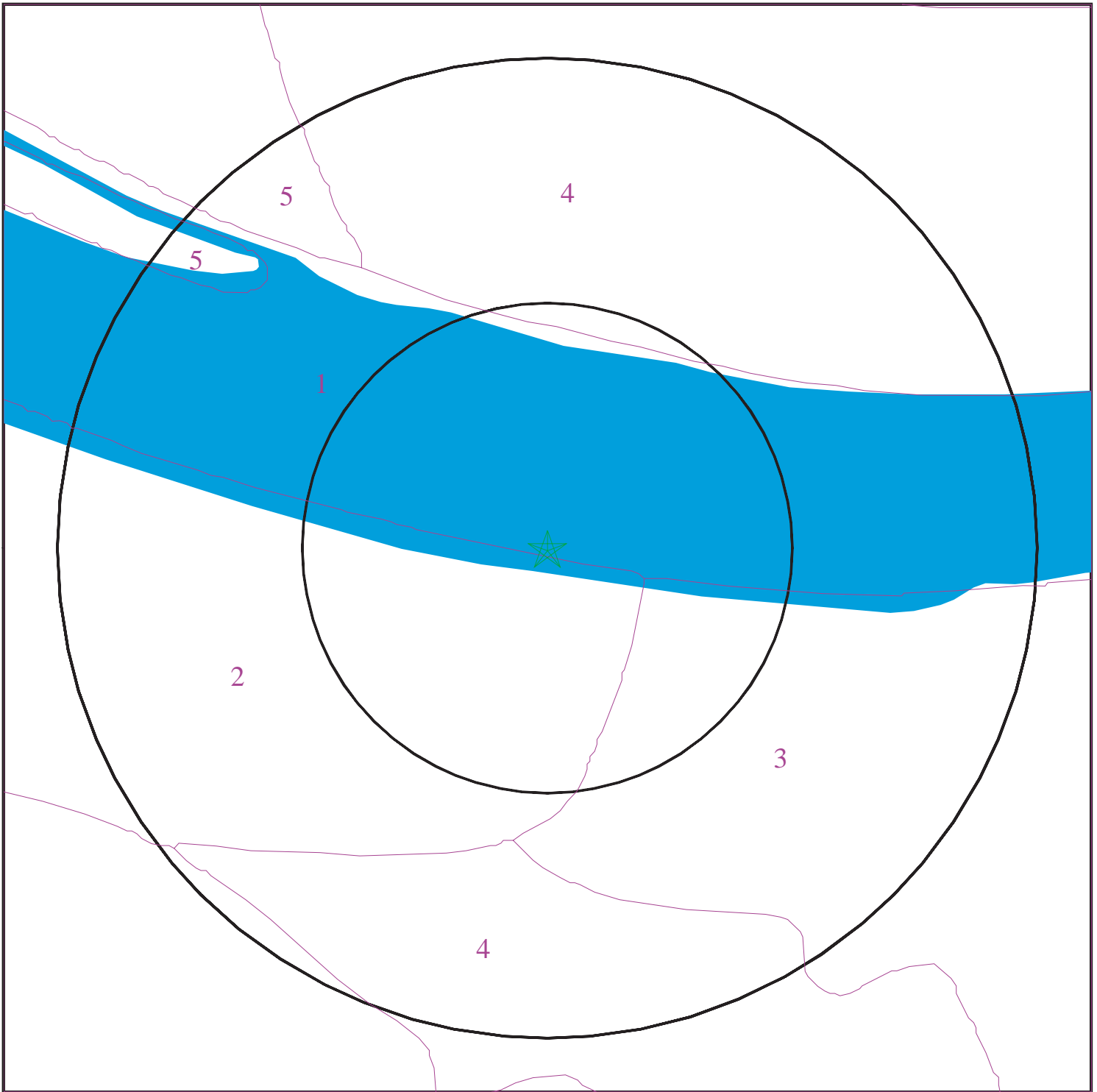
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790929.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water

0 1/16 1/8 1/4 Miles



SITE NAME: Sacramento River RiverMile 16.9
ADDRESS: RiverMile 16.9
WALNUT GROVE CA 95641
LAT/LONG: 38.1630 / 121.6168

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790929.2s
DATE: November 07, 2006 10:52 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER
Soil Surface Texture: Not reported
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: LAUGENOUR
Soil Surface Texture: loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
2	16 inches	39 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40
3	39 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

Soil Map ID: 3

Soil Component Name: SAILBOAT

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

Soil Map ID: 4

Soil Component Name: SAILBOAT

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

Soil Map ID: 5

Soil Component Name: EGBERT

Soil Surface Texture: clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
2	18 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
3	46 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.10

Soil Map ID: 6

Soil Component Name: VALPAC VARIANT

Soil Surface Texture: sandy loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
2	16 inches	25 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60
3	25 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 6.00 Min: 4.50

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3227233	1/4 - 1/2 Mile NW
6	USGS3227223	1/4 - 1/2 Mile East
7	USGS3227226	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
5	CA3400147	1/4 - 1/2 Mile ESE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

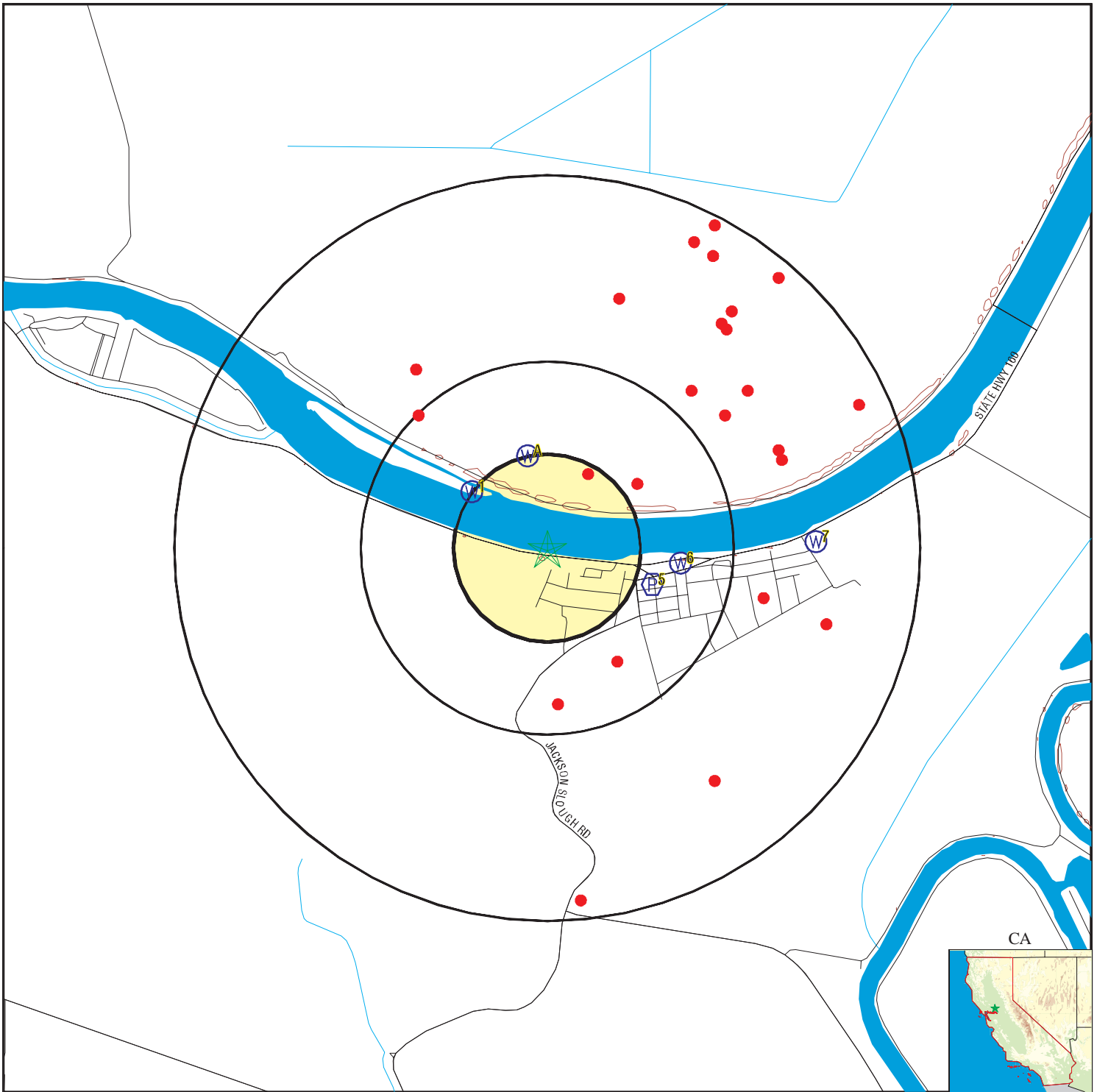
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A2	4372	1/4 - 1/2 Mile NNW
A3	4371	1/4 - 1/2 Mile NNW
A4	4370	1/4 - 1/2 Mile NNW

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/2 - 1 Mile NNE	1/2 - 1 Mile NNE
1/2 - 1 Mile NNE	1/2 - 1 Mile NE
1/2 - 1 Mile NNE	1/2 - 1 Mile NE
1/2 - 1 Mile NE	1/2 - 1 Mile NE
1/2 - 1 Mile NW	1/2 - 1 Mile NE
1/2 - 1 Mile NE	1/2 - 1 Mile ENE
1/2 - 1 Mile NE	1/4 - 1/2 Mile NW
1/2 - 1 Mile ENE	1/2 - 1 Mile ENE
1/8 - 1/4 Mile NNE	1/4 - 1/2 Mile NE
1/2 - 1 Mile ESE	1/2 - 1 Mile ESE
1/4 - 1/2 Mile SSE	1/4 - 1/2 Mile South
1/2 - 1 Mile SE	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 1790929.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Sacramento River RiverMile 16.9
 ADDRESS: RiverMile 16.9
 WALNUT GROVE CA 95641
 LAT/LONG: 38.1630 / 121.6168

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790929.2s
 DATE: November 07, 2006 10:52 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
NW
1/4 - 1/2 Mile
Higher

FED USGS USGS3227233

Agency cd:	USGS	Site no:	380955121371001
Site name:	004N003E27A001M		
Latitude:	380955		
Longitude:	1213710	Dec lat:	38.16519463
Dec lon:	-121.62050964	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	ISLETON	Map scale:	24000
Altitude:	7.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19751211
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	133	Hole depth:	145
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1975-12-11	Ground water data end date:	1975-12-11
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1975-12-11	16.00	

A2
NNW
1/4 - 1/2 Mile
Higher

CA WELLS 4372

Water System Information:

Prime Station Code:	04N/03E-26H01 M	User ID:	TEN
FRDS Number:	3410012003	County:	Sacramento
District Number:	09	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	381000.0 1213700.0	Precision:	Undefined
Source Name:	WELL 02		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number:	3410012		
System Name:	CUCC - Isleton		
Organization That Operates System:	P.O. Box 15468 Sacramento, CA 95851		
Pop Served:	1194	Connections:	378
Area Served:	ISLETON		
Sample Collected:	03/03/1999 00:00:00	Findings:	10 UNITS
Chemical:	COLOR		
Sample Collected:	03/03/1999 00:00:00	Findings:	430 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/03/1999 00:00:00	Findings:	8.04
Chemical:	PH, LABORATORY		
Sample Collected:	03/03/1999 00:00:00	Findings:	140 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	03/03/1999 00:00:00	Findings:	140 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/03/1999 00:00:00	Findings:	72 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03/03/1999 00:00:00	Findings:	14 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/03/1999 00:00:00	Findings:	9.1 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/03/1999 00:00:00	Findings:	75 MG/L
Chemical:	SODIUM		
Sample Collected:	03/03/1999 00:00:00	Findings:	47 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/03/1999 00:00:00	Findings:	28 UG/L
Chemical:	ARSENIC		
Sample Collected:	03/03/1999 00:00:00	Findings:	130 UG/L
Chemical:	MANGANESE		
Sample Collected:	03/03/1999 00:00:00	Findings:	260 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/03/1999 00:00:00	Findings:	.21
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03/03/1999 00:00:00	Findings:	1 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03/03/1999 00:00:00	Findings:	.95 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/19/1999 00:00:00	Findings:	.95 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/26/1999 00:00:00	Findings:	.95 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/02/1999 00:00:00	Findings:	.95 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/27/2001 00:00:00	Findings:	410 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/27/2001 00:00:00	Findings:	7.6
Chemical:	PH, LABORATORY		
Sample Collected:	03/27/2001 00:00:00	Findings:	150 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	03/27/2001 00:00:00	Findings:	150 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/27/2001 00:00:00	Findings:	71 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03/27/2001 00:00:00	Findings:	14 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/27/2001 00:00:00	Findings:	8.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/27/2001 00:00:00	Findings:	72 MG/L
Chemical:	SODIUM		
Sample Collected:	03/27/2001 00:00:00	Findings:	50 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/27/2001 00:00:00	Findings:	31 UG/L
Chemical:	ARSENIC		
Sample Collected:	03/27/2001 00:00:00	Findings:	60 UG/L
Chemical:	COPPER		
Sample Collected:	03/27/2001 00:00:00	Findings:	610 UG/L
Chemical:	IRON		
Sample Collected:	03/27/2001 00:00:00	Findings:	140 UG/L
Chemical:	MANGANESE		
Sample Collected:	03/27/2001 00:00:00	Findings:	280 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/27/2001 00:00:00	Findings:	-.22
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03/27/2001 00:00:00	Findings:	.6 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	06/27/2001 00:00:00	Findings:	29 UG/L
Chemical:	ARSENIC		
Sample Collected:	06/27/2001 00:00:00	Findings:	300 UG/L
Chemical:	BORON		
Sample Collected:	06/27/2001 00:00:00	Findings:	130 UG/L
Chemical:	MANGANESE		
Sample Collected:	06/27/2001 00:00:00	Findings:	.7 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	12/19/2001 00:00:00	Findings:	360 UG/L
Chemical:	BORON		
Sample Collected:	12/19/2001 00:00:00	Findings:	3.1 UG/L
Chemical:	VANADIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	02/27/2002 00:00:00	Findings:	540 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06/20/2002 00:00:00	Findings:	630 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/19/2002 00:00:00	Findings:	450 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/20/2003 00:00:00	Findings:	.47 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/20/2003 00:00:00	Findings:	5 UNITS
Chemical:	COLOR		
Sample Collected:	05/20/2003 00:00:00	Findings:	450 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05/20/2003 00:00:00	Findings:	7.5
Chemical:	PH, LABORATORY		
Sample Collected:	05/20/2003 00:00:00	Findings:	150 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	05/20/2003 00:00:00	Findings:	150 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05/20/2003 00:00:00	Findings:	70 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	05/20/2003 00:00:00	Findings:	13 MG/L
Chemical:	CALCIUM		
Sample Collected:	05/20/2003 00:00:00	Findings:	9.2 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05/20/2003 00:00:00	Findings:	.12 MG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	05/20/2003 00:00:00	Findings:	250 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05/20/2003 00:00:00	Findings:	-.31
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05/20/2003 00:00:00	Findings:	.9 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	05/20/2003 00:00:00	Findings:	.47 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/24/2003 00:00:00	Findings:	.47 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/02/2003 00:00:00	Findings:	.47 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/07/2004 00:00:00	Findings:	430 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/07/2004 00:00:00	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	09/07/2004 00:00:00	Findings:	150 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/07/2004 00:00:00	Findings:	180 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/07/2004 00:00:00	Findings:	67 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	09/07/2004 00:00:00	Findings:	13 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/07/2004 00:00:00	Findings:	8.5 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/07/2004 00:00:00	Findings:	280 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/07/2004 00:00:00	Findings:	.36
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09/07/2004 00:00:00	Findings:	12
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	09/15/2004 00:00:00	Findings:	10 UNITS
Chemical:	COLOR		
Sample Collected:	09/15/2004 00:00:00	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	09/15/2004 00:00:00	Findings:	1.7 NTU
Chemical:	TURBIDITY, LABORATORY		

**A3
NNW
1/4 - 1/2 Mile
Higher**

CA WELLS 4371

Water System Information:

Prime Station Code:	04N/03E-26G02 M	User ID:	TEN
FRDS Number:	3410012002	County:	Sacramento
District Number:	09	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Treated
Source Lat/Long:	381000.0 1213700.0	Precision:	Undefined
Source Name:	WELL 01 - TREATED		
System Number:	3410012		
System Name:	CUCC - Isleton		
Organization That Operates System:	P.O. Box 15468 Sacramento, CA 95851		
Pop Served:	1194	Connections:	378
Area Served:	ISLETON		

**A4
NNW
1/4 - 1/2 Mile
Higher**

CA WELLS 4370

Water System Information:

Prime Station Code:	04N/03E-26G01 M	User ID:	TEN
FRDS Number:	3410012001	County:	Sacramento
District Number:	09	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	381000.0 1213700.0	Precision:	Undefined
Source Name:	WELL 01 - RAW		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number:	3410012		
System Name:	CUCC - Isleton		
Organization That Operates System:	P.O. Box 15468 Sacramento, CA 95851		
Pop Served:	1194	Connections:	378
Area Served:	ISLETON		
Sample Collected:	02/27/2002 00:00:00	Findings:	420 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06/20/2002 00:00:00	Findings:	350 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/19/2002 00:00:00	Findings:	340 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/20/2003 00:00:00	Findings:	.64 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/20/2003 00:00:00	Findings:	5 UNITS
Chemical:	COLOR		
Sample Collected:	05/20/2003 00:00:00	Findings:	350 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	05/20/2003 00:00:00	Findings:	7.8
Chemical:	PH, LABORATORY		
Sample Collected:	05/20/2003 00:00:00	Findings:	140 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	05/20/2003 00:00:00	Findings:	140 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	05/20/2003 00:00:00	Findings:	61 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	05/20/2003 00:00:00	Findings:	10 MG/L
Chemical:	CALCIUM		
Sample Collected:	05/20/2003 00:00:00	Findings:	8.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	05/20/2003 00:00:00	Findings:	.11 MG/L
Chemical:	FOAMING AGENTS (MBAS)		
Sample Collected:	05/20/2003 00:00:00	Findings:	220 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	05/20/2003 00:00:00	Findings:	- .094
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	05/20/2003 00:00:00	Findings:	1 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	05/20/2003 00:00:00	Findings:	.64 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/24/2003 00:00:00	Findings:	.64 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/02/2003 00:00:00	Findings:	.64 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/07/2004 00:00:00	Findings:	370 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/07/2004 00:00:00	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	09/07/2004 00:00:00	Findings:	150 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	09/07/2004 00:00:00	Findings:	180 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/07/2004 00:00:00	Findings:	60 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	09/07/2004 00:00:00	Findings:	11 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/07/2004 00:00:00	Findings:	7.9 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/07/2004 00:00:00	Findings:	240 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	09/07/2004 00:00:00	Findings:	.32
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09/07/2004 00:00:00	Findings:	12
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	09/15/2004 00:00:00	Findings:	10 UNITS
Chemical:	COLOR		
Sample Collected:	09/15/2004 00:00:00	Findings:	8.3
Chemical:	PH, LABORATORY		
Sample Collected:	09/15/2004 00:00:00	Findings:	1.5 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03/03/1999 00:00:00	Findings:	1.14 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	05/19/1999 00:00:00	Findings:	50 UG/L
Chemical:	ARSENIC		
Sample Collected:	05/19/1999 00:00:00	Findings:	120 UG/L
Chemical:	MANGANESE		
Sample Collected:	05/19/1999 00:00:00	Findings:	1.14 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	08/26/1999 00:00:00	Findings:	1.14 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	12/02/1999 00:00:00	Findings:	1.14 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/27/2001 00:00:00	Findings:	320 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/27/2001 00:00:00	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	03/27/2001 00:00:00	Findings:	140 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/27/2001 00:00:00	Findings:	140 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/27/2001 00:00:00	Findings:	61 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03/27/2001 00:00:00	Findings:	11 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/27/2001 00:00:00	Findings:	8.1 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/27/2001 00:00:00	Findings:	57 MG/L
Chemical:	SODIUM		
Sample Collected:	03/27/2001 00:00:00	Findings:	24 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/27/2001 00:00:00	Findings:	54 UG/L
Chemical:	ARSENIC		
Sample Collected:	03/27/2001 00:00:00	Findings:	630 UG/L
Chemical:	IRON		
Sample Collected:	03/27/2001 00:00:00	Findings:	140 UG/L
Chemical:	MANGANESE		
Sample Collected:	03/27/2001 00:00:00	Findings:	190 UG/L
Chemical:	ALUMINUM		
Sample Collected:	03/27/2001 00:00:00	Findings:	280 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/27/2001 00:00:00	Findings:	- .21
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03/27/2001 00:00:00	Findings:	4 MG/L
Chemical:	NITRATE (AS NO ₃)		
Sample Collected:	03/27/2001 00:00:00	Findings:	.3 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	06/27/2001 00:00:00	Findings:	51 UG/L
Chemical:	ARSENIC		
Sample Collected:	06/27/2001 00:00:00	Findings:	300 UG/L
Chemical:	BORON		
Sample Collected:	06/27/2001 00:00:00	Findings:	120 UG/L
Chemical:	MANGANESE		
Sample Collected:	06/27/2001 00:00:00	Findings:	32 UG/L
Chemical:	VANADIUM		
Sample Collected:	06/27/2001 00:00:00	Findings:	2.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	06/27/2001 00:00:00	Findings:	2 UG/L
Chemical:	CHROMIUM (TOTAL CR-CRVI SCREEN)		
Sample Collected:	12/27/2001 00:00:00	Findings:	300 UG/L
Chemical:	BORON		
Sample Collected:	12/27/2001 00:00:00	Findings:	41 UG/L
Chemical:	VANADIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected: 12/27/2001 00:00:00 Findings: -.18
 Chemical: LANGELIER INDEX @ 60 C

5
ESE
1/4 - 1/2 Mile
Higher

FRDS PWS CA3400147

PWS ID: CA3400147 PWS Status: Active
 Date Initiated: 7706 Date Deactivated: Not Reported
 PWS Name: PERRY'S BOAT HARBOR
 PERRY'S BOAT HARBOR
 500 PERRY'S ISLAND RD
 ISLETON, CA 95641

Addressee / Facility: System Owner/Responsible Party
 PERRY'S BOAT HARBOR
 500 PERRY'S ISLAND ROAD
 ISLETON, CA 95641

Facility Latitude: 38 09 42 Facility Longitude: 121 36 38
 City Served: Not Reported
 Treatment Class: Untreated Population: 00000050

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name: PERRY'S BOAT HARBOR
 Violation Type: MCL, Monthly (TCR)
 Contaminant: COLIFORM (TCR)
 Compliance Period: 2002-02-01 - 2002-02-28 Analytical Value: 0
 Violation ID: 0200001 Enforcement ID: 0200157
 Enforcement Date: 2002-02-01 Enf. Action: State Formal NOV Issued

System Name: PERRY'S BOAT HARBOR
 Violation Type: MCL, Monthly (TCR)
 Contaminant: COLIFORM (TCR)
 Compliance Period: 2002-02-01 - 2002-02-28 Analytical Value: 0
 Violation ID: 0200001 Enforcement ID: 0200157
 Enforcement Date: 2002-02-01 Enf. Action: State Formal NOV Issued

System Name: PERRY'S BOAT HARBOR
 Violation Type: MCL, Monthly (TCR)
 Contaminant: COLIFORM (TCR)
 Compliance Period: 2/1/2002 0:00:00 - 2/28/2002 0:00:00 Analytical Value: 0
 Violation ID: 0200001 Enforcement ID: Not Reported
 Enforcement Date: 2/1/2002 0:00:00 Enf. Action: State Formal NOV Issued

System Name: PERRY'S BOAT HARBOR
 Violation Type: MCL, Monthly (TCR)
 Contaminant: COLIFORM (TCR)
 Compliance Period: 2/1/2002 0:00:00 - 2/28/2002 0:00:00 Analytical Value: Not Reported
 Violation ID: 0200001 Enforcement ID: Not Reported
 Enforcement Date: 2/1/2002 0:00:00 Enf. Action: State Formal NOV Issued

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	PERRY'S BOAT HARBOR	Analytical Value:	0
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	0300177
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	2002-09-01 - 2002-09-30		
Violation ID:	0300002		
Enforcement Date:	2002-09-01		
System Name:	PERRY'S BOAT HARBOR	Analytical Value:	0
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	0300177
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	2002-09-01 - 2002-09-30		
Violation ID:	0300002		
Enforcement Date:	2002-09-01		
System Name:	PERRY'S BOAT HARBOR	Analytical Value:	0
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	Not Reported
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	9/1/2002 0:00:00 - 9/30/2002 0:00:00		
Violation ID:	0300002		
Enforcement Date:	9/1/2002 0:00:00		
System Name:	PERRY'S BOAT HARBOR	Analytical Value:	Not Reported
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	Not Reported
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	9/1/2002 0:00:00 - 9/30/2002 0:00:00		
Violation ID:	0300002		
Enforcement Date:	9/1/2002 0:00:00		
System Name:	PERRY'S BOAT HARBOR	Analytical Value:	0
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	0300183
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	2002-10-01 - 2002-10-31		
Violation ID:	0300003		
Enforcement Date:	2002-10-01		
System Name:	PERRY'S BOAT HARBOR	Analytical Value:	0
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	0300183
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	2002-10-01 - 2002-10-31		
Violation ID:	0300003		
Enforcement Date:	2002-10-01		
System Name:	PERRY'S BOAT HARBOR	Analytical Value:	0
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	Not Reported
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	10/1/2002 0:00:00 - 10/31/2002 0:00:00		
Violation ID:	0300003		
Enforcement Date:	10/1/2002 0:00:00		
System Name:	PERRY'S BOAT HARBOR	Analytical Value:	Not Reported
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	Not Reported
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	10/1/2002 0:00:00 - 10/31/2002 0:00:00		
Violation ID:	0300003		
Enforcement Date:	10/1/2002 0:00:00		
System Name:	PERRY'S BOAT HARBOR	Analytical Value:	0
Violation Type:	MCL, Monthly (TCR)	Enforcement ID:	0300187
Contaminant:	COLIFORM (TCR)	Enf. Action:	State Formal NOV Issued
Compliance Period:	2002-11-01 - 2002-11-30		
Violation ID:	0300004		
Enforcement Date:	2002-11-01		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	PERRY'S BOAT HARBOR	
Violation Type:	MCL, Monthly (TCR)	
Contaminant:	COLIFORM (TCR)	
Compliance Period:	2002-11-01 - 2002-11-30	Analytical Value: 0
Violation ID:	0300004	Enforcement ID: 0300187
Enforcement Date:	2002-11-01	Enf. Action: State Formal NOV Issued
System Name:	PERRY'S BOAT HARBOR	
Violation Type:	MCL, Monthly (TCR)	
Contaminant:	COLIFORM (TCR)	
Compliance Period:	11/1/2002 0:00:00 - 11/30/2002 0:00:00	Analytical Value: 0
Violation ID:	0300004	Enforcement ID: Not Reported
Enforcement Date:	11/1/2002 0:00:00	Enf. Action: State Formal NOV Issued
System Name:	PERRY'S BOAT HARBOR	
Violation Type:	MCL, Monthly (TCR)	
Contaminant:	COLIFORM (TCR)	
Compliance Period:	11/1/2002 0:00:00 - 11/30/2002 0:00:00	Analytical Value: Not Reported
Violation ID:	0300004	Enforcement ID: Not Reported
Enforcement Date:	11/1/2002 0:00:00	Enf. Action: State Formal NOV Issued

6

**East
1/4 - 1/2 Mile
Higher**

FED USGS USGS3227223

Agency cd:	USGS	Site no:	380945121363301
Site name:	004N003E26G001M		
Latitude:	380945		
Longitude:	1213633	Dec lat:	38.16241699
Dec lon:	-121.61023169	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	ISLETON	Map scale:	24000
Altitude:	3.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19290101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	615	Hole depth:	615
Source of depth data:	Not Reported		
Real time data flag:	0	Project number:	0479423712
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	1982-09-17	Water quality data begin date:	1982-09-17
Ground water data begin date:	0000-00-00	Water quality data count:	1
Ground water data count:	0	Ground water data end date:	0000-00-00

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

7
East
1/2 - 1 Mile
Higher

FED USGS USGS3227226

Agency cd:	USGS	Site no:	380948121360901
Site name:	004N003E26H001M		
Latitude:	380948		
Longitude:	1213609	Dec lat:	38.16325032
Dec lon:	-121.60356494	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	ISLETON	Map scale:	24000
Altitude:	2.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19490101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Mixed - confined and unconfined multiple aquifers		
Aquifer:	Not Reported		
Well depth:	335	Hole depth:	335
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1982-09-17
Water quality data end date:	1982-09-17	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NNE **OIL_GAS** **CA10179971**
1/2 - 1 Mile

Apinumber:	06720176	Operator:	Towne Exploration Company
Lease:	Langhart-Spreckels	Well no:	9
Field:	Rio Vista Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	GPS		
Latitude:	38.175631126		
Longitude:	-121.607487474		
Td:	3880	Sec:	23
Twn:	4N	Rge:	3E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	ABD	District:	6

NNE **OIL_GAS** **CA10179967**
1/2 - 1 Mile

Apinumber:	06700013	Operator:	Union Oil Co. of Calif.
Lease:	Langhart-Spreckels	Well no:	2
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.17498		
Longitude:	-121.6085		
Td:	4679	Sec:	23
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NNE **OIL_GAS** **CA10179961**
1/2 - 1 Mile

Apinumber:	06720235	Operator:	Union Oil Co. of Calif.
Lease:	Langhart-Spreckels	Well no:	14
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.17444		
Longitude:	-121.60757		
Td:	3673	Sec:	23
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NE
1/2 - 1 Mile

OIL_GAS CA10179949

Apinumber:	06700138	Operator:	Chevron U.S.A. Inc.
Lease:	Lillie et al	Well no:	2
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.17359		
Longitude:	-121.60434		
Td:	4000	Sec:	23
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NNE
1/2 - 1 Mile

OIL_GAS CA10179942

Apinumber:	06700147	Operator:	Chevron U.S.A. Inc.
Lease:	Willmars Land Co.	Well no:	2
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.17278		
Longitude:	-121.61219		
Td:	4630	Sec:	23
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NE
1/2 - 1 Mile

OIL_GAS CA10179934

Apinumber:	06720410	Operator:	Towne Exploration Company
Lease:	Lind	Well no:	23-1
Field:	River Island Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	017
Source:	GPS		
Latitude:	38.172285152		
Longitude:	-121.606648437		
Td:	6560	Sec:	23
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	location	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NE **OIL_GAS** **CA10179929**
1/2 - 1 Mile

Apinumber:	06720150	Operator:	Towne Exploration Company
Lease:	Langhart-Spreckels	Well no:	8
Field:	Rio Vista Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	GPS		
Latitude:	38.171810576		
Longitude:	-121.607149735		
Td:	5324	Sec:	23
Twn:	4N	Rge:	3E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	ABD	District:	6

NE **OIL_GAS** **CA10179926**
1/2 - 1 Mile

Apinumber:	06700011	Operator:	Union Oil Co. of Calif.
Lease:	Langhart-Spreckels	Well no:	6
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.17158		
Longitude:	-121.6069		
Td:	3944	Sec:	23
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NW **OIL_GAS** **CA10179917**
1/2 - 1 Mile

Apinumber:	06720333	Operator:	EOG Resources Inc.
Lease:	Rosellini	Well no:	1-22
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	007
Source:	hud		
Latitude:	38.170024		
Longitude:	-121.622194		
Td:	9523	Sec:	22
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NE
1/2 - 1 Mile

OIL_GAS CA10179905

Apinumber:	06700014	Operator:	Union Oil Co. of Calif.
Lease:	Langhart-Spreckels	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.1692		
Longitude:	-121.60586		
Td:	4650	Sec:	23
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NE
1/2 - 1 Mile

OIL_GAS CA10179904

Apinumber:	06720034	Operator:	Chevron U.S.A. Inc.
Lease:	North Isleton Unit	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.1692		
Longitude:	-121.60863		
Td:	10646	Sec:	23
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

ENE
1/2 - 1 Mile

OIL_GAS CA10179900

Apinumber:	06700137	Operator:	Chevron U.S.A. Inc.
Lease:	Lillie et al	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.16865		
Longitude:	-121.60038		
Td:	5200	Sec:	24
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NE
1/2 - 1 Mile

OIL_GAS CA10179897

Apinumber:	06700006	Operator:	Union Oil Co. of Calif.
Lease:	Langhart-Spreckels	Well no:	7
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.16824		
Longitude:	-121.60698		
Td:	4705	Sec:	26
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NW
1/4 - 1/2 Mile

OIL_GAS CA10179896

Apinumber:	06700009	Operator:	Union Oil Co. of Calif.
Lease:	Gardiner	Well no:	8
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.16824		
Longitude:	-121.62207		
Td:	4675	Sec:	27
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

ENE
1/2 - 1 Mile

OIL_GAS CA10179883

Apinumber:	06720234	Operator:	Towne Exploration Company
Lease:	Lind	Well no:	26-1
Field:	Rio Vista Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	017
Source:	GPS		
Latitude:	38.16689093		
Longitude:	-121.604342526		
Td:	4644	Sec:	26
Twn:	4N	Rge:	3E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

ENE **OIL_GAS** **CA10179880**
1/2 - 1 Mile

Apinumber:	06700007	Operator:	Union Oil Co. of Calif.
Lease:	Langhart-Spreckels	Well no:	5
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.16651		
Longitude:	-121.60418		
Td:	5500	Sec:	26
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NNE **OIL_GAS** **CA10179874**
1/8 - 1/4 Mile

Apinumber:	06700133	Operator:	Brazos Oil & Gas Co.
Lease:	Willmars Land Co.	Well no:	3
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.16596		
Longitude:	-121.61372		
Td:	4520	Sec:	26
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NE **OIL_GAS** **CA10179868**
1/4 - 1/2 Mile

Apinumber:	06700146	Operator:	Chevron U.S.A. Inc.
Lease:	Willmars Land Co.	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.16558		
Longitude:	-121.6113		
Td:	4593	Sec:	26
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

ESE
1/2 - 1 Mile

OIL_GAS CA10179821

Apinumber:	06700005	Operator:	Towne Exploration Company
Lease:	City of Isleton Community Lease	Well no:	1
Field:	Rio Vista Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	GPS		
Latitude:	38.161139992		
Longitude:	-121.605079709		
Td:	4700	Sec:	26
Twn:	4N	Rge:	3E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

ESE
1/2 - 1 Mile

OIL_GAS CA10179812

Apinumber:	06700155	Operator:	Union Oil Co. of Calif.
Lease:	City of Isleton Community Lease	Well no:	2
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.16012		
Longitude:	-121.60199		
Td:	6298	Sec:	25
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SSE
1/4 - 1/2 Mile

OIL_GAS CA10179801

Apinumber:	06720336	Operator:	EOG Resources Inc.
Lease:	Isleton Gas Unit	Well no:	1-26
Field:	Rio Vista Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	025
Source:	GPS		
Latitude:	38.158669115		
Longitude:	-121.612281977		
Td:	5562	Sec:	26
Twn:	4N	Rge:	3E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

South
1/4 - 1/2 Mile

OIL_GAS CA10179784

Apinumber:	06700008	Operator:	Union Oil Co. of Calif.
Lease:	Gardiner	Well no:	2
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.15701		
Longitude:	-121.61521		
Td:	5350	Sec:	26
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SE
1/2 - 1 Mile

OIL_GAS CA10179740

Apinumber:	06700157	Operator:	Union Oil Co. of Calif.
Lease:	Gardiner	Well no:	3
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.15403		
Longitude:	-121.60749		
Td:	4643	Sec:	35
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

South
1/2 - 1 Mile

OIL_GAS CA10179696

Apinumber:	06700156	Operator:	Towne Exploration Company
Lease:	Gardiner	Well no:	1
Field:	Rio Vista Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	016
Source:	GPS		
Latitude:	38.149383416		
Longitude:	-121.614084632		
Td:	4645	Sec:	35
Twn:	4N	Rge:	3E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95641	1	0	0.00

Federal EPA Radon Zone for SACRAMENTO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SACRAMENTO COUNTY, CA

Number of sites tested: 52

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.665 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.200 pCi/L	100%	0%	0%
Basement	8.350 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 16.9
RiverMile 16.9
WALNUT GROVE, CA 95690**

Inquiry Number: 1790929.5

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

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Please contact EDR at 1-800-352-0050
with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 16.9

WALNUT GROVE, CA 95690

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1957	Aerial Photograph. Scale: 1"=555'	Flight Year: 1957	Cartwright
1968	Aerial Photograph. Scale: 1"=333'	Flight Year: 1968	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1984	Aerial Photograph. Scale: 1"=690'	Flight Year: 1984	WSA
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790929.5

YEAR: 1957

| = 555'





INQUIRY #: 1790929.5

YEAR: 1968

| = 333'





INQUIRY #: 1790929.5

YEAR: 1971

— = 333'





INQUIRY #: 1790929.5

YEAR: 1984

| = 690'





INQUIRY #: 1790929.5

YEAR: 1993

| = 666'





INQUIRY #: 1790929.5

YEAR: 1998

| = 666'



EDR Historical Topographic Map Report

**Sacramento River RiverMile 16.9
RiverMile 16.9
WALNUT GROVE, CA 95690**

Inquiry Number: 1790929.4

November 07, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

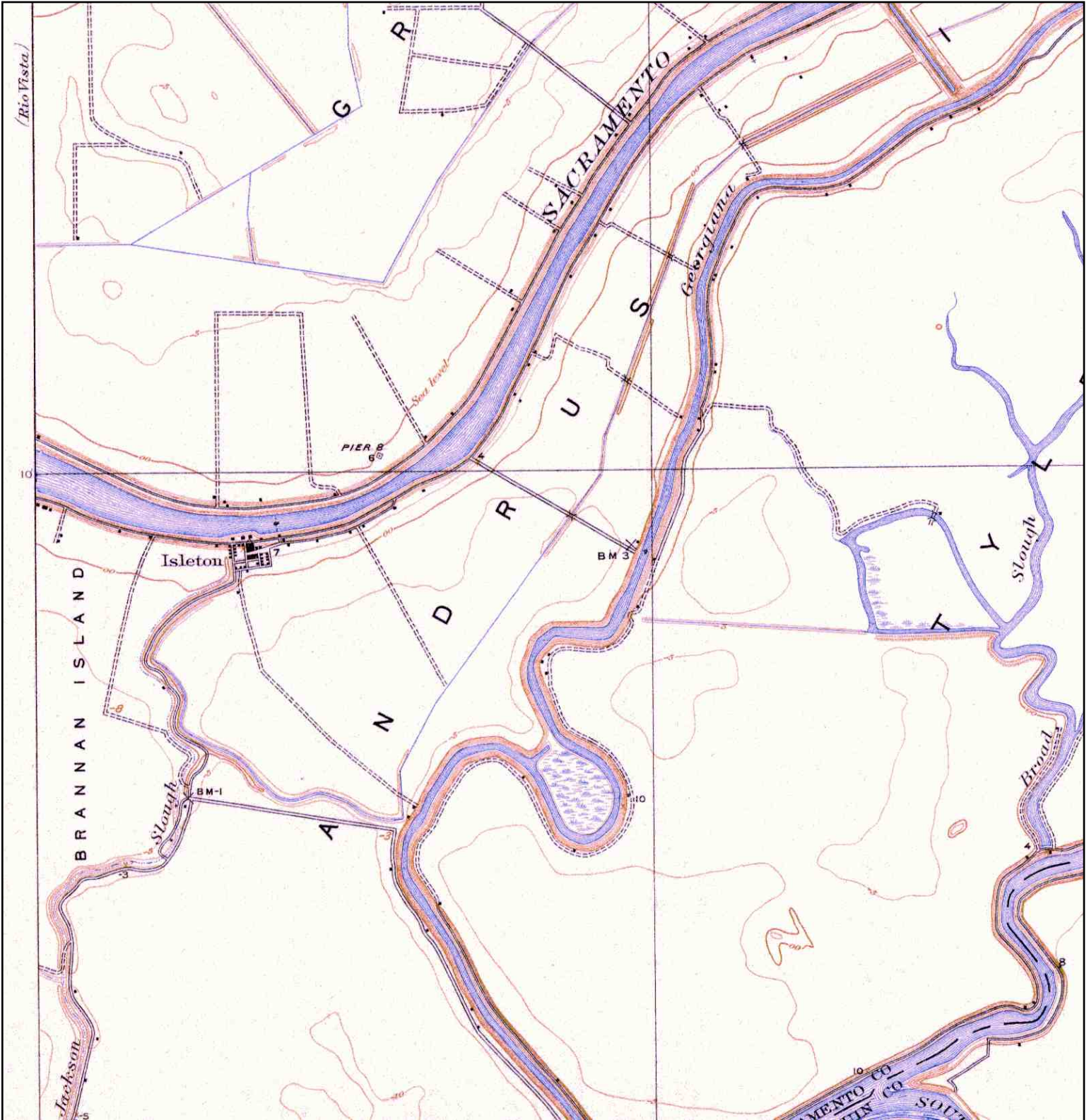
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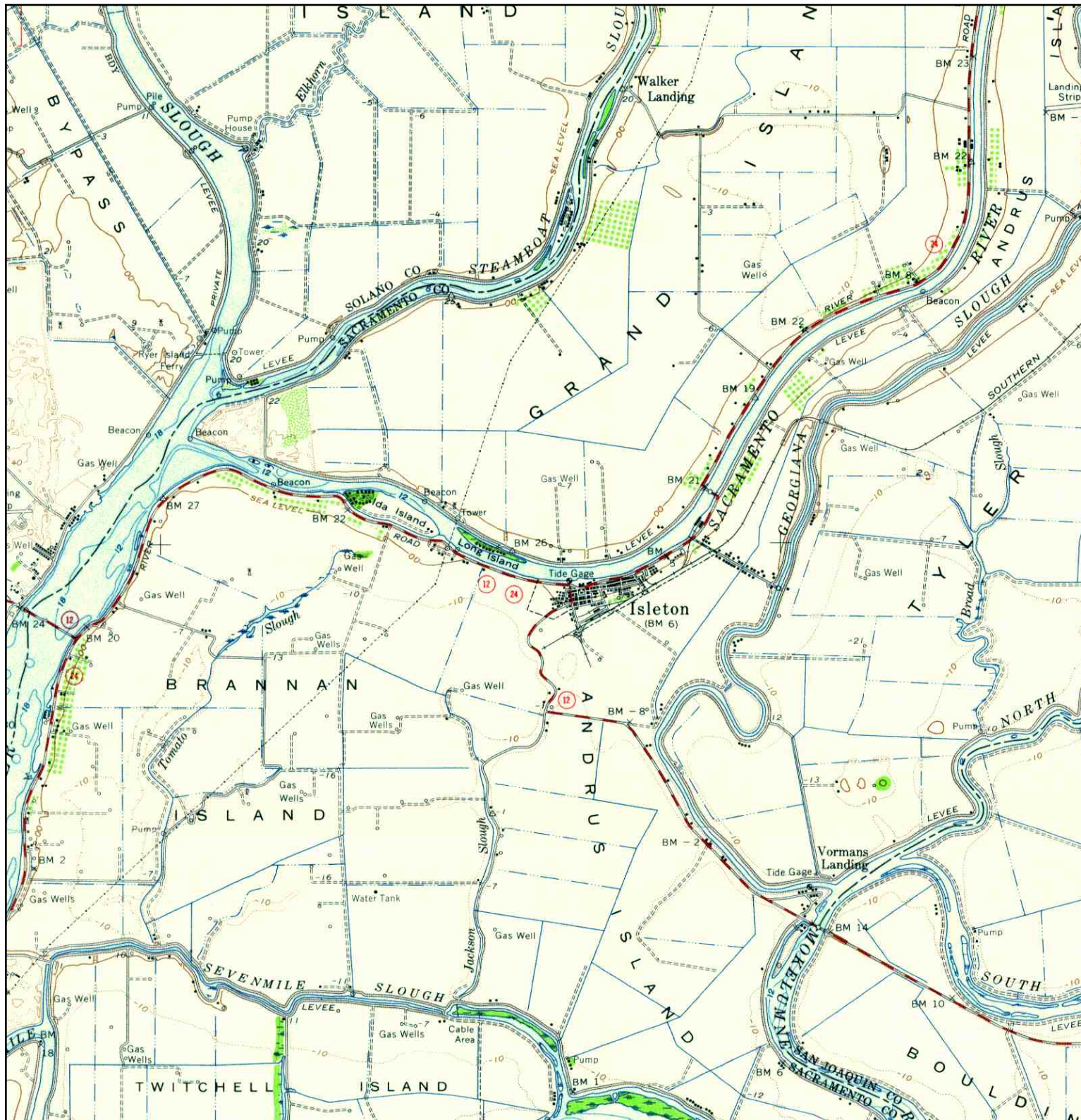
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Historical Topographic Map



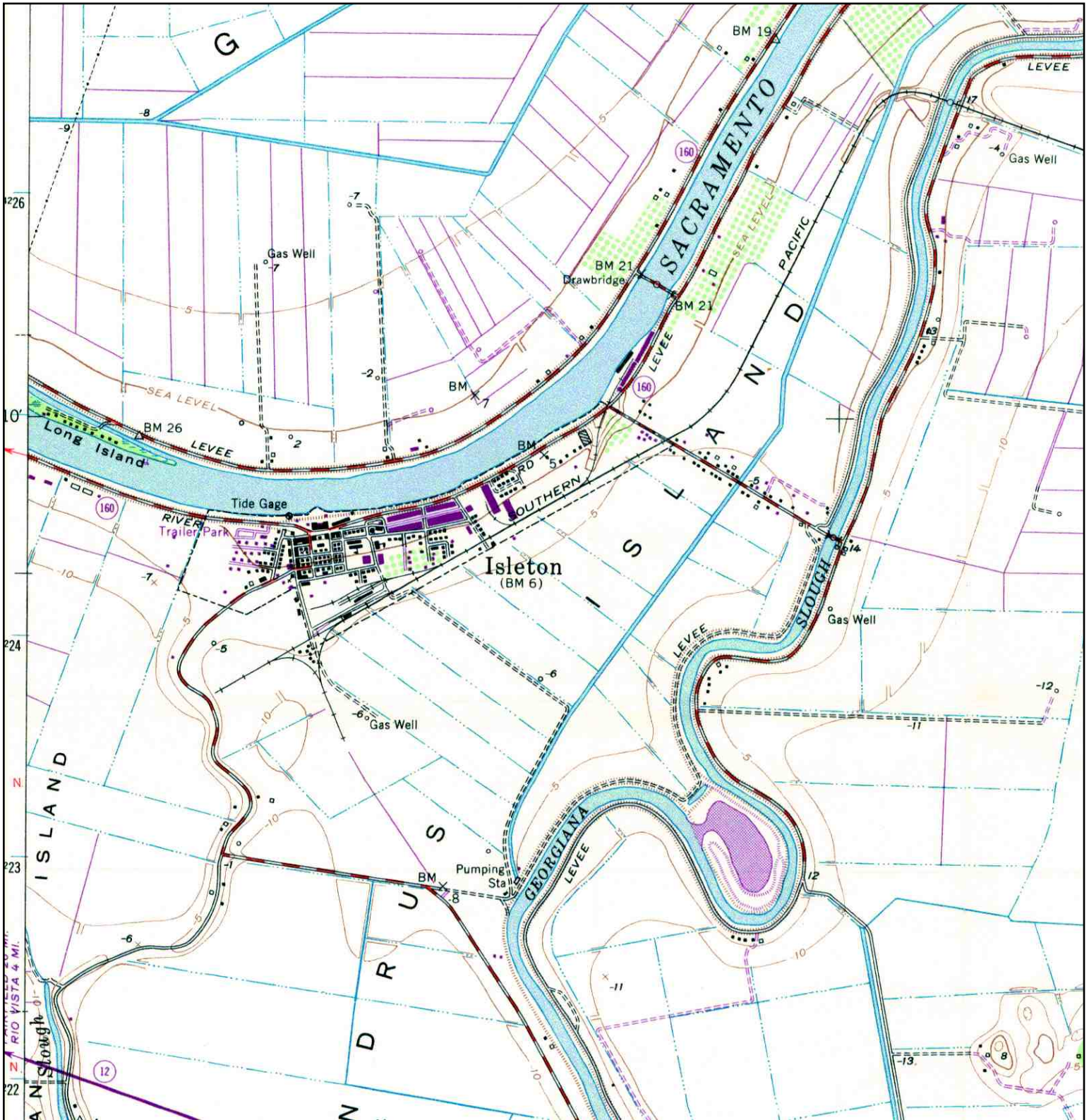
	TARGET QUAD	SITE NAME: Sacramento River RiverMile	CLIENT: MECx
	NAME: ISLETON	16.9	CONTACT: Robert Bell
	MAP YEAR: 1910	ADDRESS: RiverMile 16.9	INQUIRY#: 1790929.4
	SERIES: 7.5	WALNUT GROVE, CA 95690	RESEARCH DATE: 11/07/2006
	SCALE: 1:31680	LAT/LONG: 38.163 / 121.6168	

Historical Topographic Map



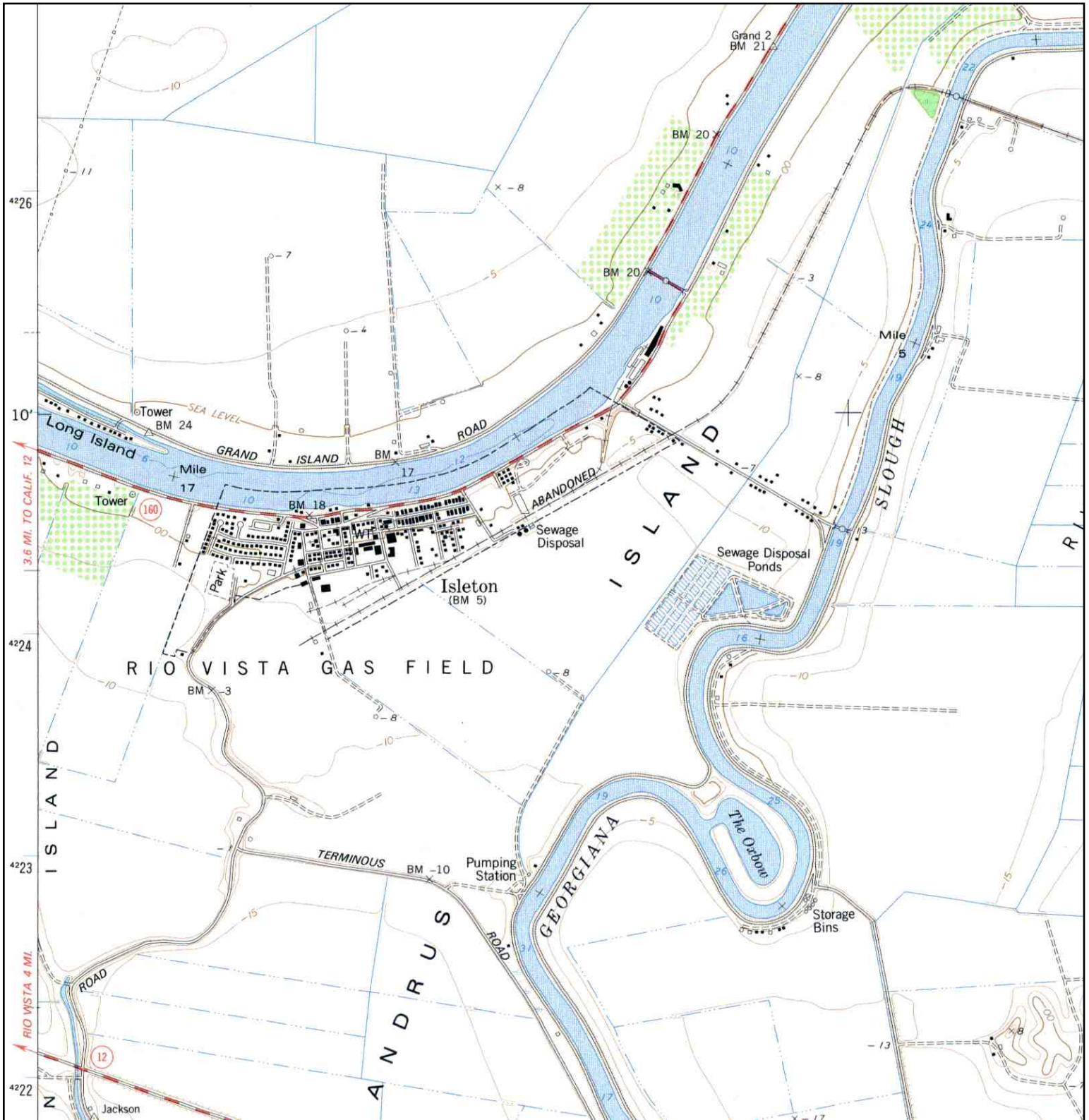
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 16.9	CLIENT:	MECx
	NAME: RIO VISTA	ADDRESS:	RiverMile 16.9	CONTACT:	Robert Bell
	MAP YEAR: 1952		WALNUT GROVE, CA 95690	INQUIRY#:	1790929.4
	SERIES: 15	LAT/LONG:	38.163 / 121.6168	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500				

Historical Topographic Map



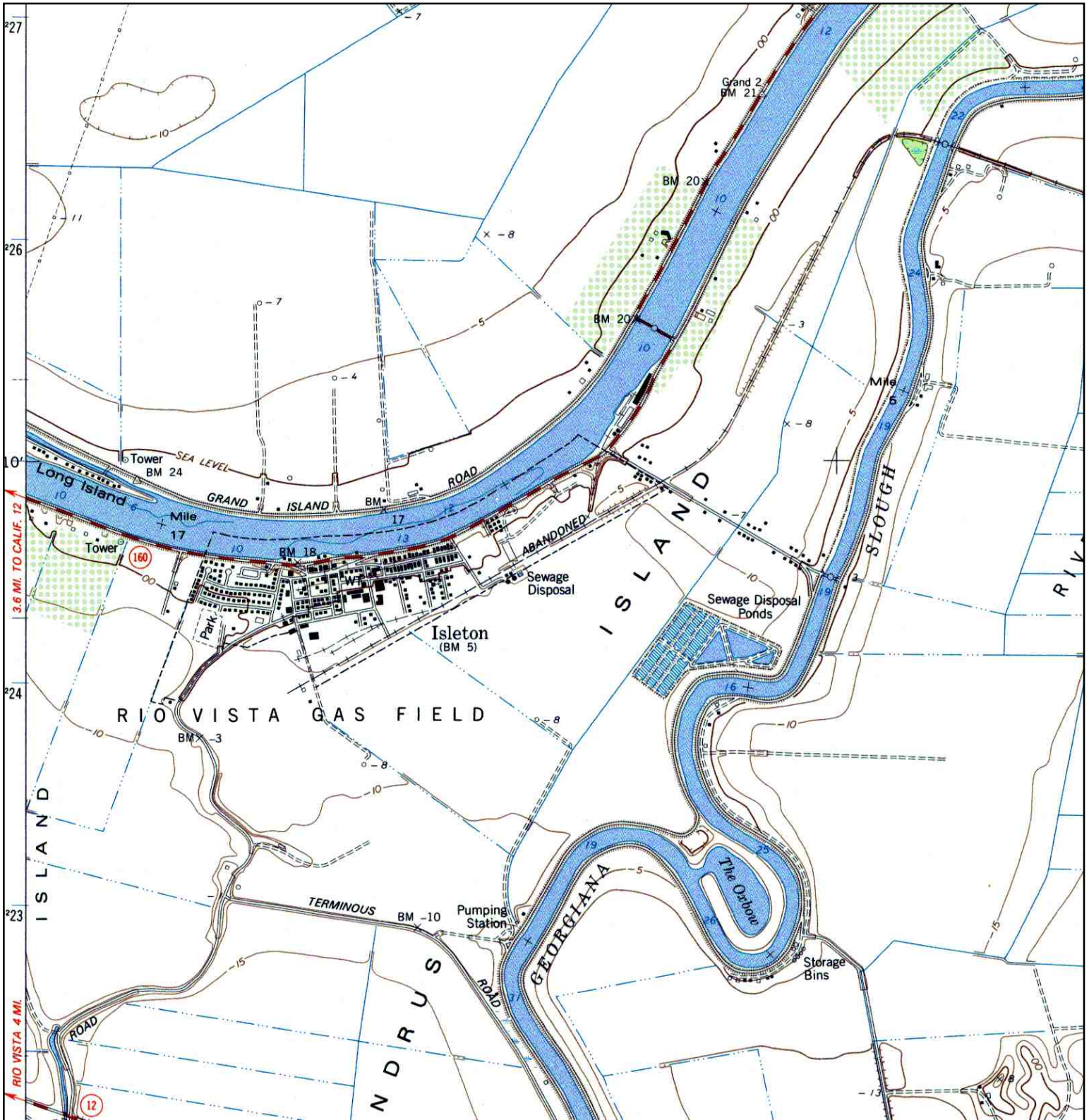
<p>N</p>	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: ISLETON	Sacramento River RiverMile 16.9	MECx
	MAP YEAR: 1968	ADDRESS: RiverMile 16.9	CONTACT: Robert Bell
	REVISED FROM: 1952	WALNUT GROVE, CA 95690	INQUIRY#: 1790929.4
	SERIES: 7.5	LAT/LONG: 38.163 / 121.6168	RESEARCH DATE: 11/07/2006
	SCALE: 1:24000		

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 16.9	CLIENT:	MECx
	NAME: ISLETON	ADDRESS:	RiverMile 16.9	CONTACT:	Robert Bell
	MAP YEAR: 1978		WALNUT GROVE, CA 95690	INQUIRY#:	1790929.4
	SERIES: 7.5	LAT/LONG:	38.163 / 121.6168	RESEARCH DATE:	11/07/2006
	SCALE: 1:24000				

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 16.9	CLIENT:	MECx
	NAME: ISLETON	ADDRESS:	RiverMile 16.9	CONTACT:	Robert Bell
	MAP YEAR: 1993		WALNUT GROVE, CA 95690	INQUIRY#:	1790929.4
	REVISED FROM: 1978	LAT/LONG:	38.163 / 121.6168	RESEARCH DATE:	11/07/2006
	SERIES: 7.5				
	SCALE: 1:24000				

APPENDIX B

**EDR REPORT FOR STE19.0R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 19.0
RiverMile 19.0
WALNUT GROVE, CA 95690**

Inquiry Number: 1790950.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 19.0
WALNUT GROVE, CA 95690

COORDINATES

Latitude (North): 38.216100 - 38° 12' 58.0"
Longitude (West): 121.606800 - 121° 36' 24.5"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 621965.3
UTM Y (Meters): 4230503.5
Elevation: 18 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-B5 ISLETON, CA
Most Recent Revision: 1993

West Map: 38121-B6 RIO VISTA, CA
Most Recent Revision: 1993

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

EXECUTIVE SUMMARY

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data

EXECUTIVE SUMMARY

ENVIROSTOR..... EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV..... Indian Reservations

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

EDR Historical Auto StationsEDR Proprietary Historic Gas Stations

EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

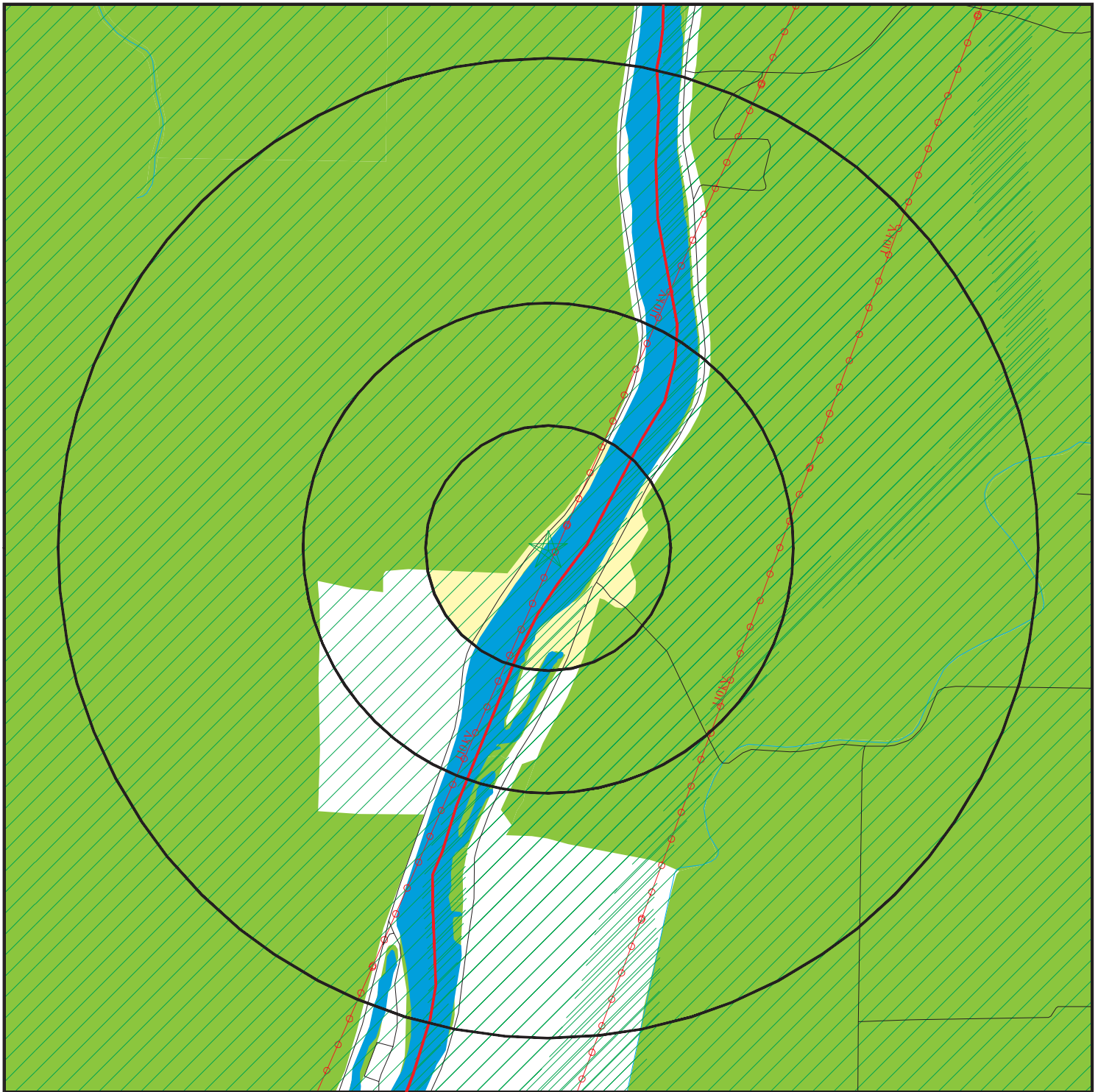
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
BELLI & FAHN	SWEEPS UST
LARRY A. GALISKY	SWEEPS UST
RIVERFRONT SHELL	SWEEPS UST
LEARY RANCH, INC.	SWEEPS UST
WALNUT GROVE MARINA	CHMIRS, Sacramento Co. ML
SCHAUER RIVER FRONT PROP.	LUST, Cortese, Sacramento Co. ML
SPEZIA FLYING SERVICE	CERC-NFRAP, Sacramento Co. ML
LANEY STATION	CERC-NFRAP
CAL TRANS - STEAMBOAT FERRY	LUST
CALTRANS	LUST
BELLI & FAHN	UST
CAL TRANS - STEAMBOAT FERRY	UST
BELLI & FAHN	HIST UST
RIVERFRONT SHELL	HIST UST
SACRAMENTO COUNTY / DOT	HAZNET
RIVER DELTA UNIFIED SCHOOL	HAZNET
200 YDS S OF GUSTY MARINA-MOKELUMNE RIVER OFF OLD WALNUT GRO	ERNS
PG&E GRAND ISLAND SUBSTATION	Sacramento Co. ML
L.E. WIEDMAN	Sacramento Co. ML
JULIUS NIELSEN	Sacramento Co. ML
B.C. STOCKING	Sacramento Co. ML
RIVERFRONT DEVELOPMENT	Sacramento Co. ML
ED GIOVONIONI	Sacramento Co. ML
HORI RANCH, INC	Sacramento Co. ML
CAMPI BROS	Sacramento Co. ML
TOKVYOSH FARM, INC	Sacramento Co. ML
CITIZENS UTILITIES	Sacramento Co. ML
DELTA BODY & FENDER	Sacramento Co. ML
CLIPPER SPA MANUFACTURING	Sacramento Co. ML
DECKHAND'S MARINA	Sacramento Co. ML
WILCOX BROTHERS INC	Sacramento Co. ML
FRONTIER CITIZENS TELECOM CO OF CA	Sacramento Co. ML
PUCCI MASTER METER	Sacramento Co. ML
SCHAUER RIVER FRONT PROPERTY	Sacramento Co. CS
RIVER DELTA RECYCLING	SWRCY

OVERVIEW MAP - 1790950.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚡ Manufactured Gas Plants
- 🏠 National Priority List Sites
- 🗑️ Landfill Sites
- 🏢 Dept. Defense Sites



- 🏠 Indian Reservations BIA
- 📏 County Boundary
- ⚡ Power transmission lines
- 🛢️ Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🔴 Areas of Concern

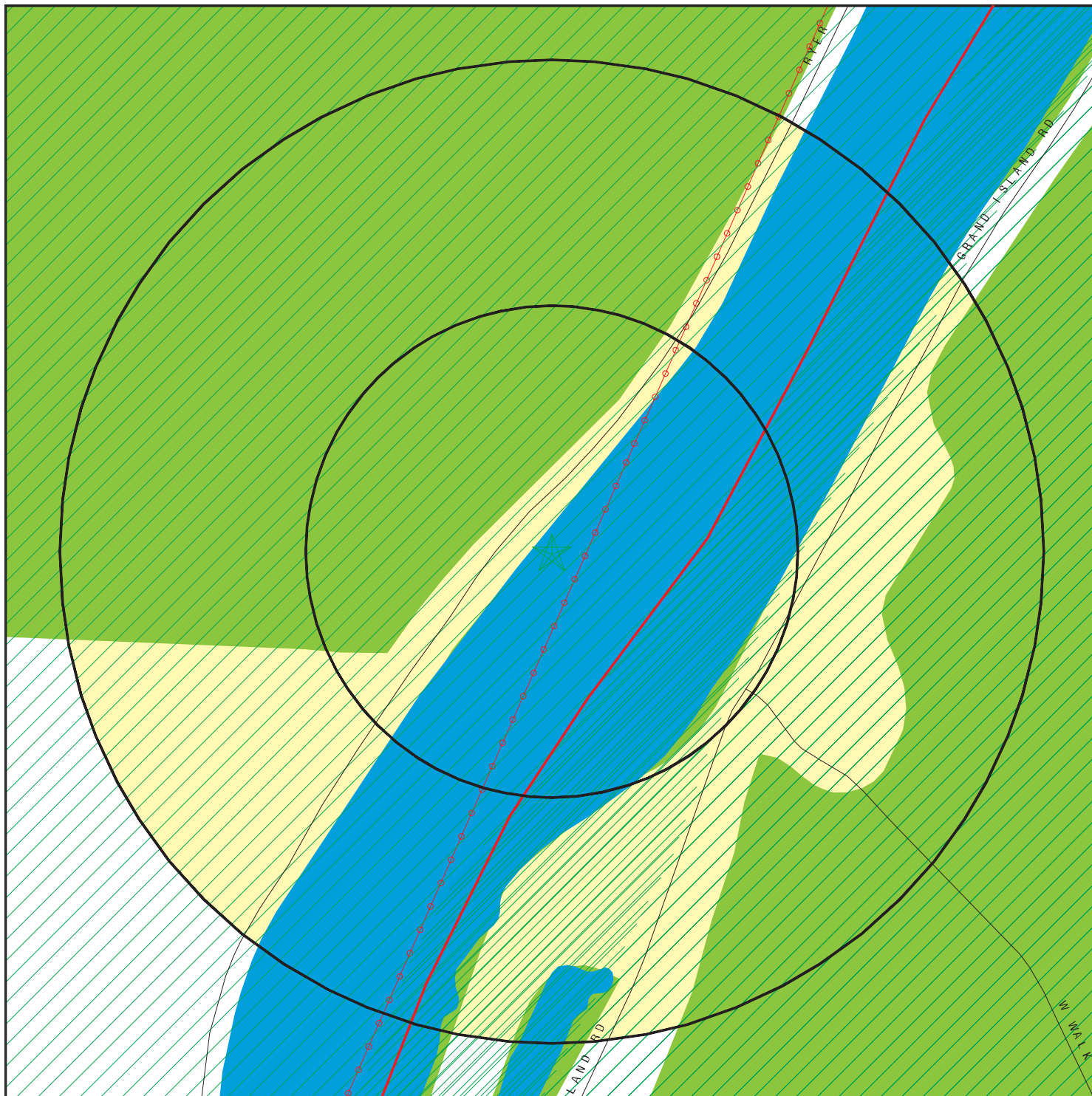


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 19.0
 ADDRESS: RiverMile 19.0
 WALNUT GROVE CA 95690
 LAT/LONG: 38.2161 / 121.6068

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790950.2s
 DATE: November 07, 2006 11:02 am

DETAIL MAP - 1790950.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚡ Manufactured Gas Plants
- ⚠ Sensitive Receptors
- 🚧 National Priority List Sites
- 🗑️ Landfill Sites
- 🏢 Dept. Defense Sites

- 🏠 Indian Reservations BIA
- 📏 County Boundary
- ⚡ Power transmission lines
- 🛢️ Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🔴 Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 19.0
 ADDRESS: RiverMile 19.0
 WALNUT GROVE CA 95690
 LAT/LONG: 38.2161 / 121.6068

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790950.2s
 DATE: November 07, 2006 11:02 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO SITES FOUND

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RYDE	S104654942	PG&E GRAND ISLAND SUBSTATION	HWY 220 W OF RYDE	95690	Sacramento Co. ML
RYER ISLAND	U001614112	BELLI & FAHN	HWY 132	95690	HIST UST
RYER ISLAND	U003113127	BELLI & FAHN	HIGHWAY 132	95690	SWEEPS UST
RYER ISLAND	U003973539	BELLI & FAHN	HIGHWAY 132	95690	UST
RYER ISLAND	U003700411	CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1	95690	LUST
RYER ISLAND	U003975762	CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1	95690	UST
WALNU	S105269822	L.E. WIEDMAN	12680 HWY 160	95690	Sacramento Co. ML
WALNU	S105269824	JULIUS NIELSEN	13600 HWY 160	95690	Sacramento Co. ML
WALNU	S105269825	B.C. STOCKING	14064 HWY 160	95690	Sacramento Co. ML
WALNU	S105269826	RIVERFRONT DEVELOPMENT	14160 HWY 160	95690	Sacramento Co. ML
WALNU	S105269827	ED GIOVONIONI	14192 HWY 160	95690	Sacramento Co. ML
WALNU	S105269828	HORI RANCH, INC	14242 HWY 160	95690	Sacramento Co. ML
WALNU	S105269829	CAMPI BROS	14246 HWY 160	95690	Sacramento Co. ML
WALNU	S105269830	TOKVYOSH FARM, INC	14494 HWY 160	95690	Sacramento Co. ML
WALNU	S105269846	CITIZENS UTILITIES	HWY 160/GRAND AV	95690	Sacramento Co. ML
WALNU	S105269851	DELTA BODY & FENDER	HWY 160/WALNUT	95690	Sacramento Co. ML
WALNUT GROVE	S105027297	SCHAUER RIVER FRONT PROP.	14162 HWY 160	95690	LUST, Cortese, Sacramento Co. ML
WALNUT GROVE	S102436565	SCHAUER RIVER FRONT PROPERTY	14162 HIGHWAY 160	95690	Sacramento Co. CS
WALNUT GROVE	S103707536	CLIPPER SPA MANUFACTURING	14099 HIGHWAY 160	95690	Sacramento Co. ML
WALNUT GROVE	S104654940	DECKHAND'S MARINA	14090 HWY 160	95690	Sacramento Co. ML
WALNUT GROVE	S104795876	WILCOX BROTHERS INC	14180 HIGHWAY 160	95690	Sacramento Co. ML
WALNUT GROVE	S106928523	LARRY A. GALISKY	13890 HIGHWAY 160	95690	SWEEPS UST
WALNUT GROVE	S106931414	RIVERFRONT SHELL	14160 HWY 160 WALNUT GRV	95690	SWEEPS UST
WALNUT GROVE	U001614138	RIVERFRONT SHELL	14160 HIGHWAY 160 WALNUT GROVE	95690	HIST UST
WALNUT GROVE	S107472869	CALTRANS	HWY 20 / RYERS ISLAND RD	95690	LUST
WALNUT GROVE	1003879380	SPEZIA FLYING SERVICE	ANDRUS ISLAND RD	95690	CERC-NFRAP, Sacramento Co. ML
WALNUT GROVE	S107769743	FRONTIER CITIZENS TELECOM CO OF CA	14111 GRAND AVE	95690	Sacramento Co. ML
WALNUT GROVE	S106928580	LEARY RANCH, INC.	13376 ST HWY 160	95690	SWEEPS UST
WALNUT GROVE	S107137777	RIVER DELTA RECYCLING	14164 S RIVER RD	95690	SWRCY
WALNUT GROVE	1003879682	LANEY STATION	TWIN CITIES RD, T5N & R4E	95690	CERC-NFRAP
WALNUT GROVE	S106084894	SACRAMENTO COUNTY / DOT	TWINS CITY RD BRIDGE OVER SNOD	95690	HAZNET
WALNUT GROVE	S107447627	PUCCI MASTER METER	WALKER LAND RD STE B	95690	Sacramento Co. ML
WALNUT GROVE	S102797775	RIVER DELTA UNIFIED SCHOOL	14181 WALNUT GROVE ST.	95690	HAZNET
WALNUT GROVE	S105653842		WALNUT GROVE MARINA	95690	CHMIRS, Sacramento Co. ML
WALNUT GROVE	91240368	200 YDS S OF GUSTY MARINA-MOKELUMNE RIVER OFF OLD WALNUT GRO	200 YDS S OF GUSTY MARINA-MOKELUMNE RIVER OFF OLD WALNUT GRO		ERNS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 19.0
RIVERMILE 19.0
WALNUT GROVE, CA 95690

TARGET PROPERTY COORDINATES

Latitude (North): 38.21610 - 38° 12' 58.0"
Longitude (West): 121.6068 - 121° 36' 24.5"
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 621965.3
UTM Y (Meters): 4230503.5
Elevation: 18 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38121-B5 ISLETON, CA
Most Recent Revision: 1993

West Map: 38121-B6 RIO VISTA, CA
Most Recent Revision: 1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

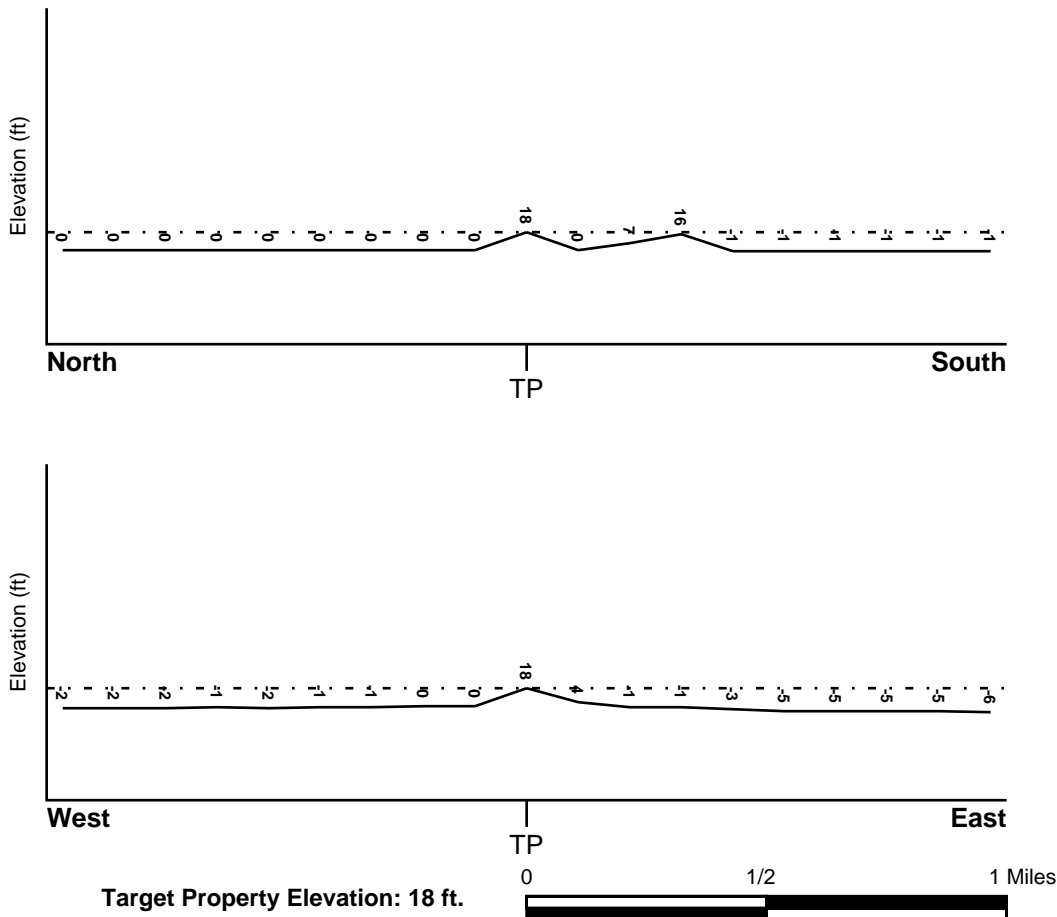
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SOLANO, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0606310530D
Additional Panels in search area:	0602620555C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> ISLETON	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

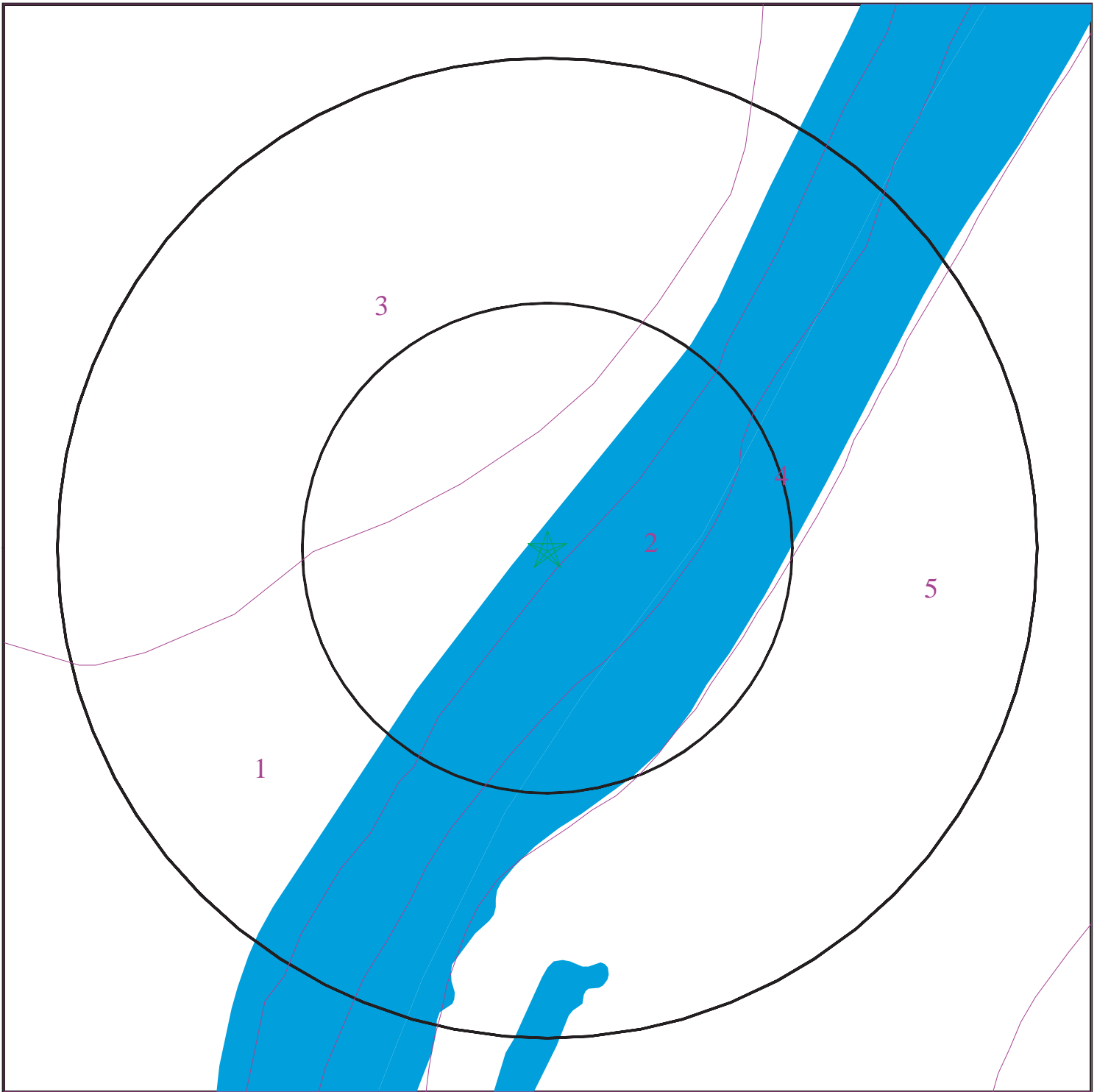
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790950.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: Sacramento River RiverMile 19.0
ADDRESS: RiverMile 19.0
WALNUT GROVE CA 95690
LAT/LONG: 38.2161 / 121.6068

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790950.2s
DATE: November 07, 2006 11:02 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: COLUMBIA

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
1	0 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.10
2	16 inches	33 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 6.10

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	16 inches	23 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
3	33 inches	60 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 8.40 Min: 6.10
3	23 inches	55 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
4	55 inches	60 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60

Soil Map ID: 2

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: VALDEZ

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
2	12 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 5.60

Soil Map ID: 4

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 5

Soil Component Name: SAILBOAT

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	USGS3227039	1/8 - 1/4 Mile SSE
3	USGS3227059	1/8 - 1/4 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	CA3900763	0 - 1/8 Mile SE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

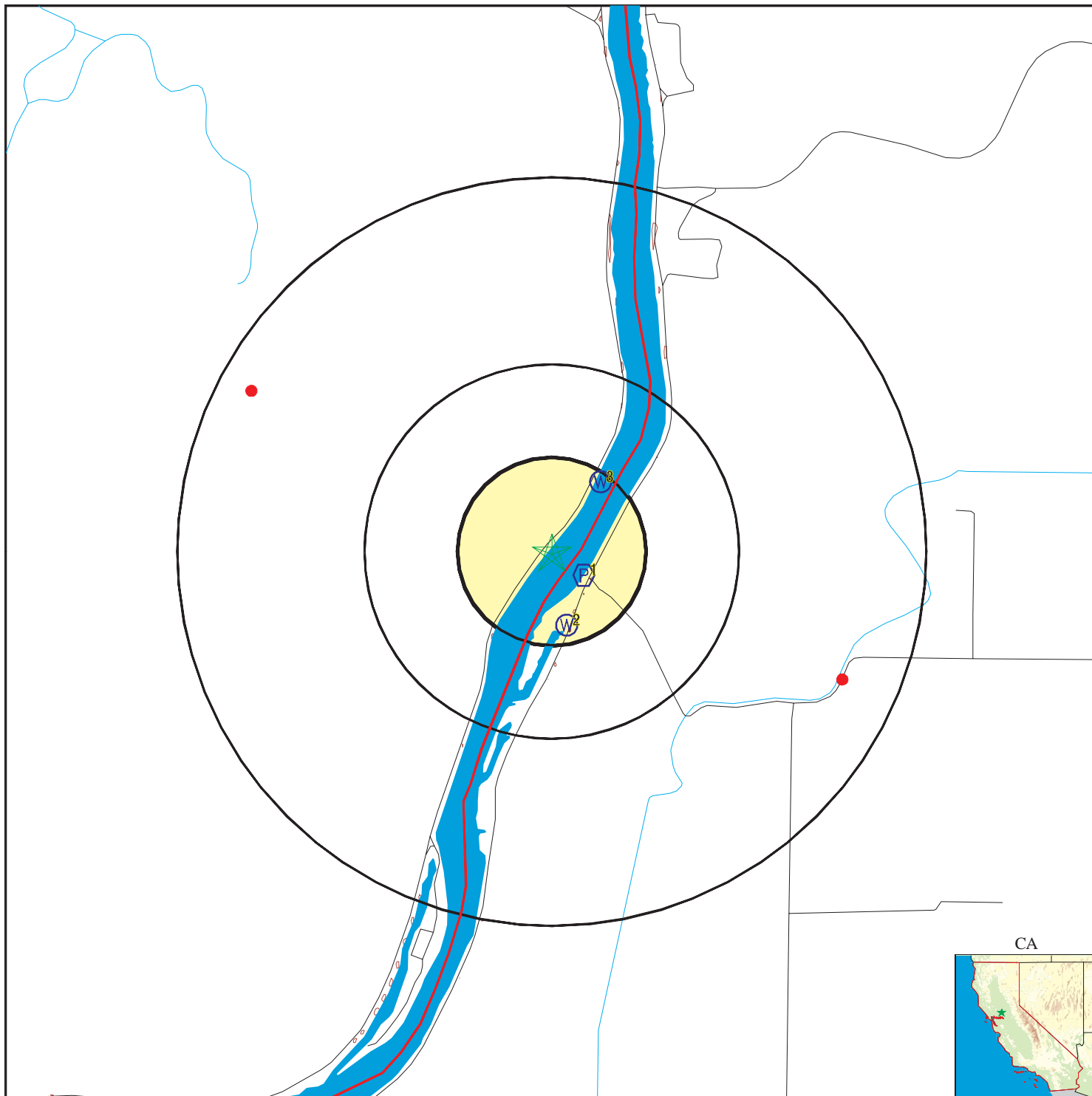
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/2 - 1 Mile WNW	1/2 - 1 Mile ESE

PHYSICAL SETTING SOURCE MAP - 1790950.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Sacramento River RiverMile 19.0
 ADDRESS: RiverMile 19.0
 WALNUT GROVE CA 95690
 LAT/LONG: 38.2161 / 121.6068

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790950.2s
 DATE: November 07, 2006 11:02 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
SE
0 - 1/8 Mile
Lower

FRDS PWS CA3900763

PWS ID: CA3900763 PWS Status: Not Reported
 Date Initiated: Not Reported Date Deactivated: Not Reported
 PWS Name: WIMPY'S NEW HOPE MARINA
 WALNUT GROVE, CA 95690

Addressee / Facility: System Owner/Responsible Party
 JIM ADAMS
 P O BOX 2
 WALNUT GROVE, CA 95690

Facility Latitude: 38 12 55 Facility Longitude: 121 36 15
 City Served: Not Reported
 Treatment Class: Untreated Population: 50

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name: WIMPY'S NEW HOPE LANDING
 Violation Type: Initial Tap Sampling for Pb and Cu
 Contaminant: LEAD & COPPER RULE
 Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0000000.000000000
 Violation ID: 95V0001 Enforcement ID: 0089899
 Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

System Name: WIMPY'S MARINA
 Violation Type: Initial Tap Sampling for Pb and Cu
 Contaminant: LEAD & COPPER RULE
 Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0
 Violation ID: 95V0001 Enforcement ID: 0089899
 Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

System Name: WIMPY'S MARINA
 Violation Type: Initial Tap Sampling for Pb and Cu
 Contaminant: LEAD & COPPER RULE
 Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0
 Violation ID: 95V0001 Enforcement ID: 0089899
 Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

System Name: WIMPY'S NEW HOPE LANDING
 Violation Type: Initial Tap Sampling for Pb and Cu
 Contaminant: LEAD & COPPER RULE
 Compliance Period: 1993-07-01 - 2000-04-04 Analytical Value: 0000000.000000000
 Violation ID: 95V0001 Enforcement ID: 0089899
 Enforcement Date: 2000-04-04 Enf. Action: State Compliance Achieved

System Name: WIMPY'S MARINA
 Violation Type: Initial Tap Sampling for Pb and Cu
 Contaminant: LEAD & COPPER RULE
 Compliance Period: 7/1/1993 0:00:00 - 4/4/2000 0:00:00 Analytical Value: 0
 Violation ID: 95V0001 Enforcement ID: Not Reported
 Enforcement Date: 4/4/2000 0:00:00 Enf. Action: State Compliance Achieved

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

ENFORCEMENT INFORMATION:

System Name:	WIMPY'S MARINA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	7/1/1993 0:00:00 - 4/4/2000 0:00:00	Analytical Value:	Not Reported
Violation ID:	95V0001	Enforcement ID:	Not Reported
Enforcement Date:	4/4/2000 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	WIMPY'S NEW HOPE LANDING		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2015-12-31	Analytical Value:	0000000.000000000
Violation ID:	95V0001	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

2
SSE
1/8 - 1/4 Mile
Lower

FED USGS USGS3227039

Agency cd:	USGS	Site no:	381248121361801
Site name:	004N003E02Q001M		
Latitude:	381248		
Longitude:	1213618	Dec lat:	38.21324873
Dec lon:	-121.60606538	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	ISLETON	Map scale:	24000
Altitude:	2.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19691027
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	100	Hole depth:	100
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1969-10-27	Ground water data end date:	1969-10-27
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
-----	-----	-----
1969-10-27	15.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

3
NE
1/8 - 1/4 Mile
Lower

FED USGS USGS3227059

Agency cd:	USGS	Site no:	381308121361201
Site name:	004N003E02J001M		
Latitude:	381308		
Longitude:	1213612	Dec lat:	38.21880411
Dec lon:	-121.60439873	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	095
Country:	US	Land net:	Not Reported
Location map:	ISLETON	Map scale:	24000
Altitude:	Not Reported	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	Not Reported
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19730618
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	260	Hole depth:	275
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1973-06-18	Ground water data end date:	1973-06-18
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

	Feet below	Feet to
Date	Surface	Sealevel

1973-06-18	12.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

WNW
1/2 - 1 Mile

OIL_GAS CA10180442

Apinumber:	09500436	Operator:	Peter Cook, Jr.
Lease:	Peter Cook Lower Unit	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.22241		
Longitude:	-121.62048		
Td:	5901	Sec:	2
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

ESE
1/2 - 1 Mile

OIL_GAS CA10180303

Apinumber:	06720299	Operator:	Archer Exploration, Inc.
Lease:	Charamuga	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.21123		
Longitude:	-121.59148		
Td:	6000	Sec:	12
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95690	1	0	0.00

Federal EPA Radon Zone for SOLANO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SOLANO COUNTY, CA

Number of sites tested: 41

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.993 pCi/L	95%	5%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	-0.433 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 19.0
RiverMile 19.0
WALNUT GROVE, CA 95690**

Inquiry Number: 1790950.5

November 07, 2006



The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 19.0

WALNUT GROVE, CA 95690

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	Pacific Air
1968	Aerial Photograph. Scale: 1"=333'	Flight Year: 1968	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1987	Aerial Photograph. Scale: 1"=666'	Flight Year: 1987	USGS
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790950.5

YEAR: 1952

| = 555'





INQUIRY #: 1790950.5

YEAR: 1968

| = 333'





INQUIRY #: 1790950.5

YEAR: 1971

| = 333'





INQUIRY #: 1790950.5

YEAR: 1987

| = 666'





INQUIRY #: 1790950.5

YEAR: 1993

| = 666'





INQUIRY #: 1790950.5

YEAR: 1998

| = 666'





EDR® Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**Sacramento River RiverMile 19.0
RiverMile 19.0
WALNUT GROVE, CA 95690**

Inquiry Number: 1790950.4

November 07, 2006

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EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

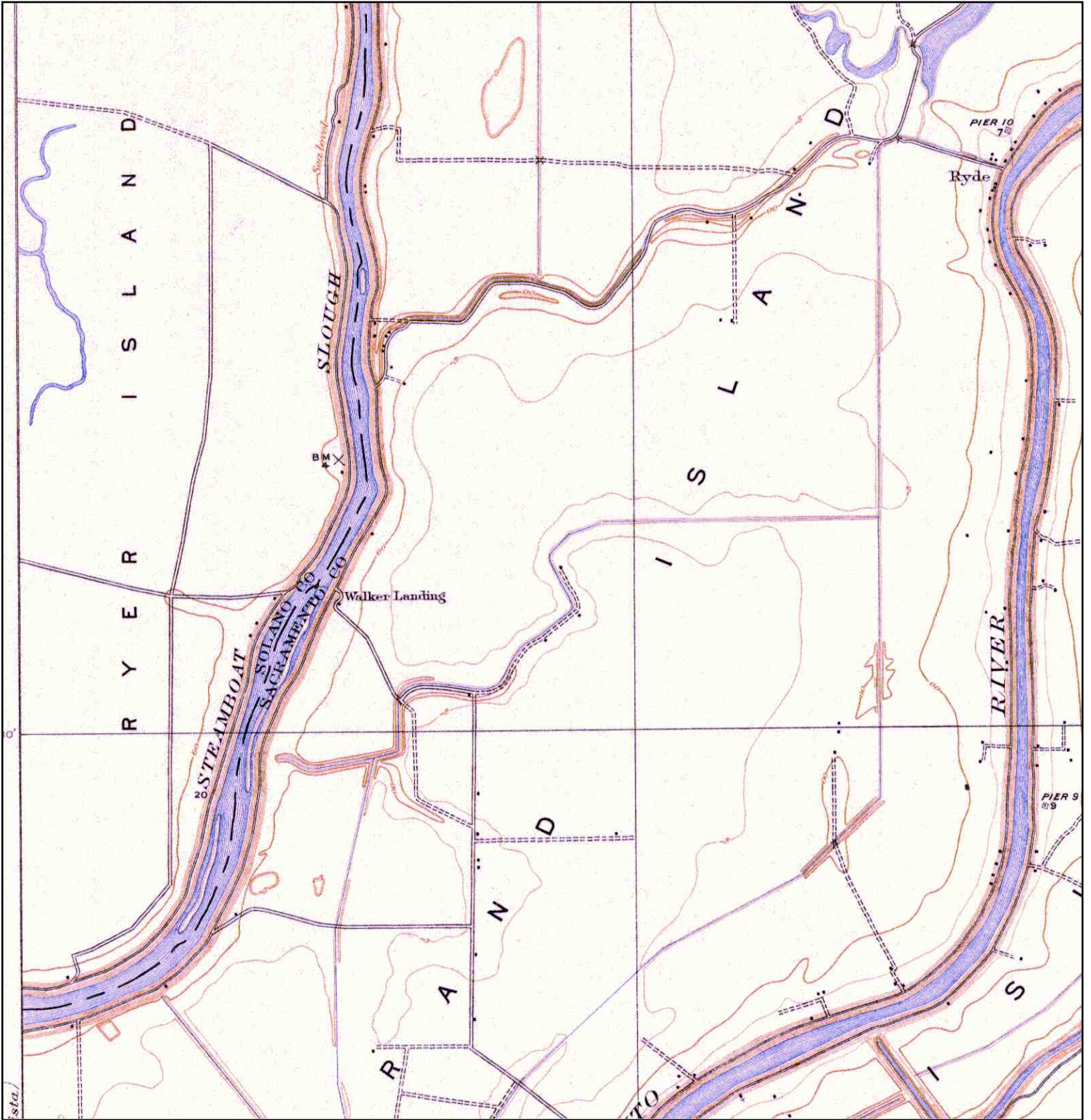
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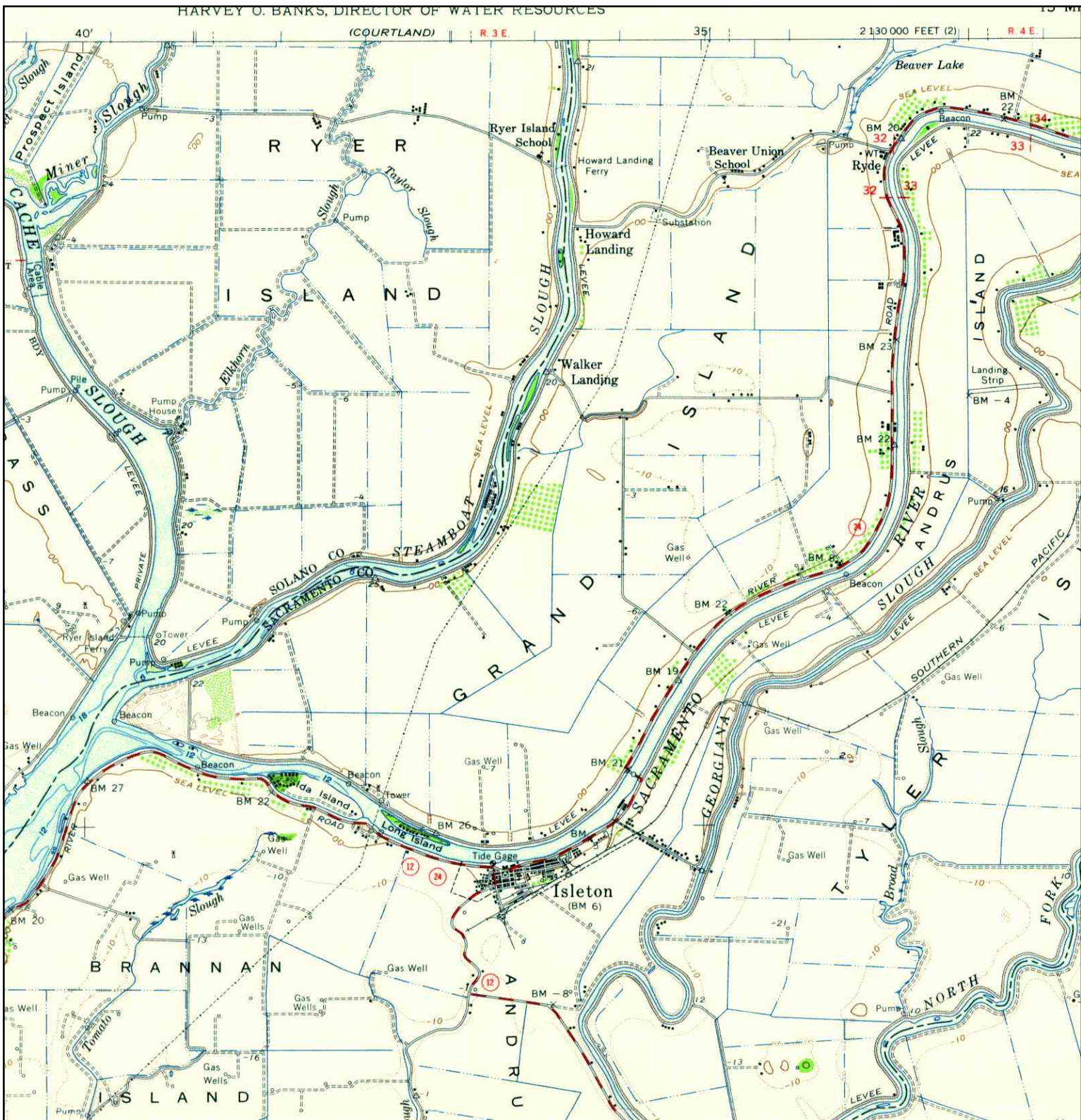
Historical Topographic Map




<p>N ↑</p>	<p>TARGET QUAD NAME: ISLETON MAP YEAR: 1910</p>	<p>SITE NAME: Sacramento River RiverMile 19.0</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790950.4 RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5 SCALE: 1:31680</p>	<p>ADDRESS: RiverMile 19.0 WALNUT GROVE, CA 95690</p> <p>LAT/LONG: 38.2161 / 121.6068</p>	

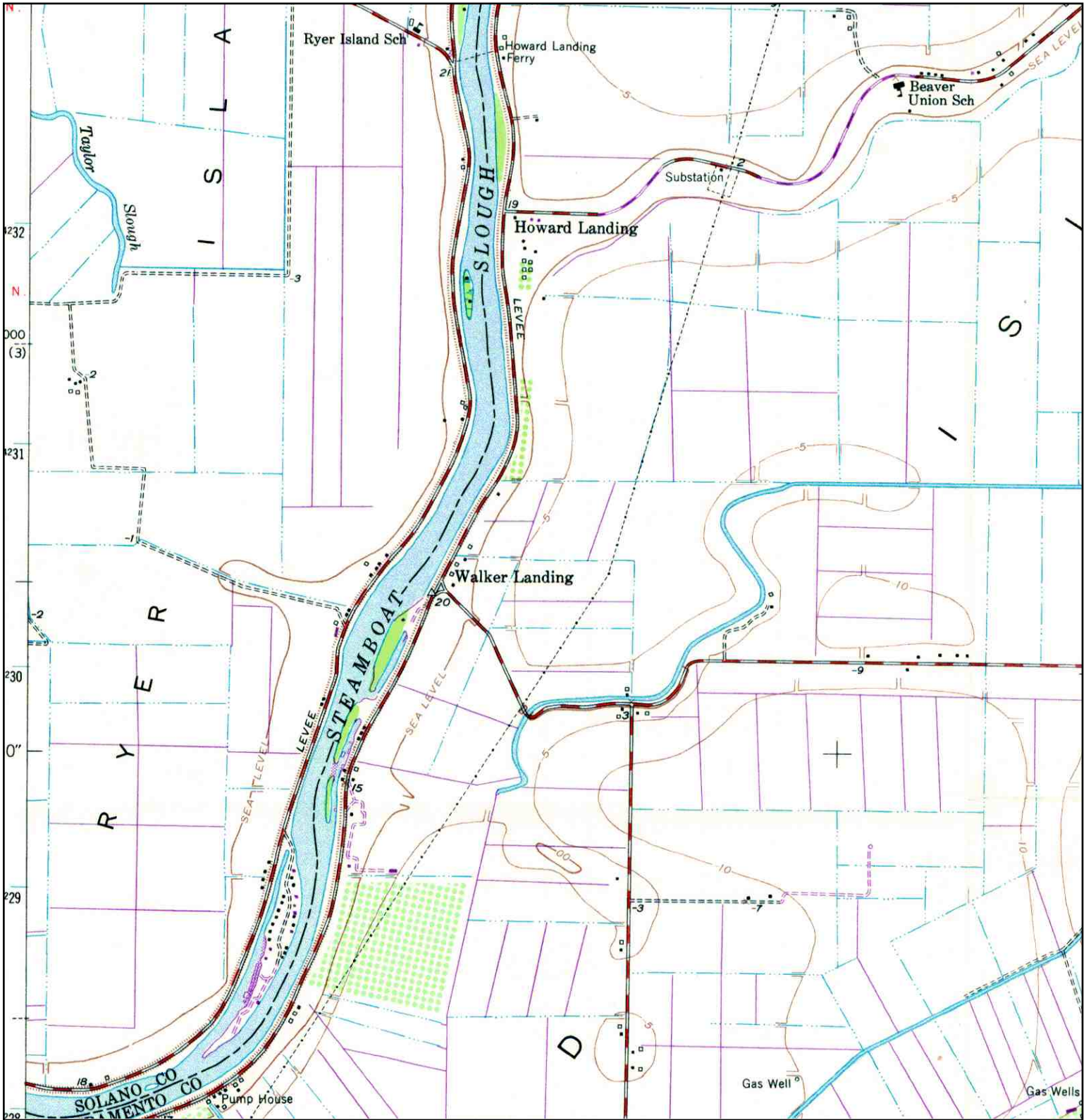
Historical Topographic Map

HARVEY O. BANKS, DIRECTOR OF WATER RESOURCES



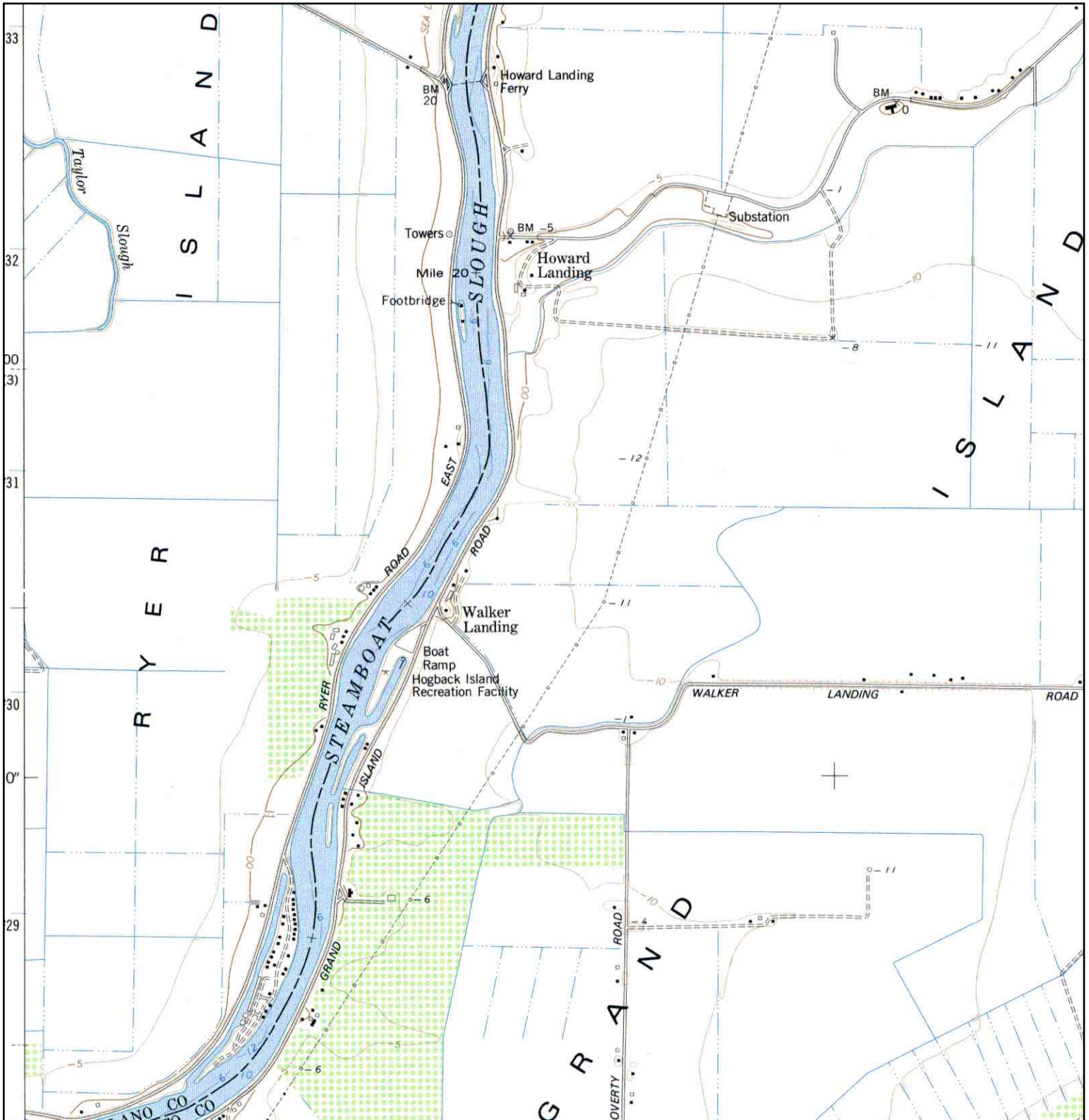
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 19.0	CLIENT:	MECx	
	NAME: RIO VISTA	ADDRESS:	RiverMile 19.0	CONTACT:	Robert Bell	
	MAP YEAR: 1952	WALNUT GROVE, CA 95690	INQUIRY#:	1790950.4	RESEARCH DATE:	11/07/2006
	SERIES: 15	LAT/LONG: 38.2161 / 121.6068				
	SCALE: 1:62500					


Historical Topographic Map



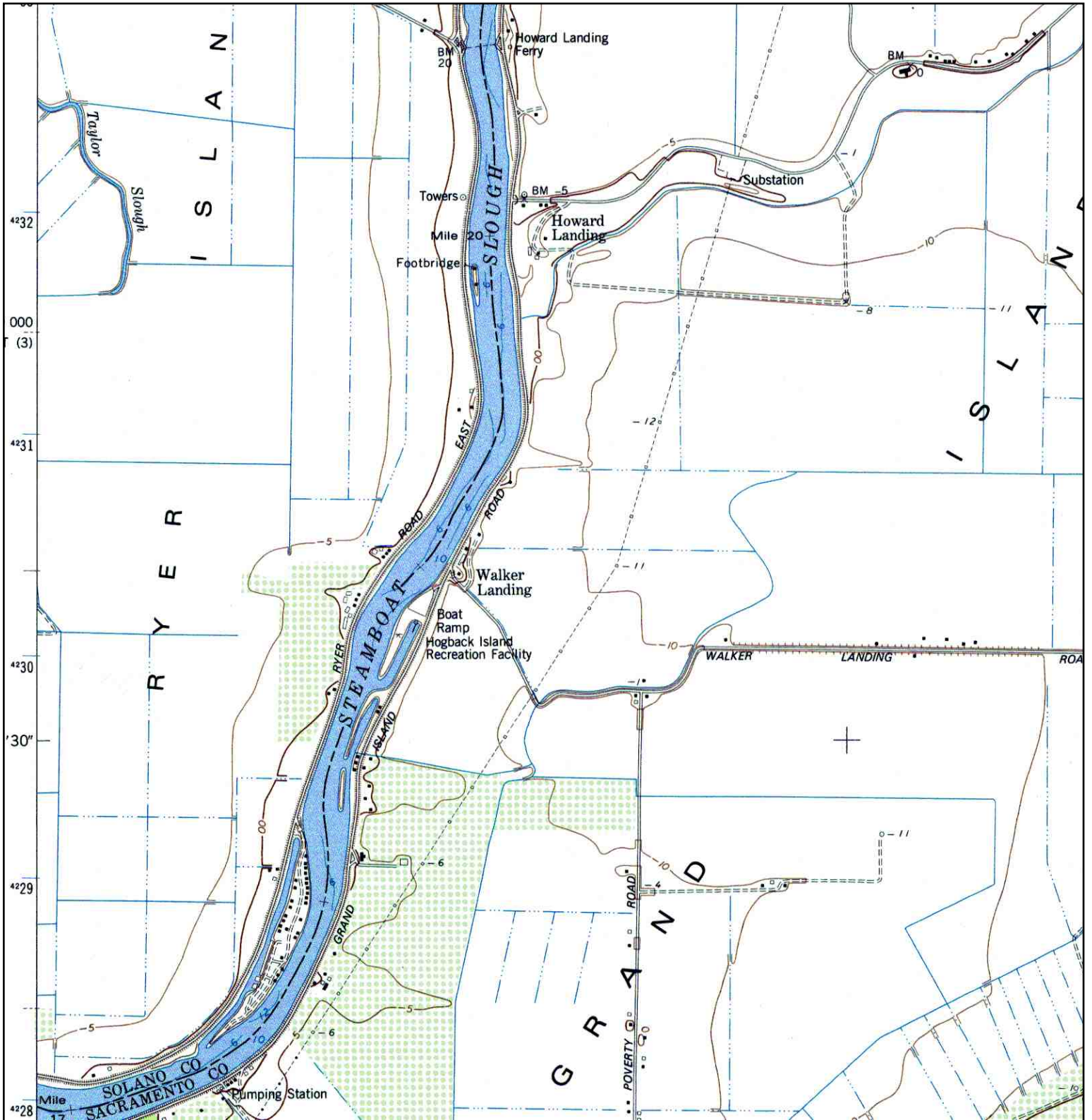
<p>N</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx	
	NAME: ISLETON	19.0	CONTACT:	Robert Bell		
	MAP YEAR: 1968	ADDRESS:	RiverMile 19.0	INQUIRY#:	1790950.4	
	REVISED FROM: 1952	WALNUT GROVE, CA 95690	LAT/LONG:	38.2161 / 121.6068	RESEARCH DATE:	11/07/2006
	SERIES: 7.5					
	SCALE: 1:24000					

Historical Topographic Map



	TARGET QUAD NAME: ISLETON MAP YEAR: 1978	SITE NAME: Sacramento River RiverMile 19.0 ADDRESS: RiverMile 19.0 WALNUT GROVE, CA 95690	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790950.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:24000	LAT/LONG: 38.2161 / 121.6068	

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 19.0	CLIENT:	MECx
	NAME: ISLETON	ADDRESS:	RiverMile 19.0	CONTACT:	Robert Bell
	MAP YEAR: 1993	LAT/LONG:	WALNUT GROVE, CA 95690	INQUIRY#:	1790950.4
	REVISED FROM: 1978			RESEARCH DATE:	11/07/2006
	SERIES: 7.5				
	SCALE: 1:24000				

APPENDIX C

**EDR REPORT FOR SAC19.4R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 19.4
RiverMile 19.4
WALNUT GROVE, CA 95690**

Inquiry Number: 1790951.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 19.4
WALNUT GROVE, CA 95690

COORDINATES

Latitude (North): 38.220100 - 38° 13' 12.4"
Longitude (West): 121.603700 - 121° 36' 13.3"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 622230.1
UTM Y (Meters): 4230951.5
Elevation: 12 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-B5 ISLETON, CA
Most Recent Revision: 1993

West Map: 38121-B6 RIO VISTA, CA
Most Recent Revision: 1993

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

EXECUTIVE SUMMARY

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data

EXECUTIVE SUMMARY

ENVIROSTOR..... EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV..... Indian Reservations

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

EDR Historical Auto StationsEDR Proprietary Historic Gas Stations

EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

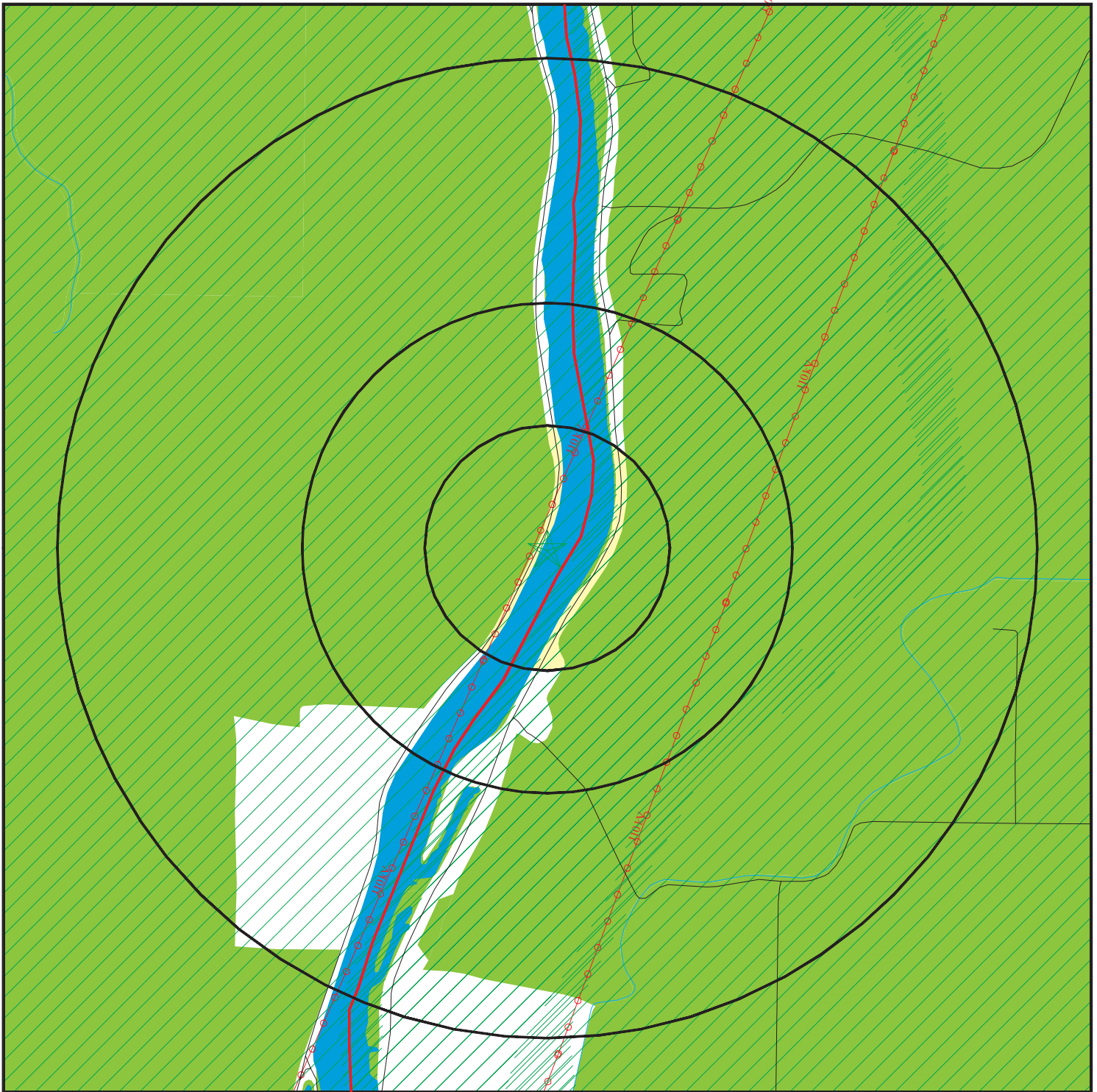
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
BELLI & FAHN	SWEEPS UST
LARRY A. GALISKY	SWEEPS UST
RIVERFRONT SHELL	SWEEPS UST
LEARY RANCH, INC.	SWEEPS UST
WALNUT GROVE MARINA	CHMIRS, Sacramento Co. ML
SCHAUER RIVER FRONT PROP.	LUST, Cortese, Sacramento Co. ML
SPEZIA FLYING SERVICE	CERC-NFRAP, Sacramento Co. ML
LANEY STATION	CERC-NFRAP
CAL TRANS - STEAMBOAT FERRY	LUST
CALTRANS	LUST
BELLI & FAHN	UST
CAL TRANS - STEAMBOAT FERRY	UST
BELLI & FAHN	HIST UST
RIVERFRONT SHELL	HIST UST
SACRAMENTO COUNTY / DOT	HAZNET
RIVER DELTA UNIFIED SCHOOL	HAZNET
200 YDS S OF GUSTY MARINA-MOKELUMNE RIVER OFF OLD WALNUT GRO	ERNS
PG&E GRAND ISLAND SUBSTATION	Sacramento Co. ML
L.E. WIEDMAN	Sacramento Co. ML
JULIUS NIELSEN	Sacramento Co. ML
B.C. STOCKING	Sacramento Co. ML
RIVERFRONT DEVELOPMENT	Sacramento Co. ML
ED GIOVONIONI	Sacramento Co. ML
HORI RANCH, INC	Sacramento Co. ML
CAMPI BROS	Sacramento Co. ML
TOKVYOSH FARM, INC	Sacramento Co. ML
CITIZENS UTILITIES	Sacramento Co. ML
DELTA BODY & FENDER	Sacramento Co. ML
CLIPPER SPA MANUFACTURING	Sacramento Co. ML
DECKHAND'S MARINA	Sacramento Co. ML
WILCOX BROTHERS INC	Sacramento Co. ML
FRONTIER CITIZENS TELECOM CO OF CA	Sacramento Co. ML
SCHAUER RIVER FRONT PROPERTY	Sacramento Co. CS
RIVER DELTA RECYCLING	SWRCY

OVERVIEW MAP - 1790951.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ▣ National Priority List Sites
- ▣ Landfill Sites
- ▣ Dept. Defense Sites

- ▣ Indian Reservations BIA
- ▣ County Boundary
- ▣ Power transmission lines
- ▣ Oil & Gas pipelines
- ▣ 100-year flood zone
- ▣ 500-year flood zone
- ▣ National Wetland Inventory
- ▣ Areas of Concern

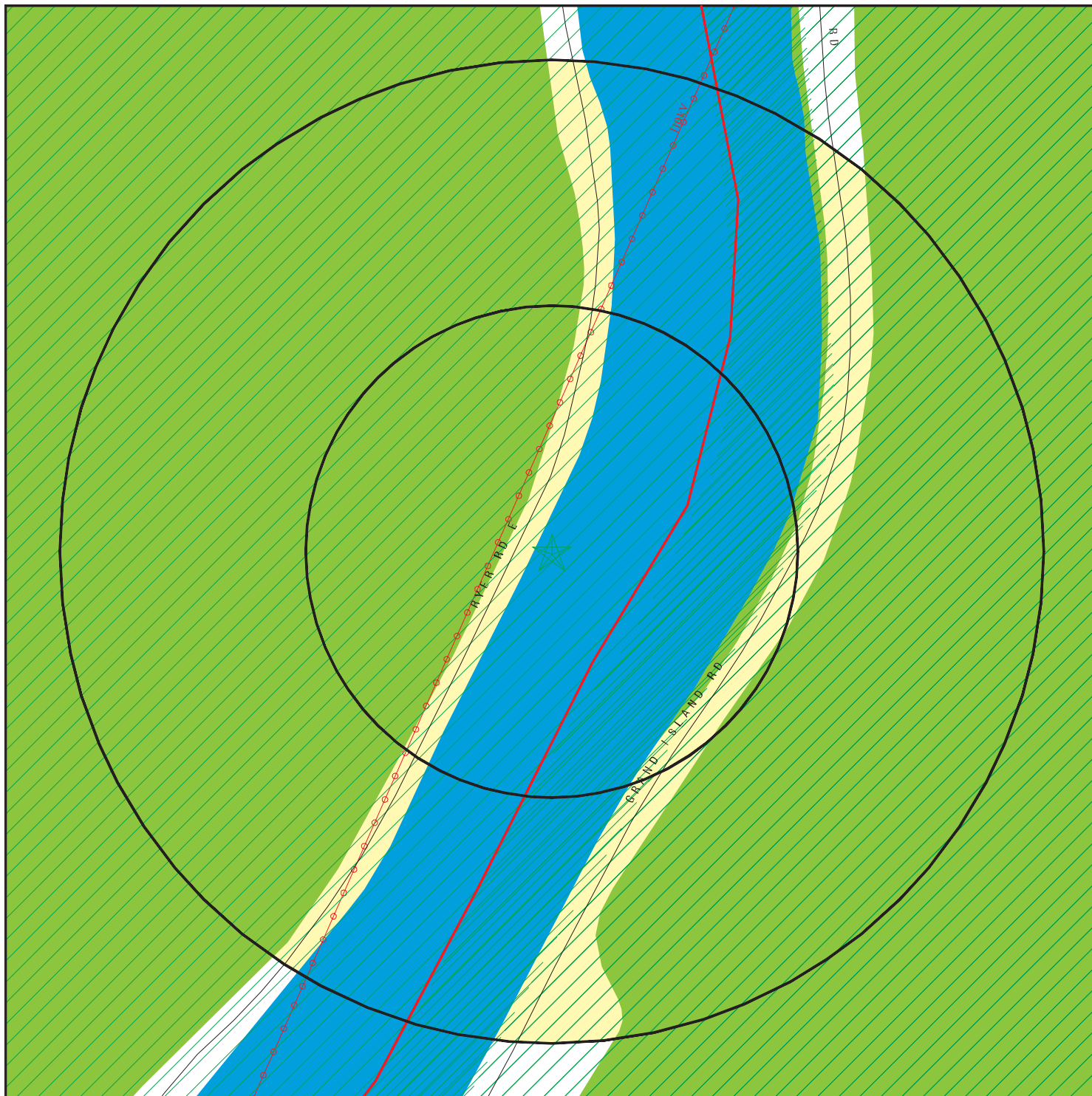


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 19.4
 ADDRESS: RiverMile 19.4
 WALNUT GROVE CA 95690
 LAT/LONG: 38.2201 / 121.6037

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790951.2s
 DATE: November 07, 2006 11:01 am

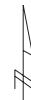
DETAIL MAP - 1790951.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚡ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🚚 National Priority List Sites
- 🗑️ Landfill Sites
- 🏠 Dept. Defense Sites



- 🏠 Indian Reservations BIA
- 📏 County Boundary
- ⚡ Power transmission lines
- 📏 Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🔴 Areas of Concern



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SITE NAME: Sacramento River RiverMile 19.4
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 LAT/LONG: 38.2201 / 121.6037

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790951.2s
 DATE: November 07, 2006 11:01 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO SITES FOUND

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RYDE	S104654942	PG&E GRAND ISLAND SUBSTATION	HWY 220 W OF RYDE	95690	Sacramento Co. ML
RYER ISLAND	U001614112	BELLI & FAHN	HWY 132	95690	HIST UST
RYER ISLAND	U003113127	BELLI & FAHN	HIGHWAY 132	95690	SWEEPS UST
RYER ISLAND	U003973539	BELLI & FAHN	HIGHWAY 132	95690	UST
RYER ISLAND	U003700411	CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1	95690	LUST
RYER ISLAND	U003975762	CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1	95690	UST
WALNU	S105269822	L.E. WIEDMAN	12680 HWY 160	95690	Sacramento Co. ML
WALNU	S105269824	JULIUS NIELSEN	13600 HWY 160	95690	Sacramento Co. ML
WALNU	S105269825	B.C. STOCKING	14064 HWY 160	95690	Sacramento Co. ML
WALNU	S105269826	RIVERFRONT DEVELOPMENT	14160 HWY 160	95690	Sacramento Co. ML
WALNU	S105269827	ED GIOVONIONI	14192 HWY 160	95690	Sacramento Co. ML
WALNU	S105269828	HORI RANCH, INC	14242 HWY 160	95690	Sacramento Co. ML
WALNU	S105269829	CAMPI BROS	14246 HWY 160	95690	Sacramento Co. ML
WALNU	S105269830	TOKVYOSH FARM, INC	14494 HWY 160	95690	Sacramento Co. ML
WALNU	S105269846	CITIZENS UTILITIES	HWY 160/GRAND AV	95690	Sacramento Co. ML
WALNU	S105269851	DELTA BODY & FENDER	HWY 160/WALNUT	95690	Sacramento Co. ML
WALNUT GROVE	S105027297	SCHAUER RIVER FRONT PROP.	14162 HWY 160	95690	LUST, Cortese, Sacramento Co. ML
WALNUT GROVE	S102436565	SCHAUER RIVER FRONT PROPERTY	14162 HIGHWAY 160	95690	Sacramento Co. CS
WALNUT GROVE	S103707536	CLIPPER SPA MANUFACTURING	14099 HIGHWAY 160	95690	Sacramento Co. ML
WALNUT GROVE	S104654940	DECKHAND'S MARINA	14090 HWY 160	95690	Sacramento Co. ML
WALNUT GROVE	S104795876	WILCOX BROTHERS INC	14180 HIGHWAY 160	95690	Sacramento Co. ML
WALNUT GROVE	S106928523	LARRY A. GALISKY	13890 HIGHWAY 160	95690	SWEEPS UST
WALNUT GROVE	S106931414	RIVERFRONT SHELL	14160 HWY 160 WALNUT GRV	95690	SWEEPS UST
WALNUT GROVE	U001614138	RIVERFRONT SHELL	14160 HIGHWAY 160 WALNUT GROVE	95690	HIST UST
WALNUT GROVE	S107472869	CALTRANS	HWY 20 / RYERS ISLAND RD	95690	LUST
WALNUT GROVE	1003879380	SPEZIA FLYING SERVICE	ANDRUS ISLAND RD	95690	CERC-NFRAP, Sacramento Co. ML
WALNUT GROVE	S107769743	FRONTIER CITIZENS TELECOM CO OF CA	14111 GRAND AVE	95690	Sacramento Co. ML
WALNUT GROVE	S106928580	LEARY RANCH, INC.	13376 ST HWY 160	95690	SWEEPS UST
WALNUT GROVE	S107137777	RIVER DELTA RECYCLING	14164 S RIVER RD	95690	SWRCY
WALNUT GROVE	1003879682	LANEY STATION	TWIN CITIES RD, T5N & R4E	95690	CERC-NFRAP
WALNUT GROVE	S106084894	SACRAMENTO COUNTY / DOT	TWINS CITY RD BRIDGE OVER SNOD	95690	HAZNET
WALNUT GROVE	S102797775	RIVER DELTA UNIFIED SCHOOL	14181 WALNUT GROVE ST.	95690	HAZNET
WALNUT GROVE	S105653842		WALNUT GROVE MARINA	95690	CHMIRS, Sacramento Co. ML
WALNUT GROVE	91240368	200 YDS S OF GUSTY MARINA-MOKELUMNE RIVER OFF OLD WALNUT GRO	200 YDS S OF GUSTY MARINA-MOKELUMNE RIVER OFF OLD WALNUT GRO		ERNS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS**HIST CAL-SITES:** Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 19.4
RIVERMILE 19.4
WALNUT GROVE, CA 95690

TARGET PROPERTY COORDINATES

Latitude (North): 38.22010 - 38° 13' 12.4"
Longitude (West): 121.6037 - 121° 36' 13.3"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 622230.1
UTM Y (Meters): 4230951.5
Elevation: 12 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38121-B5 ISLETON, CA
Most Recent Revision: 1993

West Map: 38121-B6 RIO VISTA, CA
Most Recent Revision: 1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

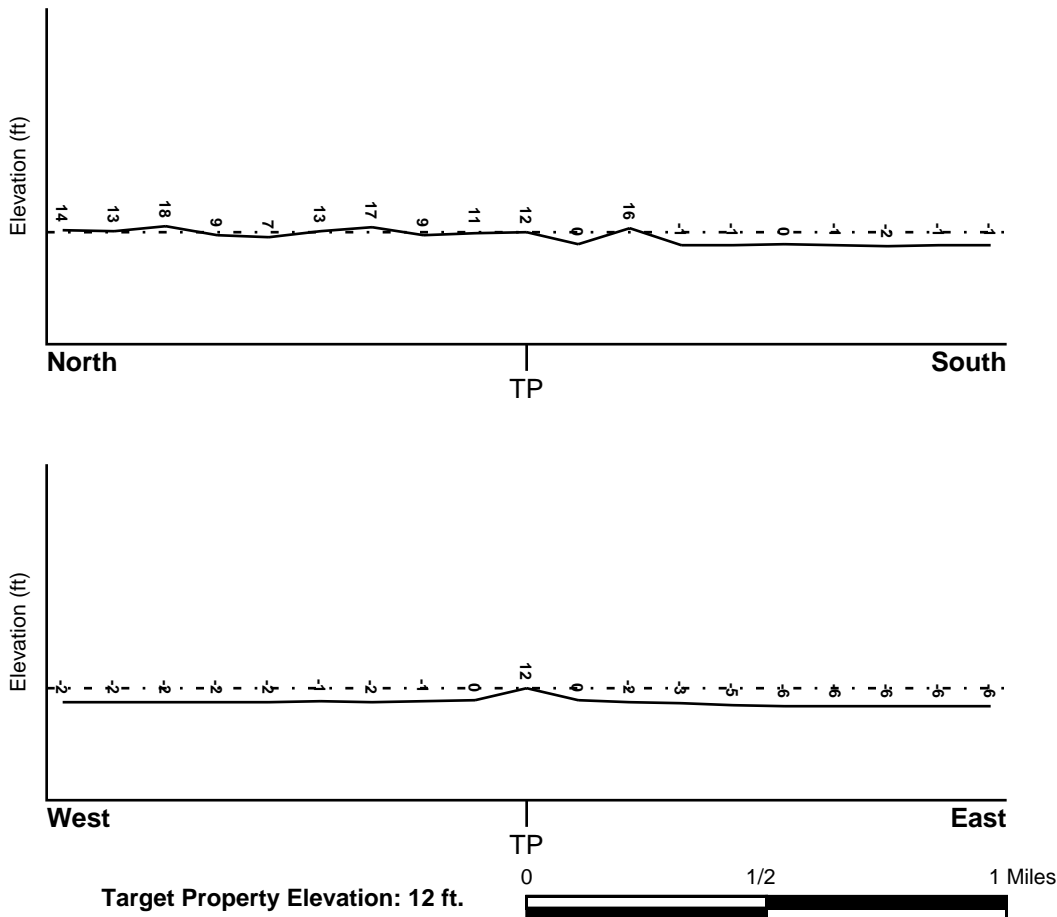
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SOLANO, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0606310530D
Additional Panels in search area:	0602620555C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> ISLETON	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

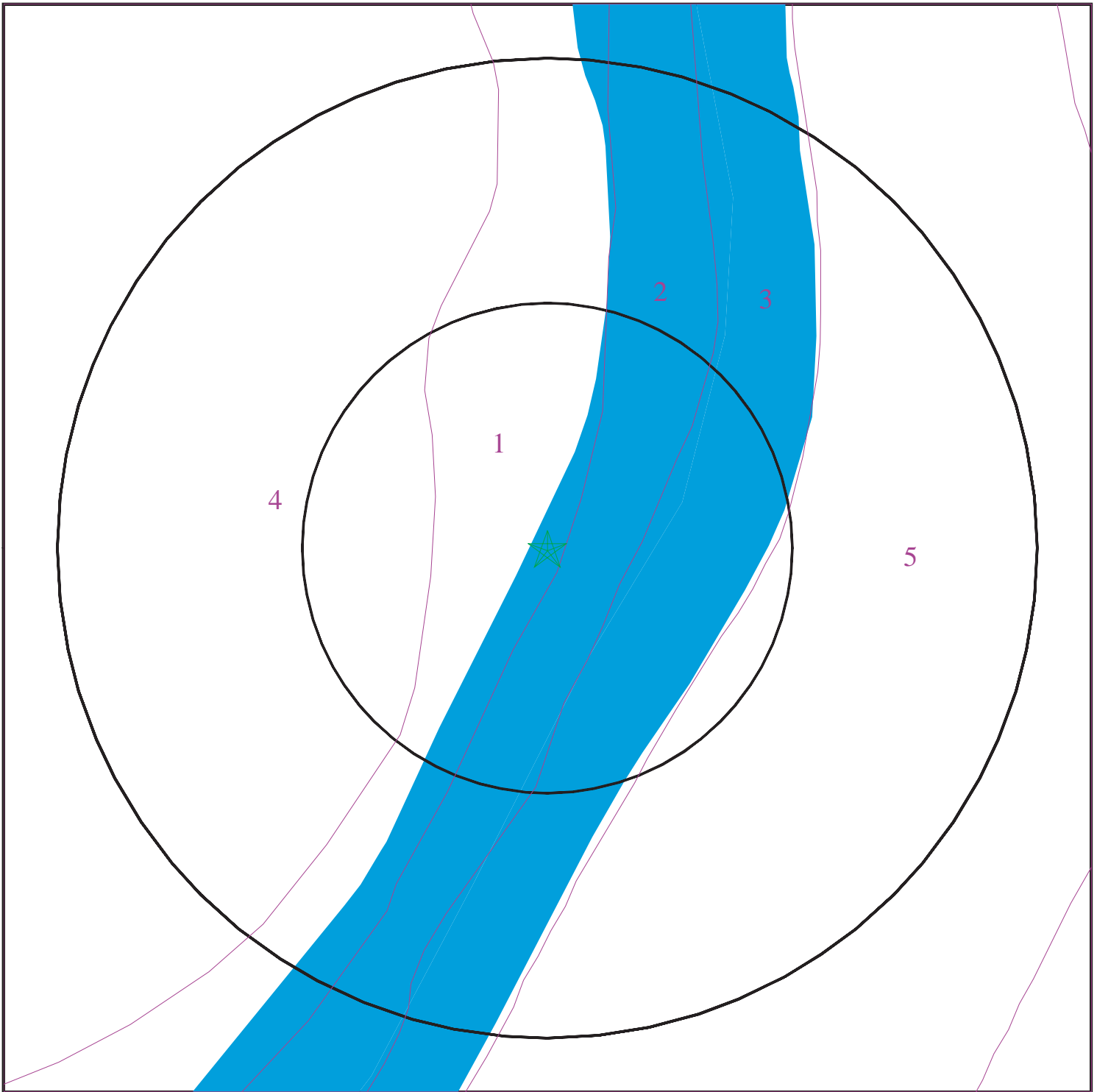
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790951.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sacramento River RiverMile 19.4
ADDRESS: RiverMile 19.4
WALNUT GROVE CA 95690
LAT/LONG: 38.2201 / 121.6037

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790951.2s
DATE: November 07, 2006 11:01 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: COLUMBIA

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
1	0 inches	16 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.10
2	16 inches	33 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 6.10

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	16 inches	23 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
3	33 inches	60 inches	loamy fine sand	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 8.40 Min: 6.10
3	23 inches	55 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
4	55 inches	60 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60

Soil Map ID: 2

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: VALDEZ

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 6.50 Min: 5.10
2	12 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 5.60

Soil Map ID: 5

Soil Component Name: SAILBOAT

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3227059	0 - 1/8 Mile SSW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
3	USGS3227039	1/4 - 1/2 Mile SSW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
2	CA3900763	1/4 - 1/2 Mile SSW

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

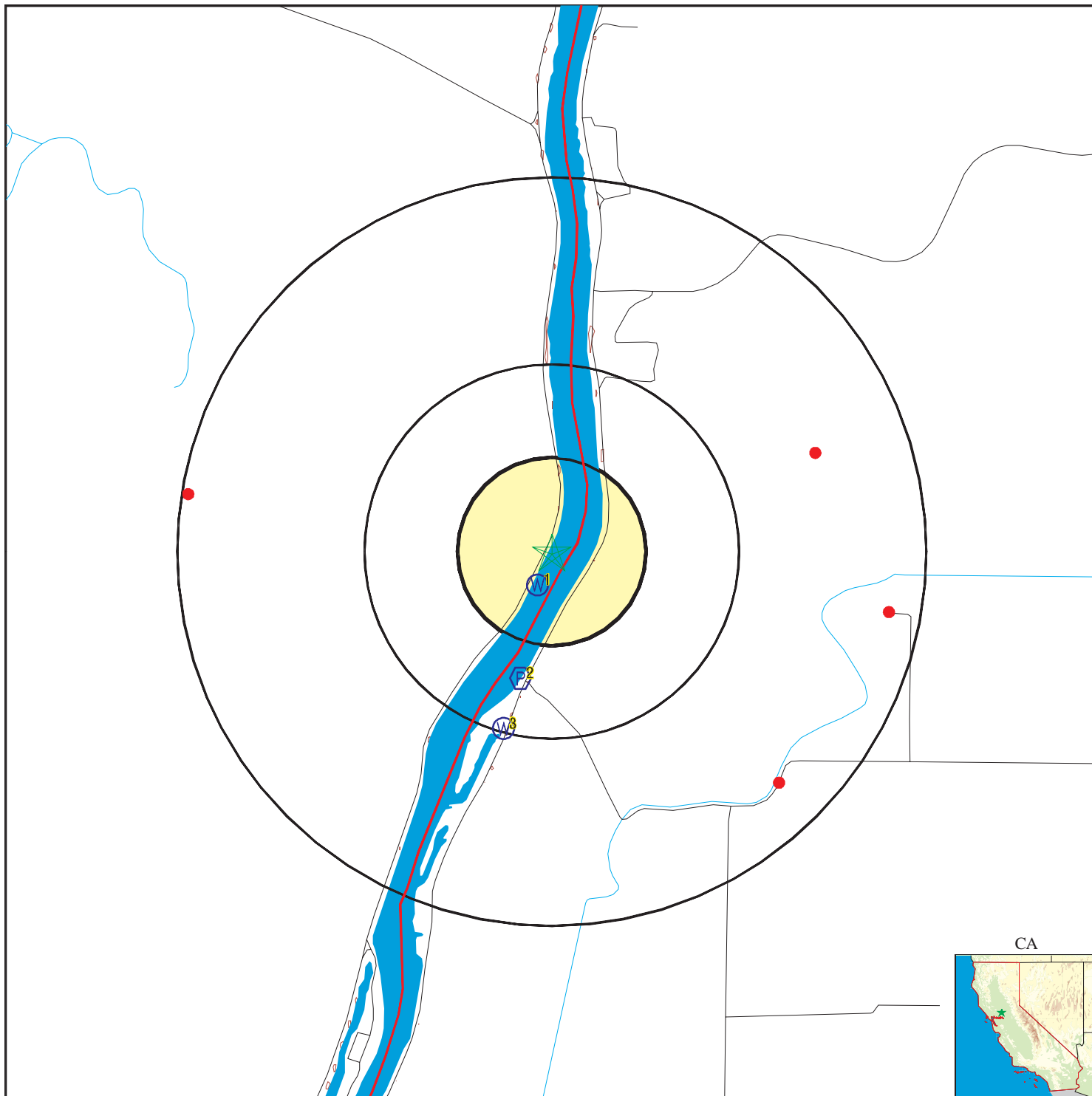
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/2 - 1 Mile ENE	1/2 - 1 Mile West
1/2 - 1 Mile East	1/2 - 1 Mile SE

PHYSICAL SETTING SOURCE MAP - 1790951.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Sacramento River RiverMile 19.4
 ADDRESS: RiverMile 19.4
 WALNUT GROVE CA 95690
 LAT/LONG: 38.2201 / 121.6037

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790951.2s
 DATE: November 07, 2006 11:01 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
SSW
0 - 1/8 Mile
Lower

FED USGS USGS3227059

Agency cd:	USGS	Site no:	381308121361201
Site name:	004N003E02J001M		
Latitude:	381308		
Longitude:	1213612	Dec lat:	38.21880411
Dec lon:	-121.60439873	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	095
Country:	US	Land net:	Not Reported
Location map:	ISLETON	Map scale:	24000
Altitude:	Not Reported	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	Not Reported
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19730618
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	260	Hole depth:	275
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1973-06-18	Ground water data end date:	1973-06-18
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1973-06-18	12.00	

2
SSW
1/4 - 1/2 Mile
Lower

FRDS PWS CA3900763

PWS ID:	CA3900763	PWS Status:	Not Reported
Date Initiated:	Not Reported	Date Deactivated:	Not Reported
PWS Name:	WIMPY'S NEW HOPE MARINA WALNUT GROVE, CA 95690		

Addressee / Facility:	System Owner/Responsible Party JIM ADAMS P O BOX 2 WALNUT GROVE, CA 95690
-----------------------	--

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Facility Latitude:	38 12 55	Facility Longitude:	121 36 15
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	50

PWS currently has or had major violation(s) or enforcement: Yes

Violations information not reported.

ENFORCEMENT INFORMATION:

System Name:	WIMPY'S NEW HOPE LANDING		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2000-04-04	Analytical Value:	0000000.000000000
Violation ID:	95V0001	Enforcement ID:	0089899
Enforcement Date:	2000-04-04	Enf. Action:	State Compliance Achieved
System Name:	WIMPY'S MARINA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2000-04-04	Analytical Value:	0
Violation ID:	95V0001	Enforcement ID:	0089899
Enforcement Date:	2000-04-04	Enf. Action:	State Compliance Achieved
System Name:	WIMPY'S MARINA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2000-04-04	Analytical Value:	0
Violation ID:	95V0001	Enforcement ID:	0089899
Enforcement Date:	2000-04-04	Enf. Action:	State Compliance Achieved
System Name:	WIMPY'S NEW HOPE LANDING		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2000-04-04	Analytical Value:	0000000.000000000
Violation ID:	95V0001	Enforcement ID:	0089899
Enforcement Date:	2000-04-04	Enf. Action:	State Compliance Achieved
System Name:	WIMPY'S MARINA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	7/1/1993 0:00:00 - 4/4/2000 0:00:00	Analytical Value:	0
Violation ID:	95V0001	Enforcement ID:	Not Reported
Enforcement Date:	4/4/2000 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	WIMPY'S MARINA		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	7/1/1993 0:00:00 - 4/4/2000 0:00:00	Analytical Value:	Not Reported
Violation ID:	95V0001	Enforcement ID:	Not Reported
Enforcement Date:	4/4/2000 0:00:00	Enf. Action:	State Compliance Achieved
System Name:	WIMPY'S NEW HOPE LANDING		
Violation Type:	Initial Tap Sampling for Pb and Cu		
Contaminant:	LEAD & COPPER RULE		
Compliance Period:	1993-07-01 - 2015-12-31	Analytical Value:	0000000.000000000
Violation ID:	95V0001	Enforcement ID:	Not Reported
Enforcement Date:	Not Reported	Enf. Action:	Not Reported

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

3
SSW
1/4 - 1/2 Mile
Higher

FED USGS USGS3227039

Agency cd:	USGS	Site no:	381248121361801
Site name:	004N003E02Q001M		
Latitude:	381248		
Longitude:	1213618	Dec lat:	38.21324873
Dec lon:	-121.60606538	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	ISLETON	Map scale:	24000
Altitude:	2.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19691027
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	100	Hole depth:	100
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1969-10-27	Ground water data end date:	1969-10-27
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1969-10-27	15.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

ENE **OIL_GAS** **CA10180461**
1/2 - 1 Mile

Apinumber:	06720214	Operator:	Vicorp Energy, Inc.
Lease:	Boyer Estate	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.22401		
Longitude:	-121.5897		
Td:	6540	Sec:	1
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

West **OIL_GAS** **CA10180442**
1/2 - 1 Mile

Apinumber:	09500436	Operator:	Peter Cook, Jr.
Lease:	Peter Cook Lower Unit	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.22241		
Longitude:	-121.62048		
Td:	5901	Sec:	2
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

East **OIL_GAS** **CA10180384**
1/2 - 1 Mile

Apinumber:	06720274	Operator:	Capitol Oil Corp.
Lease:	Pucci	Well no:	1
Field:	River Island Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	GPS		
Latitude:	38.217841058		
Longitude:	-121.586086376		
Td:	6154	Sec:	1
Twn:	4N	Rge:	3E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

SE
1/2 - 1 Mile

OIL_GAS CA10180303

Apinumber:	06720299	Operator:	Archer Exploration, Inc.
Lease:	Charamuga	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.21123		
Longitude:	-121.59148		
Td:	6000	Sec:	12
Twn:	04N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95690	1	0	0.00

Federal EPA Radon Zone for SOLANO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SOLANO COUNTY, CA

Number of sites tested: 41

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.993 pCi/L	95%	5%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	-0.433 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 19.4
RiverMile 19.4
WALNUT GROVE, CA 95690**

Inquiry Number: 1790951.5

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 19.4

WALNUT GROVE, CA 95690

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	Pacific Air
1968	Aerial Photograph. Scale: 1"=333'	Flight Year: 1968	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1987	Aerial Photograph. Scale: 1"=666'	Flight Year: 1987	USGS
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790951.5

YEAR: 1952

| = 555'



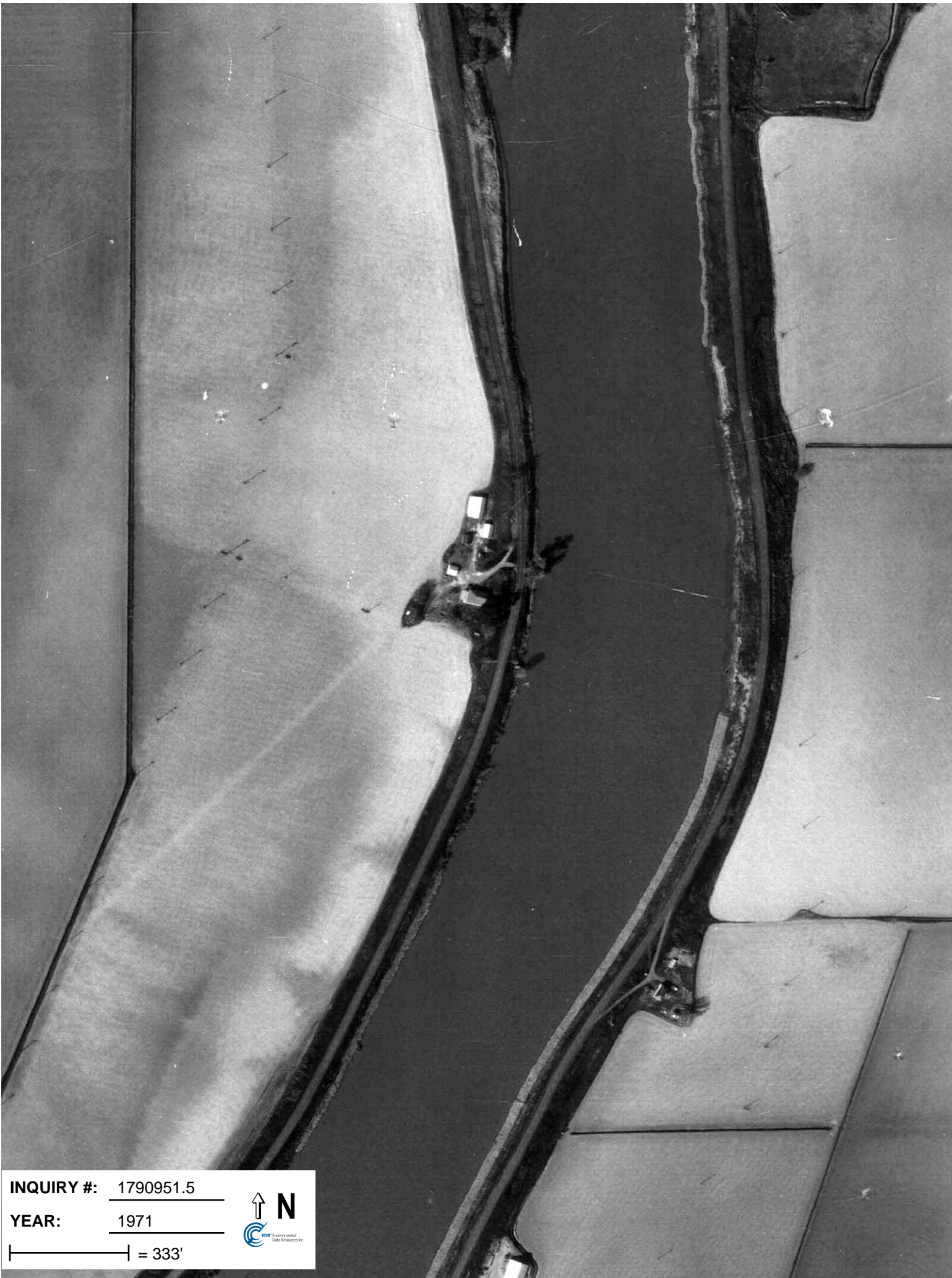


INQUIRY #: 1790951.5

YEAR: 1968

| = 333'





INQUIRY #: 1790951.5

YEAR: 1971

| = 333'





INQUIRY #: 1790951.5

YEAR: 1987

| = 666'





INQUIRY #: 1790951.5

YEAR: 1993

| = 666'





INQUIRY #: 1790951.5

YEAR: 1998

| = 666'





EDR® Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**Sacramento River RiverMile 19.4
RiverMile 19.4
WALNUT GROVE, CA 95690**

Inquiry Number: 1790951.4

November 07, 2006

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

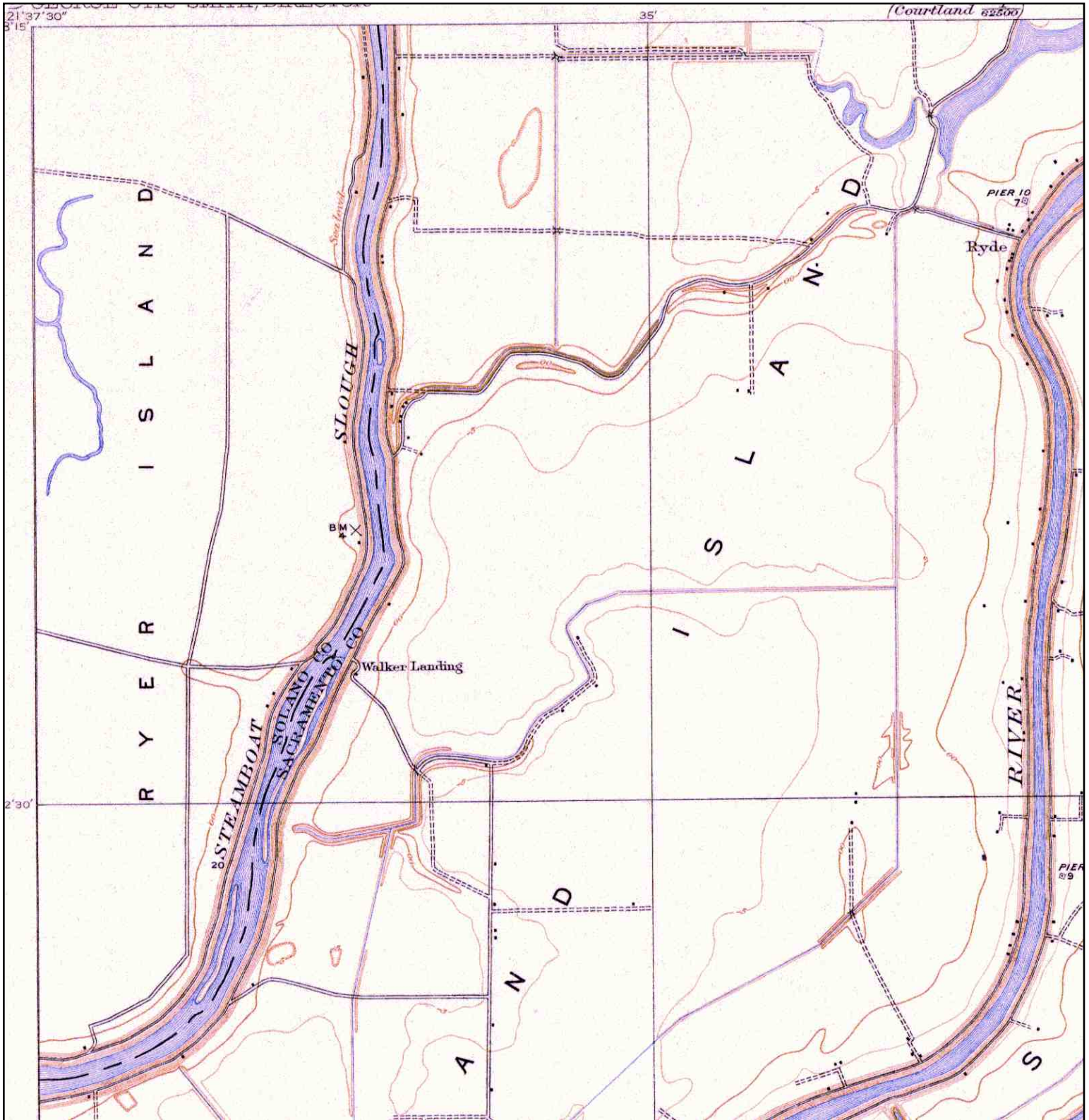
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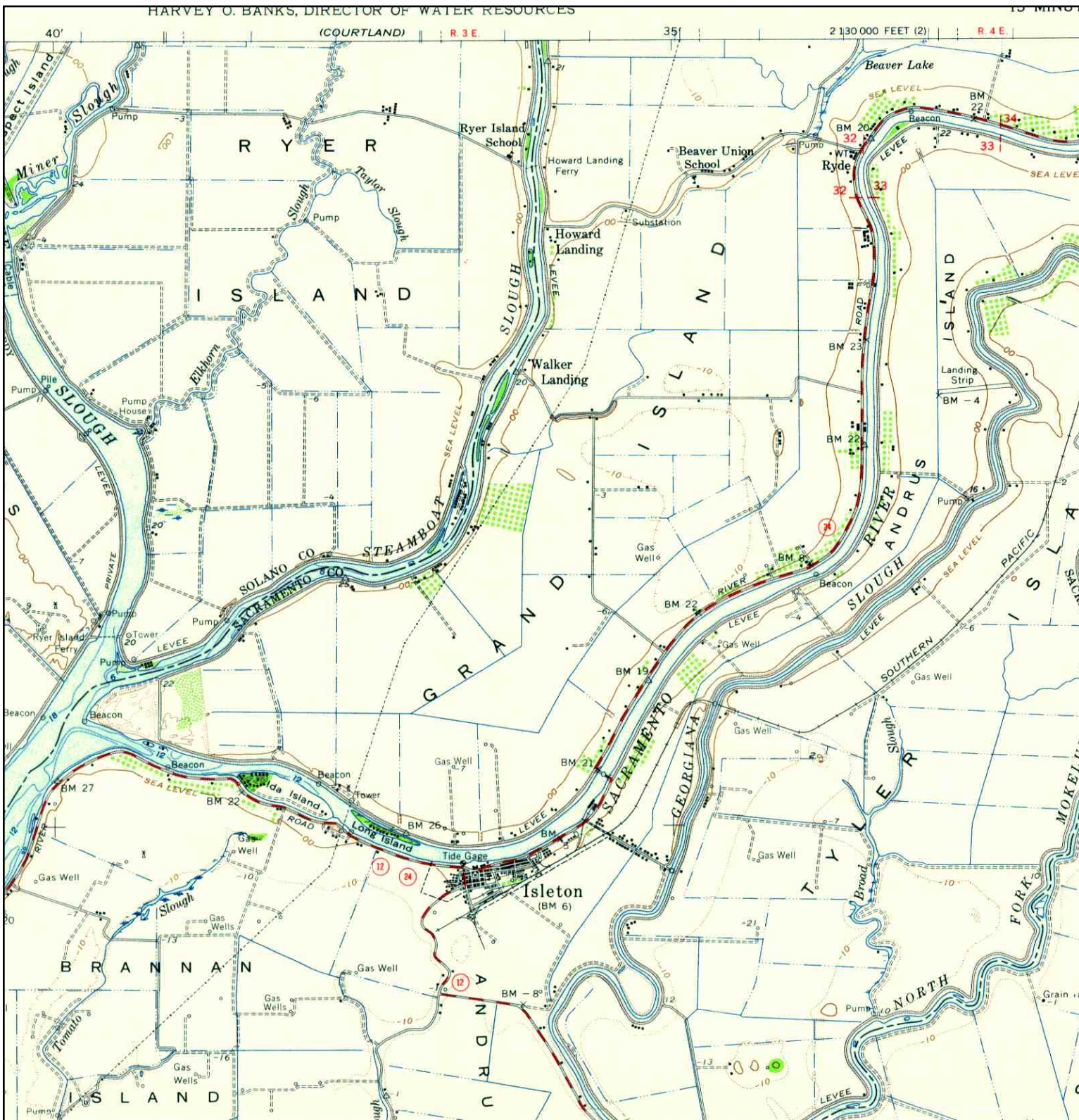
Historical Topographic Map



	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 19.4	CLIENT:	MECx
	NAME: ISLETON	ADDRESS:	RiverMile 19.4	CONTACT:	Robert Bell
	MAP YEAR: 1910		WALNUT GROVE, CA 95690	INQUIRY#:	1790951.4
	SERIES: 7.5	LAT/LONG:	38.2201 / 121.6037	RESEARCH DATE:	11/07/2006
	SCALE: 1:31680				

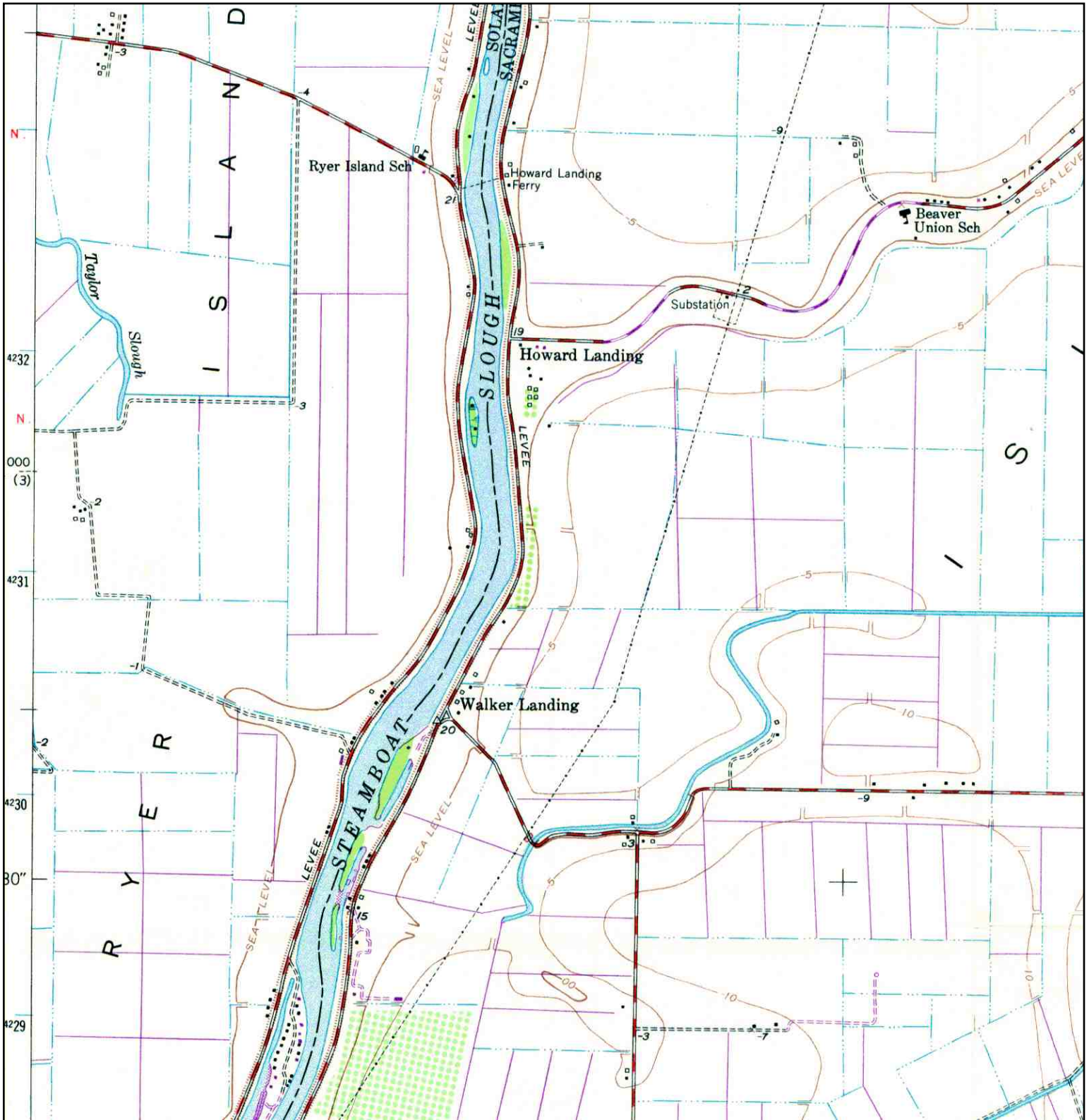
Historical Topographic Map

HARVEY O. BANKS, DIRECTOR OF WATER RESOURCES



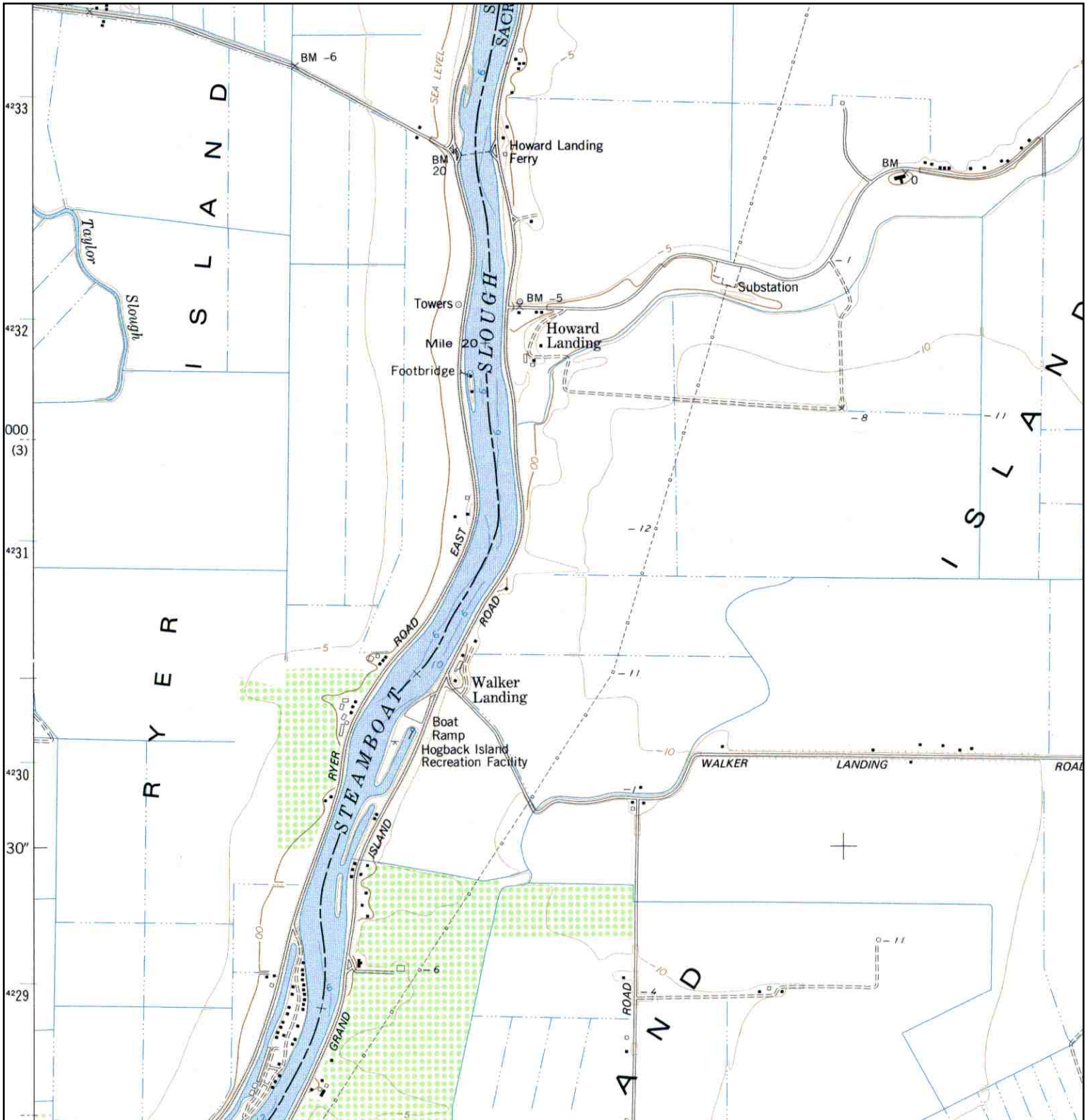
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 19.4	CLIENT:	MECx
	NAME: RIO VISTA	ADDRESS:	RiverMile 19.4	CONTACT:	Robert Bell
	MAP YEAR: 1952		WALNUT GROVE, CA 95690	INQUIRY#:	1790951.4
	SERIES: 15	LAT/LONG:	38.2201 / 121.6037	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500				


Historical Topographic Map



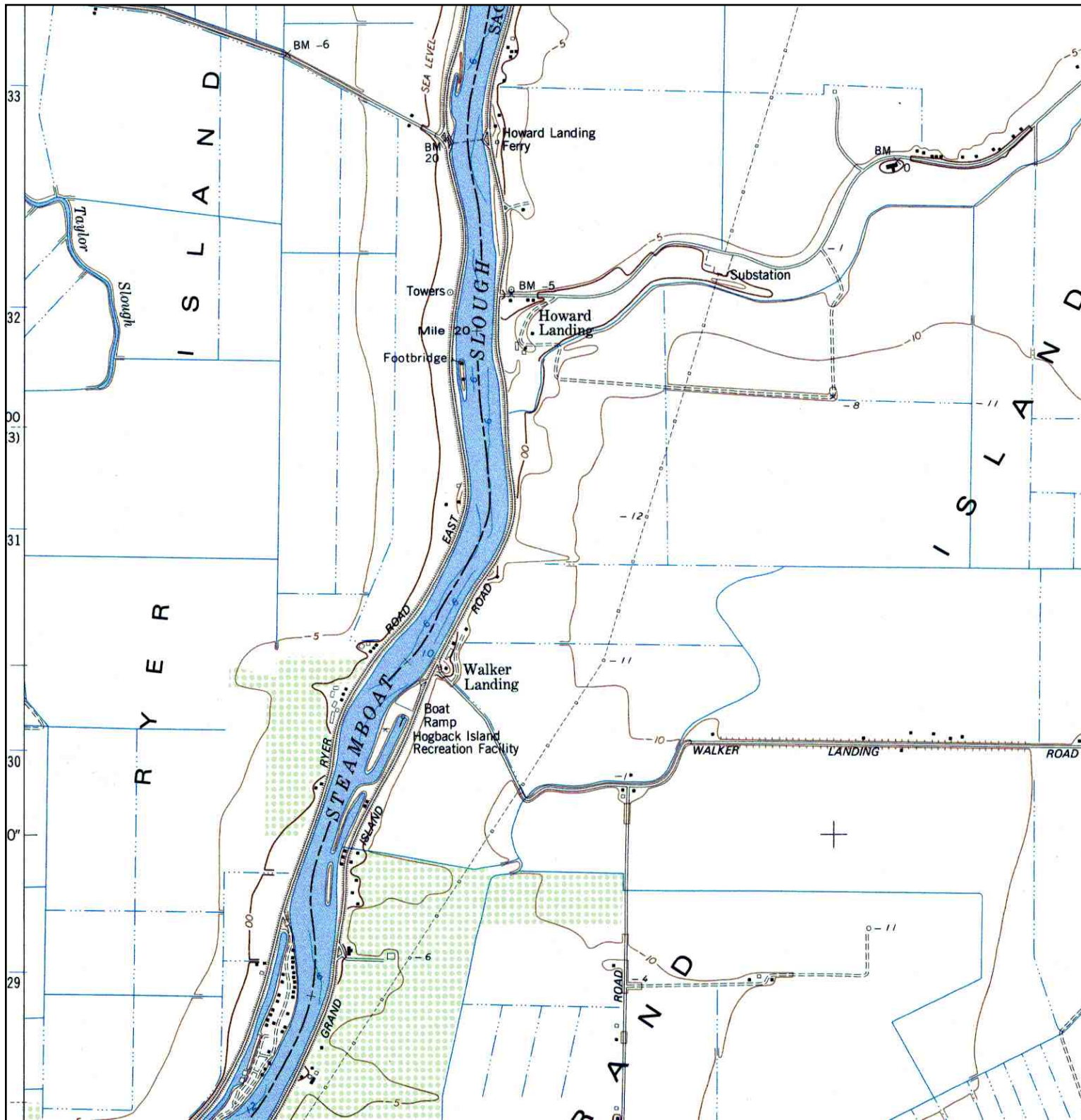
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 19.4	CLIENT:	MECx
	NAME: ISLETON	ADDRESS:	RiverMile 19.4	CONTACT:	Robert Bell
	MAP YEAR: 1968	LAT/LONG:	38.2201 / 121.6037	INQUIRY#:	1790951.4
	REVISED FROM: 1952			RESEARCH DATE:	11/07/2006
	SERIES: 7.5				
	SCALE: 1:24000				


Historical Topographic Map



	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: ISLETON	Sacramento River RiverMile 19.4	MECx
	MAP YEAR: 1978	ADDRESS: RiverMile 19.4	CONTACT: Robert Bell
	SERIES: 7.5	WALNUT GROVE, CA 95690	INQUIRY#: 1790951.4
	SCALE: 1:24000	LAT/LONG: 38.2201 / 121.6037	RESEARCH DATE: 11/07/2006

Historical Topographic Map



	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: ISLETON	Sacramento River RiverMile 19.4	MECx
	MAP YEAR: 1993	ADDRESS:	CONTACT: Robert Bell
	REVISED FROM: 1978	RiverMile 19.4	INQUIRY#: 1790951.4
	SERIES: 7.5	WALNUT GROVE, CA 95690	RESEARCH DATE: 11/07/2006
	SCALE: 1:24000	LAT/LONG: 38.2201 / 121.6037	

APPENDIX D

**EDR REPORT FOR STE22.7R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 22.7
RiverMile 22.7
COURTLAND, CA 95615**

Inquiry Number: 1790949.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 22.7
COURTLAND, CA 95615

COORDINATES

Latitude (North): 38.262400 - 38° 15' 44.6"
Longitude (West): 121.592400 - 121° 35' 32.6"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 623147.9
UTM Y (Meters): 4235660.0
Elevation: 2 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-C5 COURTLAND, CA
Most Recent Revision: 1993

South Map: 38121-B5 ISLETON, CA
Most Recent Revision: 1993

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

EXECUTIVE SUMMARY

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
Sacramento Co. CS	CS - Contaminated Sites
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data

EXECUTIVE SUMMARY

EMI..... Emissions Inventory Data
ENVIROSTOR..... EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV..... Indian Reservations
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

CA ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 08/02/2006 has revealed that there is 1 Sacramento Co. ML site within approximately 0.25 miles of the target property.

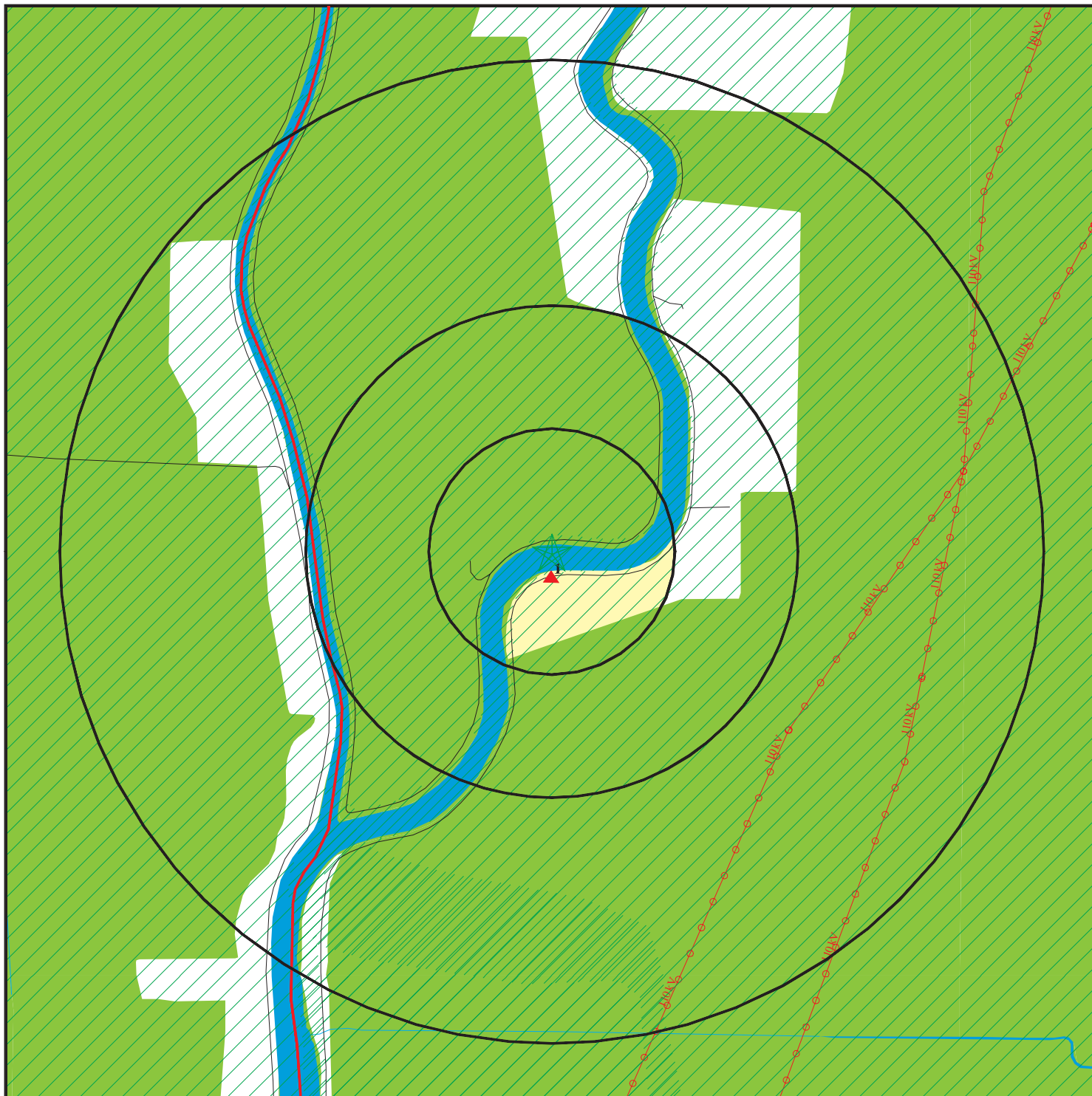
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
PAUL STEFONI	14575 GRAND ISLAND RD	0 - 1/8 S	1	6

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

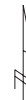
<u>Site Name</u>	<u>Database(s)</u>
BELLI & FAHN	SWEEPS UST
LARRY A. GALISKY	SWEEPS UST
RIVERFRONT SHELL	SWEEPS UST
LEARY RANCH, INC.	SWEEPS UST
SCHAUER RIVER FRONT PROP.	LUST, Cortese, Sacramento Co. ML
CAL TRANS - STEAMBOAT FERRY	LUST
CALTRANS	LUST
BELLI & FAHN	UST
CAL TRANS - STEAMBOAT FERRY	UST
RIVERFRONT SHELL	HIST UST
GREENE AND HEMLY, INC	Sacramento Co. ML
GREEN & MCKEOWN	Sacramento Co. ML
PAVCO RANCH	Sacramento Co. ML
W. B. CARR JR.	Sacramento Co. ML
MC CLAIN ORCHARD, INC	Sacramento Co. ML
COURTLAND DOCKS	Sacramento Co. ML
BUDS LOCK & SAW CO	Sacramento Co. ML
RAMOS OIL CO, INC	Sacramento Co. ML
J. M. BUCKLEY	Sacramento Co. ML
STEAMBOAT LANDING	Sacramento Co. ML
PACIFIC FRUIT FARMS	Sacramento Co. ML
G. SMITH	Sacramento Co. ML
LINCOLN CHAN FARMS	Sacramento Co. ML
GREEN & MCKEOWN FARMS	Sacramento Co. ML
HOMACKICH & MELLO	Sacramento Co. ML
COURTLAND TRUCK WORKS	Sacramento Co. ML
DELTA PROPANE	Sacramento Co. ML
PG&E GRAND ISLAND SUBSTATION	Sacramento Co. ML
L.E. WIEDMAN	Sacramento Co. ML
JULIUS NIELSEN	Sacramento Co. ML
B.C. STOCKING	Sacramento Co. ML
RIVERFRONT DEVELOPMENT	Sacramento Co. ML
ED GIOVONIONI	Sacramento Co. ML
HORI RANCH, INC	Sacramento Co. ML
CAMPI BROS	Sacramento Co. ML
TOKVYOSH FARM, INC	Sacramento Co. ML
CITIZENS UTILITIES	Sacramento Co. ML
DELTA BODY & FENDER	Sacramento Co. ML
CLIPPER SPA MANUFACTURING	Sacramento Co. ML
DECKHAND'S MARINA	Sacramento Co. ML
WILCOX BROTHERS INC	Sacramento Co. ML
BRUCE TOWNE	Sacramento Co. CS
SCHAUER RIVER FRONT PROPERTY	Sacramento Co. CS

OVERVIEW MAP - 1790949.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Areas of Concern
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

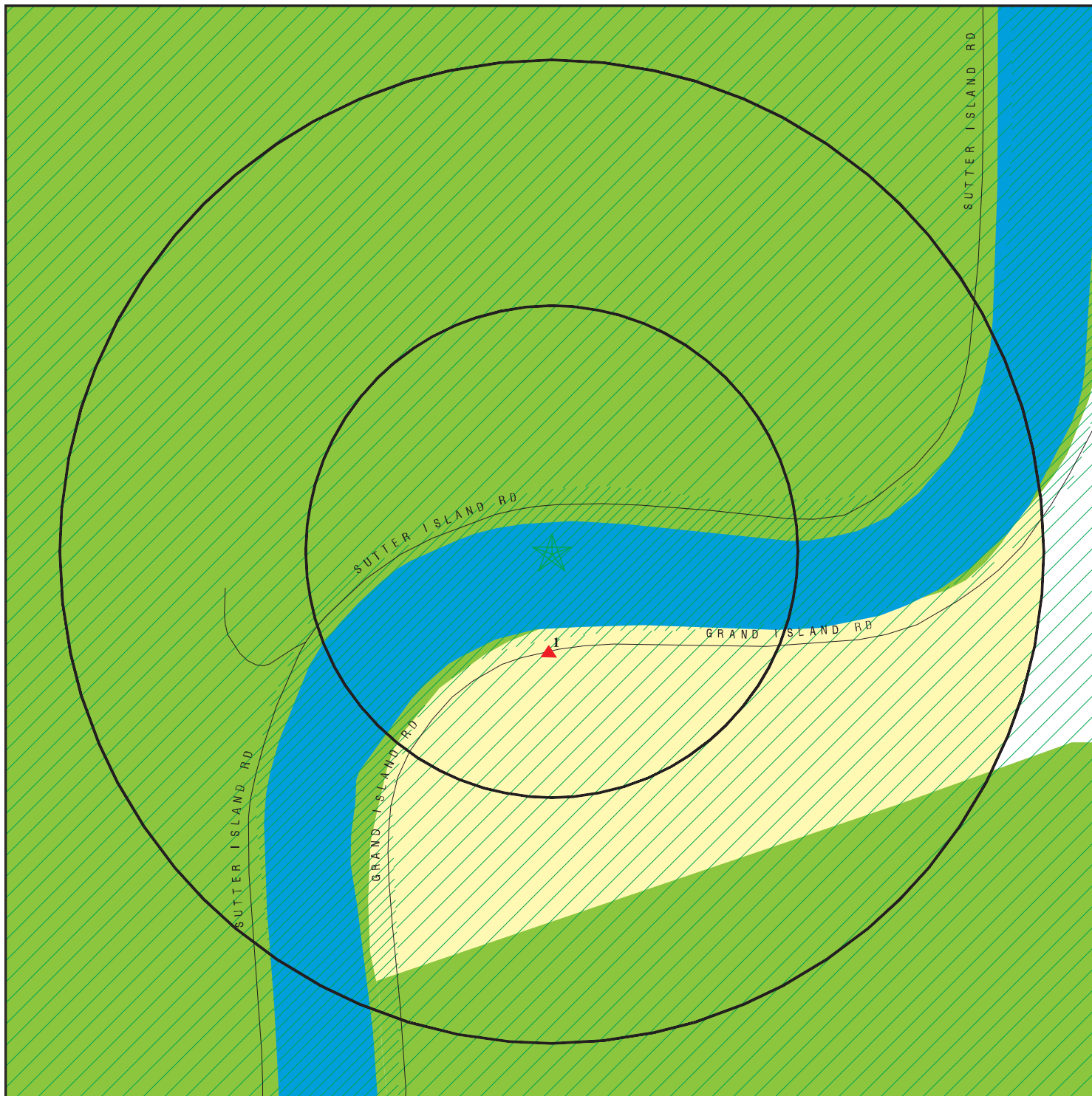


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 22.7
 ADDRESS: RiverMile 22.7
 COURTLAND CA 95615
 LAT/LONG: 38.2624 / 121.5924

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790949.2s
 DATE: November 07, 2006 10:45 am

DETAIL MAP - 1790949.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🚚 National Priority List Sites
- 🗑 Landfill Sites
- 🏠 Dept. Defense Sites



- 🏠 Indian Reservations BIA
- 🛞 Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🔴 Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 22.7
 ADDRESS: RiverMile 22.7
 COURTLAND CA 95615
 LAT/LONG: 38.2624 / 121.5924

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790949.2s
 DATE: November 07, 2006 10:45 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
Sacramento Co. CS		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP	TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP	TP	NR	NR	NR	NR	NR	0
Sacramento Co. ML		0.250	1	0	NR	NR	NR	1
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP	TP	NR	NR	NR	NR	NR	0
EMI	TP	TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

1 **PAUL STEFONI**
South **14575 GRAND ISLAND RD**
< 1/8 **RYDE, CA 95680**
267 ft.

Sacramento Co. ML

S105269555
N/A

Relative:
Higher

Sacramento Co. ML:	
FD:	W
Billing Codes BP:	Farm-No Fee
Billing Codes UST:	Farm-No Fee
WG Bill Code:	Farm-No Fee
Target Property Bill Cod:	50
Food Bill Code:	53
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	0
Facility Id:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
Risk Mgmt Protection Program:	Not reported

Actual:
3 ft.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COURT	S104654938	GREENE AND HEMLY, INC	11275 HWY 160	95615	Sacramento Co. ML
COURT	S105269811	GREEN & MCKEOWN	11377 HWY 160	95615	Sacramento Co. ML
COURT	S105269812	PAVCO RANCH	11481 HWY 160	95615	Sacramento Co. ML
COURT	S105269813	W. B. CARR JR.	11509 HWY 160	95615	Sacramento Co. ML
COURT	S105269814	MC CLAINÉ ORCHARD, INC	11551 HWY 160	95615	Sacramento Co. ML
COURT	S105269815	COURTLAND DOCKS	11740 HWY 160	95615	Sacramento Co. ML
COURT	S105269817	BUDS LOCK & SAW CO	11761 HWY 160	95615	Sacramento Co. ML
COURT	S105269818	RAMOS OIL CO, INC	11767 HWY 160	95615	Sacramento Co. ML
COURT	S105269819	J. M. BUCKLEY	12022 HWY 160	95615	Sacramento Co. ML
COURT	S105269821	STEAMBOAT LANDING	12414 HWY 160	95615	Sacramento Co. ML
COURT	S105269823	PACIFIC FRUIT FARMS	12960 HWY 160	95615	Sacramento Co. ML
COURT	S105269839	G. SMITH	HWY 160 (1/2 MI SO	95615	Sacramento Co. ML
COURT	S106780577	LINCOLN CHAN FARMS	HWY 160	95615	Sacramento Co. ML
COURT	S106780578	GREEN & MCKEOWN FARMS	HWY 160	95615	Sacramento Co. ML
COURT	S106780579	HOMACKICH & MELLO	HWY 160	95615	Sacramento Co. ML
COURTLAND	S104654939	COURTLAND TRUCK WORKS	12019 HWY 160	95615	Sacramento Co. ML
COURTLAND	S104857538	BRUCE TOWNE	HIGHWAY 160	95615	Sacramento Co. CS
COURTLAND	S104971032	DELTA PROPANE	12017 HWY 160	95615	Sacramento Co. ML
RYDE	S104654942	PG&E GRAND ISLAND SUBSTATION	HWY 220 W OF RYDE	95690	Sacramento Co. ML
RYER ISLAND	U003113127	BELLI & FAHN	HIGHWAY 132	95690	SWEEPS UST
RYER ISLAND	U003973539	BELLI & FAHN	HIGHWAY 132	95690	UST
RYER ISLAND	U003700411	CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1	95690	LUST
RYER ISLAND	U003975762	CAL TRANS - STEAMBOAT FERRY	ST RTE 220 PM 3.1	95690	UST
WALNU	S105269822	L.E. WIEDMAN	12680 HWY 160	95690	Sacramento Co. ML
WALNU	S105269824	JULIUS NIELSEN	13600 HWY 160	95690	Sacramento Co. ML
WALNU	S105269825	B.C. STOCKING	14064 HWY 160	95690	Sacramento Co. ML
WALNU	S105269826	RIVERFRONT DEVELOPMENT	14160 HWY 160	95690	Sacramento Co. ML
WALNU	S105269827	ED GIOVONIONI	14192 HWY 160	95690	Sacramento Co. ML
WALNU	S105269828	HORI RANCH, INC	14242 HWY 160	95690	Sacramento Co. ML
WALNU	S105269829	CAMPI BROS	14246 HWY 160	95690	Sacramento Co. ML
WALNU	S105269830	TOKVYOSH FARM, INC	14494 HWY 160	95690	Sacramento Co. ML
WALNU	S105269846	CITIZENS UTILITIES	HWY 160/GRAND AV	95690	Sacramento Co. ML
WALNU	S105269851	DELTA BODY & FENDER	HWY 160/WALNUT	95690	Sacramento Co. ML
WALNUT GROVE	S105027297	SCHAUER RIVER FRONT PROP.	14162 HWY 160	95690	LUST, Cortese, Sacramento Co. ML
WALNUT GROVE	S102436565	SCHAUER RIVER FRONT PROPERTY	14162 HIGHWAY 160	95690	Sacramento Co. CS
WALNUT GROVE	S103707536	CLIPPER SPA MANUFACTURING	14099 HIGHWAY 160	95690	Sacramento Co. ML
WALNUT GROVE	S104654940	DECKHAND'S MARINA	14090 HWY 160	95690	Sacramento Co. ML
WALNUT GROVE	S104795876	WILCOX BROTHERS INC	14180 HIGHWAY 160	95690	Sacramento Co. ML
WALNUT GROVE	S106928523	LARRY A. GALISKY	13890 HIGHWAY 160	95690	SWEEPS UST
WALNUT GROVE	S106931414	RIVERFRONT SHELL	14160 HWY 160 WALNUT GRV	95690	SWEEPS UST
WALNUT GROVE	U001614138	RIVERFRONT SHELL	14160 HIGHWAY 160 WALNUT GROVE	95690	HIST UST
WALNUT GROVE	S107472869	CALTRANS	HWY 20 / RYERS ISLAND RD	95690	LUST
WALNUT GROVE	S106928580	LEARY RANCH, INC.	13376 ST HWY 160	95690	SWEEPS UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 08/15/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 09/14/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 22.7
RIVERMILE 22.7
COURTLAND, CA 95615

TARGET PROPERTY COORDINATES

Latitude (North): 38.26240 - 38° 15' 44.6"
Longitude (West): 121.5924 - 121° 35' 32.6"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 623147.9
UTM Y (Meters): 4235660.0
Elevation: 2 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38121-C5 COURTLAND, CA
Most Recent Revision: 1993

South Map: 38121-B5 ISLETON, CA
Most Recent Revision: 1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

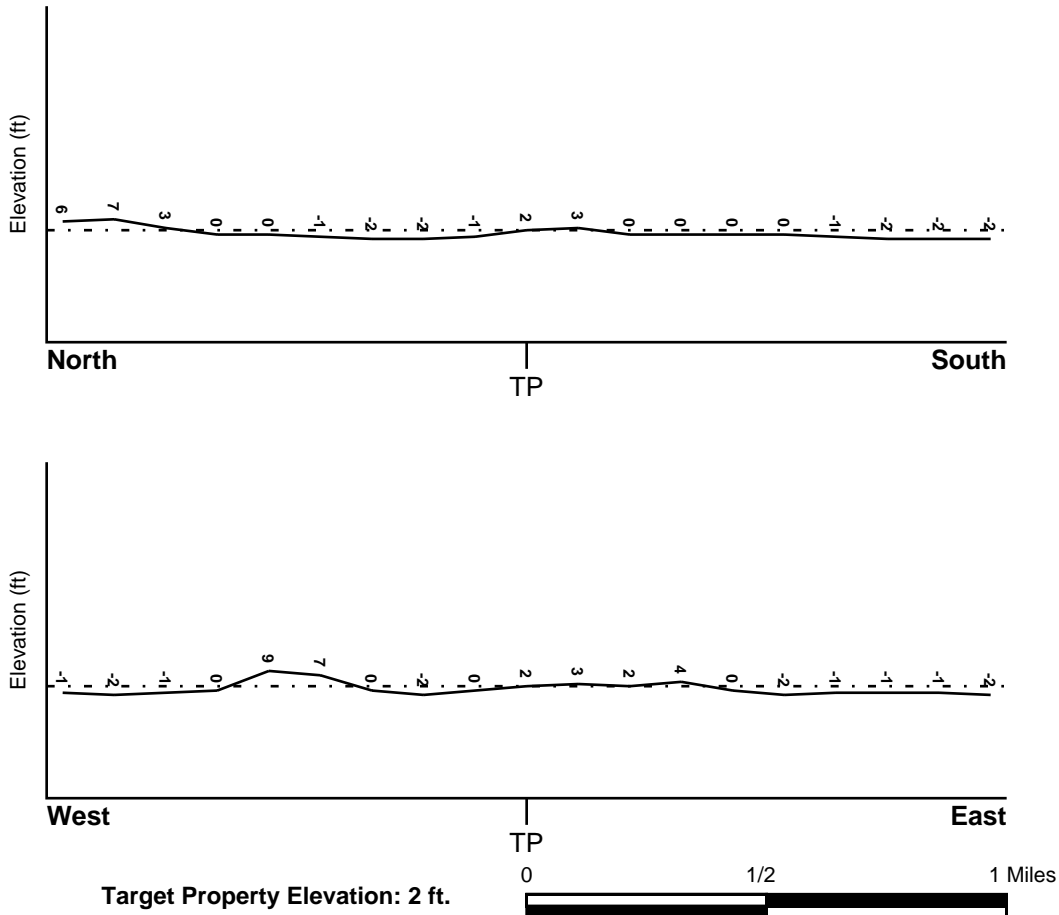
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General West

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SACRAMENTO, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
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Flood Plain Panel at Target Property: 0602620415C

Additional Panels in search area: 0602620555C
0606310340D
0606310530D

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> COURTLAND	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

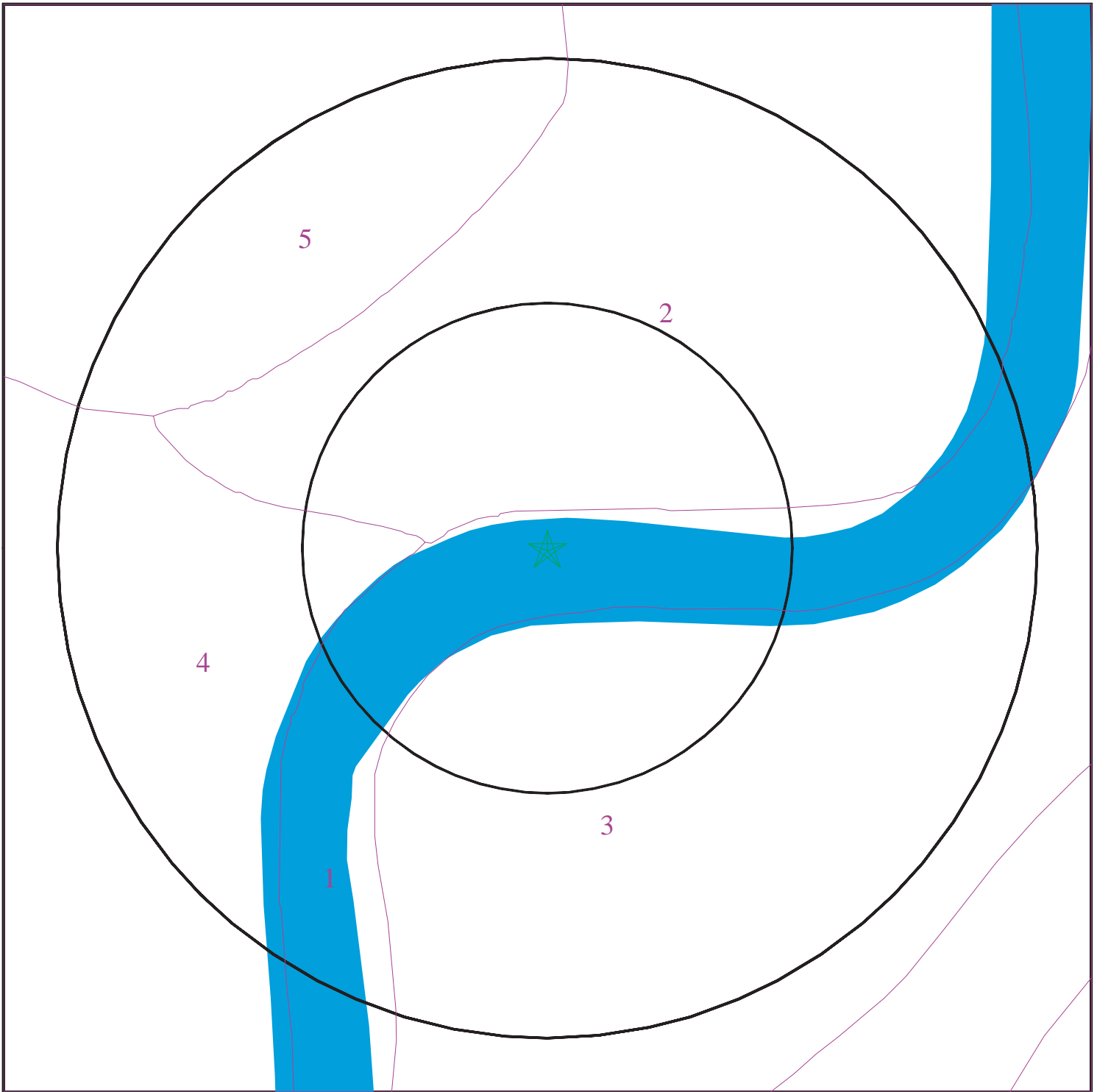
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790949.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water

0 1/16 1/8 1/4 Miles



SITE NAME: Sacramento River RiverMile 22.7
ADDRESS: RiverMile 22.7
COURTLAND CA 95615
LAT/LONG: 38.2624 / 121.5924

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790949.2s
DATE: November 07, 2006 10:45 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER
Soil Surface Texture: Not reported
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: SAILBOAT
Soil Surface Texture: silt loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

Soil Map ID: 3

Soil Component Name: LAUGENOUR

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
2	16 inches	39 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40
3	39 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

Soil Map ID: 4

Soil Component Name: COSUMNES

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	8 inches	21 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
3	21 inches	43 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60
4	43 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60

Soil Map ID: 5

Soil Component Name: EGBERT

Soil Surface Texture: clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
2	18 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
3	46 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.10

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
_____	_____	_____

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3226971	1/2 - 1 Mile SW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

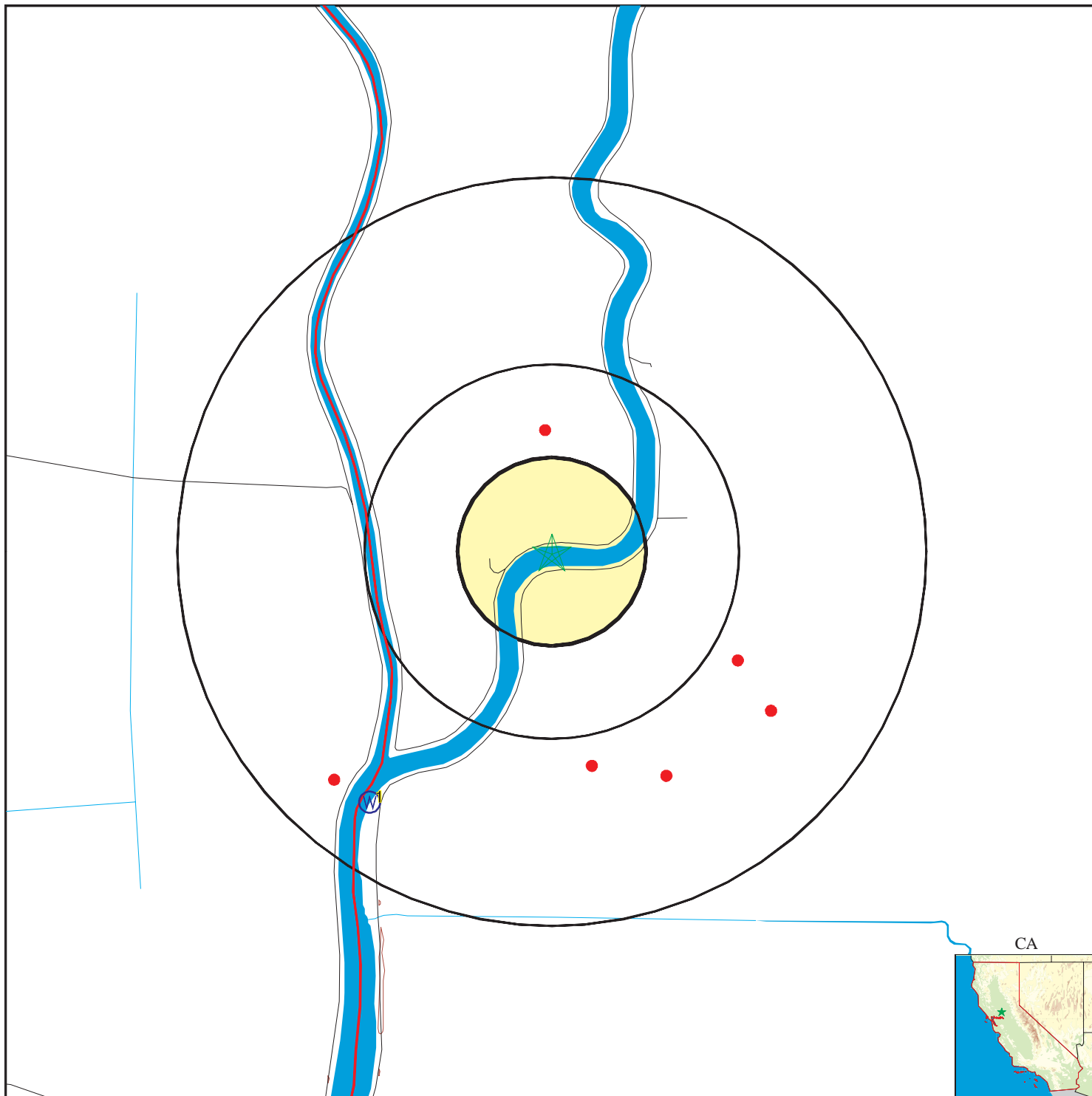
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/4 - 1/2 Mile North	1/2 - 1 Mile ESE
1/2 - 1 Mile SE	1/2 - 1 Mile South
1/2 - 1 Mile SSE	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 1790949.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



<p>SITE NAME: Sacramento River RiverMile 22.7 ADDRESS: RiverMile 22.7 COURTLAND CA 95615 LAT/LONG: 38.2624 / 121.5924</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY #: 1790949.2s DATE: November 07, 2006 10:45 am</p>
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1		
SW	FED USGS	USGS3226971
1/2 - 1 Mile		
Higher		

Agency cd:	USGS	Site no:	381510121360101
Site name:	005N003E25D001M		
Latitude:	381510		
Longitude:	1213601	Dec lat:	38.25269195
Dec lon:	-121.60134341	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	Not Reported	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	Not Reported
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	19750101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	260	Hole depth:	284
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

North
1/4 - 1/2 Mile

OIL_GAS CA10180885

Apinumber:	06720023	Operator:	TexCal Energy (GP) LLC
Lease:	M.S. Salman	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.267191		
Longitude:	-121.591661		
Td:	5308	Sec:	24
Twn:	05N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

ESE
1/2 - 1 Mile

OIL_GAS CA10180821

Apinumber:	06720086	Operator:	Nahama & Weagant, Inc.
Lease:	Dixon	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.25827		
Longitude:	-121.5822		
Td:	5700	Sec:	30
Twn:	05N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SE
1/2 - 1 Mile

OIL_GAS CA10180805

Apinumber:	06720180	Operator:	TXO Production Corp.
Lease:	Dh&P	Well no:	30-1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	024
Source:	hud		
Latitude:	38.25632		
Longitude:	-121.58057		
Td:	6000	Sec:	30
Twn:	05N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

South
1/2 - 1 Mile

OIL_GAS CA10180789

Apinumber:	06720342	Operator:	Rosetta Resources Operating LP
Lease:	Wilhite	Well no:	1-25
Field:	Grand Island Gas	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	GPS		
Latitude:	38.254186534		
Longitude:	-121.589368168		
Td:	9055	Sec:	25
Twn:	5N	Rge:	3E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	OPR	District:	6

SSE
1/2 - 1 Mile

OIL_GAS CA10180785

Apinumber:	06700397	Operator:	Amerada Hess Corp.
Lease:	Jones	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.2538		
Longitude:	-121.58571		
Td:	6203	Sec:	25
Twn:	05N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SW
1/2 - 1 Mile

OIL_GAS CA10180781

Apinumber:	09521222	Operator:	Royale Energy Inc.
Lease:	Kingfisher	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	017
Source:	GPS		
Latitude:	38.253648131		
Longitude:	-121.60202403		
Td:	-1	Sec:	25
Twn:	05N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	location Compl	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SACRAMENTO County: 3

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SACRAMENTO COUNTY, CA

Number of sites tested: 52

<u>Area</u>	<u>Average Activity</u>	<u>% <4 pCi/L</u>	<u>% 4-20 pCi/L</u>	<u>% >20 pCi/L</u>
Living Area - 1st Floor	0.665 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.200 pCi/L	100%	0%	0%
Basement	8.350 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 22.7
RiverMile 22.7
COURTLAND, CA 95615**

Inquiry Number: 1790949.5

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 22.7

COURTLAND, CA 95615

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1968	Aerial Photograph. Scale: 1"=333'	Flight Year: 1968	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790949.5

YEAR: 1952

| = 555'





INQUIRY #: 1790949.5

YEAR: 1968

| = 333'



EDR Environmental Data Resources Inc.



INQUIRY #: 1790949.5

YEAR: 1971

| = 333'



EDI Environmental Data Resources Inc.



INQUIRY #: 1790949.5

YEAR: 1981

| = 333'





INQUIRY #: 1790949.5

YEAR: 1993

— = 666'





INQUIRY #: 1790949.5

YEAR: 1998

| = 666'





EDR[®] Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**Sacramento River RiverMile 22.7
RiverMile 22.7
COURTLAND, CA 95615**

Inquiry Number: 1790949.4

November 07, 2006

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

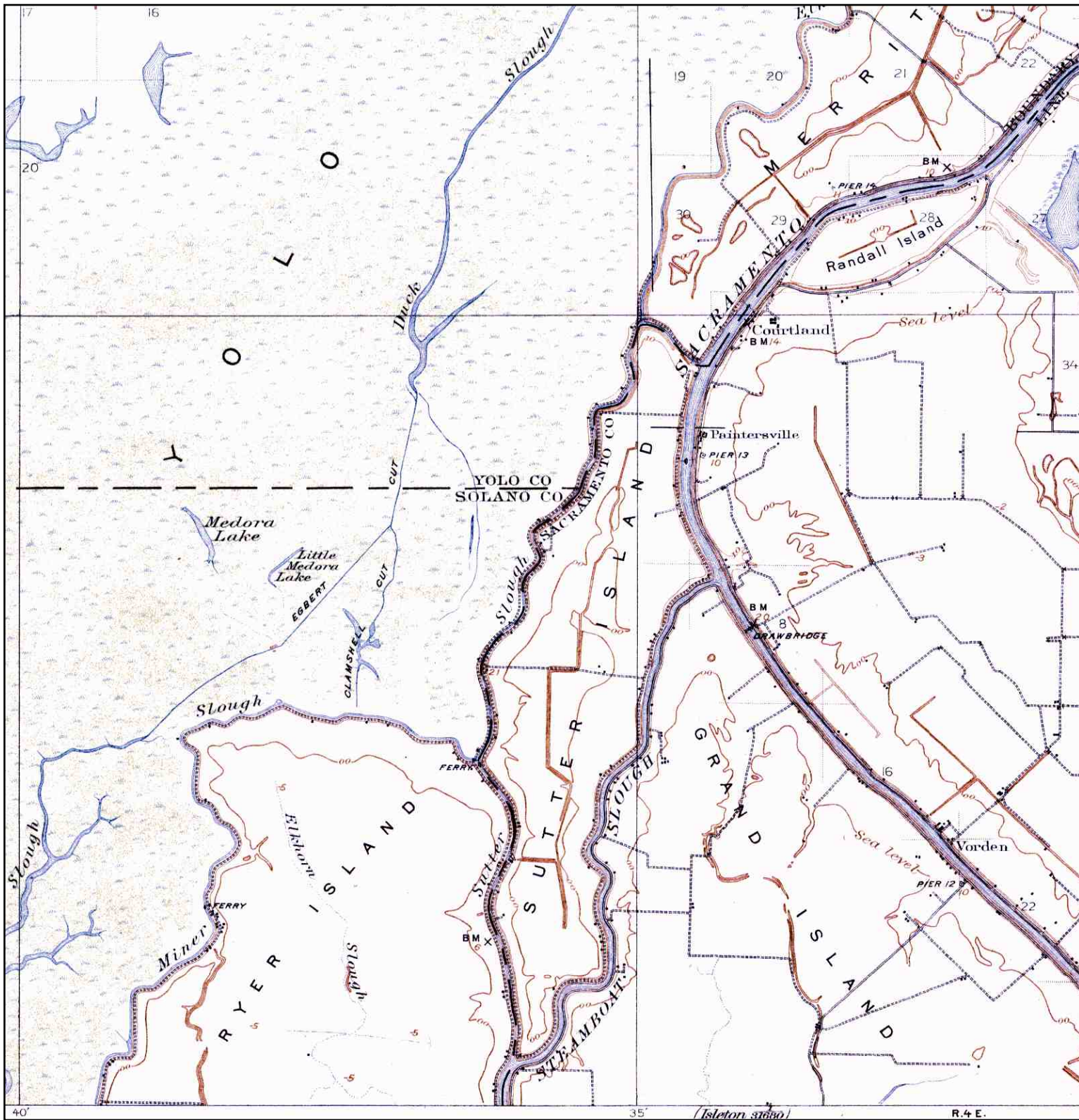
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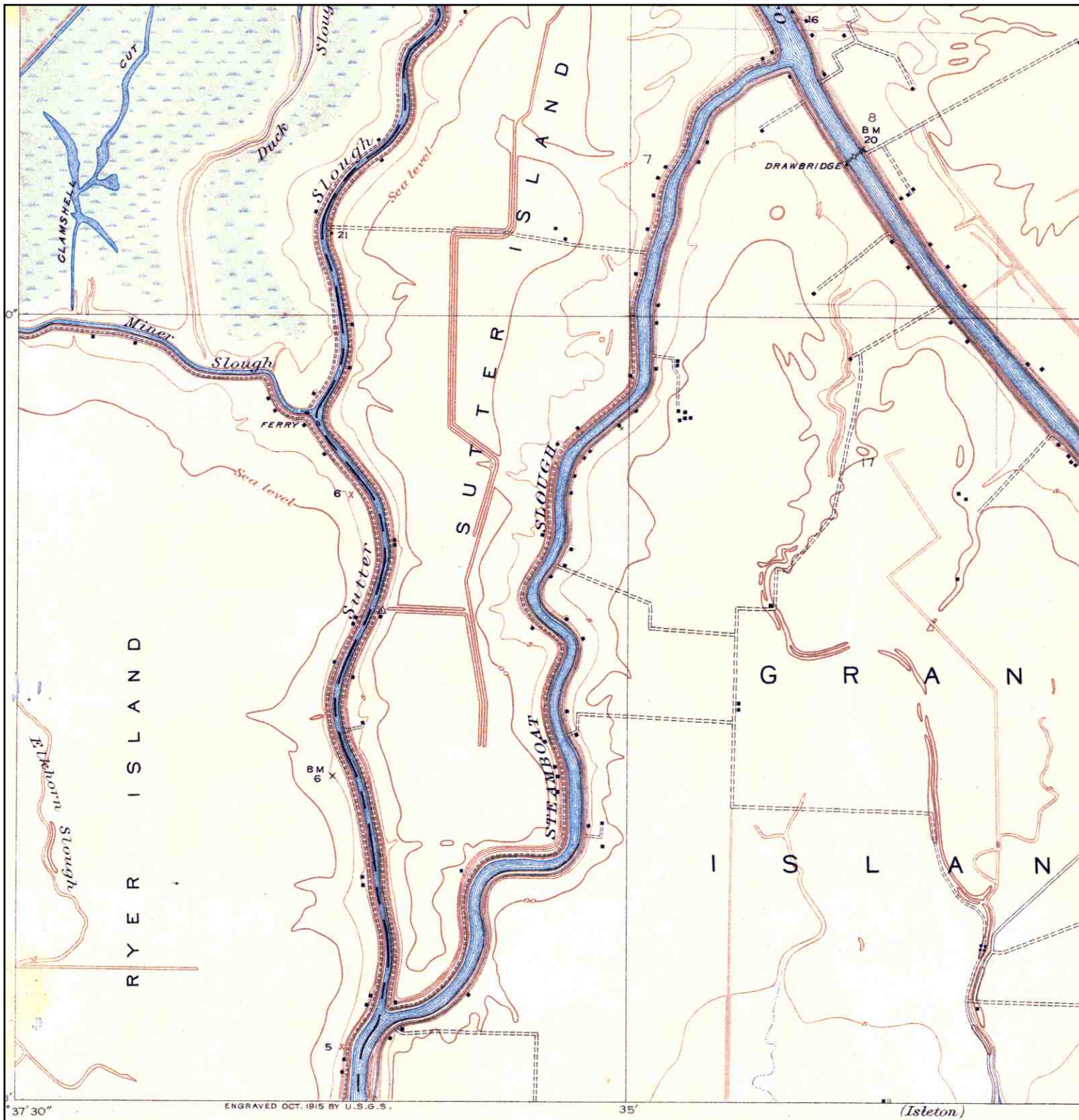
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Historical Topographic Map



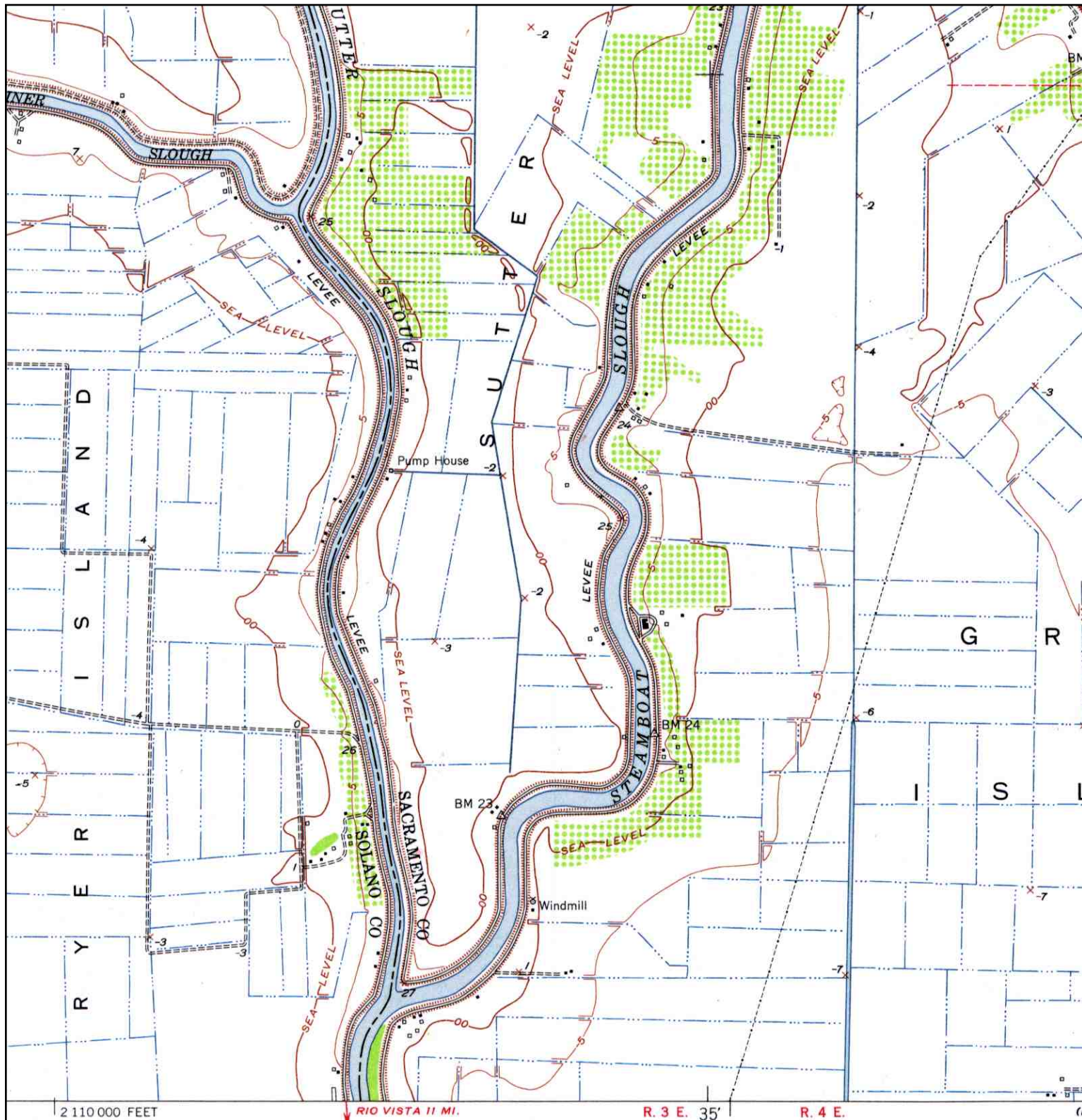
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 22.7	CLIENT:	MECx	
	NAME: COURTLAND	ADDRESS:	RiverMile 22.7	CONTACT:	Robert Bell	
	MAP YEAR: 1908	COURTLAND, CA 95615	INQUIRY#:	1790949.4	RESEARCH DATE:	11/07/2006
	SERIES: 15	LAT/LONG: 38.2624 / 121.5924				
	SCALE: 1:62500					


Historical Topographic Map



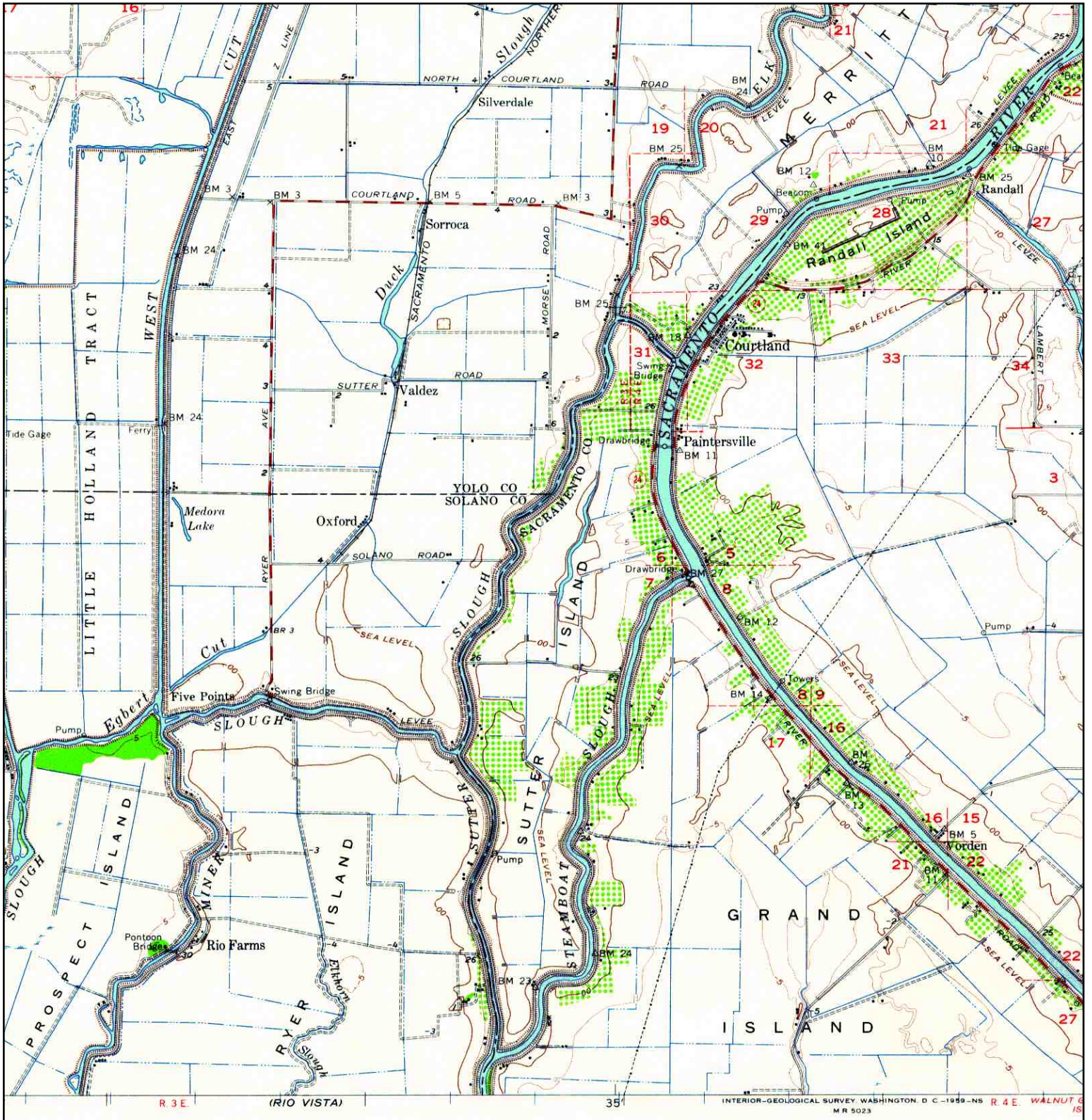
	TARGET QUAD NAME: VORDEN MAP YEAR: 1916	SITE NAME: Sacramento River RiverMile 22.7 ADDRESS: RiverMile 22.7 COURTLAND, CA 95615	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790949.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:31680	LAT/LONG: 38.2624 / 121.5924	

Historical Topographic Map



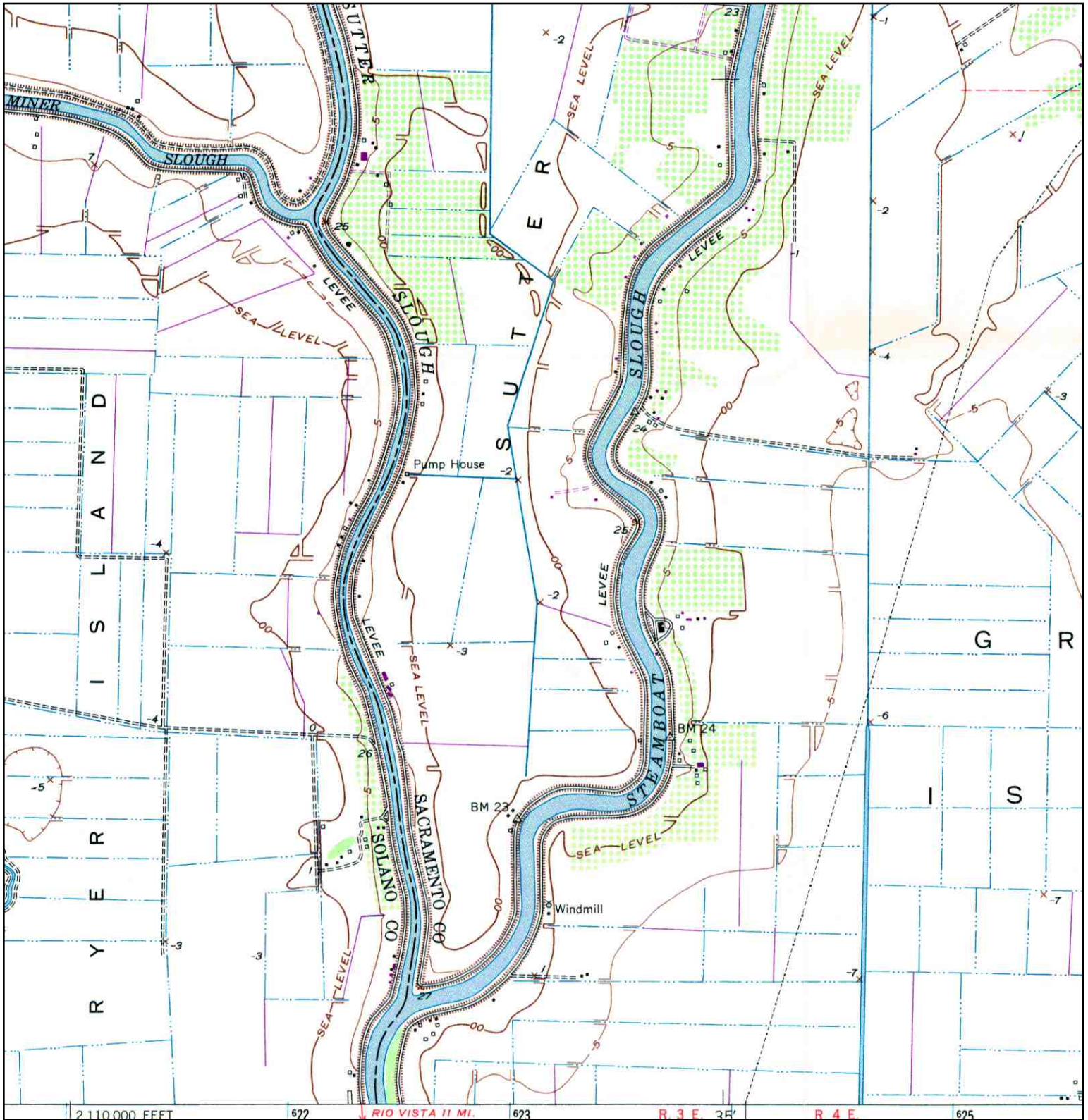
	TARGET QUAD NAME: COURTLAND MAP YEAR: 1952	SITE NAME: Sacramento River RiverMile 22.7 ADDRESS: RiverMile 22.7 COURTLAND, CA 95615	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790949.4
	SERIES: 7.5 SCALE: 1:24000	LAT/LONG: 38.2624 / 121.5924	RESEARCH DATE: 11/07/2006


Historical Topographic Map



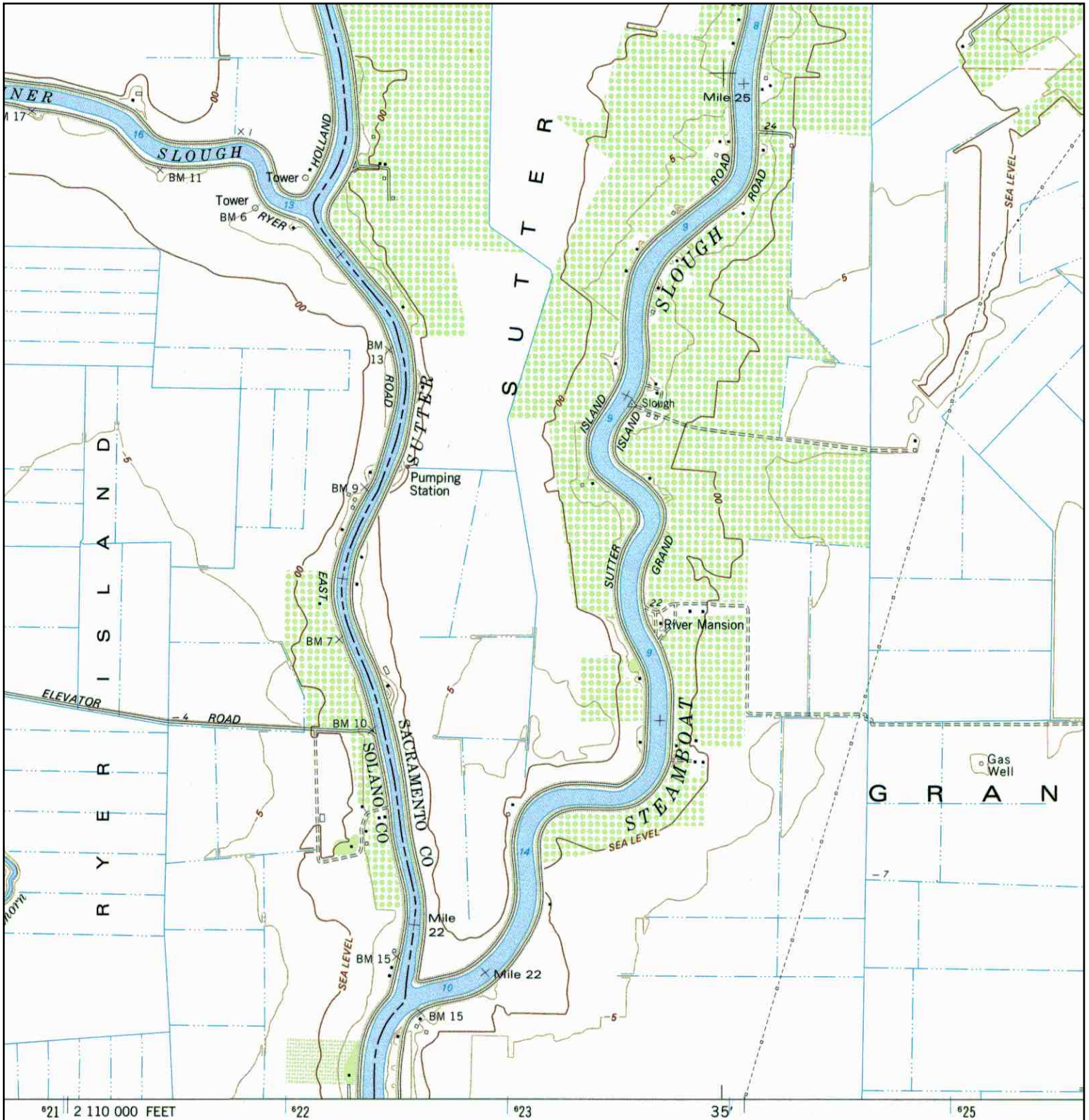
<p>N</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx	
	NAME: COURTLAND	22.7	CONTACT:	Robert Bell		
	MAP YEAR: 1952	ADDRESS:	RiverMile 22.7	INQUIRY#:	1790949.4	
	SERIES: 15	COURTLAND, CA 95615	LAT/LONG:	38.2624 / 121.5924	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500					

Historical Topographic Map



	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 22.7	CLIENT:	MECx
	NAME: COURTLAND	ADDRESS:	RiverMile 22.7	CONTACT:	Robert Bell
	MAP YEAR: 1968	LAT/LONG:	38.2624 / 121.5924	INQUIRY#:	1790949.4
	PHOTOREVISED FROM: 1952			RESEARCH DATE:	11/07/2006
	SERIES: 7.5				
	SCALE: 1:24000				

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 22.7	CLIENT:	MECx	
	NAME:	COURTLAND	ADDRESS:	RiverMile 22.7	CONTACT:	Robert Bell
	MAP YEAR:	1993	ADDRESS:	COURTLAND, CA 95615	INQUIRY#:	1790949.4
	REVISED FROM:	1978	LAT/LONG:	38.2624 / 121.5924	RESEARCH DATE:	11/07/2006
	SERIES:	7.5				
	SCALE:	1:24000				

APPENDIX E

**EDR REPORT FOR SAC33.0R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 33.0
RiverMile 33.0
COURTLAND, CA 95615**

Inquiry Number: 1790991.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Thank you for your business.
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with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 33.0
COURTLAND, CA 95615

COORDINATES

Latitude (North): 38.313500 - 38° 18' 48.6"
Longitude (West): 121.578600 - 121° 34' 43.0"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 624268.1
UTM Y (Meters): 4241349.0
Elevation: 6 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-C5 COURTLAND, CA
Most Recent Revision: 1993

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRA-TSDF..... Resource Conservation and Recovery Act Information
RCRA-LQG..... Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
Sacramento Co. CS	CS - Contaminated Sites
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
Sacramento Co. ML	ML - Regulatory Compliance Master List
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

EXECUTIVE SUMMARY

TRIBAL RECORDS

INDIAN RESERV...... Indian Reservations

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

EDR Historical Auto StationsEDR Proprietary Historic Gas Stations

EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

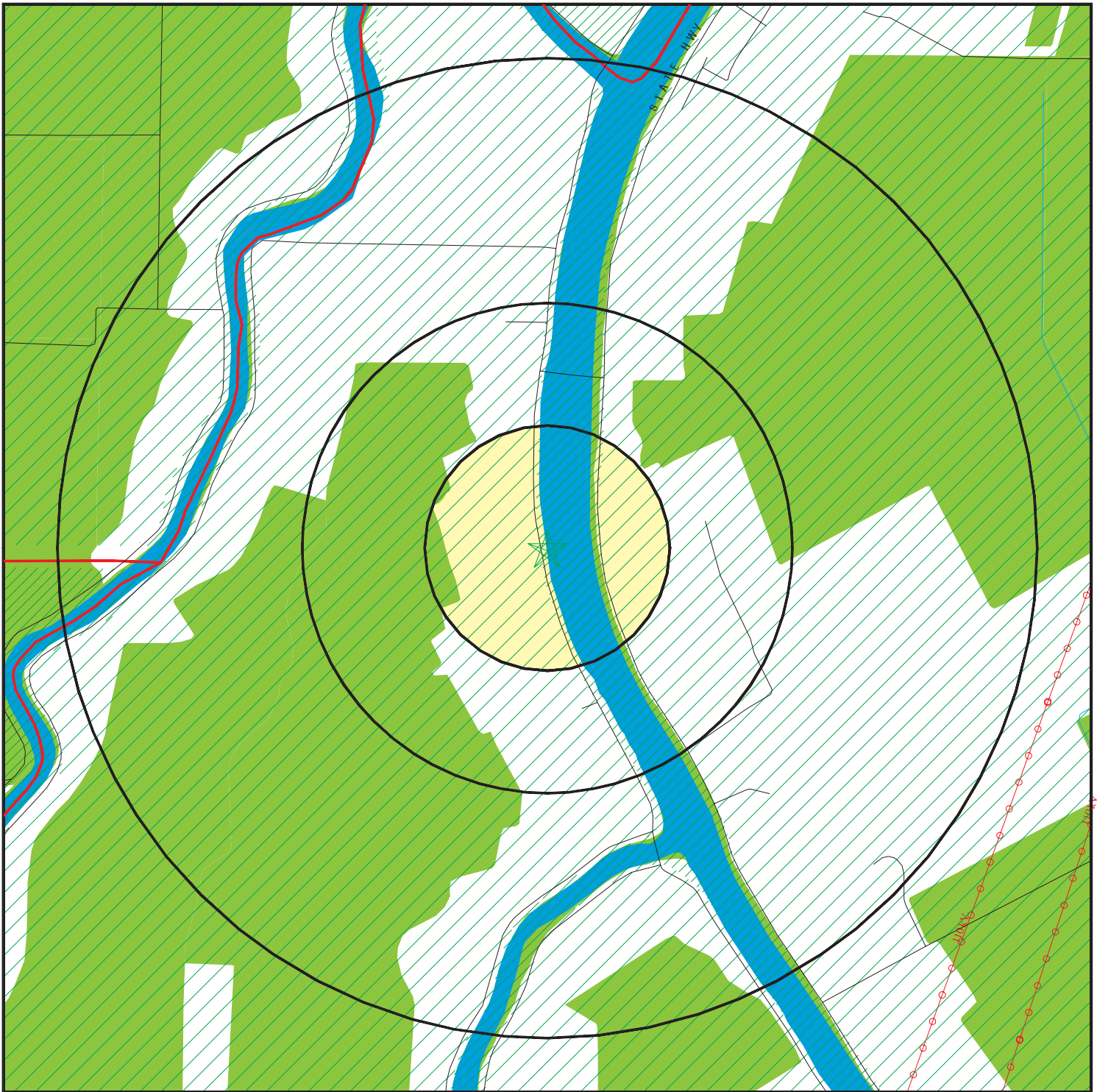
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
GEORGE SMITH RAUCE	SWEEPS UST
GREEN & MCKEOWN FARMS, INC.	SWEEPS UST
MCCLAIN HOME RANCH	SWEEPS UST
BUCKLEY STATION	SWEEPS UST
J.H. THOMAS COMPANY	SWEEPS UST
REUBEN GENTNER - FARM	SWEEPS UST
TWITCHELL ISLAND ROAD .5 MI WEST OF RIO VISTA	CHMIRS, SLIC
BRUCE TOWNE	LUST, Cortese
GEORGE SMITH RAUCE	HIST UST
MCCLAIN HOME RANCH	HIST UST
J.H. THOMAS COMPANY	HIST UST
RIVER DELTA USD/NORTH MAIN SHOP	HAZNET
RIVER DELTA HIGH/ELEM (ALTERNATIVE)	FINDS
F. J. MASSONI	Sacramento Co. ML
W.B CARR, JR	Sacramento Co. ML
GREENE AND HEMLY, INC	Sacramento Co. ML
GREEN & MCKEOWN	Sacramento Co. ML
PAVCO RANCH	Sacramento Co. ML
W. B. CARR JR.	Sacramento Co. ML
MC CLAINE ORCHARD, INC	Sacramento Co. ML
COURTLAND DOCKS	Sacramento Co. ML
BUDS LOCK & SAW CO	Sacramento Co. ML
RAMOS OIL CO, INC	Sacramento Co. ML
J. M. BUCKLEY	Sacramento Co. ML
STEAMBOAT LANDING	Sacramento Co. ML
PACIFIC FRUIT FARMS	Sacramento Co. ML
G. SMITH	Sacramento Co. ML
LINCOLN CHAN FARMS	Sacramento Co. ML
GREEN & MCKEOWN FARMS	Sacramento Co. ML
HOMACKICH & MELLO	Sacramento Co. ML
COURTLAND TRUCK WORKS	Sacramento Co. ML
DELTA PROPANE	Sacramento Co. ML
BRUCE TOWNE	Sacramento Co. CS

OVERVIEW MAP - 1790991.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- ▨ National Priority List Sites
- ▨ Landfill Sites
- ▨ Dept. Defense Sites

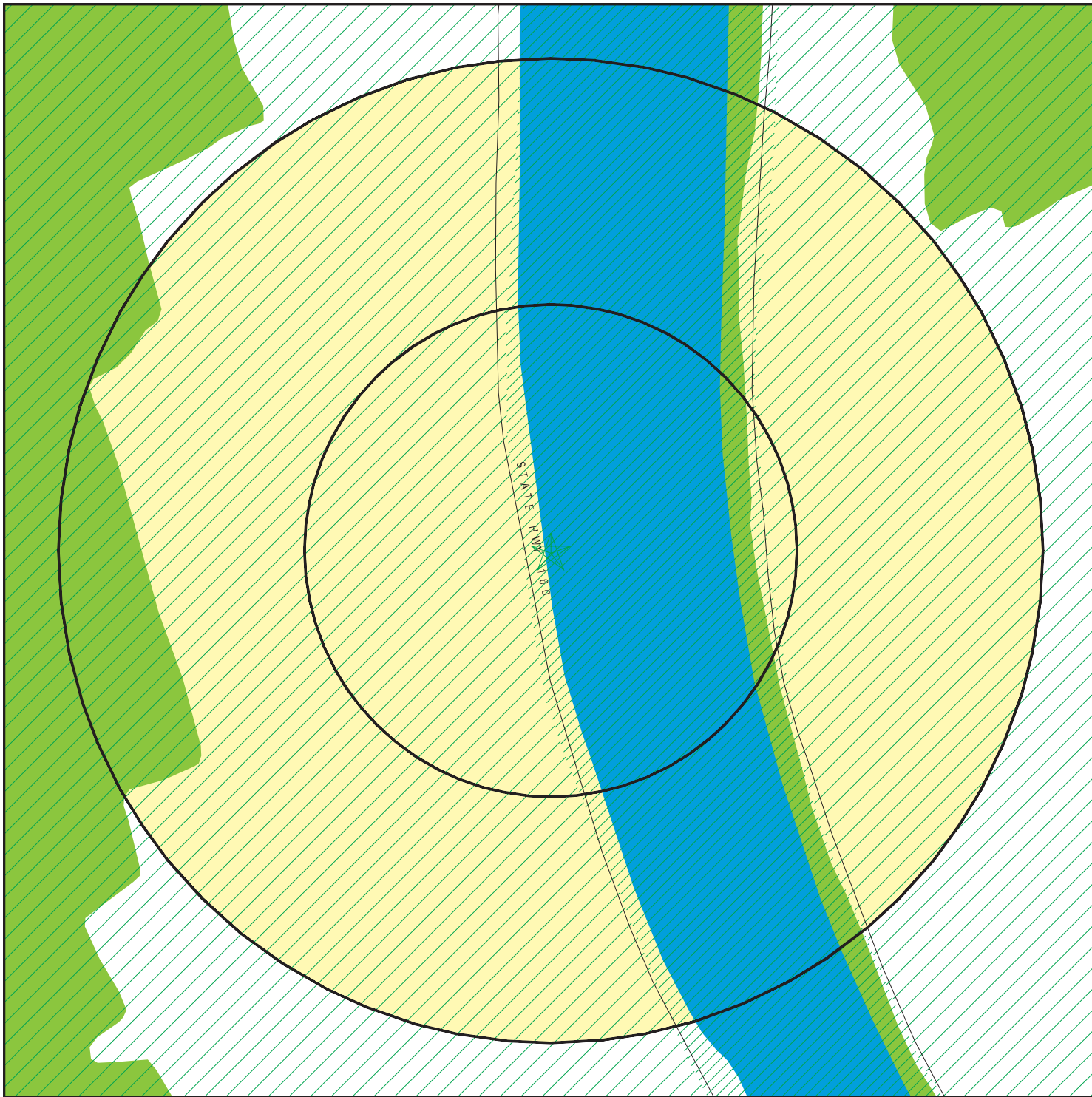
- ▨ Indian Reservations BIA
- ▨ Areas of Concern
- ▨ County Boundary
- ▨ Power transmission lines
- ▨ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- ▨ National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 33.0
 ADDRESS: RiverMile 33.0
 COURTLAND CA 95615
 LAT/LONG: 38.3135 / 121.5786

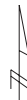
CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790991.2s
 DATE: November 07, 2006 11:03 am

DETAIL MAP - 1790991.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🚧 National Priority List Sites
- 🗑 Landfill Sites
- 🏠 Dept. Defense Sites

- 🏠 Indian Reservations BIA
- 🛞 Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🔴 Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 33.0
 ADDRESS: RiverMile 33.0
 COURTLAND CA 95615
 LAT/LONG: 38.3135 / 121.5786

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790991.2s
 DATE: November 07, 2006 11:03 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
Sacramento Co. CS		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
Sacramento Co. ML		0.250	0	0	NR	NR	NR	0
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO SITES FOUND

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COURT	S105271527	F. J. MASSONI	RT 1 BOX 18	95615	Sacramento Co. ML
COURT	S106665401	W.B CARR, JR	RT 1 BOX 20	95615	Sacramento Co. ML
COURT	S104654938	GREENE AND HEMLY, INC	11275 HWY 160	95615	Sacramento Co. ML
COURT	S105269811	GREEN & MCKEOWN	11377 HWY 160	95615	Sacramento Co. ML
COURT	S105269812	PAVCO RANCH	11481 HWY 160	95615	Sacramento Co. ML
COURT	S105269813	W. B. CARR JR.	11509 HWY 160	95615	Sacramento Co. ML
COURT	S105269814	MC CLAINE ORCHARD, INC	11551 HWY 160	95615	Sacramento Co. ML
COURT	S105269815	COURTLAND DOCKS	11740 HWY 160	95615	Sacramento Co. ML
COURT	S105269817	BUDS LOCK & SAW CO	11761 HWY 160	95615	Sacramento Co. ML
COURT	S105269818	RAMOS OIL CO, INC	11767 HWY 160	95615	Sacramento Co. ML
COURT	S105269819	J. M. BUCKLEY	12022 HWY 160	95615	Sacramento Co. ML
COURT	S105269821	STEAMBOAT LANDING	12414 HWY 160	95615	Sacramento Co. ML
COURT	S105269823	PACIFIC FRUIT FARMS	12960 HWY 160	95615	Sacramento Co. ML
COURT	S105269839	G. SMITH	HWY 160 (1/2 MI SO	95615	Sacramento Co. ML
COURT	S106780577	LINCOLN CHAN FARMS	HWY 160	95615	Sacramento Co. ML
COURT	S106780578	GREEN & MCKEOWN FARMS	HWY 160	95615	Sacramento Co. ML
COURT	S106780579	HOMACKICH & MELLO	HWY 160	95615	Sacramento Co. ML
COURTLAND	S104654939	COURTLAND TRUCK WORKS	12019 HWY 160	95615	Sacramento Co. ML
COURTLAND	S104857538	BRUCE TOWNE	HIGHWAY 160	95615	Sacramento Co. CS
COURTLAND	S104971032	DELTA PROPANE	12017 HWY 160	95615	Sacramento Co. ML
COURTLAND	S105023440	BRUCE TOWNE	13910 HWY 160	95615	LUST, Cortese
COURTLAND	S106926674	GEORGE SMITH RAUCE	HWY 160 1-2 NITE S O	95615	SWEEPS UST
COURTLAND	S106926870	GREEN & MCKEOWN FARMS, INC.	HIGHWAY 160	95615	SWEEPS UST
COURTLAND	S106929250	MCCLAIN HOME RANCH	HIGHWAY 160 / WILSON RD	95615	SWEEPS UST
COURTLAND	U001612533	GEORGE SMITH RAUCE	HWY. 160 1/2 NITE S. OF COURTL	95615	HIST UST
COURTLAND	U001612543	MCCLAIN HOME RANCH	HWY 160 / WILSON RD.	95615	HIST UST
COURTLAND	S106923619	BUCKLEY STATION	12022 HIGHWAY 160-RIVER RD	95615	SWEEPS UST
COURTLAND	S102823313	RIVER DELTA USD/NORTH MAIN SHOP	CORNER OF SCHOOL ST /	95615	HAZNET
COURTLAND	1008301282	RIVER DELTA HIGH/ELEM (ALTERNATIVE)	445 MONTEZUMA	95615	FINDS
COURTLAND	S106927625	J.H. THOMAS COMPANY	S RIVER ROAD MERRITT	95615	SWEEPS UST
COURTLAND	S106931314	REUBEN GENTNER - FARM	S RIVER ROAD P O BOX 94	95615	SWEEPS UST
COURTLAND	U001612539	J.H. THOMAS COMPANY	SOUTH RIVER ROAD MERRITT	95615	HIST UST
SACRAMENTO COUNTY	S105641112		TWITCHELL ISLAND ROAD .5 MI WEST OF RIO VISTA		CHMIRS, SLIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 30

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 33.0
RIVERMILE 33.0
COURTLAND, CA 95615

TARGET PROPERTY COORDINATES

Latitude (North):	38.31350 - 38° 18' 48.6"
Longitude (West):	121.5786 - 121° 34' 43.0"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	624268.1
UTM Y (Meters):	4241349.0
Elevation:	6 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38121-C5 COURTLAND, CA
Most Recent Revision:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

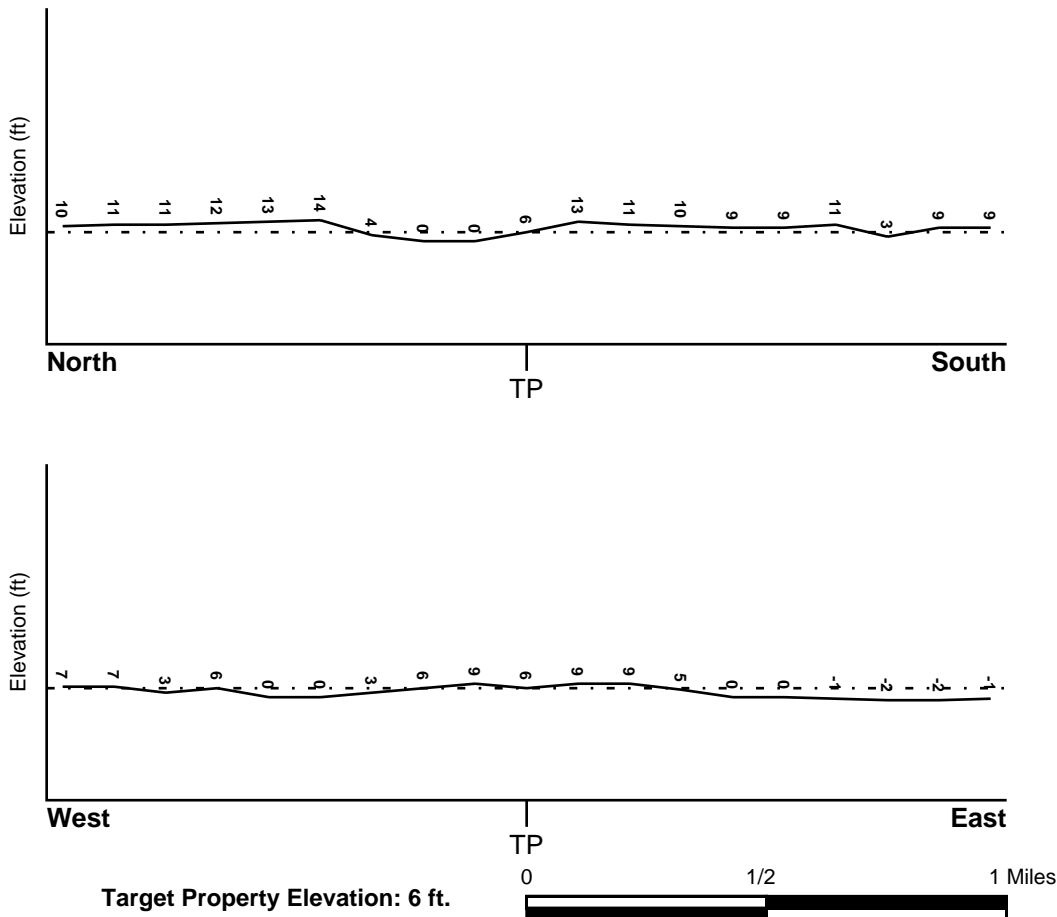
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General North

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SACRAMENTO, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
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Flood Plain Panel at Target Property: 0602620405C

Additional Panels in search area:
0604230705D
0602620410C
0602620420C
0602620415C
0606310340D

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> COURTLAND	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

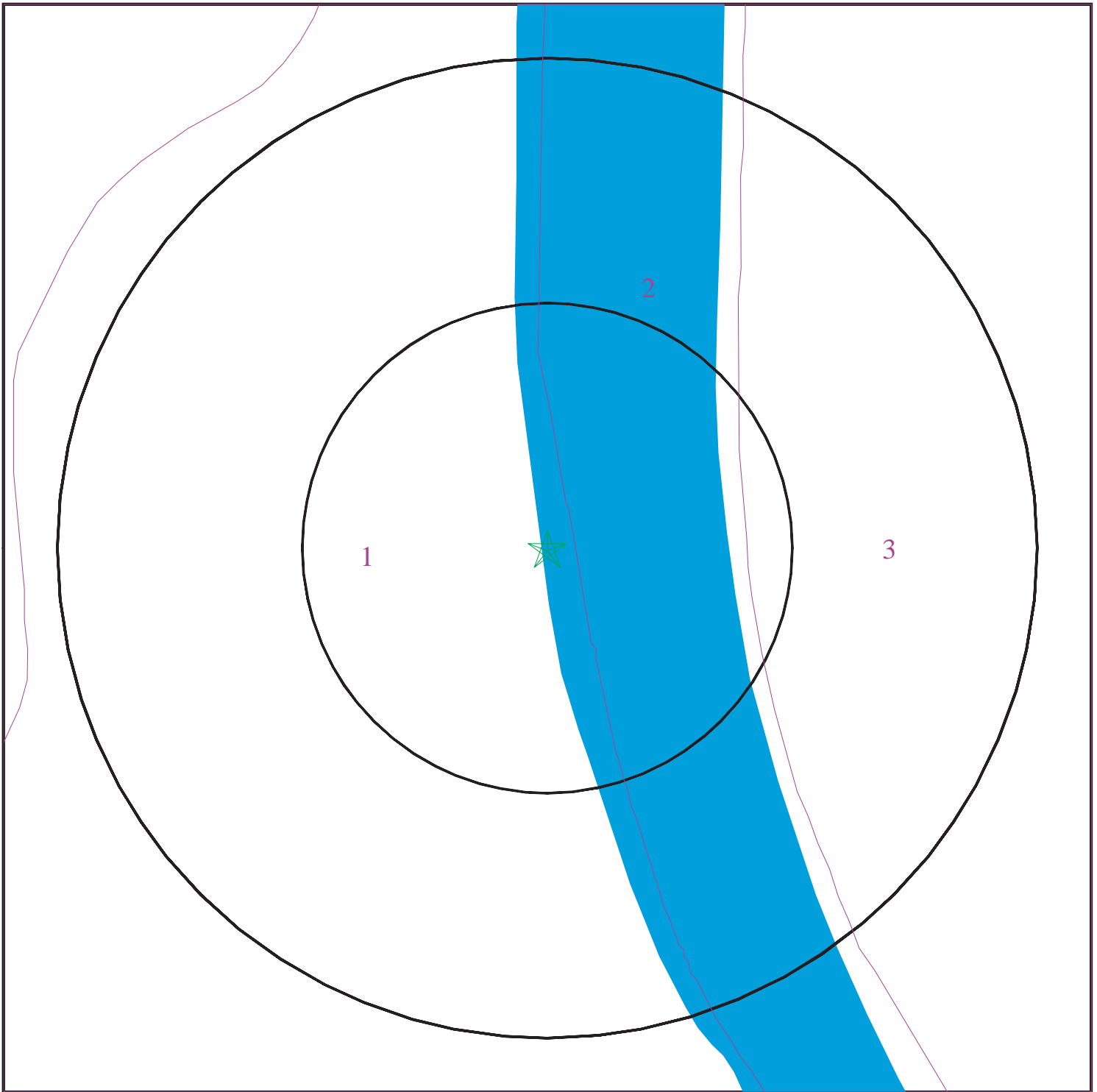
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790991.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sacramento River RiverMile 33.0
ADDRESS: RiverMile 33.0
COURTLAND CA 95615
LAT/LONG: 38.3135 / 121.5786

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790991.2s
DATE: November 07, 2006 11:03 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SAILBOAT

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

Soil Map ID: 2

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: VALPAC

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	10 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.60
2	10 inches	61 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3226900	1/4 - 1/2 Mile NNE
A2	USGS3226905	1/2 - 1 Mile NNE
A3	USGS3226901	1/2 - 1 Mile NNE
4	USGS3226884	1/2 - 1 Mile SSE
5	USGS3226902	1/2 - 1 Mile NW
6	USGS3226883	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

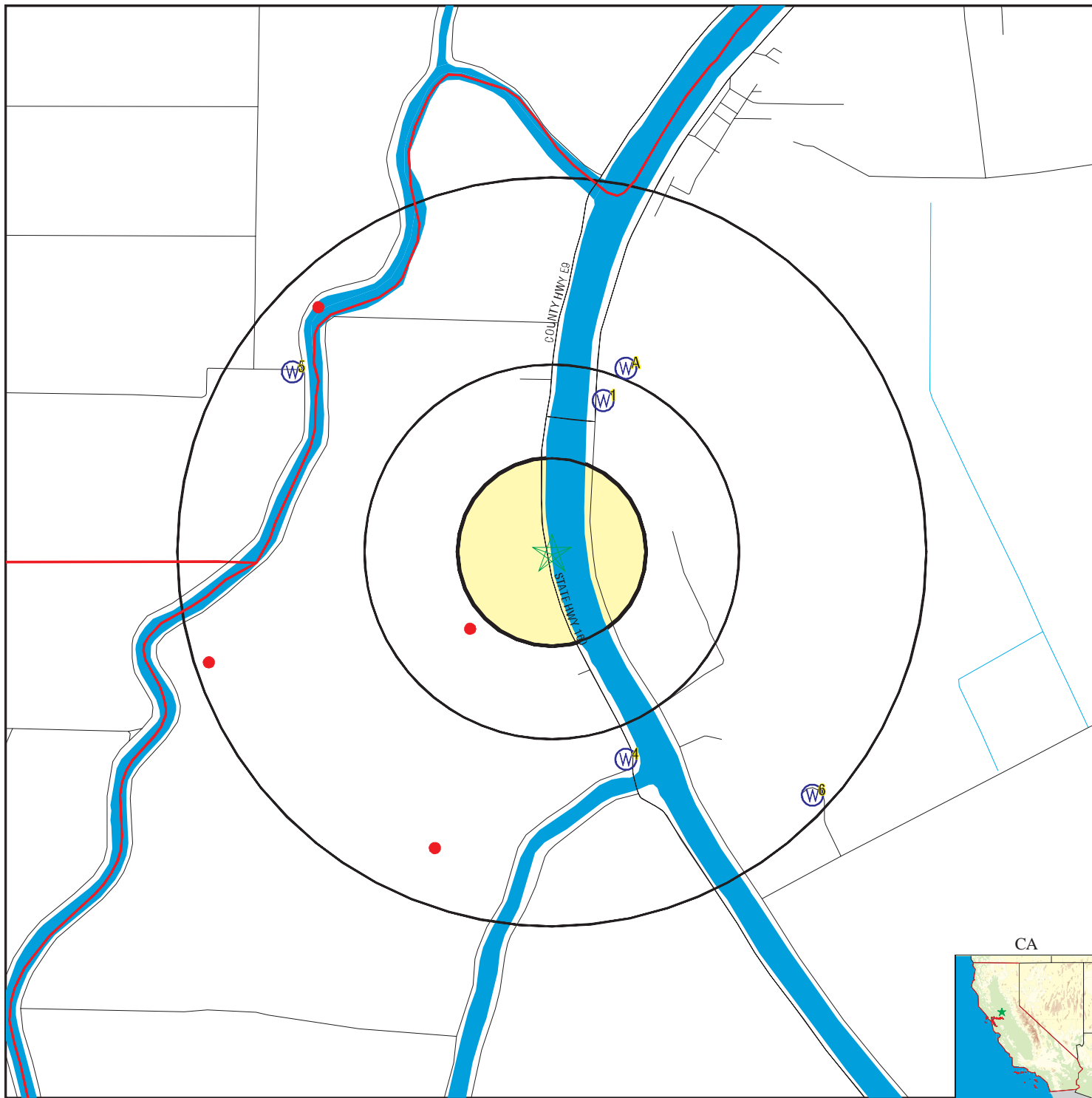
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/2 - 1 Mile NW	1/4 - 1/2 Mile SW
1/2 - 1 Mile WSW	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 1790991.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



No contour lines were detected within this map area.

SITE NAME: Sacramento River RiverMile 33.0
 ADDRESS: RiverMile 33.0
 COURTLAND CA 95615
 LAT/LONG: 38.3135 / 121.5786

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790991.2s
 DATE: November 07, 2006 11:03 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
NNE
1/4 - 1/2 Mile
Higher

FED USGS USGS3226900

Agency cd:	USGS	Site no:	381910121343001
Site name:	005N004E05D001M		
Latitude:	381910		
Longitude:	1213430	Dec lat:	38.3193568
Dec lon:	-121.57606598	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19651120
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	140	Hole depth:	160
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1965-11-20	Ground water data end date:	1965-11-20
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1965-11-20	11.00	

A2
NNE
1/2 - 1 Mile
Higher

FED USGS USGS3226905

Agency cd:	USGS	Site no:	381915121342801
Site name:	006N004E31R001M		
Latitude:	381915		
Longitude:	1213428	Dec lat:	38.32074565
Dec lon:	-121.57551043	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	7.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19650325
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	138	Hole depth:	155
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1965-03-25	Ground water data end date:	1965-03-25
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1965-03-25	9.00	

**A3
NNE
1/2 - 1 Mile
Higher**

FED USGS USGS3226901

Agency cd:	USGS	Site no:	381914121342401
Site name:	006N004E32N001M		
Latitude:	381914		
Longitude:	1213424	Dec lat:	38.32046788
Dec lon:	-121.57439929	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	6.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19730625
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	130	Hole depth:	152
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1973-06-25	Ground water data end date:	1973-06-25
Ground water data count:	1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1973-06-25	7.00	

4
SSE
1/2 - 1 Mile
Higher

FED USGS USGS3226884

Agency cd:	USGS	Site no:	381820121342601
Site name:	005N004E08D001M		
Latitude:	381820		
Longitude:	1213426	Dec lat:	38.30546832
Dec lon:	-121.57495469	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	8.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19791213
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	141	Hole depth:	155
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-12-13	Ground water data end date:	1979-12-13
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1979-12-13	12.00	

5
NW
1/2 - 1 Mile
Higher

FED USGS USGS3226902

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	381914121352501
Site name:	006N003E36K001M		
Latitude:	381914		
Longitude:	1213525	Dec lat:	38.32046783
Dec lon:	-121.59134404	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	7.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19721126
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	RIVER CHANNEL DEPOSITS		
Well depth:	135	Hole depth:	148
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-08-06
Water quality data end date:	1981-08-06	Water quality data count:	1
Ground water data begin date:	1972-11-26	Ground water data end date:	1972-11-26
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1972-11-26	10.00	

6
SE
1/2 - 1 Mile
Lower

FED USGS USGS3226883

Agency cd:	USGS	Site no:	381815121335301
Site name:	005N004E08B002M		
Latitude:	381815		
Longitude:	1213353	Dec lat:	38.3040795
Dec lon:	-121.56578784	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	5.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19770602
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	137	Hole depth:	162
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1977-06-02	Ground water data end date:	1977-06-02
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1977-06-02	10.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NW
1/2 - 1 Mile

OIL_GAS CA10181091

Apinumber:	11320706	Operator:	McFarland Energy, Inc.
Lease:	Oxford	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.32306		
Longitude:	-121.58901		
Td:	8600	Sec:	36
Twn:	06N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SW
1/4 - 1/2 Mile

OIL_GAS CA10181056

Apinumber:	06700357	Operator:	D.D. Dunlap & Dorothy Dunlap
Lease:	Dunlap Natural Gas Graham Com	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.31061		
Longitude:	-121.58155		
Td:	4554	Sec:	6
Twn:	05N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

WSW
1/2 - 1 Mile

OIL_GAS CA10181050

Apinumber:	06700024	Operator:	G.R. Scott
Lease:	Ostman	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.30931		
Longitude:	-121.59439		
Td:	5800	Sec:	1
Twn:	05N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

SSW
1/2 - 1 Mile

OIL_GAS CA10181014

Apinumber:	06720084	Operator:	Phillips Petroleum Co.
Lease:	Peck	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.302117		
Longitude:	-121.583284		
Td:	8675	Sec:	7
Twn:	05N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SACRAMENTO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SACRAMENTO COUNTY, CA

Number of sites tested: 52

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.665 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.200 pCi/L	100%	0%	0%
Basement	8.350 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 33.0
RiverMile 33.0
COURTLAND, CA 95615**

Inquiry Number: 1790991.5

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 33.0

COURTLAND, CA 95615

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1968	Aerial Photograph. Scale: 1"=333'	Flight Year: 1968	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790991.5

YEAR: 1952

| = 555'





INQUIRY #: 1790991.5

YEAR: 1968

| = 333'





INQUIRY #: 1790991.5

YEAR: 1971

| = 333'





INQUIRY #: 1790991.5

YEAR: 1981

| = 333'





INQUIRY #: 1790991.5

YEAR: 1993

| = 666'





INQUIRY #: 1790991.5

YEAR: 1998

| = 666'





EDR[®] Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**Sacramento River RiverMile 33.0
RiverMile 33.0
COURTLAND, CA 95615**

Inquiry Number: 1790991.4

November 07, 2006

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
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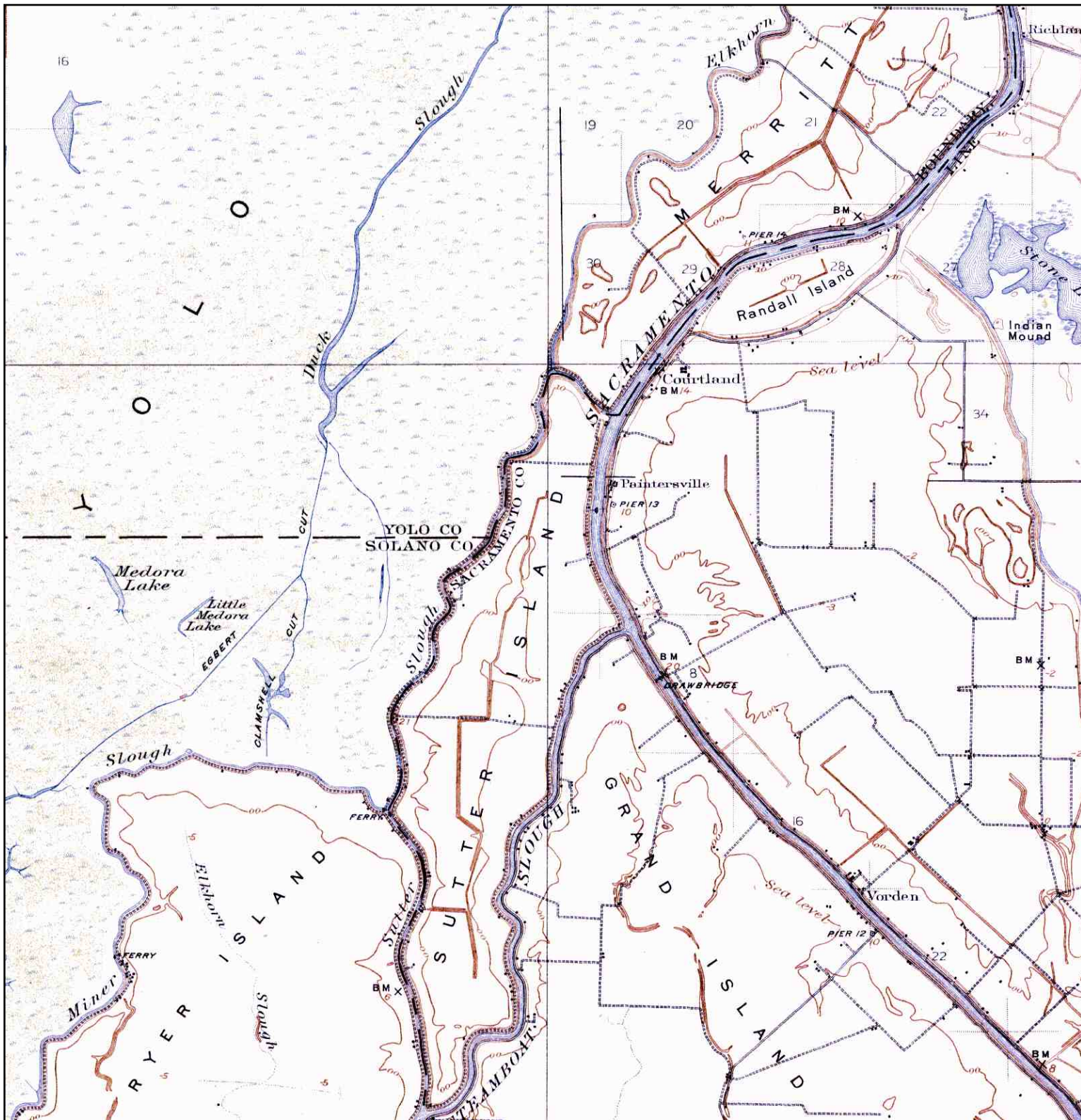
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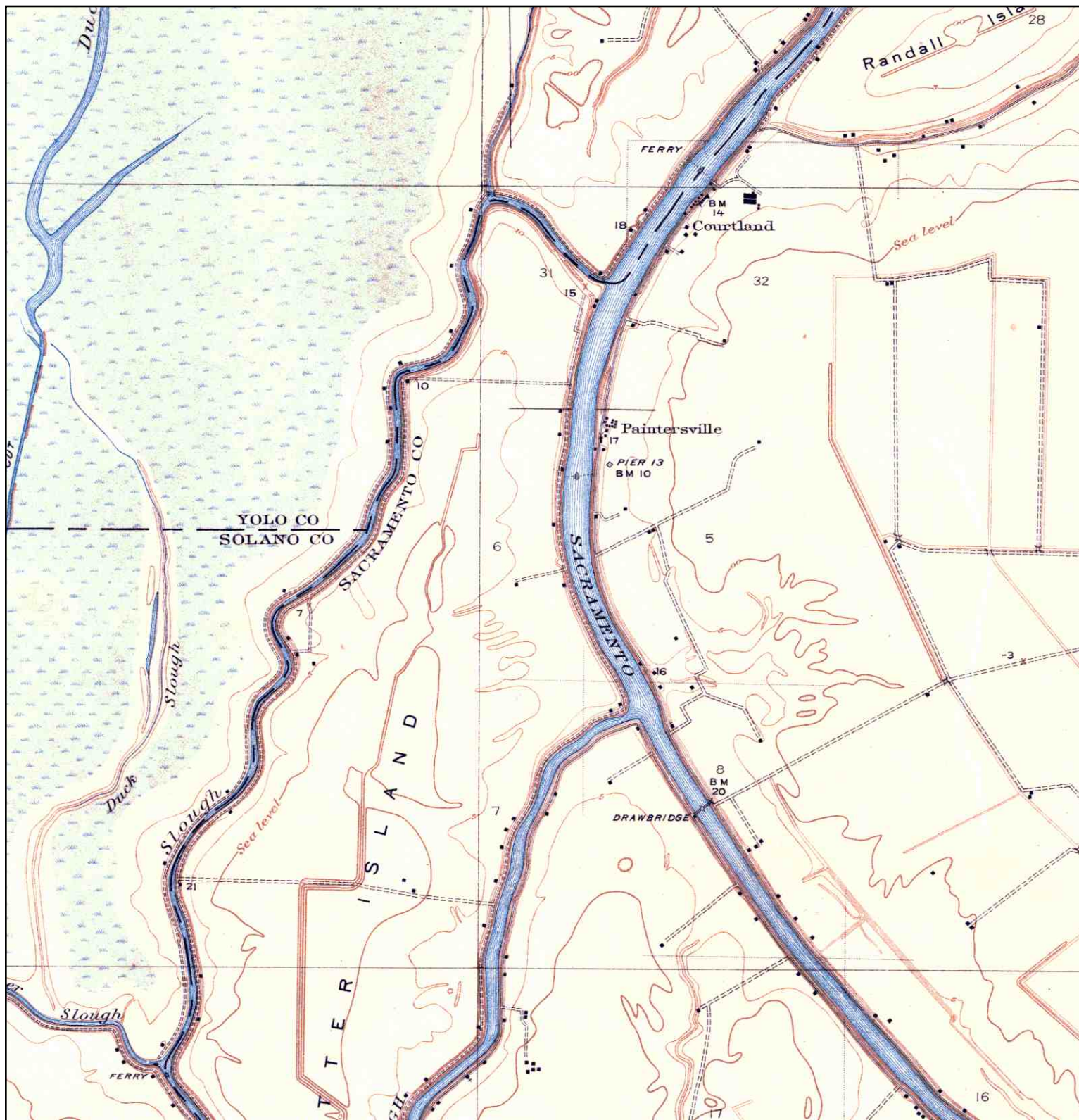
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Historical Topographic Map



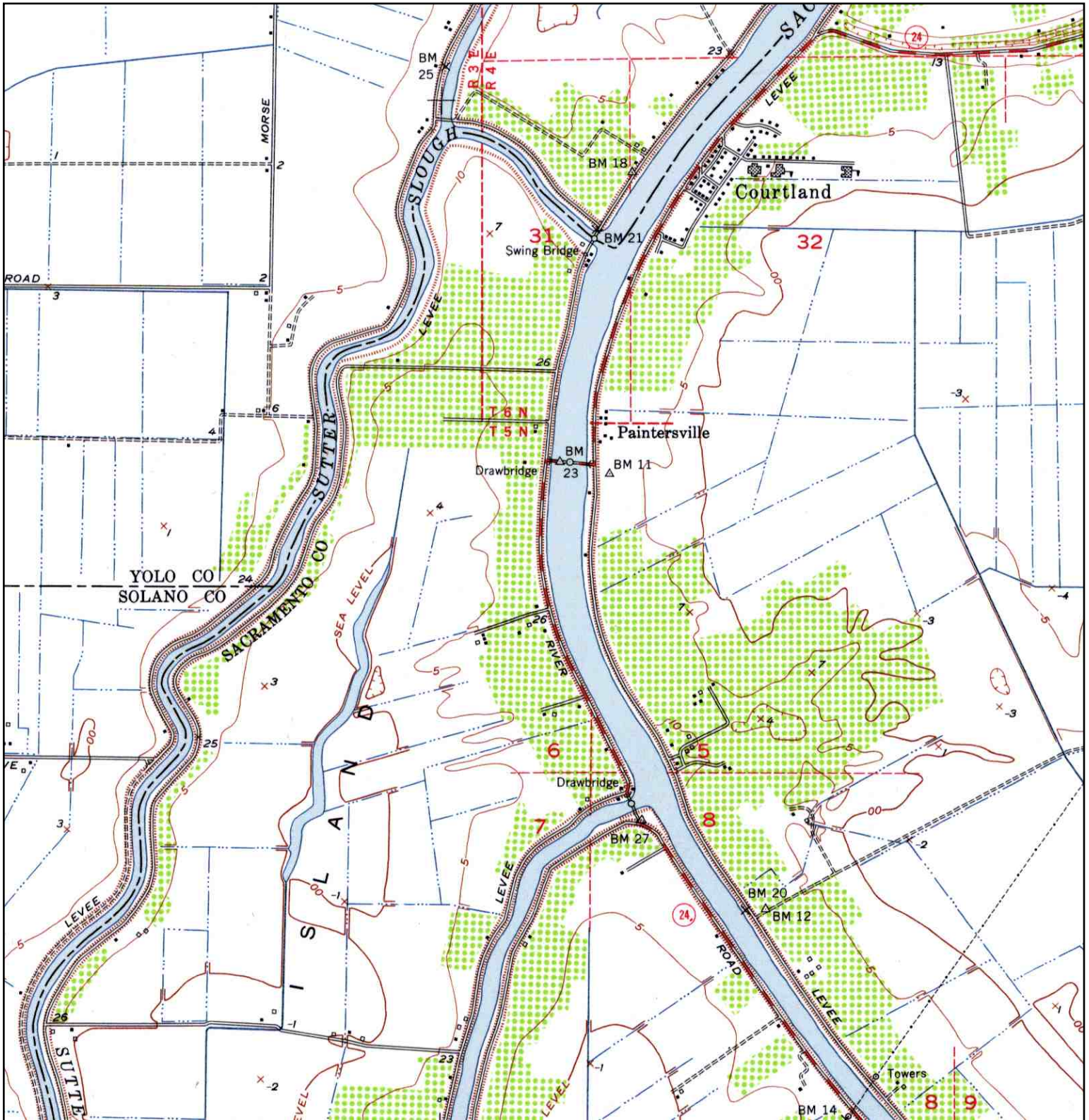
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 33.0	CLIENT:	MECx
	NAME: COURTLAND	ADDRESS:	RiverMile 49.0	CONTACT:	Robert Bell
	MAP YEAR: 1908		COURTLAND, CA 95615	INQUIRY#:	1790991.4
	SERIES: 15	LAT/LONG:	38.3135 / 121.5786	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500				

Historical Topographic Map



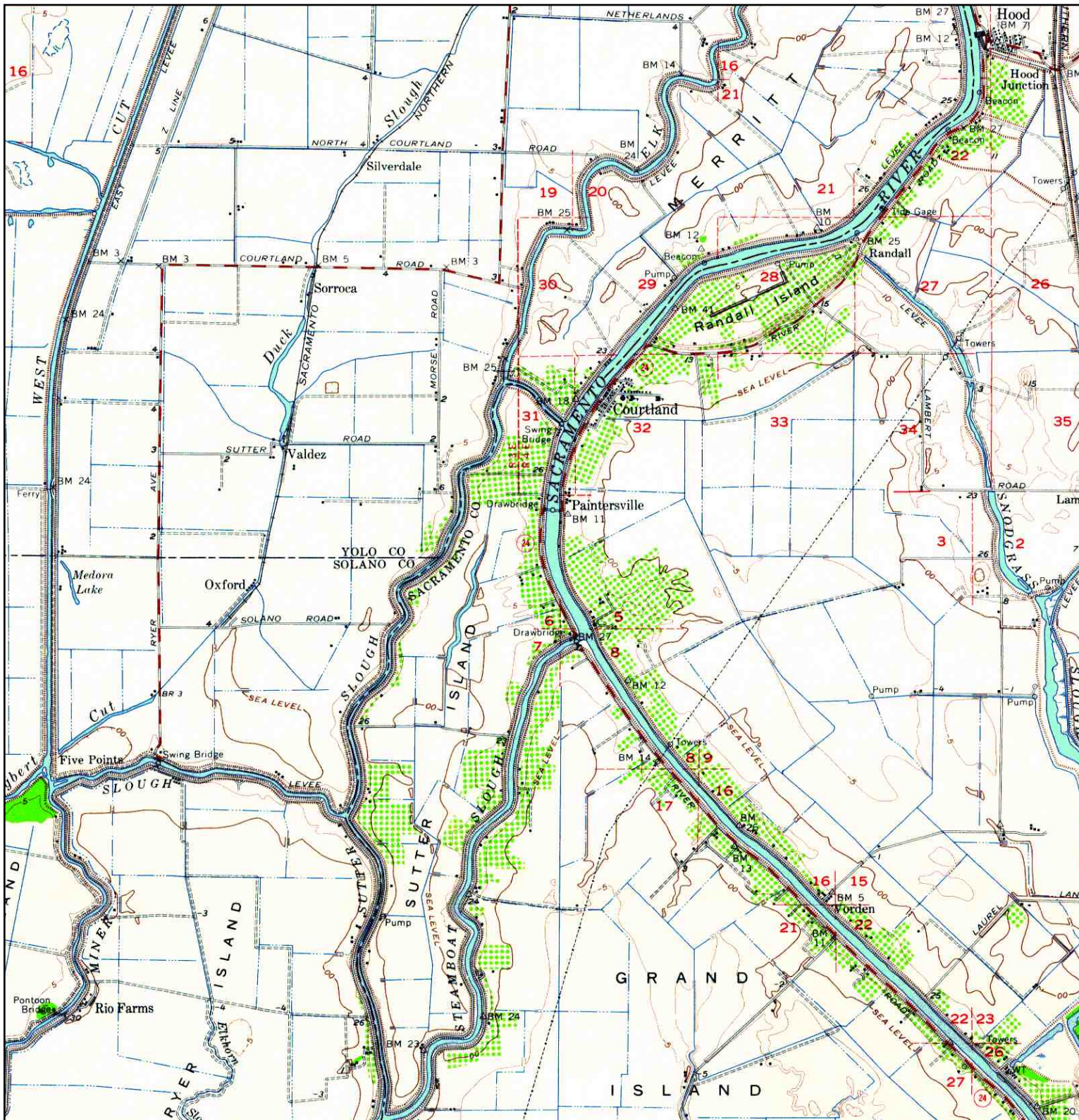
<p>N ↑</p>	<p>TARGET QUAD NAME: VORDEN MAP YEAR: 1916</p>	<p>SITE NAME: Sacramento River RiverMile 33.0 ADDRESS: RiverMile 33.0 COURTLAND, CA 95615</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790991.4 RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5 SCALE: 1:31680</p>	<p>LAT/LONG: 38.3135 / 121.5786</p>	

Historical Topographic Map



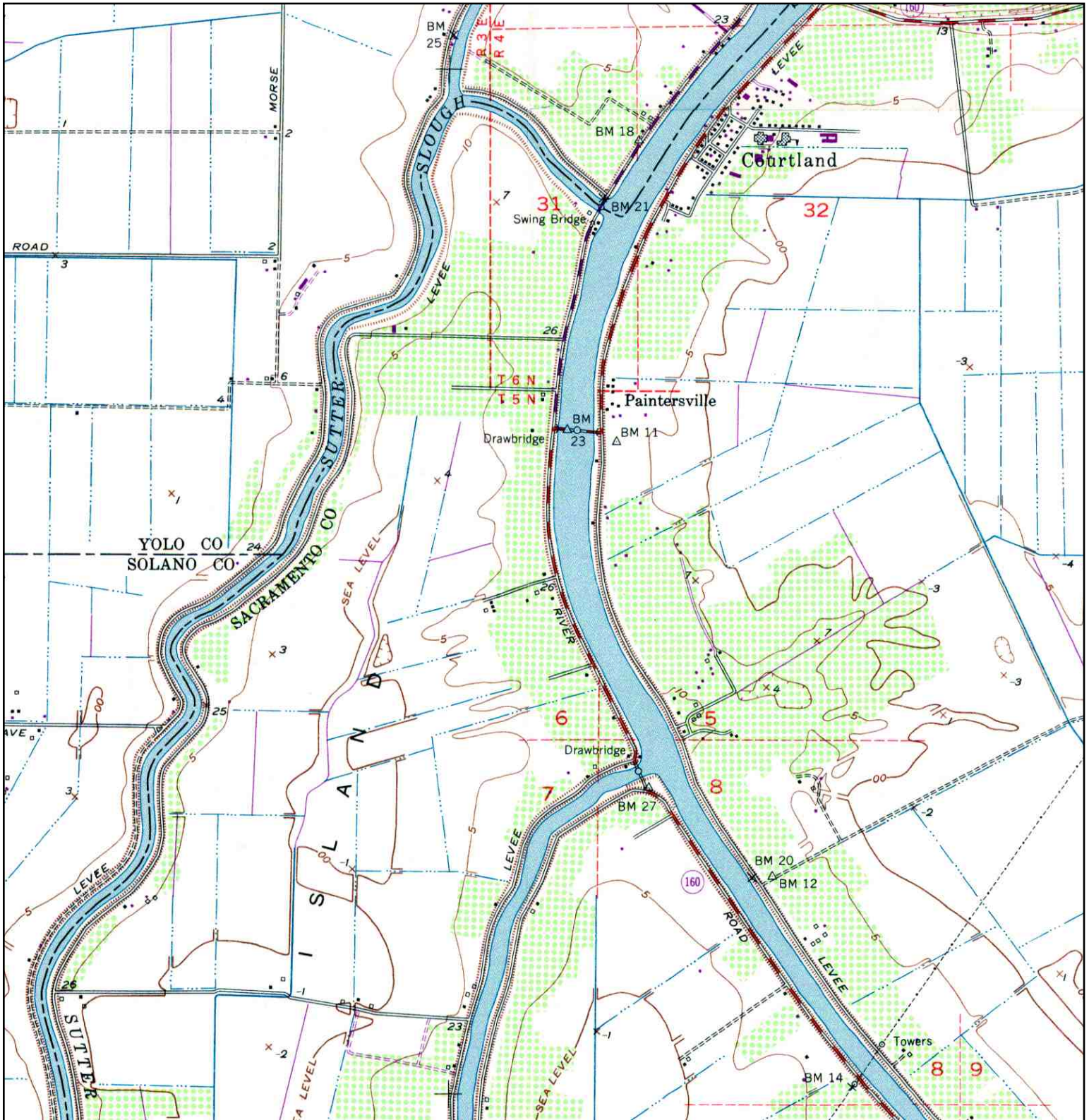
<p>N ↑</p>	<p>TARGET QUAD NAME: COURTLAND MAP YEAR: 1952</p>	<p>SITE NAME: Sacramento River RiverMile 33.0</p>	<p>CLIENT: MECx</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>	<p>ADDRESS: RiverMile 33.0 COURTLAND, CA 95615</p> <p>LAT/LONG: 38.3135 / 121.5786</p>	<p>CONTACT: Robert Bell INQUIRY#: 1790991.4 RESEARCH DATE: 11/07/2006</p>

Historical Topographic Map



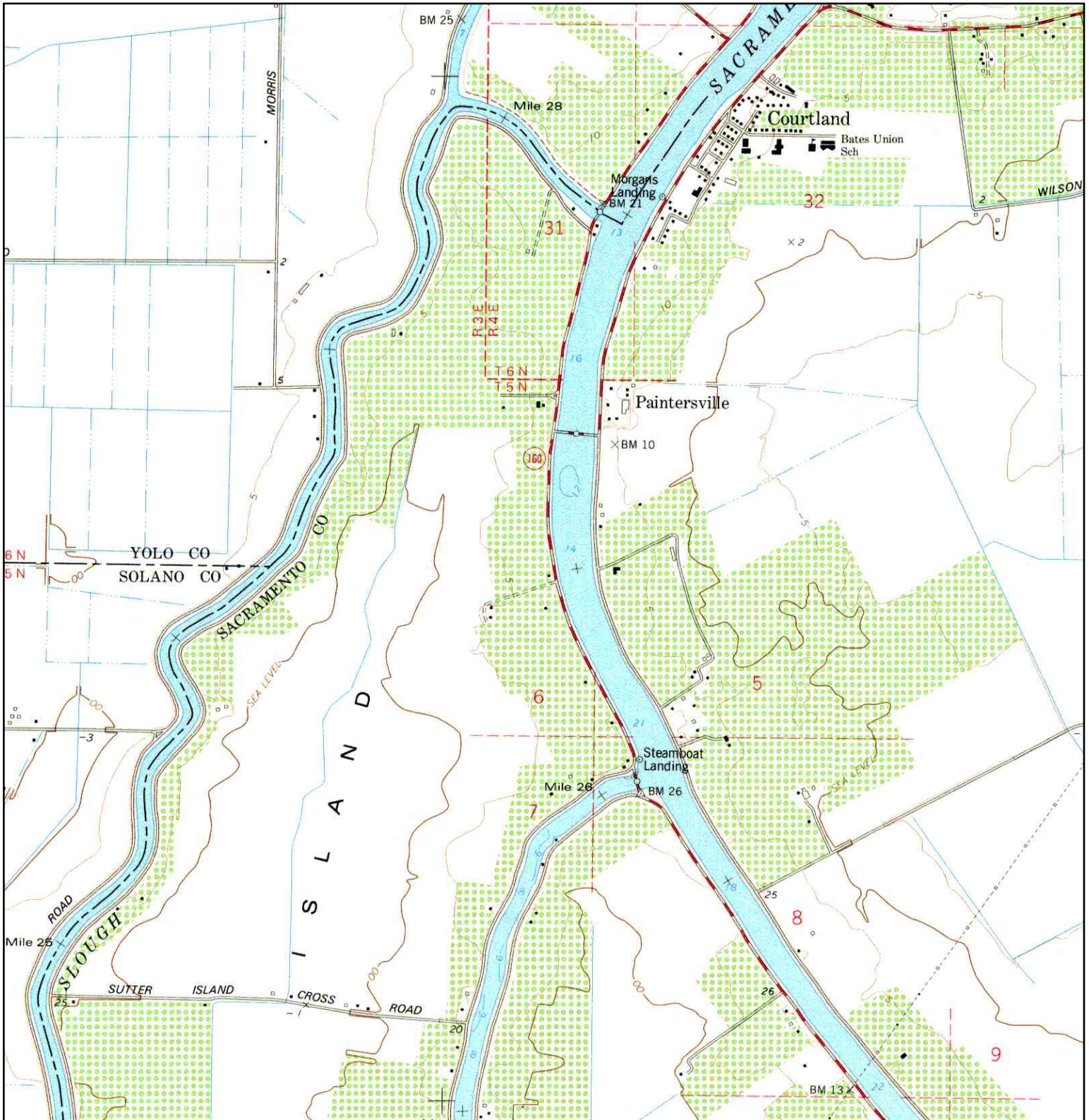
<p>N</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx	
	NAME: COURTLAND	33.0	CONTACT:	Robert Bell		
	MAP YEAR: 1952	ADDRESS:	RiverMile 33.0	INQUIRY#:	1790991.4	
	SERIES: 15	COURTLAND, CA 95615	LAT/LONG:	38.3135 / 121.5786	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500					


Historical Topographic Map



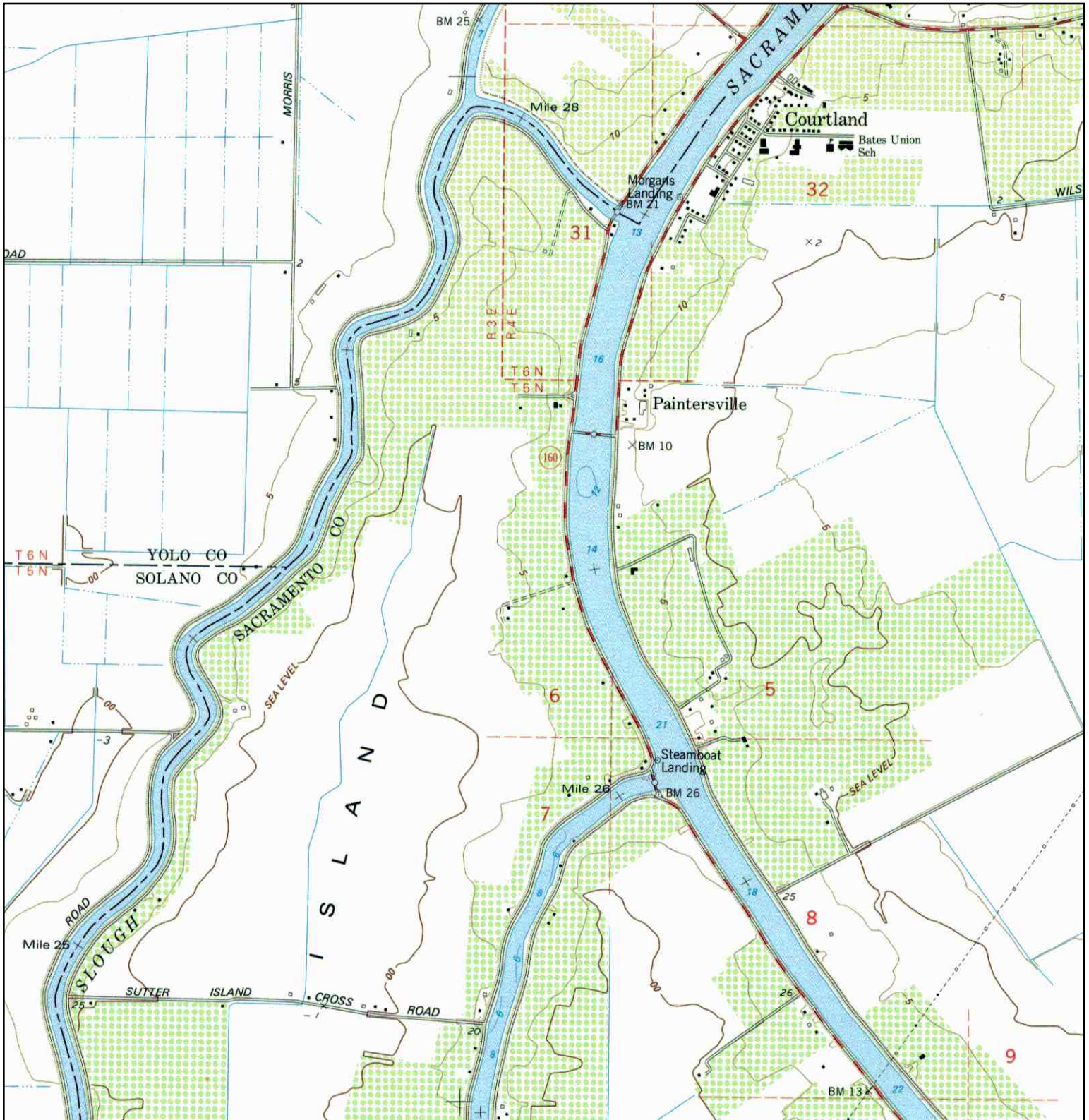
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx	
	NAME: COURTLAND	33.0		CONTACT:	Robert Bell	
	MAP YEAR: 1968	ADDRESS:	RiverMile 33.0	INQUIRY#:	1790991.4	
	PHOTOREVISED FROM: 1952	COURTLAND, CA 95615	LAT/LONG:	38.3135 / 121.5786	RESEARCH DATE:	11/07/2006
	SERIES: 7.5					
	SCALE: 1:24000					

Historical Topographic Map



<p>N</p> 	<p>TARGET QUAD NAME: COURTLAND MAP YEAR: 1978</p>	<p>SITE NAME: Sacramento River RiverMile 33.0</p>	<p>CLIENT: MECx</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>	<p>ADDRESS: RiverMile 33.0 COURTLAND, CA 95615</p> <p>LAT/LONG: 38.3135 / 121.5786</p>	<p>CONTACT: Robert Bell INQUIRY#: 1790991.4 RESEARCH DATE: 11/07/2006</p>

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx
	NAME: COURTLAND	33.0		CONTACT:	Robert Bell
	MAP YEAR: 1993	ADDRESS:	RiverMile 33.0	INQUIRY#:	1790991.4
	REVISED FROM: 1978	COURTLAND, CA 95615		RESEARCH DATE:	11/07/2006
	SERIES: 7.5	LAT/LONG:	38.3135 / 121.5786		
	SCALE: 1:24000				

APPENDIX F

**EDR REPORT FOR SAC33.3R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 33.3
RiverMile 33.3
COURTLAND, CA 95615**

Inquiry Number: 1790995.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 33.3
COURTLAND, CA 95615

COORDINATES

Latitude (North): 38.319100 - 38° 19' 8.8"
Longitude (West): 121.578500 - 121° 34' 42.6"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 624267.3
UTM Y (Meters): 4241970.5
Elevation: 7 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-C5 COURTLAND, CA
Most Recent Revision: 1993

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRA-TSDF..... Resource Conservation and Recovery Act Information
RCRA-LQG..... Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
Sacramento Co. CS	CS - Contaminated Sites
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
Sacramento Co. ML	ML - Regulatory Compliance Master List
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
----------------------	---------------------

EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 10/11/2006 has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

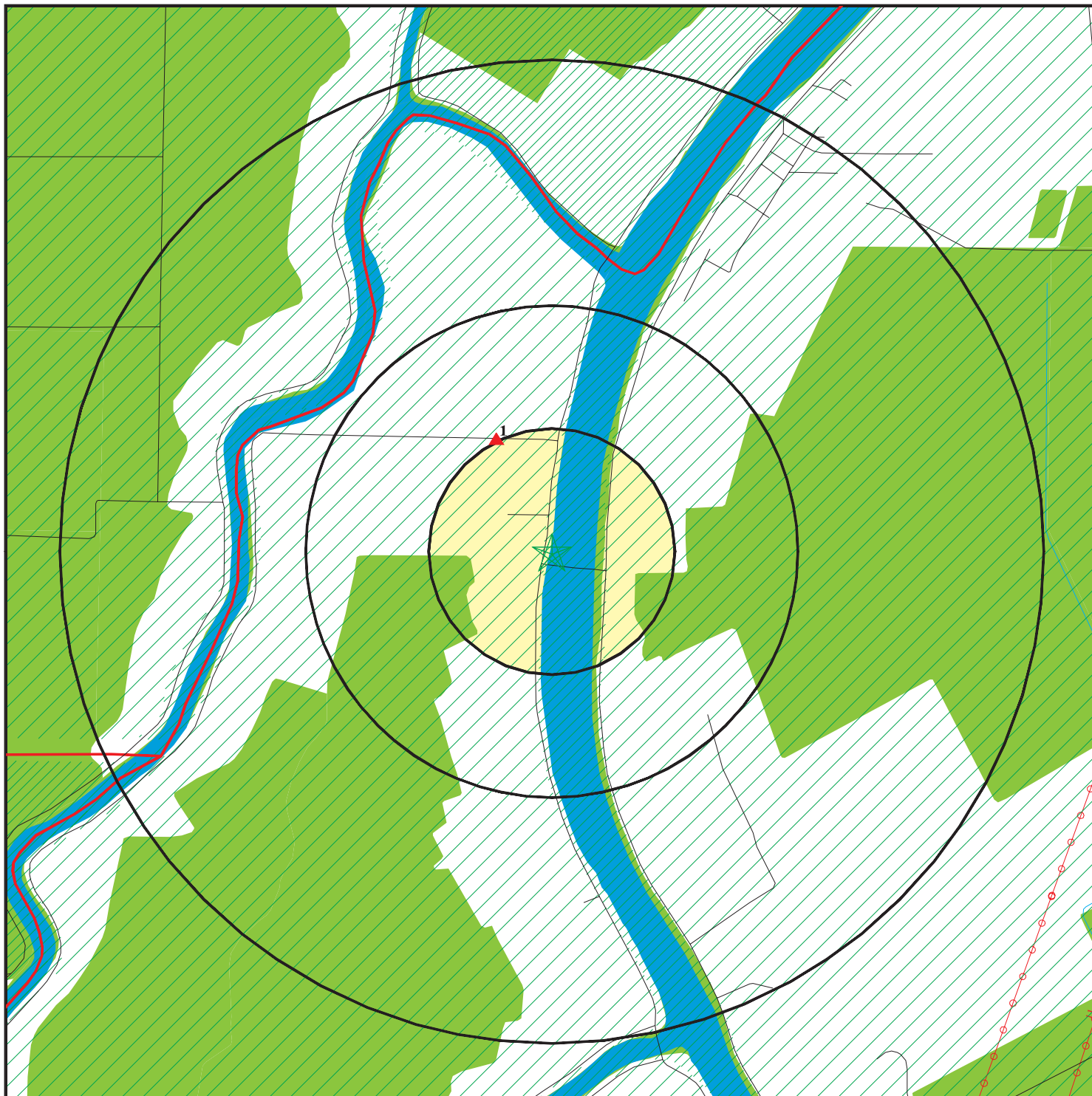
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
DELTA AERIAL APPLICATORS, INC. Facility Status: Case Open	15931 SUTTER ISLAND ROA	1/4 - 1/2NNW 1	1	6

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
GEORGE SMITH RAUCE	SWEEPS UST
GREEN & MCKEOWN FARMS, INC.	SWEEPS UST
MCCLAIN HOME RANCH	SWEEPS UST
BUCKLEY STATION	SWEEPS UST
J.H. THOMAS COMPANY	SWEEPS UST
REUBEN GENTNER - FARM	SWEEPS UST
JEANNETTE C. BAKER	SWEEPS UST
TWITCHELL ISLAND ROAD .5 MI WEST OF RIO VISTA	CHMIRS, SLIC
BRUCE TOWNE	LUST, Cortese
GEORGE SMITH RAUCE	HIST UST
MCCLAIN HOME RANCH	HIST UST
J.H. THOMAS COMPANY	HIST UST
RIVER DELTA USD/NORTH MAIN SHOP	HAZNET
RIVER DELTA HIGH/ELEM (ALTERNATIVE)	FINDS
F. J. MASSONI	Sacramento Co. ML
W.B CARR, JR	Sacramento Co. ML
GREENE AND HEMLY, INC	Sacramento Co. ML
GREEN & MCKEOWN	Sacramento Co. ML
PAVCO RANCH	Sacramento Co. ML
W. B. CARR JR.	Sacramento Co. ML
MC CLAINE ORCHARD, INC	Sacramento Co. ML
COURTLAND DOCKS	Sacramento Co. ML
BUDS LOCK & SAW CO	Sacramento Co. ML
RAMOS OIL CO, INC	Sacramento Co. ML
J. M. BUCKLEY	Sacramento Co. ML
STEAMBOAT LANDING	Sacramento Co. ML
PACIFIC FRUIT FARMS	Sacramento Co. ML
G. SMITH	Sacramento Co. ML
LINCOLN CHAN FARMS	Sacramento Co. ML
GREEN & MCKEOWN FARMS	Sacramento Co. ML
HOMACKICH & MELLO	Sacramento Co. ML
COURTLAND TRUCK WORKS	Sacramento Co. ML
DELTA PROPANE	Sacramento Co. ML
BRUCE TOWNE	Sacramento Co. CS

OVERVIEW MAP - 1790995.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

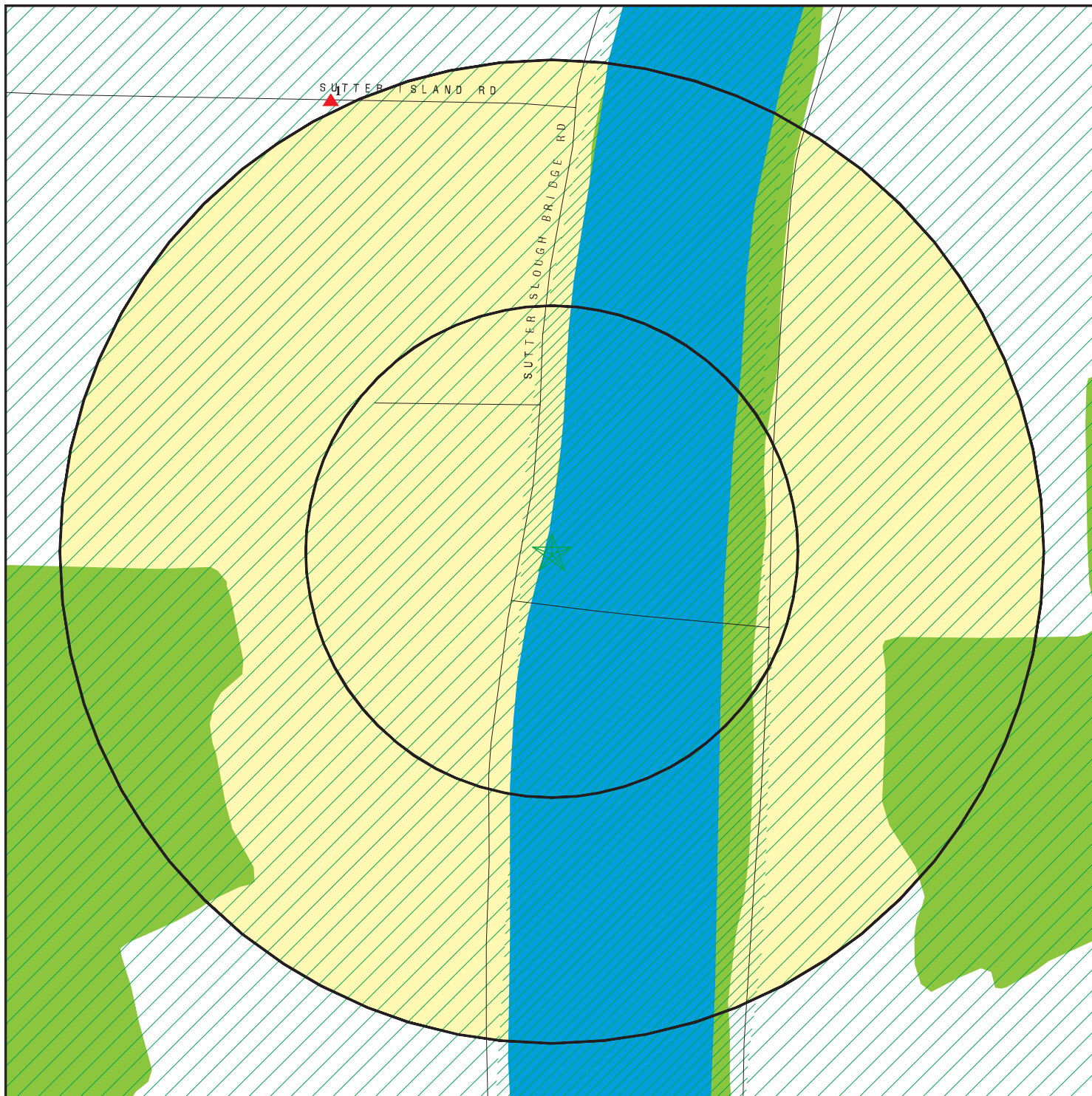


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 33.3
 ADDRESS: RiverMile 33.3
 COURTLAND CA 95615
 LAT/LONG: 38.3191 / 121.5785

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790995.2s
 DATE: November 07, 2006 11:00 am

DETAIL MAP - 1790995.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ⚙ Manufactured Gas Plants
- ⚡ Sensitive Receptors
- 🚚 National Priority List Sites
- 🗑 Landfill Sites
- 🏠 Dept. Defense Sites

- 🏠 Indian Reservations BIA
- 🛞 Oil & Gas pipelines
- 🌊 100-year flood zone
- 🌊 500-year flood zone
- 🌿 National Wetland Inventory
- 🔴 Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 33.3
 ADDRESS: RiverMile 33.3
 COURTLAND CA 95615
 LAT/LONG: 38.3191 / 121.5785

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790995.2s
 DATE: November 07, 2006 11:00 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	1	NR	NR	1
Sacramento Co. CS		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST UST		0.250	0	0	NR	NR	NR	0
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
Sacramento Co. ML		0.250	0	0	NR	NR	NR	0
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

1
NNW
1/4-1/2
1350 ft.

DELTA AERIAL APPLICATORS, INC.
15931 SUTTER ISLAND ROAD
COURTLAND, CA 95615

SLIC **S106486694**
 N/A

Relative:
Equal

SLIC:

Region: STATE
 Global Id: SLT5S4603414
 Assigned Name: SLICSITE
 Lead Agency Contact: CORI CONDON
 Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
 Lead Agency Case Number: SLT5S460
 Responsible Party: TIM NEUHARTH
 Recent Dtw: Not reported
 Substance Released: FER
Facility Status: Case Open

Actual:
7 ft.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
COURT	S105271527	F. J. MASSONI	RT 1 BOX 18	95615	Sacramento Co. ML
COURT	S106665401	W.B CARR, JR	RT 1 BOX 20	95615	Sacramento Co. ML
COURT	S104654938	GREENE AND HEMLY, INC	11275 HWY 160	95615	Sacramento Co. ML
COURT	S105269811	GREEN & MCKEOWN	11377 HWY 160	95615	Sacramento Co. ML
COURT	S105269812	PAVCO RANCH	11481 HWY 160	95615	Sacramento Co. ML
COURT	S105269813	W. B. CARR JR.	11509 HWY 160	95615	Sacramento Co. ML
COURT	S105269814	MC CLAINE ORCHARD, INC	11551 HWY 160	95615	Sacramento Co. ML
COURT	S105269815	COURTLAND DOCKS	11740 HWY 160	95615	Sacramento Co. ML
COURT	S105269817	BUDS LOCK & SAW CO	11761 HWY 160	95615	Sacramento Co. ML
COURT	S105269818	RAMOS OIL CO, INC	11767 HWY 160	95615	Sacramento Co. ML
COURT	S105269819	J. M. BUCKLEY	12022 HWY 160	95615	Sacramento Co. ML
COURT	S105269821	STEAMBOAT LANDING	12414 HWY 160	95615	Sacramento Co. ML
COURT	S105269823	PACIFIC FRUIT FARMS	12960 HWY 160	95615	Sacramento Co. ML
COURT	S105269839	G. SMITH	HWY 160 (1/2 MI SO	95615	Sacramento Co. ML
COURT	S106780577	LINCOLN CHAN FARMS	HWY 160	95615	Sacramento Co. ML
COURT	S106780578	GREEN & MCKEOWN FARMS	HWY 160	95615	Sacramento Co. ML
COURT	S106780579	HOMACKICH & MELLO	HWY 160	95615	Sacramento Co. ML
COURTLAND	S104654939	COURTLAND TRUCK WORKS	12019 HWY 160	95615	Sacramento Co. ML
COURTLAND	S104857538	BRUCE TOWNE	HIGHWAY 160	95615	Sacramento Co. CS
COURTLAND	S104971032	DELTA PROPANE	12017 HWY 160	95615	Sacramento Co. ML
COURTLAND	S105023440	BRUCE TOWNE	13910 HWY 160	95615	LUST, Cortese
COURTLAND	S106926674	GEORGE SMITH RAUCE	HWY 160 1-2 NITE S O	95615	SWEEPS UST
COURTLAND	S106926870	GREEN & MCKEOWN FARMS, INC.	HIGHWAY 160	95615	SWEEPS UST
COURTLAND	S106929250	MCCLAIN HOME RANCH	HIGHWAY 160 / WILSON RD	95615	SWEEPS UST
COURTLAND	U001612533	GEORGE SMITH RAUCE	HWY. 160 1/2 NITE S. OF COURTL	95615	HIST UST
COURTLAND	U001612543	MCCLAIN HOME RANCH	HWY 160 / WILSON RD.	95615	HIST UST
COURTLAND	S106923619	BUCKLEY STATION	12022 HIGHWAY 160-RIVER RD	95615	SWEEPS UST
COURTLAND	S102823313	RIVER DELTA USD/NORTH MAIN SHOP	CORNER OF SCHOOL ST /	95615	HAZNET
COURTLAND	1008301282	RIVER DELTA HIGH/ELEM (ALTERNATIVE)	445 MONTEZUMA	95615	FINDS
COURTLAND	S106927625	J.H. THOMAS COMPANY	S RIVER ROAD MERRITT	95615	SWEEPS UST
COURTLAND	S106931314	REUBEN GENTNER - FARM	S RIVER ROAD P O BOX 94	95615	SWEEPS UST
COURTLAND	U001612539	J.H. THOMAS COMPANY	SOUTH RIVER ROAD MERRITT	95615	HIST UST
COURTLAND	S106927745	JEANNETTE C. BAKER	12950 SUTTER	95615	SWEEPS UST
SACRAMENTO COUNTY	S105641112		TWITCHELL ISLAND ROAD .5 MI WEST OF RIO VISTA		CHMIRS, SLIC

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 08/15/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 33.3
RIVERMILE 33.3
COURTLAND, CA 95615

TARGET PROPERTY COORDINATES

Latitude (North):	38.31910 - 38° 19' 8.8"
Longitude (West):	121.5785 - 121° 34' 42.6"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	624267.3
UTM Y (Meters):	4241970.5
Elevation:	7 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38121-C5 COURTLAND, CA
Most Recent Revision:	1993

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

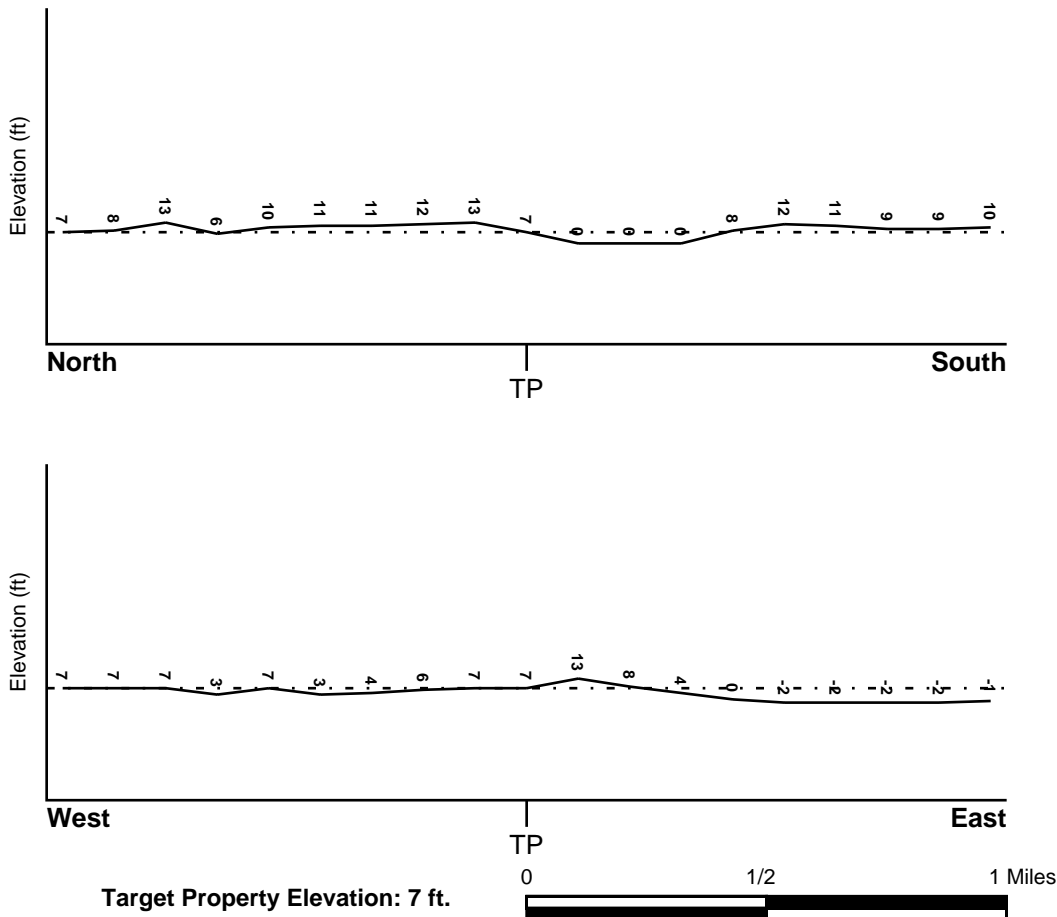
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SACRAMENTO, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
---	--

Flood Plain Panel at Target Property: 0602620405C

Additional Panels in search area: 0604230705D
0602620410C
0602620420C
0602620415C
0606310340D

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> COURTLAND	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
---	--

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

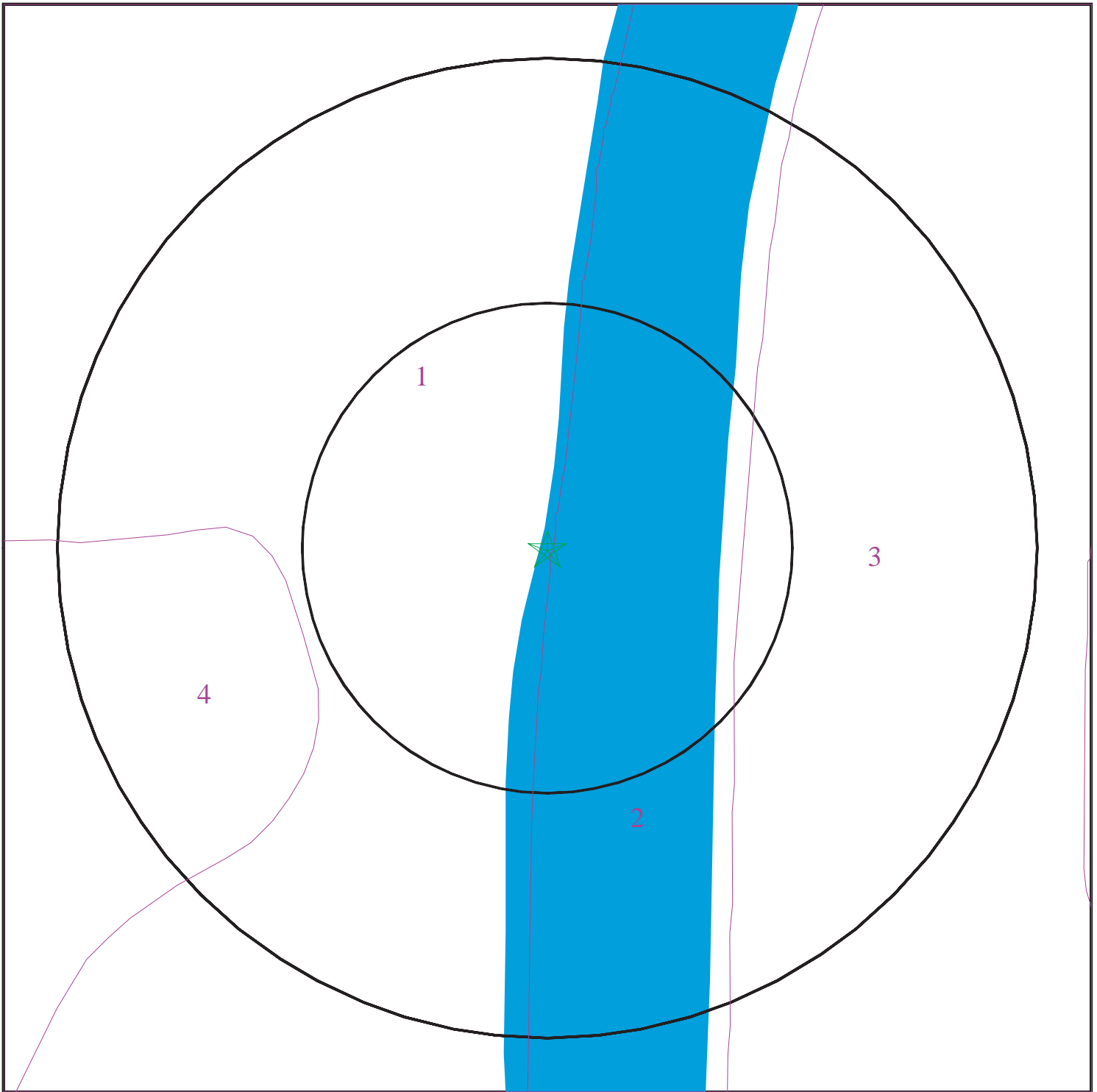
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790995.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water

0 1/16 1/8 1/4 Miles



SITE NAME: Sacramento River RiverMile 33.3
ADDRESS: RiverMile 33.3
COURTLAND CA 95615
LAT/LONG: 38.3191 / 121.5785

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790995.2s
DATE: November 07, 2006 11:00 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SAILBOAT

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

Soil Map ID: 2

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: VALPAC

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	10 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.60
2	10 inches	61 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

Soil Map ID: 4

Soil Component Name: EGBERT

Soil Surface Texture: clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
2	18 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
3	46 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.10

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3226900	1/8 - 1/4 Mile East
A2	USGS3226905	1/8 - 1/4 Mile NE
A3	USGS3226901	1/8 - 1/4 Mile ENE
4	USGS3226902	1/2 - 1 Mile West
5	USGS3226920	1/2 - 1 Mile NNE

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
7	USGS3226884	1/2 - 1 Mile SSE
10	USGS3226761	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
9	CA3400142	1/2 - 1 Mile NE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

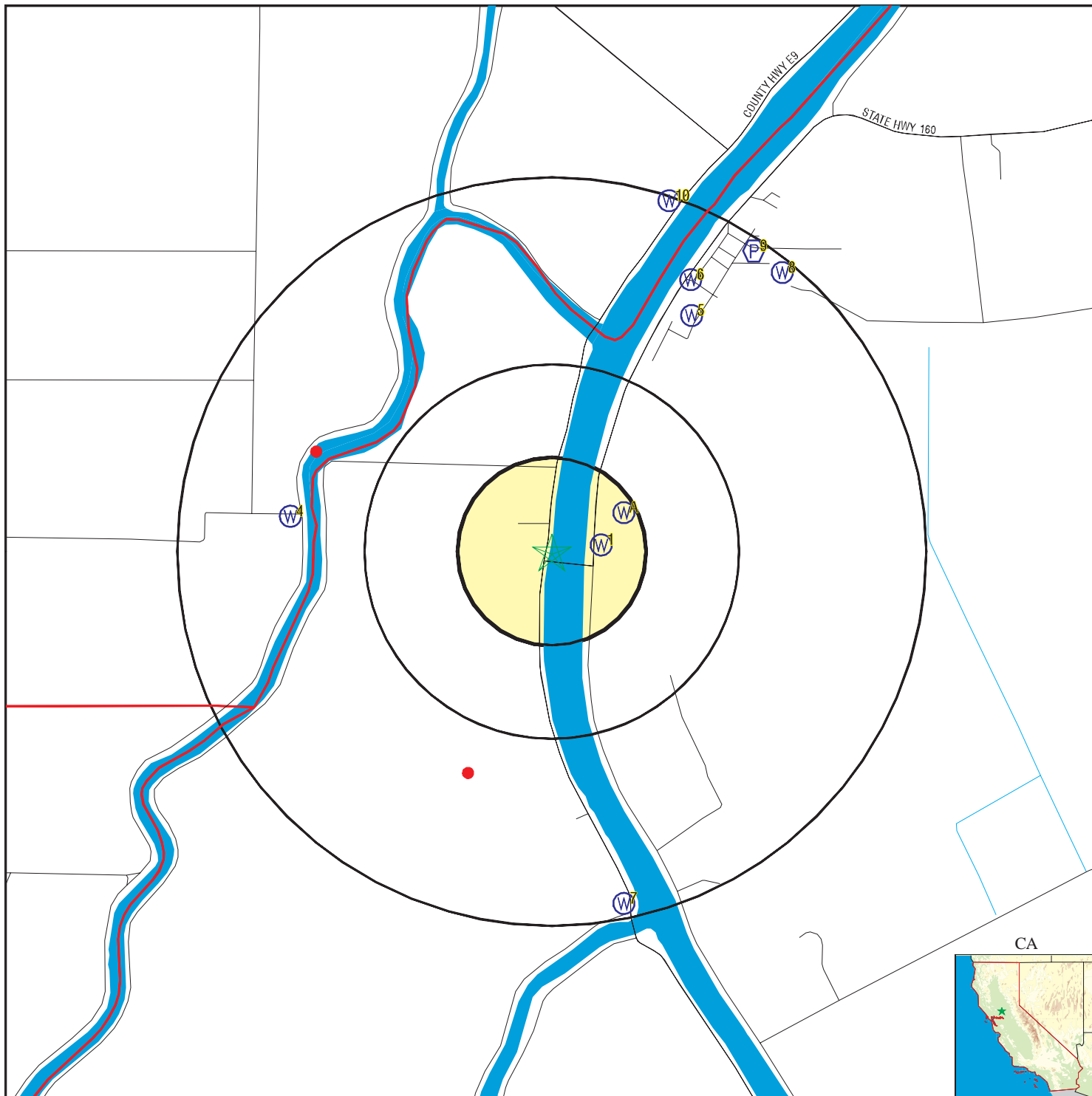
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
6	6526	1/2 - 1 Mile NNE
8	6528	1/2 - 1 Mile NE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/2 - 1 Mile WNW	1/2 - 1 Mile SSW

PHYSICAL SETTING SOURCE MAP - 1790995.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

No contour lines were detected within this map area.

SITE NAME: Sacramento River RiverMile 33.3
 ADDRESS: RiverMile 33.3
 COURTLAND CA 95615
 LAT/LONG: 38.3191 / 121.5785

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790995.2s
 DATE: November 07, 2006 11:00 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
East
1/8 - 1/4 Mile
Higher

FED USGS USGS3226900

Agency cd:	USGS	Site no:	381910121343001
Site name:	005N004E05D001M		
Latitude:	381910		
Longitude:	1213430	Dec lat:	38.3193568
Dec lon:	-121.57606598	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Flood plain		
Site type:	Ground-water other than Spring	Date construction:	19651120
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	140	Hole depth:	160
Source of depth data:	Not Reported		
Real time data flag:	0	Project number:	0479423712
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1965-11-20	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1965-11-20

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1965-11-20	11.00	

A2
NE
1/8 - 1/4 Mile
Higher

FED USGS USGS3226905

Agency cd:	USGS	Site no:	381915121342801
Site name:	006N004E31R001M		
Latitude:	381915		
Longitude:	1213428	Dec lat:	38.32074565
Dec lon:	-121.57551043	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	7.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19650325
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	138	Hole depth:	155
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1965-03-25	Ground water data end date:	1965-03-25
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1965-03-25	9.00	

**A3
ENE
1/8 - 1/4 Mile
Higher**

FED USGS USGS3226901

Agency cd:	USGS	Site no:	381914121342401
Site name:	006N004E32N001M		
Latitude:	381914		
Longitude:	1213424	Dec lat:	38.32046788
Dec lon:	-121.57439929	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	6.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19730625
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	130	Hole depth:	152
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1973-06-25	Ground water data end date:	1973-06-25
Ground water data count:	1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1973-06-25	7.00	

4
West
1/2 - 1 Mile
Higher

FED USGS USGS3226902

Agency cd:	USGS	Site no:	381914121352501
Site name:	006N003E36K001M		
Latitude:	381914		
Longitude:	1213525	Dec lat:	38.32046783
Dec lon:	-121.59134404	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	7.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19721126
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	RIVER CHANNEL DEPOSITS		
Well depth:	135	Hole depth:	148
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-08-06
Water quality data end date:	1981-08-06	Water quality data count:	1
Ground water data begin date:	1972-11-26	Ground water data end date:	1972-11-26
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1972-11-26	10.00	

5
NNE
1/2 - 1 Mile
Higher

FED USGS USGS3226920

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	381942121341401
Site name:	006N004E32E002M		
Latitude:	381942		
Longitude:	1213414	Dec lat:	38.32824544
Dec lon:	-121.57162155	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	7.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19680923
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	LAGUNA FORMATION		
Well depth:	160	Hole depth:	165
Source of depth data:	driller	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1982-09-20
Water quality data end date:	1982-09-20	Water quality data count:	1
Ground water data begin date:	1982-06-24	Ground water data end date:	1982-06-24
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1982-06-24	9.32	

6
NNE
1/2 - 1 Mile
Higher

CA WELLS 6526

Water System Information:

Prime Station Code:	06N/04E-32E03 M	User ID:	34C
FRDS Number:	3400130001	County:	Sacramento
District Number:	64	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	381947.0 1213414.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL A		
System Number:	3400130		
System Name:	COURTLAND ENTERPRISES		
Organization That Operates System:	Not Reported		
Pop Served:	Unknown, Small System	Connections:	Unknown, Small System
Area Served:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/08/2002 00:00:00	Findings:	.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	07/16/2003 00:00:00	Findings:	11 UG/L
Chemical:	ARSENIC		
Sample Collected:	07/16/2003 00:00:00	Findings:	56 UG/L
Chemical:	MANGANESE		
Sample Collected:	07/16/2003 00:00:00	Findings:	12 UG/L
Chemical:	VANADIUM		

7
SSE
1/2 - 1 Mile
Higher

FED USGS USGS3226884

Agency cd:	USGS	Site no:	381820121342601
Site name:	005N004E08D001M		
Latitude:	381820	Dec lat:	38.30546832
Longitude:	1213426	Coor meth:	M
Dec lon:	-121.57495469	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	067
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	COURTLAND	Altitude method:	M
Altitude:	8.00	Altitude datum:	NGVD29
Altitude accuracy:	2.5	Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.
Topographic:	Flood plain	Site type:	Ground-water other than Spring
Date inventoried:	Not Reported	Date construction:	19791213
Local standard time flag:	Y	Mean greenwich time offset:	PST
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	141	Hole depth:	155
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-12-13	Ground water data end date:	1979-12-13
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1979-12-13	12.00	

8
NE
1/2 - 1 Mile
Higher

CA WELLS 6528

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Water System Information:

Prime Station Code:	06N/04E-32F02 M	User ID:	34C
FRDS Number:	3400267001	County:	Sacramento
District Number:	64	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	381948.0 1213358.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL A		
System Number:	3400267		
System Name:	BATES ELEM SCHOOL		
Organization That Operates System:	Not Reported		
Pop Served:	Unknown, Small System	Connections:	Unknown, Small System
Area Served:	Not Reported		
Sample Collected:	10/19/2001 00:00:00	Findings:	52 UG/L
Chemical:	MANGANESE		
Sample Collected:	08/30/2004 00:00:00	Findings:	9.4 UG/L
Chemical:	ARSENIC		
Sample Collected:	08/30/2004 00:00:00	Findings:	130 UG/L
Chemical:	IRON		
Sample Collected:	08/30/2004 00:00:00	Findings:	49 UG/L
Chemical:	MANGANESE		
Sample Collected:	10/21/2005 00:00:00	Findings:	1.8 UG/L
Chemical:	DICHLOROACETIC ACID (DCAA)		
Sample Collected:	10/21/2005 00:00:00	Findings:	.53 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	10/21/2005 00:00:00	Findings:	.53 UG/L
Chemical:	TOTAL TRIHALOMETHANES		

**9
NE
1/2 - 1 Mile
Higher**

FRDS PWS CA3400142

PWS ID:	CA3400142	PWS Status:	Active
Date Initiated:	7706	Date Deactivated:	Not Reported
PWS Name:	MORGANS LANDING MORGANS LANDING 11851 HWY COURTLAND, CA 95615		

Addressee / Facility: System Owner/Responsible Party
MORGANS LANDING
11851 HIGHWAY 1
COURTLAND, CA 95615

Facility Latitude:	38 19 51	Facility Longitude:	121 34 03
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	00000025

PWS currently has or had major violation(s) or enforcement: No

**10
NNE
1/2 - 1 Mile
Higher**

FED USGS USGS3226761

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	381958121341801
Site name:	006N004E32D001M		
Latitude:	381958		
Longitude:	1213418	Dec lat:	38.33268976
Dec lon:	-121.57273273	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	COURTLAND	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19651204
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	64.0	Hole depth:	84.0
Source of depth data:	Not Reported		
Real time data flag:	0	Project number:	8479423711
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1965-12-04	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1965-12-04

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
----- 1965-12-04	9.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

WNW
1/2 - 1 Mile

OIL_GAS CA10181091

Apinumber:	11320706	Operator:	McFarland Energy, Inc.
Lease:	Oxford	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.32306		
Longitude:	-121.58901		
Td:	8600	Sec:	36
Twn:	06N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SSW
1/2 - 1 Mile

OIL_GAS CA10181056

Apinumber:	06700357	Operator:	D.D. Dunlap & Dorothy Dunlap
Lease:	Dunlap Natural Gas Graham Com	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	610	Status cod:	006
Source:	hud		
Latitude:	38.31061		
Longitude:	-121.58155		
Td:	4554	Sec:	6
Twn:	05N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SACRAMENTO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SACRAMENTO COUNTY, CA

Number of sites tested: 52

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.665 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.200 pCi/L	100%	0%	0%
Basement	8.350 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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Data Resources Inc

The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 33.3
RiverMile 33.3
COURTLAND, CA 95615**

Inquiry Number: 1790995.5

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 33.3

COURTLAND, CA 95615

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1968	Aerial Photograph. Scale: 1"=333'	Flight Year: 1968	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790995.5

YEAR: 1952

| = 555'





INQUIRY #: 1790995.5

YEAR: 1968

| = 333'



Environmental
Data Resources Inc.



INQUIRY #: 1790995.5

YEAR: 1971

| = 333'



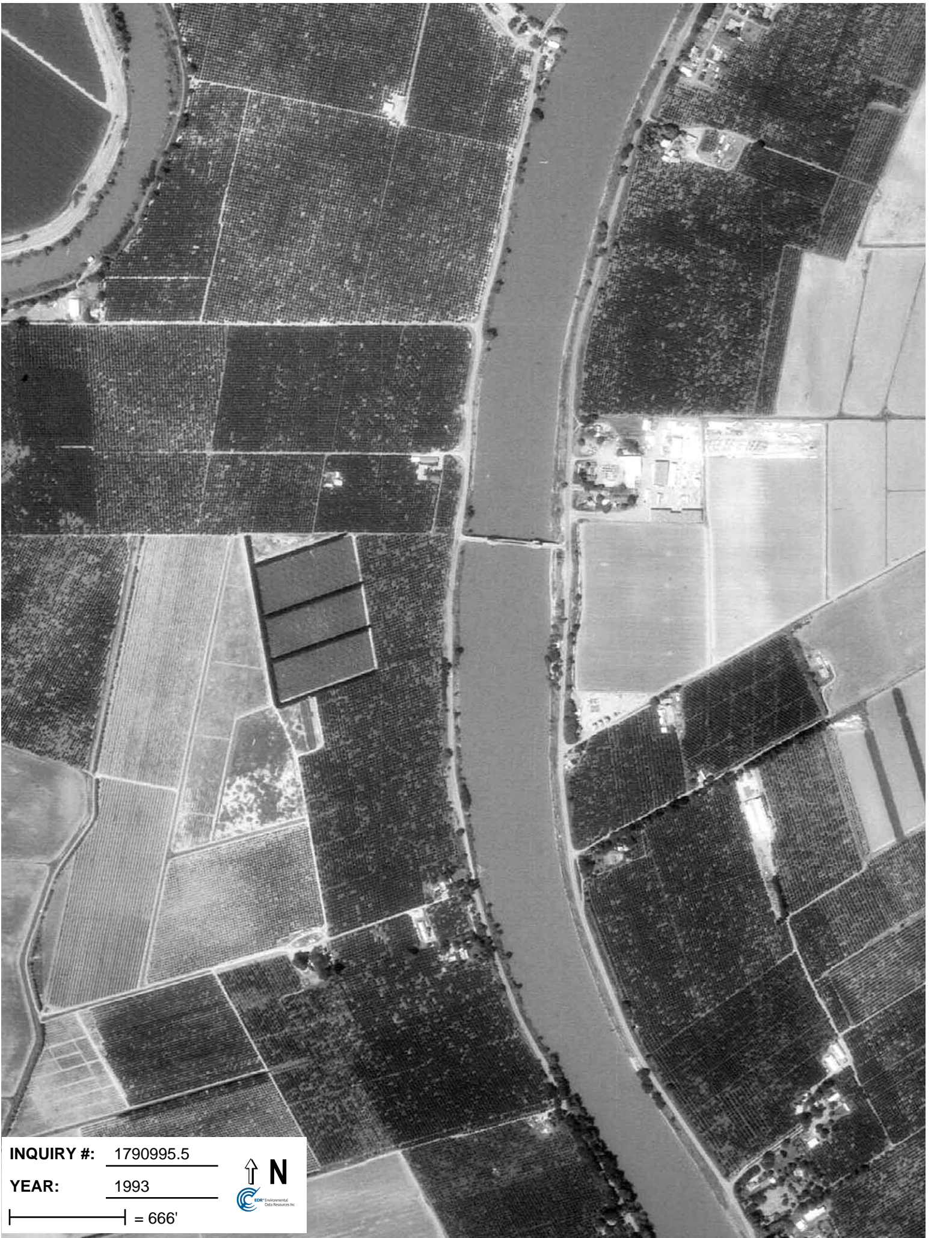


INQUIRY #: 1790995.5

YEAR: 1981

| = 333'





INQUIRY #: 1790995.5

YEAR: 1993

| = 666'





INQUIRY #: 1790995.5

YEAR: 1998

| = 666'



EDR Historical Topographic Map Report

**Sacramento River RiverMile 33.3
RiverMile 33.3
COURTLAND, CA 95615**

Inquiry Number: 1790995.4

November 07, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

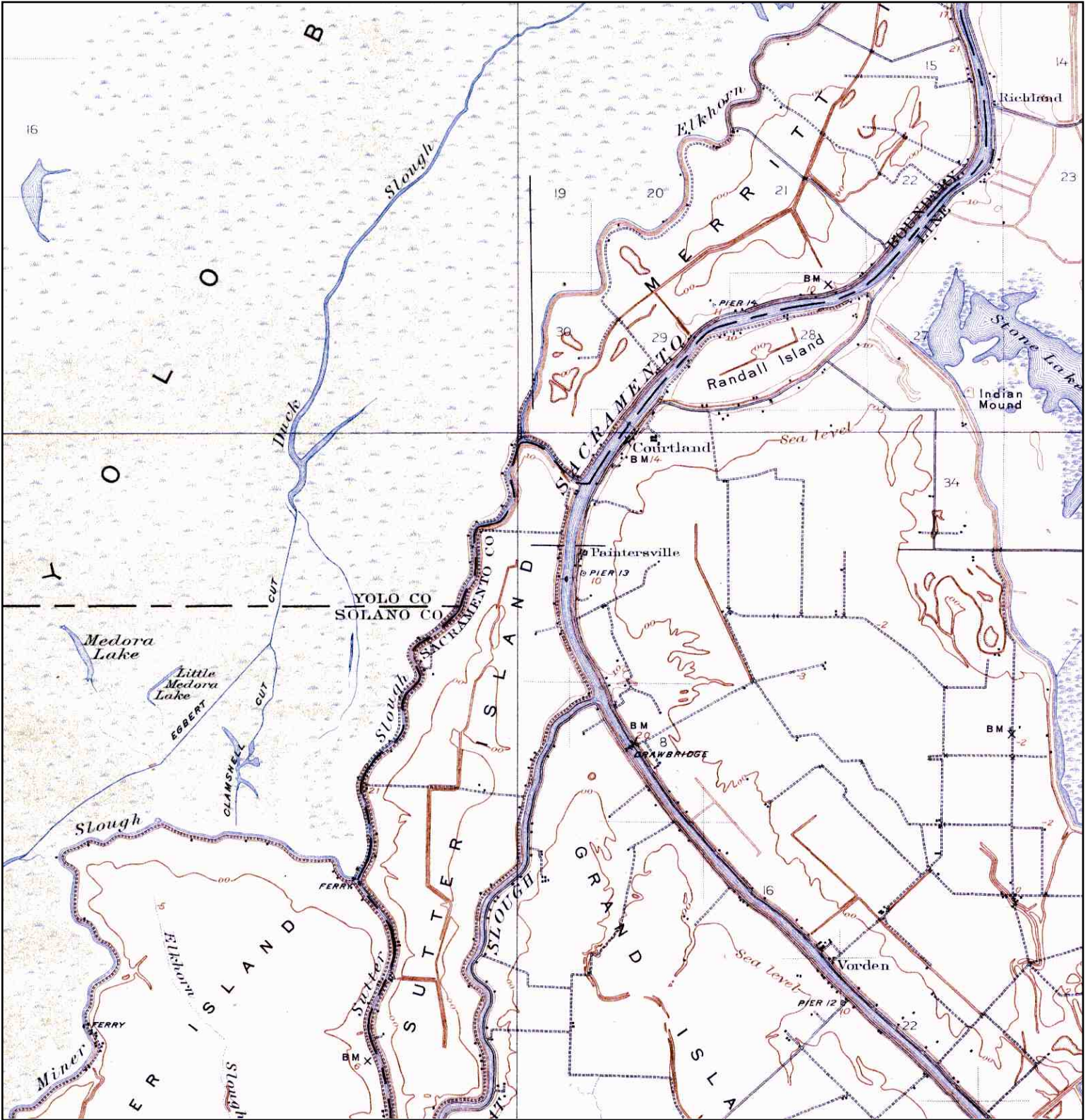
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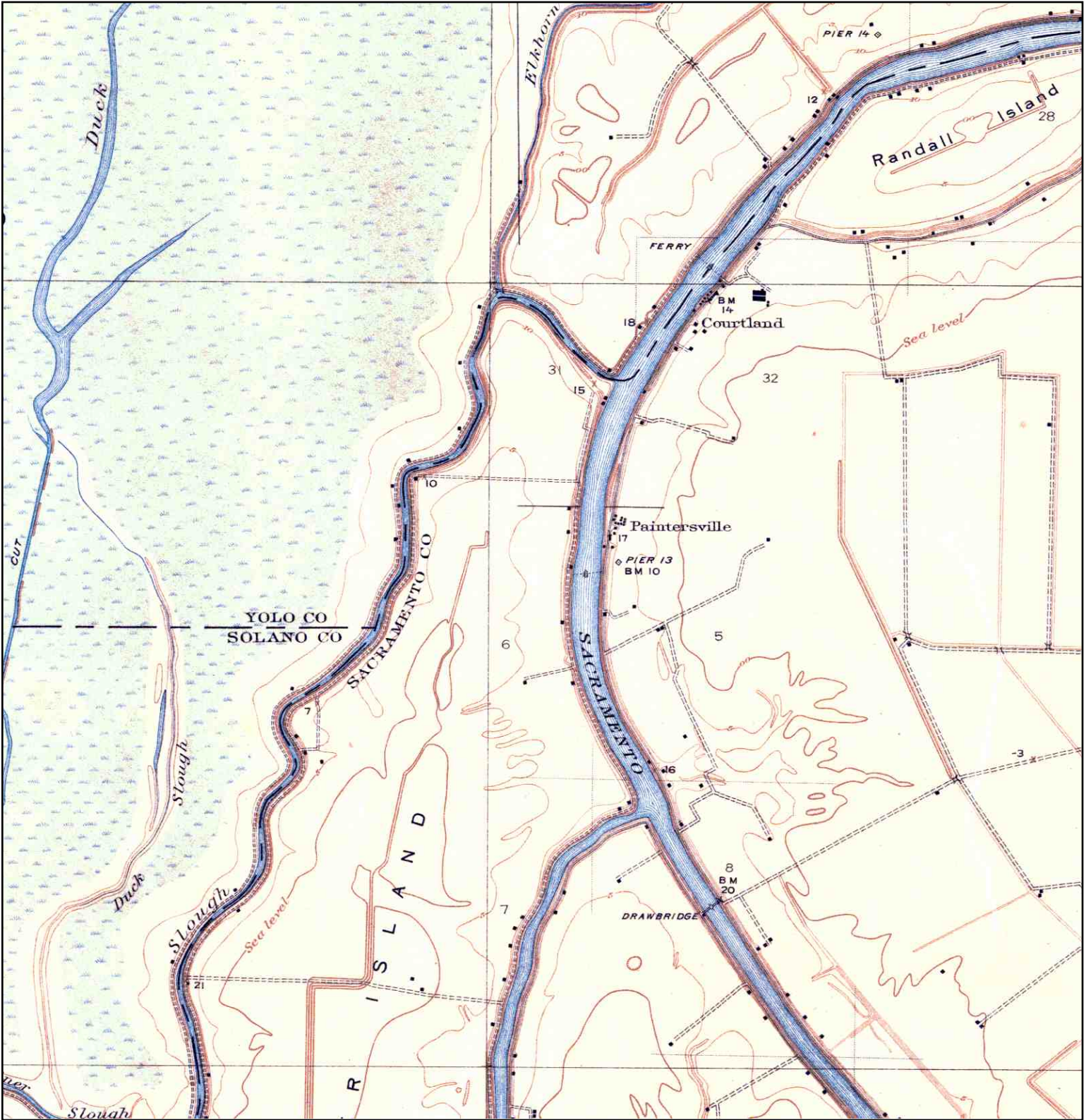
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Historical Topographic Map



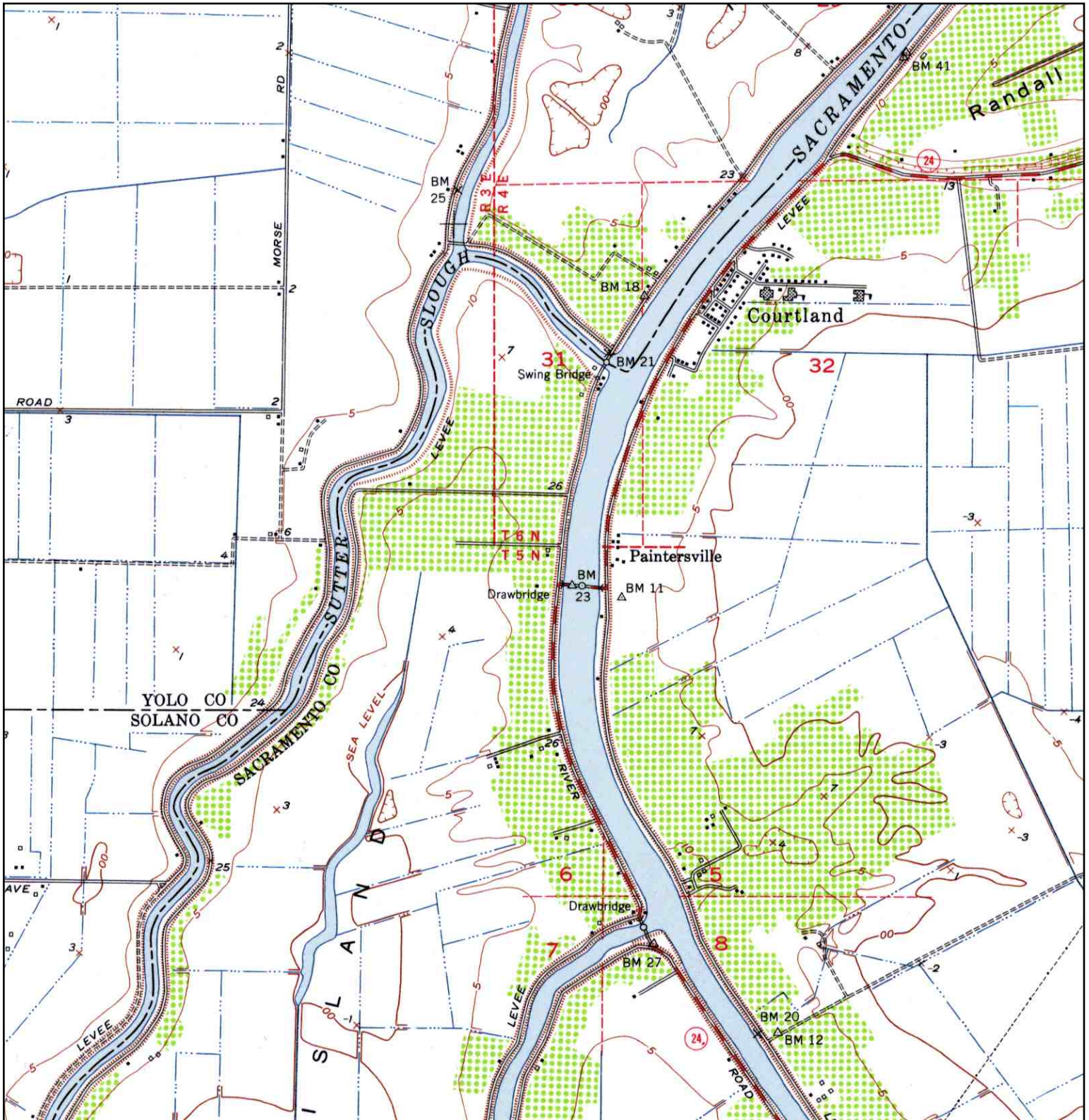
	TARGET QUAD NAME: COURTLAND MAP YEAR: 1908	SITE NAME: Sacramento River RiverMile 33.3 ADDRESS: RiverMile 33.3 COURTLAND, CA 95615 LAT/LONG: 38.3191 / 121.5785	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790995.4 RESEARCH DATE: 11/07/2006
	SERIES: 15 SCALE: 1:62500		


Historical Topographic Map



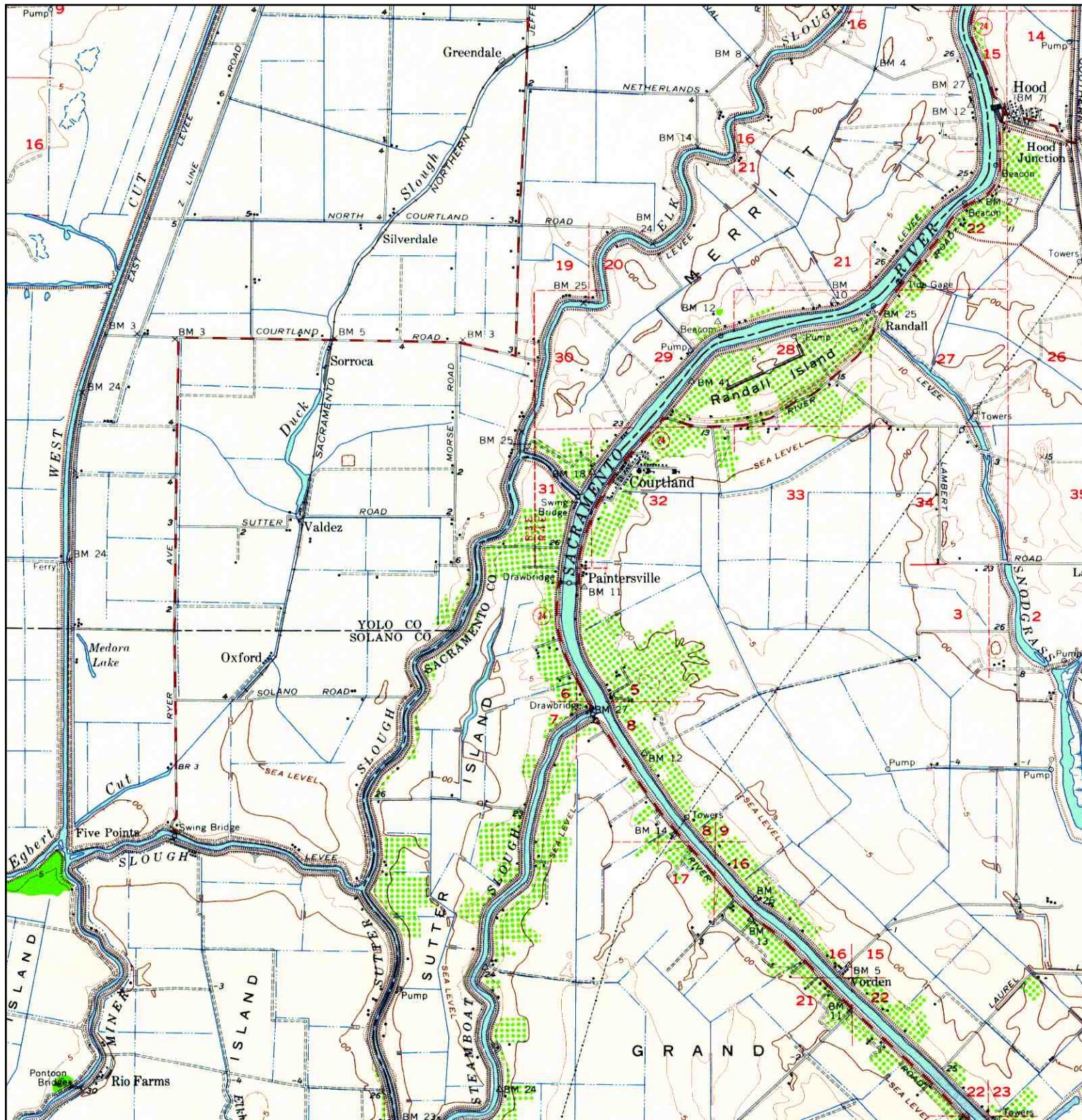
<p>N</p> 	<p>TARGET QUAD NAME: VORDEN MAP YEAR: 1916</p>	<p>SITE NAME: Sacramento River RiverMile 33.3 ADDRESS: RiverMile 33.3 COURTLAND, CA 95615</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790995.4 RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5 SCALE: 1:31680</p>	<p>LAT/LONG: 38.3191 / 121.5785</p>	

Historical Topographic Map



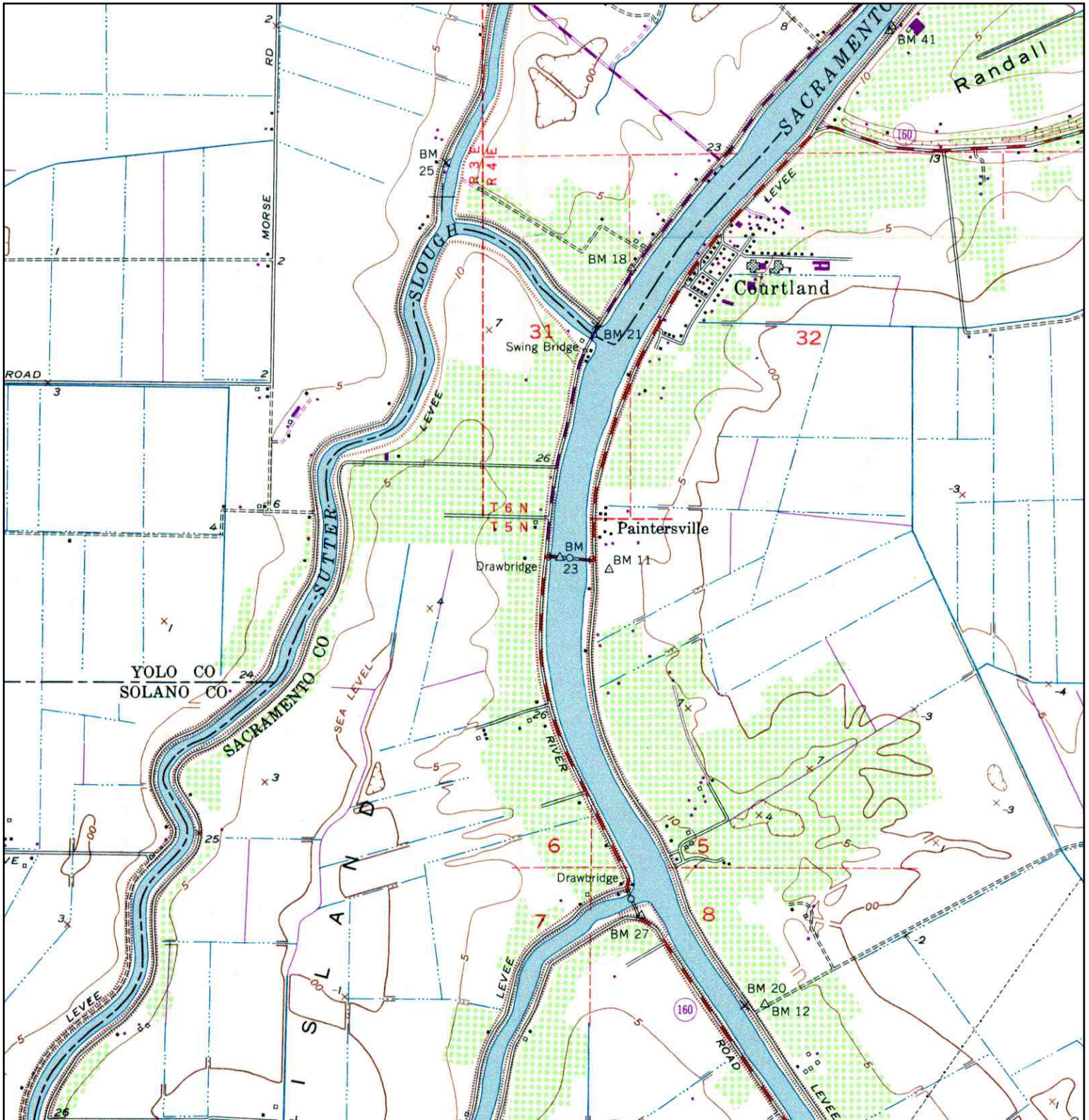
	TARGET QUAD NAME: COURTLAND MAP YEAR: 1952	SITE NAME: Sacramento River RiverMile 33.3 ADDRESS: RiverMile 33.3 COURTLAND, CA 95615 LAT/LONG: 38.3191 / 121.5785	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790995.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:24000		

Historical Topographic Map



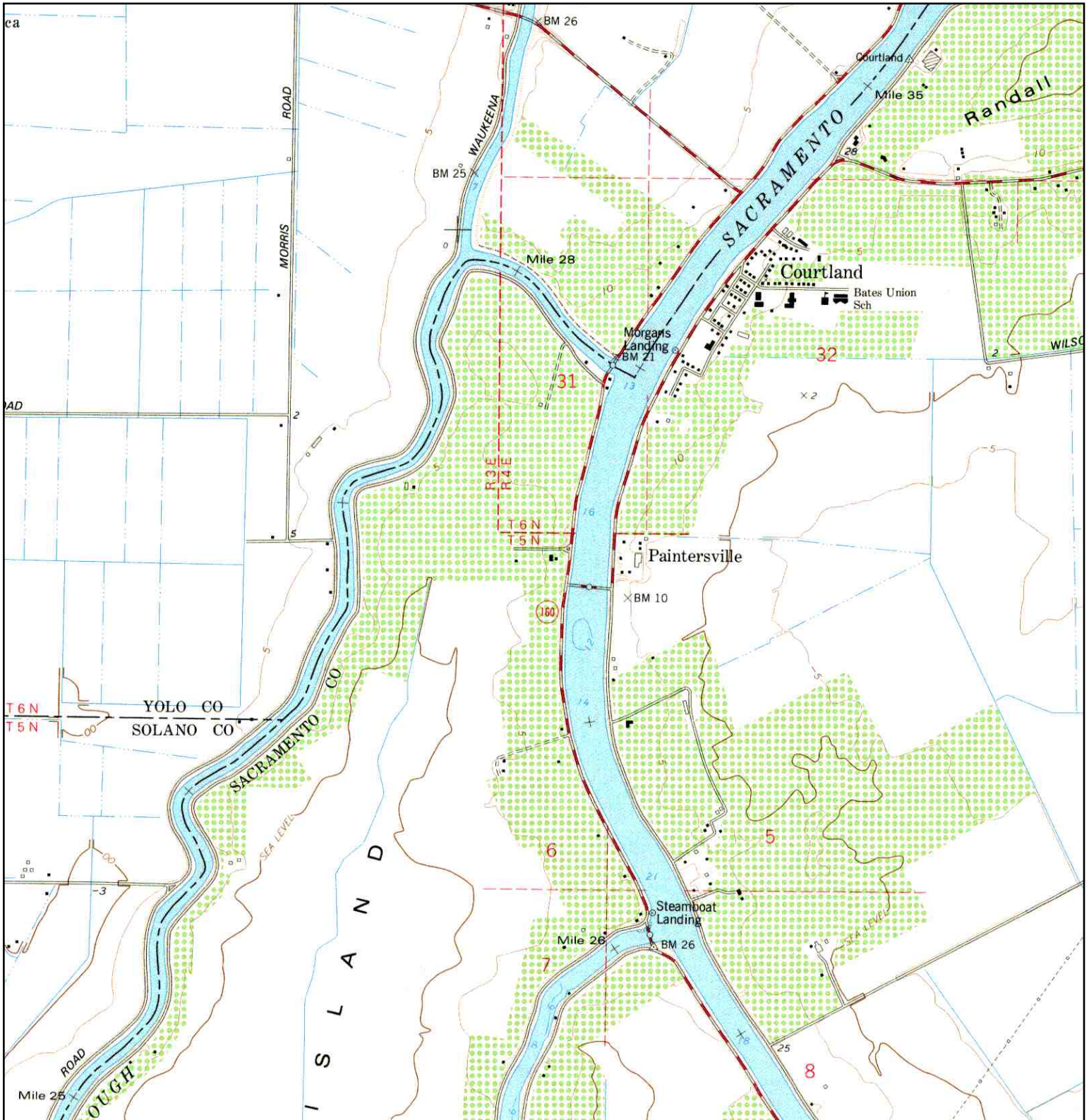
<p>N</p>	TARGET QUAD	SITE NAME:	Sacramento RiverRiverMile	CLIENT:	MECx	
	NAME: COURTLAND	33.3	CONTACT:	Robert Bell		
	MAP YEAR: 1952	ADDRESS:	RiverMile 33.3	INQUIRY#:	1790995.4	
		COURTLAND, CA 95615	LAT/LONG:	38.3191 / 121.5785	RESEARCH DATE:	11/07/2006
	SERIES: 15					
SCALE: 1:62500						


Historical Topographic Map



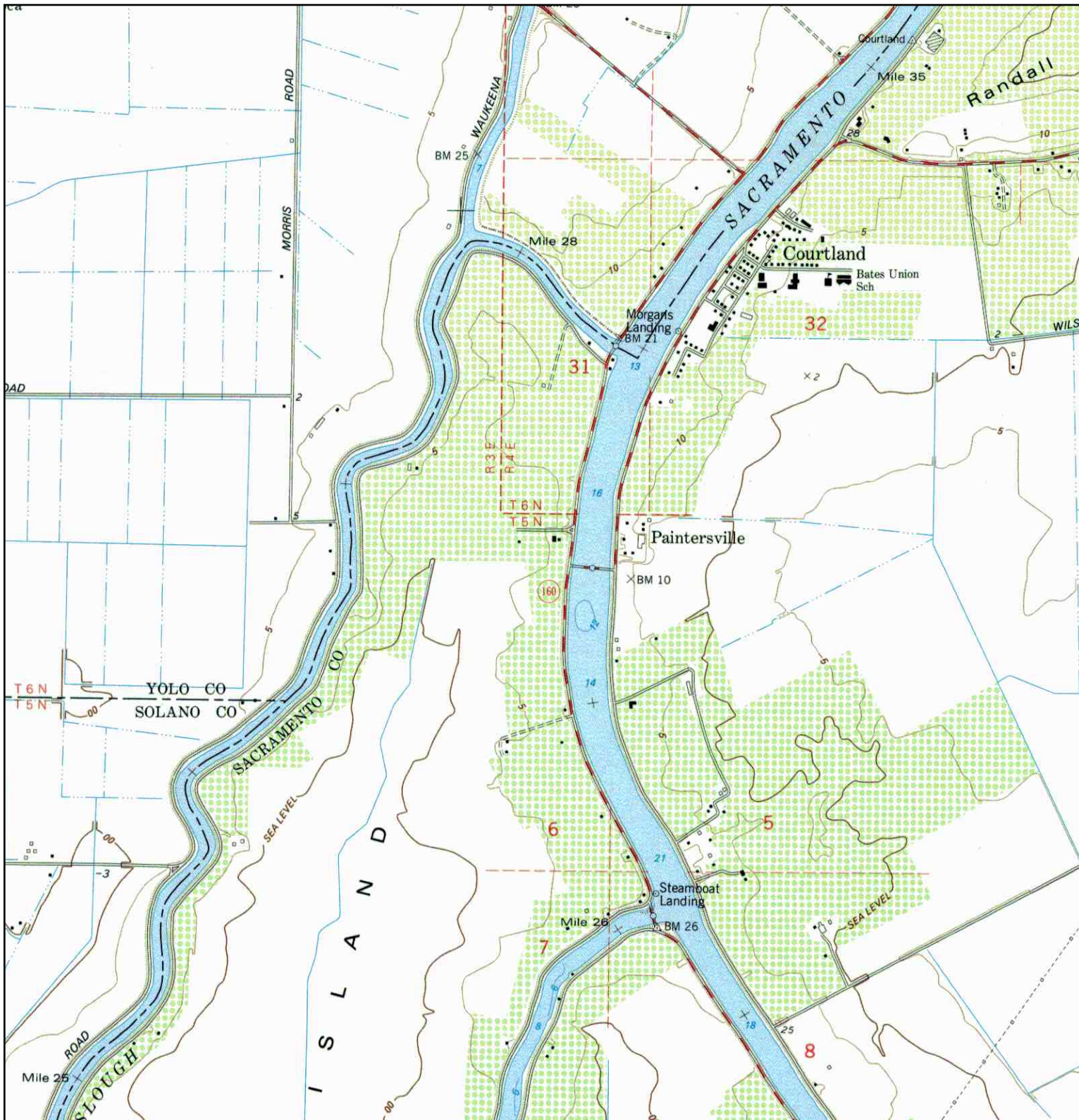
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx	
	NAME: COURTLAND	33.3		CONTACT:	Robert Bell	
	MAP YEAR: 1968	ADDRESS:	RiverMile 33.3	INQUIRY#:	1790995.4	
	PHOTOREVISED FROM: 1952	COURTLAND, CA 95615	LAT/LONG:	38.3191 / 121.5785	RESEARCH DATE:	11/07/2006
	SERIES: 7.5					
	SCALE: 1:24000					

Historical Topographic Map



	TARGET QUAD NAME: COURTLAND MAP YEAR: 1978	SITE NAME: Sacramento River RiverMile 33.3 ADDRESS: RiverMile 33.3 COURTLAND, CA 95615 LAT/LONG: 38.3191 / 121.5785	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790995.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:24000		

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx
	NAME: COURTLAND	33.3		CONTACT:	Robert Bell
	MAP YEAR: 1993	ADDRESS:	RiverMile 33.3	INQUIRY#:	1790995.4
	REVISED FROM: 1978	COURTLAND, CA 95615		RESEARCH DATE:	11/07/2006
	SERIES: 7.5	LAT/LONG:	38.3191 / 121.5785		
	SCALE: 1:24000				

APPENDIX G

**EDR REPORT FOR SAC43.7R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 43.7
RiverMile 43.7
CLARKSBURG, CA 95612**

Inquiry Number: 1790936.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 43.7
CLARKSBURG, CA 95612

COORDINATES

Latitude (North): 38.435700 - 38° 26' 8.5"
Longitude (West): 121.525000 - 121° 31' 30.0"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 628737.6
UTM Y (Meters): 4254982.0
Elevation: 4 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRA-TSDF..... Resource Conservation and Recovery Act Information
RCRA-LQG..... Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
----------------------	---------------------

EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

CA ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 08/02/2006 has revealed that there is 1 Sacramento Co. ML site within approximately 0.25 miles of the target property.

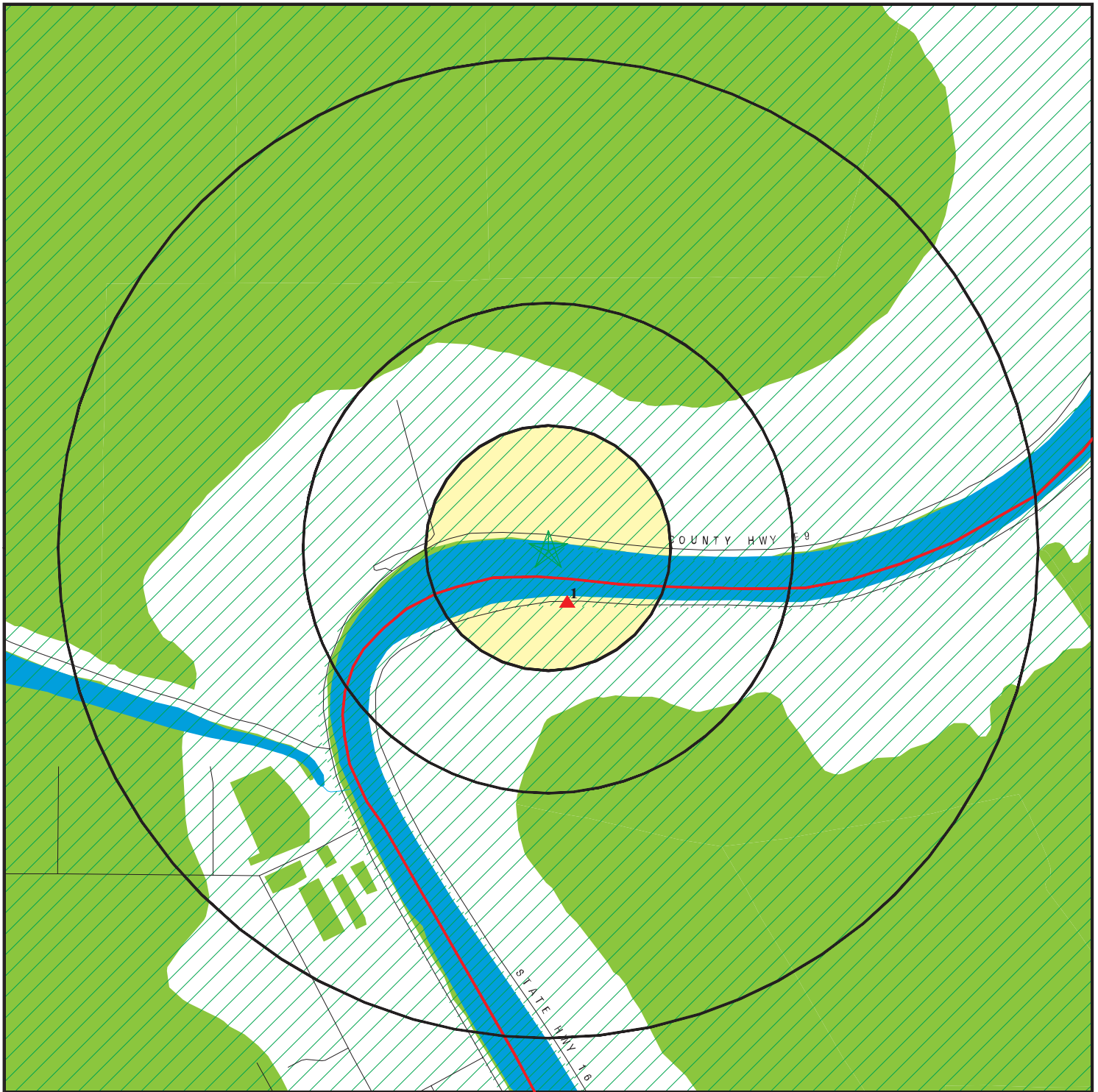
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MARK SOMBNER	9181 RIVER RD	0 - 1/8 SSE	1	6

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
SIMPLOT CLARKSBURG	LUST, Cortese
SHORTER'S CORNER	UST
LEE & GINNY'S ISLAND MARINA R	UST
MARY PETERS ESTATE PUMP HOUSE	UST
MARY PETERS ESTATE PUMP HOUSE	UST
J R SIMPLOT CO	UST
BORGES CLARKSBURG AIRPORT	UST
GARTER RANCH	HIST UST
CAVANAUGH GOLF MAINTENANCE YD.	AST
RIVER AUTO BODY	Sacramento Co. ML
RIVER DELTA COGENERATION	EMI

OVERVIEW MAP - 1790936.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

- Areas of Concern

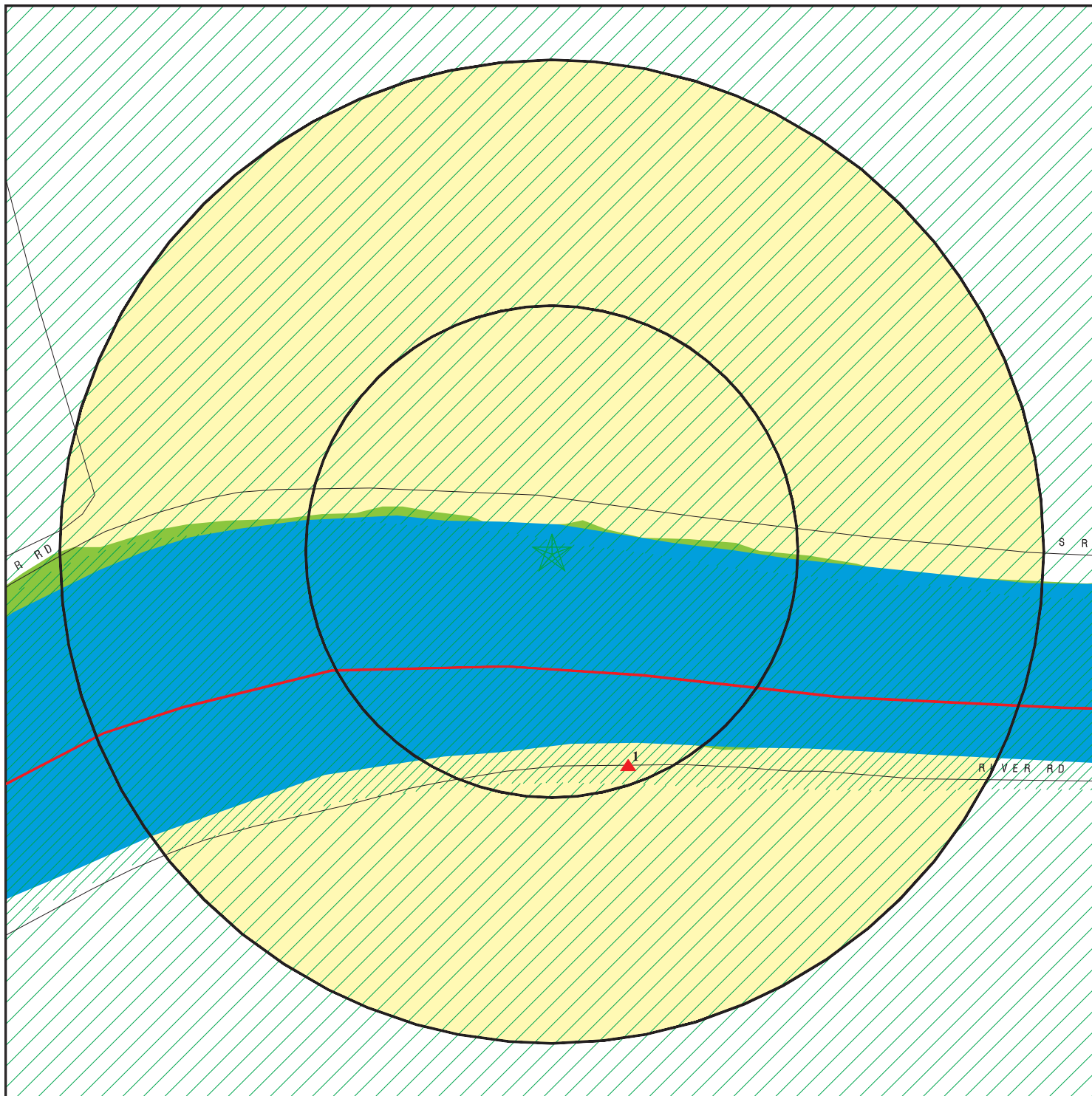


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 43.7
 ADDRESS: RiverMile 43.7
 CLARKSBURG CA 95612
 LAT/LONG: 38.4357 / 121.5250

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790936.2s
 DATE: November 07, 2006 10:49 am

DETAIL MAP - 1790936.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites



- Indian Reservations BIA
- Areas of Concern
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 43.7
 ADDRESS: RiverMile 43.7
 CLARKSBURG CA 95612
 LAT/LONG: 38.4357 / 121.5250

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790936.2s
 DATE: November 07, 2006 10:49 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Sacramento Co. ML RESPONSE		0.250	1	0	NR	NR	NR	1
HAZNET	TP	1.000	0	0	0	0	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

1
SSE
< 1/8
608 ft.

MARK SOMBNER
9181 RIVER RD
SACRA, CA 95832

Sacramento Co. ML

S105271361
N/A

Relative:
Higher

Sacramento Co. ML:

Actual:
10 ft.

FD:	E
Billing Codes BP:	Farm-No Fee
Billing Codes UST:	Farm-No Fee
WG Bill Code:	Farm-No Fee
Target Property Bill Cod:	50
Food Bill Code:	53
CUPA Permit Date:	Not reported
HAZMAT Permit Date:	Not reported
HAZMAT Inspection Date:	Not reported
Hazmat Date BP Received:	Not reported
UST Permit Dt:	Not reported
UST Inspection Date:	Not reported
UST Tank Test Date:	Not reported
Number of Tanks:	0
Facility Id:	Not reported
UST Tank Test Date:	Not reported
SIC Code:	Not reported
Tier Permitting:	Not reported
Risk Mgmt Protection Program:	Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLARKSBURG	S106838320	RIVER DELTA COGENERATION	ROUTE 1	95612	EMI
CLARKSBURG	U003850953	SHORTER'S CORNER	RT 1 BOX 162	95612	UST
CLARKSBURG	U003895677	LEE & GINNY'S ISLAND MARINA R	RT 1 BOX 118	95612	UST
CLARKSBURG	U003785742	MARY PETERS ESTATE PUMP HOUSE	CORNER OF RIVER RD	95612	UST
CLARKSBURG	U004003790	MARY PETERS ESTATE PUMP HOUSE	S CORNER OF RIVER RD	95612	UST
CLARKSBURG	S105023303	SIMPLOT CLARKSBURG	COURTLAND RD / HWY 84 S	95612	LUST, Cortese
CLARKSBURG	U004003745	J R SIMPLOT CO	COURTLAND & HWY 84	95612	UST
CLARKSBURG	U001612478	GARTER RANCH	SOUTH RIVER ROAD	95612	HIST UST
CLARKSBURG	U003850790	BORGES CLARKSBURG AIRPORT	S RIVER RD	95612	UST
FREEPORT	A100281697	CAVANAUGH GOLF MAINTENANCE YD.	8325 RIVER RD.	95832	AST
SACRAMENTO	S107770006	RIVER AUTO BODY	7981 FREEPORT BLVD	95832	Sacramento Co. ML

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 08/15/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005
Date Data Arrived at EDR: 04/18/2005
Date Made Active in Reports: 05/06/2005
Number of Days to Update: 18

Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006
Date Data Arrived at EDR: 05/17/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 29

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003
Date Data Arrived at EDR: 10/11/2005
Date Made Active in Reports: 10/31/2005
Number of Days to Update: 20

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 09/14/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 04/14/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 27

Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 43.7
RIVERMILE 43.7
CLARKSBURG, CA 95612

TARGET PROPERTY COORDINATES

Latitude (North): 38.43570 - 38° 26' 8.5"
Longitude (West): 121.525 - 121° 31' 30.0"
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 628737.6
UTM Y (Meters): 4254982.0
Elevation: 4 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

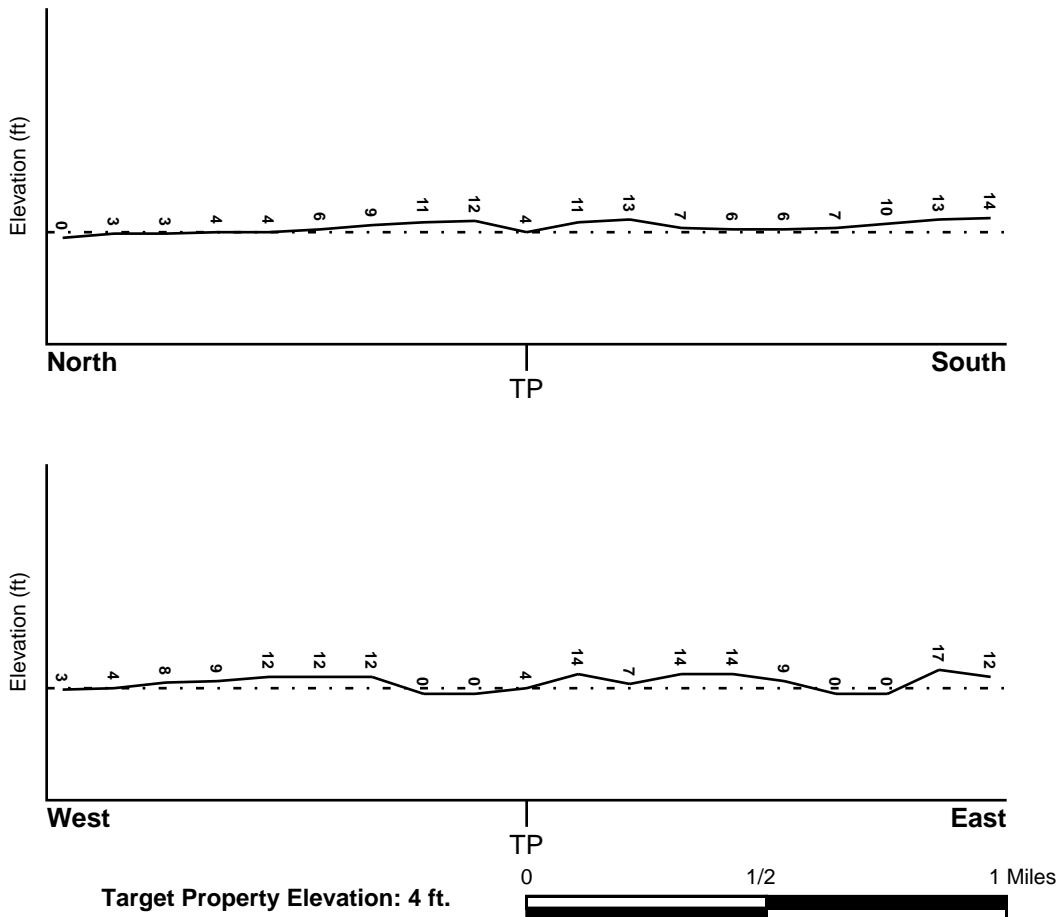
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u>	<u>FEMA Flood Electronic Data</u>
YOLO, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0604230670D

Additional Panels in search area: 0604230660C
0602620285D
0602620295C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
CLARKSBURG	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

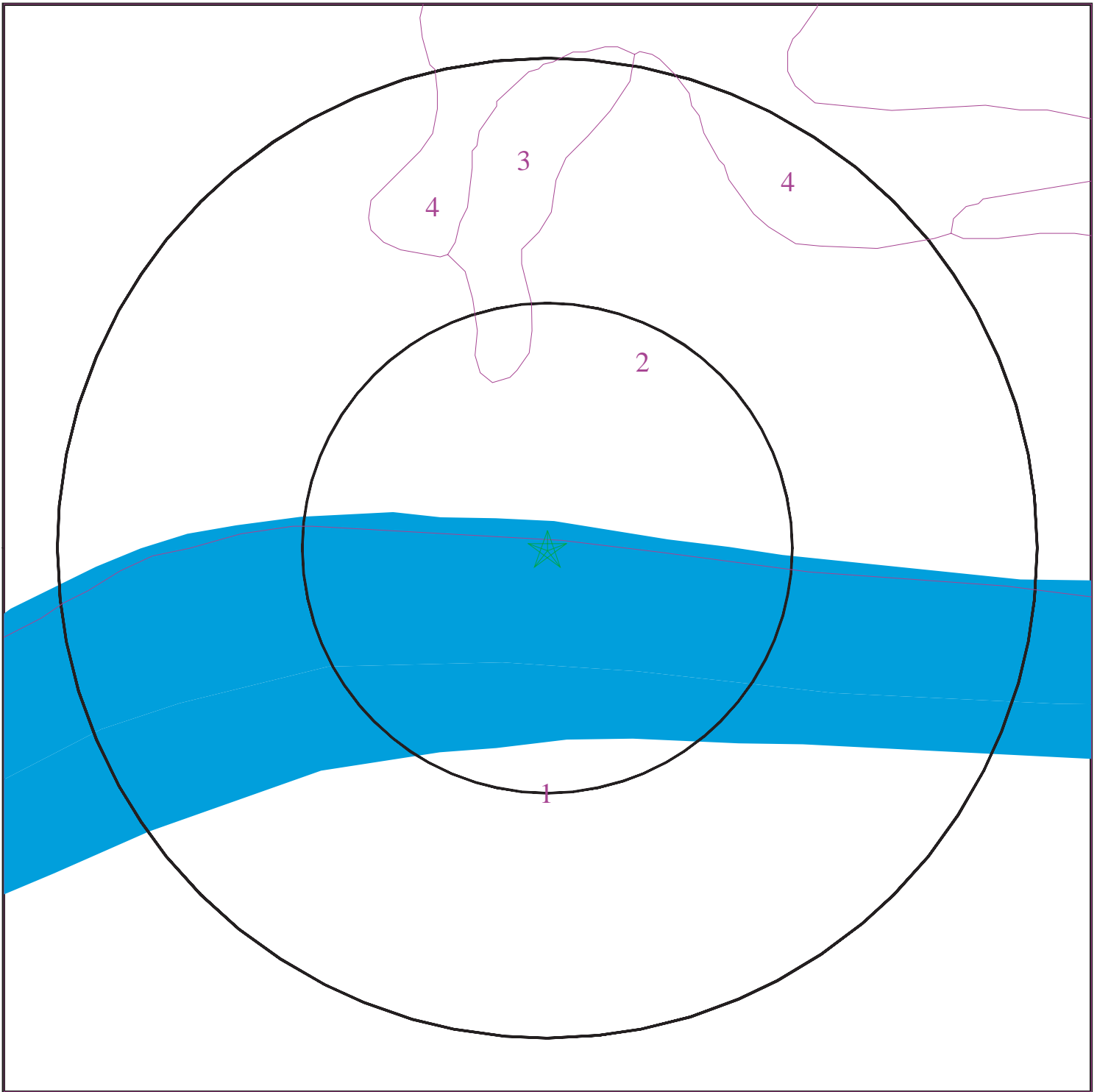
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790936.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: Sacramento River RiverMile 43.7
ADDRESS: RiverMile 43.7
CLARKSBURG CA 95612
LAT/LONG: 38.4357 / 121.5250

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790936.2s
DATE: November 07, 2006 10:49 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER
Soil Surface Texture: Not reported
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: SYCAMORE
Soil Surface Texture: silt loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	14 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

Soil Map ID: 3

Soil Component Name: LANG

Soil Surface Texture: sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	6 inches	sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 6.50 Min: 5.10

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	6 inches	47 inches	stratified	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 20.00 Min: 6.00	Max: 7.30 Min: 6.10
3	47 inches	85 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.30 Min: 6.60

Soil Map ID: 4

Soil Component Name: TYNDALL

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	16 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 9.00 Min: 7.40
3	40 inches	60 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 7.90

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3226575	1/8 - 1/4 Mile SSE
2	USGS3226584	1/4 - 1/2 Mile East
3	USGS3226571	1/2 - 1 Mile WSW
A4	USGS3226539	1/2 - 1 Mile SSW
A5	USGS3226537	1/2 - 1 Mile SSW
6	USGS3226579	1/2 - 1 Mile East

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

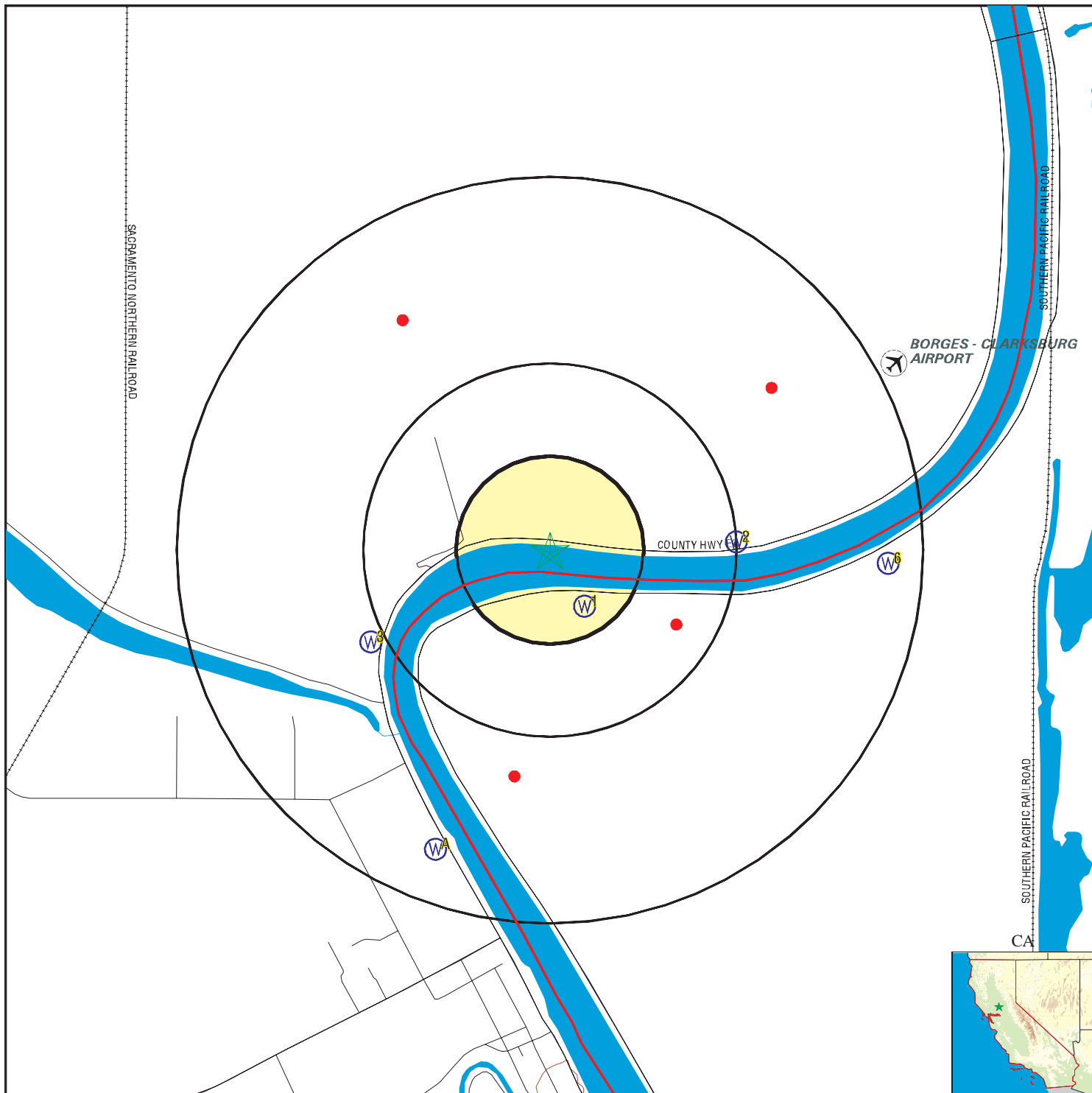
OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

DISTANCE
FROM TP (Miles)
1/2 - 1 Mile NNW
1/4 - 1/2 Mile ESE

DISTANCE
FROM TP (Miles)
1/2 - 1 Mile NE
1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 1790936.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Sacramento River RiverMile 43.7
 ADDRESS: RiverMile 43.7
 CLARKSBURG CA 95612
 LAT/LONG: 38.4357 / 121.5250

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790936.2s
 DATE: November 07, 2006 10:49 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
SSE
1/8 - 1/4 Mile
Higher

FED USGS USGS3226575

Agency cd:	USGS	Site no:	382601121312001
Site name:	007N004E27A001M		
Latitude:	382601		
Longitude:	1213120	Dec lat:	38.43352021
Dec lon:	-121.52328838	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19780125
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	141	Hole depth:	160
Source of depth data:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data begin date:	Not Reported		
Daily flow data end date:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data begin date:	Not Reported		
Water quality data end date:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

2
East
1/4 - 1/2 Mile
Higher

FED USGS USGS3226584

Agency cd:	USGS	Site no:	382610121305301
Site name:	007N004E26D001M		
Latitude:	382610		
Longitude:	1213053	Dec lat:	38.43602014
Dec lon:	-121.51578825	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19710408
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	RIVER CHANNEL DEPOSITS		
Well depth:	94.0	Hole depth:	100
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-08-27
Water quality data end date:	1981-08-27	Water quality data count:	1
Ground water data begin date:	1981-02-17	Ground water data end date:	1981-02-17
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1981-02-17	9.15	

3
WSW
1/2 - 1 Mile
Higher

FED USGS USGS3226571

Agency cd:	USGS	Site no:	382556121315801
Site name:	007N004E27E002M		
Latitude:	382556		
Longitude:	1213158	Dec lat:	38.43213135
Dec lon:	-121.53384414	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19750101
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	151	Hole depth:	166
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1975-01-01	Ground water data end date:	1975-01-01
Ground water data count:	1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1975-01-01	12.00	

A4
SSW
1/2 - 1 Mile
Higher

FED USGS USGS3226539

Agency cd:	USGS	Site no:	382528121314701
Site name:	007N004E27P003M		
Latitude:	382528		
Longitude:	1213147	Dec lat:	38.42435381
Dec lon:	-121.53078845	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	11.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19690208
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	138	Hole depth:	162
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1981-02-17	Ground water data end date:	1981-02-17
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1981-02-17	14.1	

A5
SSW
1/2 - 1 Mile
Higher

FED USGS USGS3226537

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	382526121314601
Site name:	007N004E27P002M		
Latitude:	382526		
Longitude:	1213146	Dec lat:	38.42379827
Dec lon:	-121.53051066	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	11.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19700209
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	144	Hole depth:	162
Source of depth data:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data begin date:	Not Reported		
Daily flow data end date:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data end date:	Not Reported		
Water quality data count:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

6
East
1/2 - 1 Mile
Higher

FED USGS USGS3226579

Agency cd:	USGS	Site no:	382607121302601
Site name:	007N004E26B001M		
Latitude:	382607		
Longitude:	1213026	Dec lat:	38.43518684
Dec lon:	-121.50828808	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	10.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19781206
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	142	Hole depth:	155
Source of depth data:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data begin date:	Not Reported		
Daily flow data end date:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data end date:	Not Reported		
Water quality data count:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data count:	Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: Not Reported
Water quality data end date: Not Reported
Ground water data begin date: Not Reported
Ground water data count: Not Reported

Water quality data begin date: Not Reported
Water quality data count: Not Reported
Ground water data end date: Not Reported

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NNW
1/2 - 1 Mile

OIL_GAS CA10181876

Apinumber:	11300218	Operator:	Richard S. Rheem, Operator
Lease:	Cowell	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.44472		
Longitude:	-121.53121		
Td:	7075	Sec:	22
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NE
1/2 - 1 Mile

OIL_GAS CA10181862

Apinumber:	11300219	Operator:	Richard S. Rheem, Operator
Lease:	Kirtlan Community	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.44209		
Longitude:	-121.51299		
Td:	7482	Sec:	23
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

ESE
1/4 - 1/2 Mile

OIL_GAS CA10181801

Apinumber:	06700001	Operator:	UMC Petroleum Corp.
Lease:	Scribner	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.4329		
Longitude:	-121.51769		
Td:	7938	Sec:	27
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

South
1/2 - 1 Mile

OIL_GAS CA10181761

Apinumber:	06700314	Operator:	Rocky Mountain Drilling Co.
Lease:	Murdoch	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.427		
Longitude:	-121.52569		
Td:	11646	Sec:	27
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spuddate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95612	2	0	0.00

Federal EPA Radon Zone for YOLO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95612

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.800 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 43.7
RiverMile 43.7
CLARKSBURG, CA 95612**

Inquiry Number: 1790936.5

November 07, 2006



The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 43.7

CLARKSBURG, CA 95612

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790936.5

YEAR: 1952

| = 555'





INQUIRY #: 1790936.5

YEAR: 1961

| = 555'





INQUIRY #: 1790936.5

YEAR: 1971

| = 333'





INQUIRY #: 1790936.5

YEAR: 1981

| = 333'





INQUIRY #: 1790936.5

YEAR: 1993

| = 666'





INQUIRY #: 1790936.5

YEAR: 1998

| = 666'



EDR Historical Topographic Map Report

**Sacramento River RiverMile 43.7
RiverMile 43.7
CLARKSBURG, CA 95612**

Inquiry Number: 1790936.4

November 07, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
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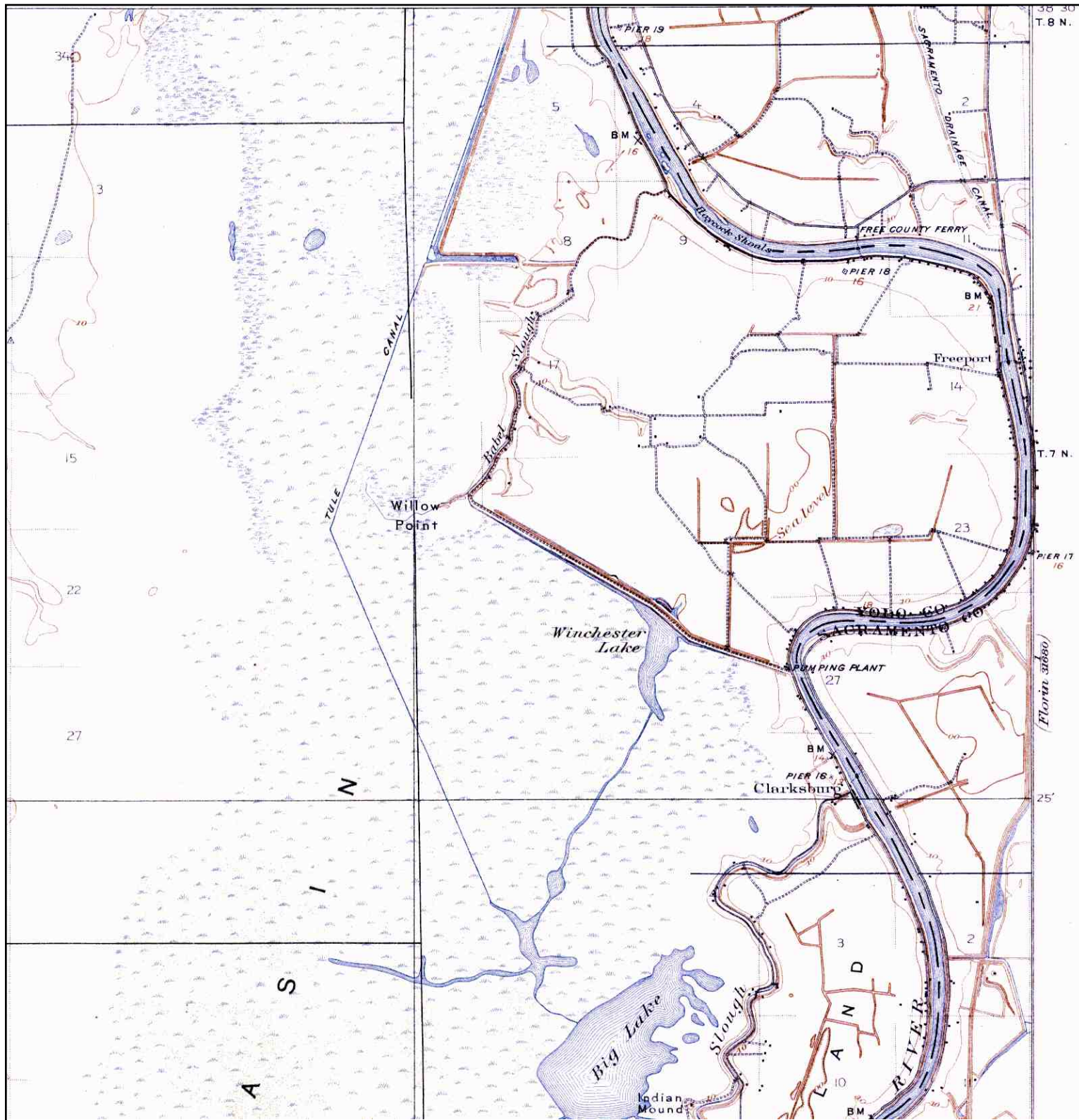
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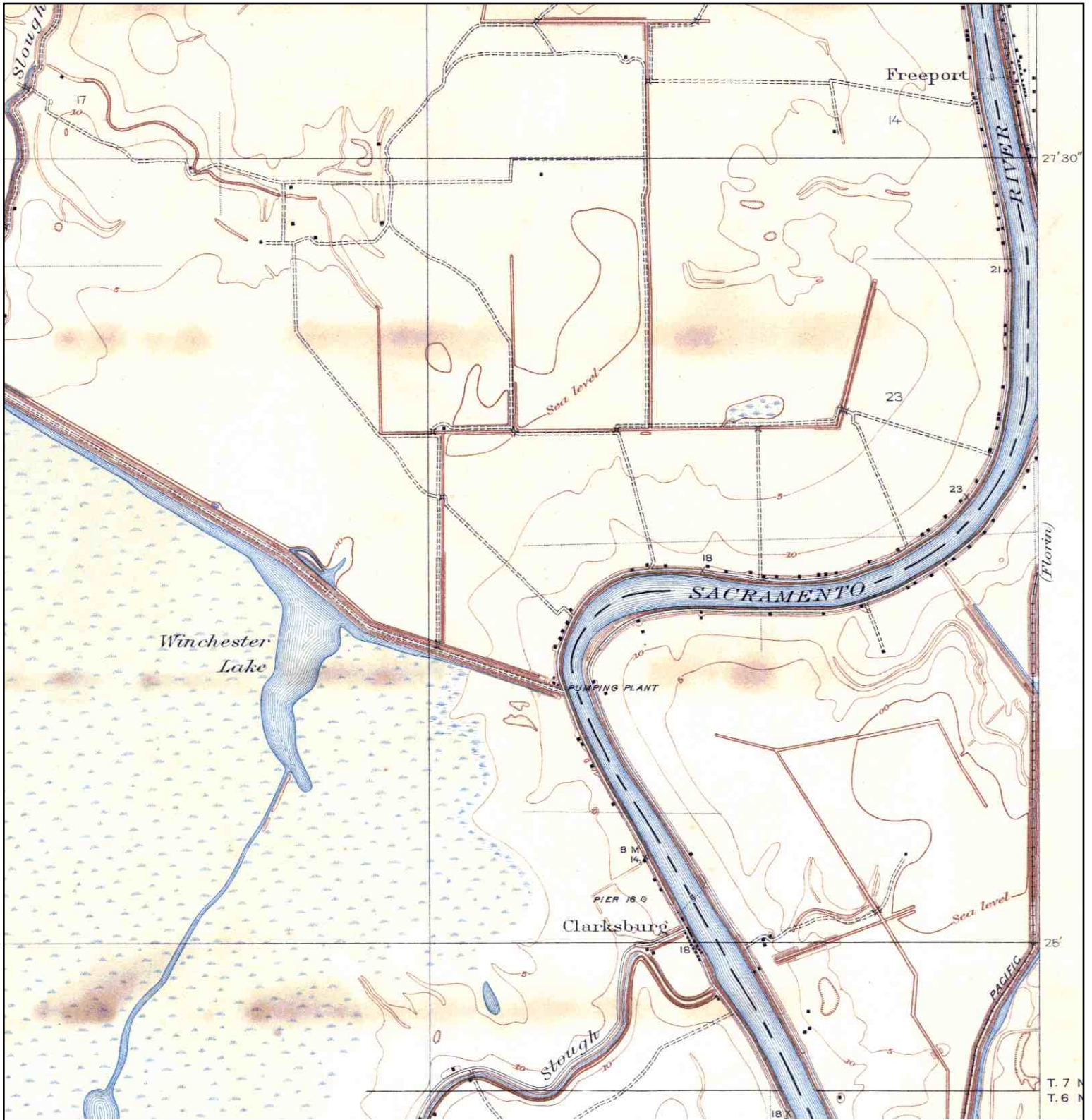
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Historical Topographic Map



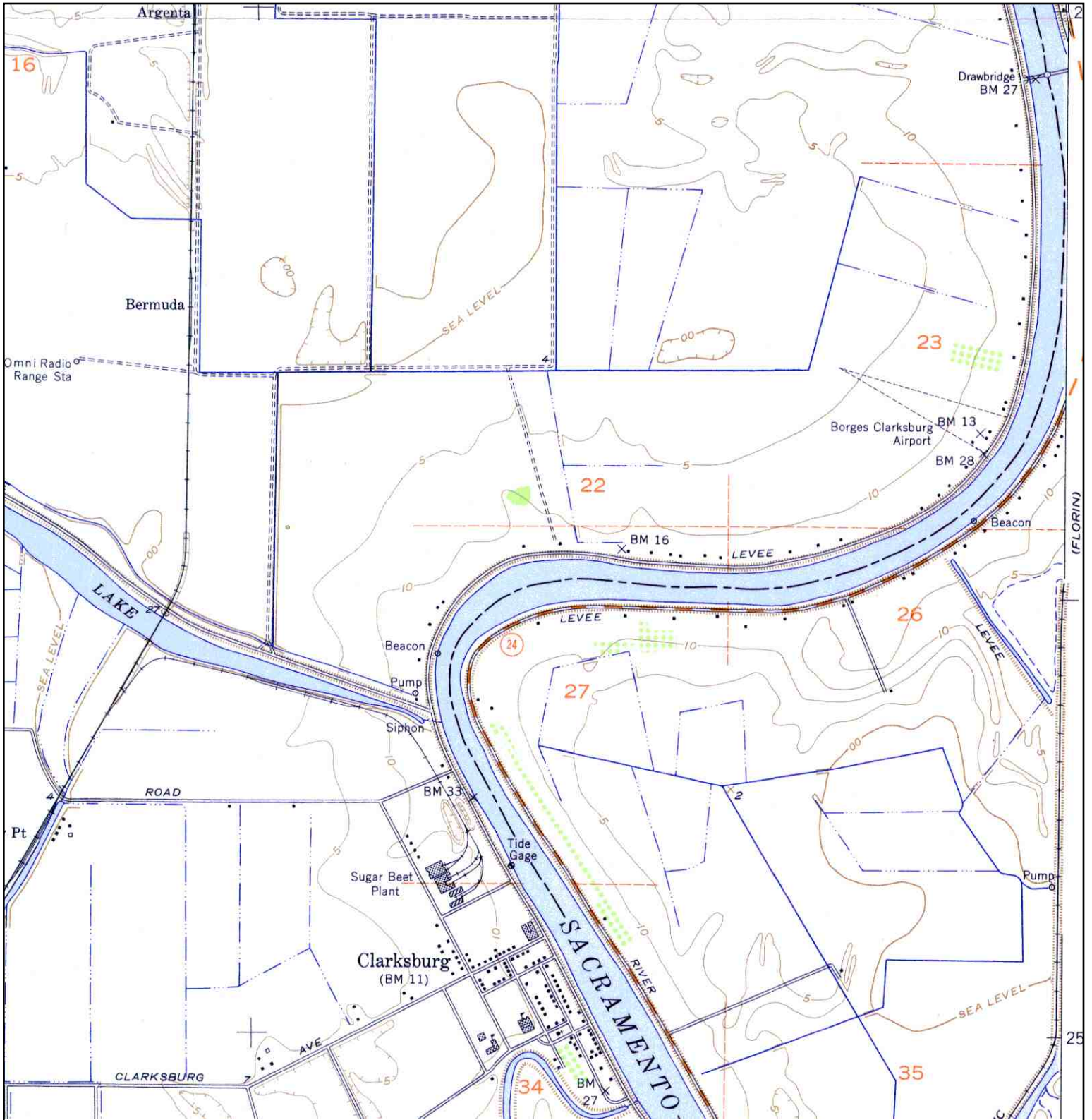
	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: COURTLAND	Sacramento River RiverMile 43.7	MECx
	MAP YEAR: 1908	ADDRESS: RiverMile 43.7 CLARKSBURG, CA 95612	CONTACT: Robert Bell
	SERIES: 15	LAT/LONG: 38.4357 / 121.525	INQUIRY#: 1790936.4
	SCALE: 1:62500		RESEARCH DATE: 11/07/2006

Historical Topographic Map



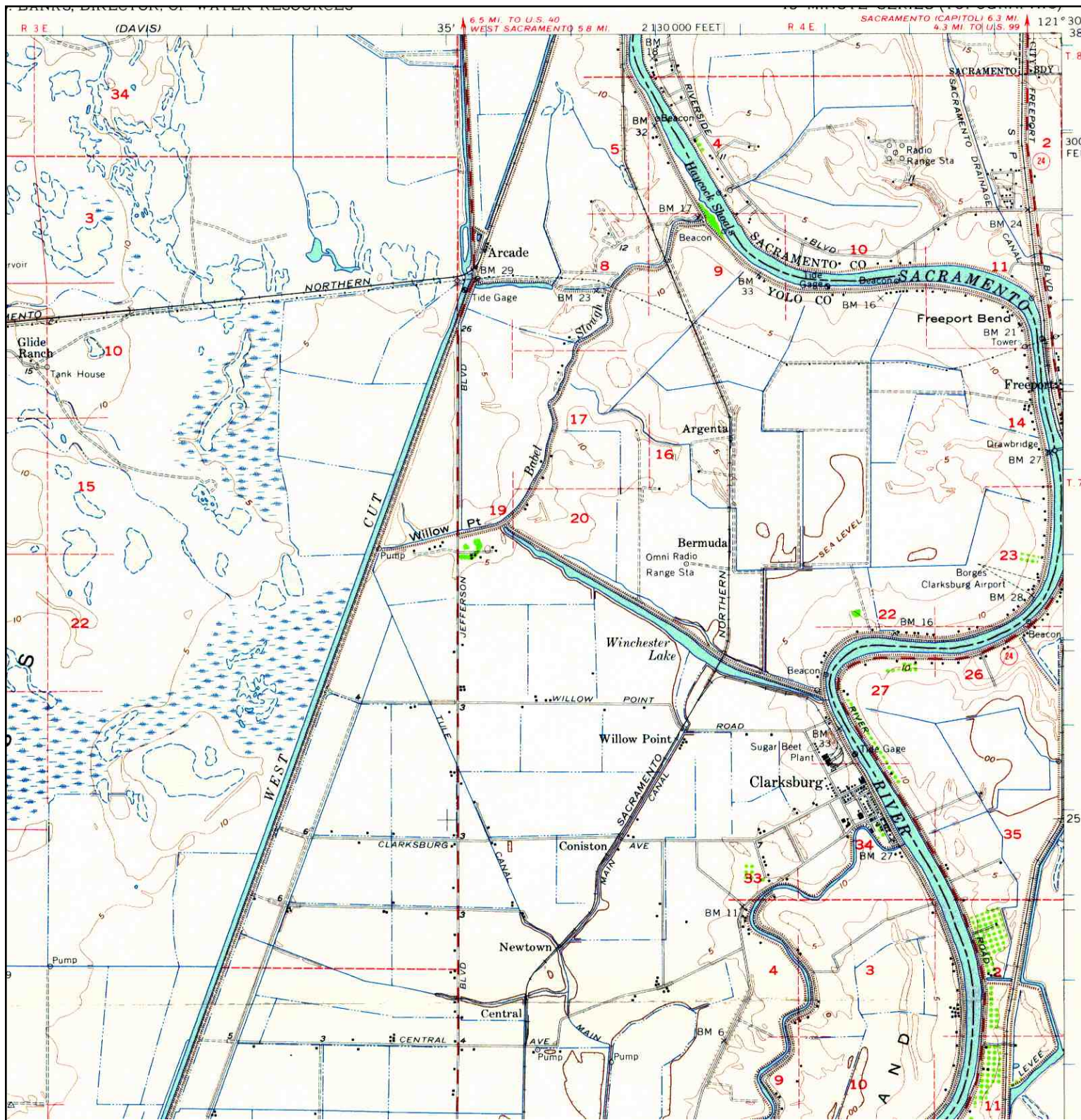
	TARGET QUAD NAME: BABEL SLOUGH MAP YEAR: 1916	SITE NAME: Sacramento River RiverMile 43.7 ADDRESS: RiverMile 43.7 CLARKSBURG, CA 95612 LAT/LONG: 38.4357 / 121.525	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790936.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:31680		


Historical Topographic Map



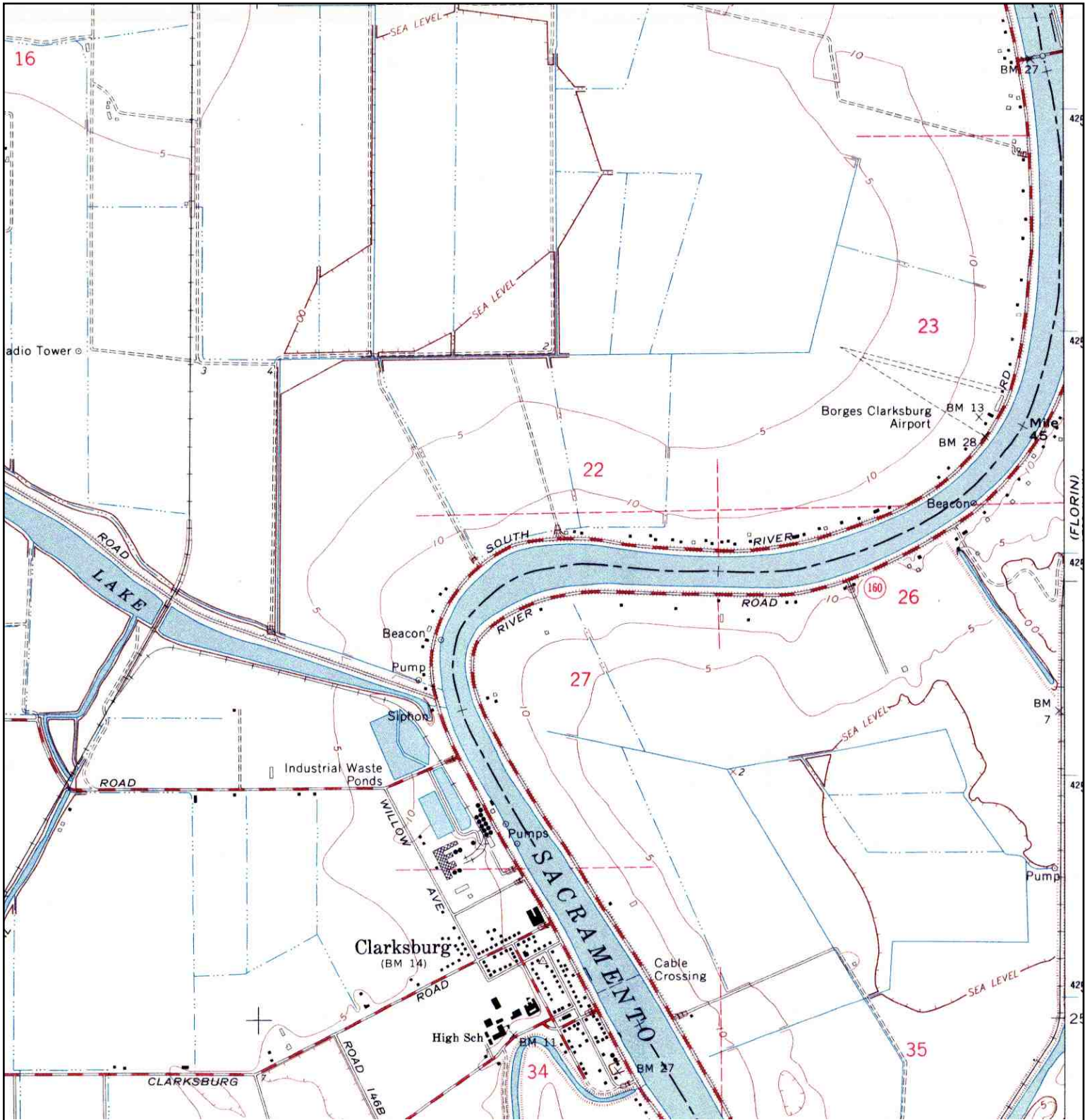
<p>N ↑</p>	<p>TARGET QUAD NAME: CLARKSBURG MAP YEAR: 1952</p>	<p>SITE NAME: Sacramento River RiverMile 43.7 ADDRESS: RiverMile 43.7 CLARKSBURG, CA 95612</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790936.4 RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>	<p>LAT/LONG: 38.4357 / 121.525</p>	


Historical Topographic Map



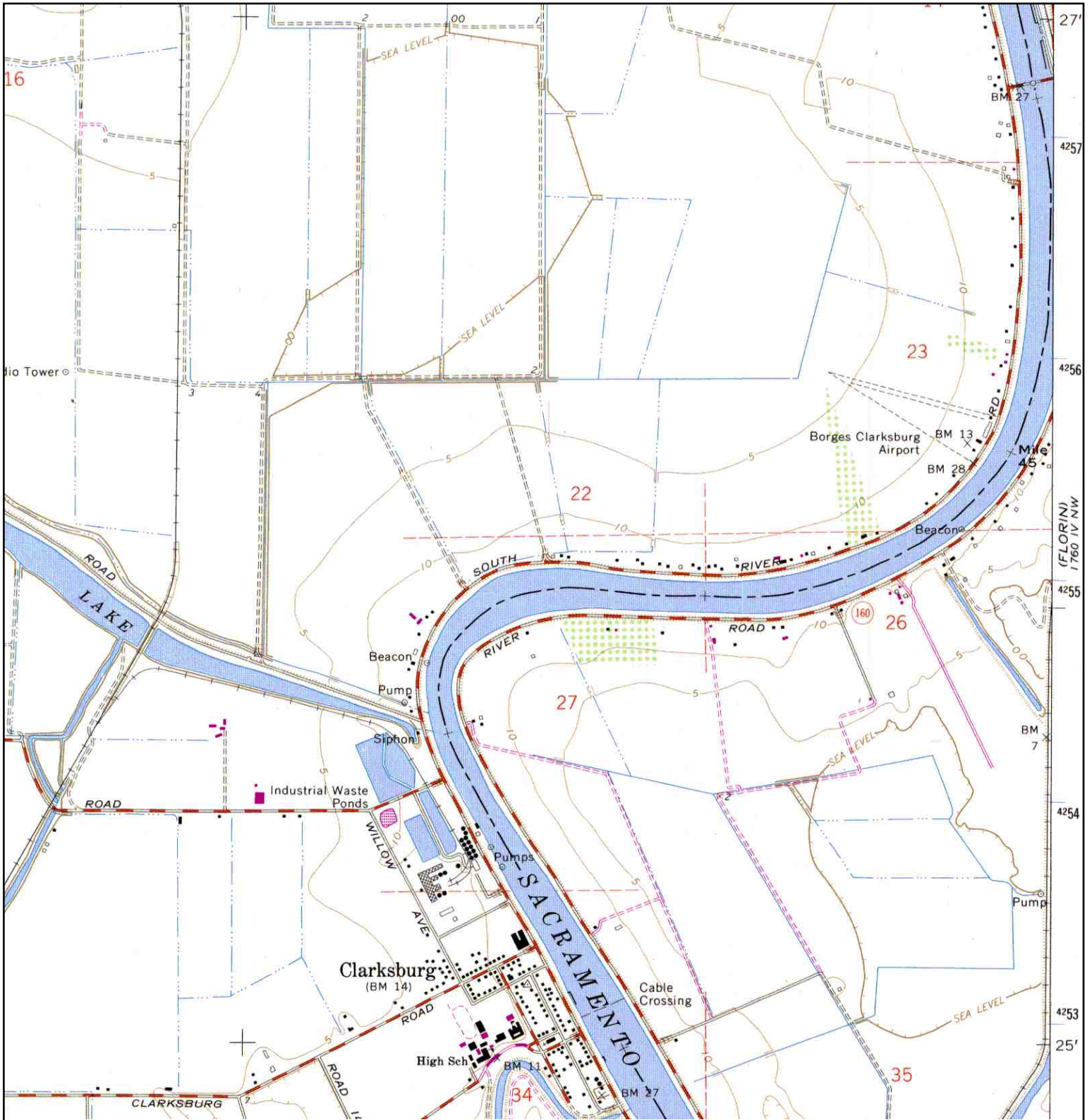
	TARGET QUAD	SITE NAME:	CLARKSBURG	CLIENT:	MECx
	NAME: COURTLAND	43.7	CLARKSBURG, CA 95612	CONTACT:	Robert Bell
	MAP YEAR: 1952	ADDRESS:	RiverMile 43.7	INQUIRY#:	1790936.4
	SERIES: 15	LAT/LONG:	38.4357 / 121.525	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500				

Historical Topographic Map



 N	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx	
	NAME: CLARKSBURG	43.7	ADDRESS:	RiverMile 43.7	CONTACT:	Robert Bell
	MAP YEAR: 1967	CLARKSBURG, CA 95612	LAT/LONG:	38.4357 / 121.525	INQUIRY#:	1790936.4
	SERIES: 7.5				RESEARCH DATE:	11/07/2006
	SCALE: 1:24000					

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx
	NAME: CLARKSBURG		43.7	CONTACT:	Robert Bell
	MAP YEAR: 1975	ADDRESS:	RiverMile 43.7	INQUIRY#:	1790936.4
	PHOTOREVISED FROM: 1967		CLARKSBURG, CA 95612	RESEARCH DATE:	11/07/2006
	SERIES: 7.5	LAT/LONG:	38.4357 / 121.525		
	SCALE: 1:24000				

APPENDIX H

**EDR REPORT FOR SAC44.7R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 44.7
RiverMile 44.7
CLARKSBURG, CA 95612**

Inquiry Number: 1790932.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 44.7
CLARKSBURG, CA 95612

COORDINATES

Latitude (North): 38.437400 - 38° 26' 14.6"
Longitude (West): 121.509200 - 121° 30' 33.1"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 630113.7
UTM Y (Meters): 4255193.0
Elevation: 13 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

East Map: 38121-D4 FLORIN, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

EXECUTIVE SUMMARY

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

EXECUTIVE SUMMARY

TRIBAL RECORDS

INDIAN RESERV...... Indian Reservations
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

CS: Contaminated Sites.

A review of the Sacramento Co. CS list, as provided by EDR, and dated 08/02/2006 has revealed that there is 1 Sacramento Co. CS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BEACH LAKE PROPERTIES	8665 RIVER RD	1/4 - 1/2 ENE	4	7

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>YORITA & SON, INC.</i>	<i>8877 RIVER RD</i>	<i>1/8 - 1/4 S</i>	<i>1</i>	<i>6</i>

EXECUTIVE SUMMARY

CA ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 08/02/2006 has revealed that there are 3 Sacramento Co. ML sites within approximately 0.25 miles of the target property.

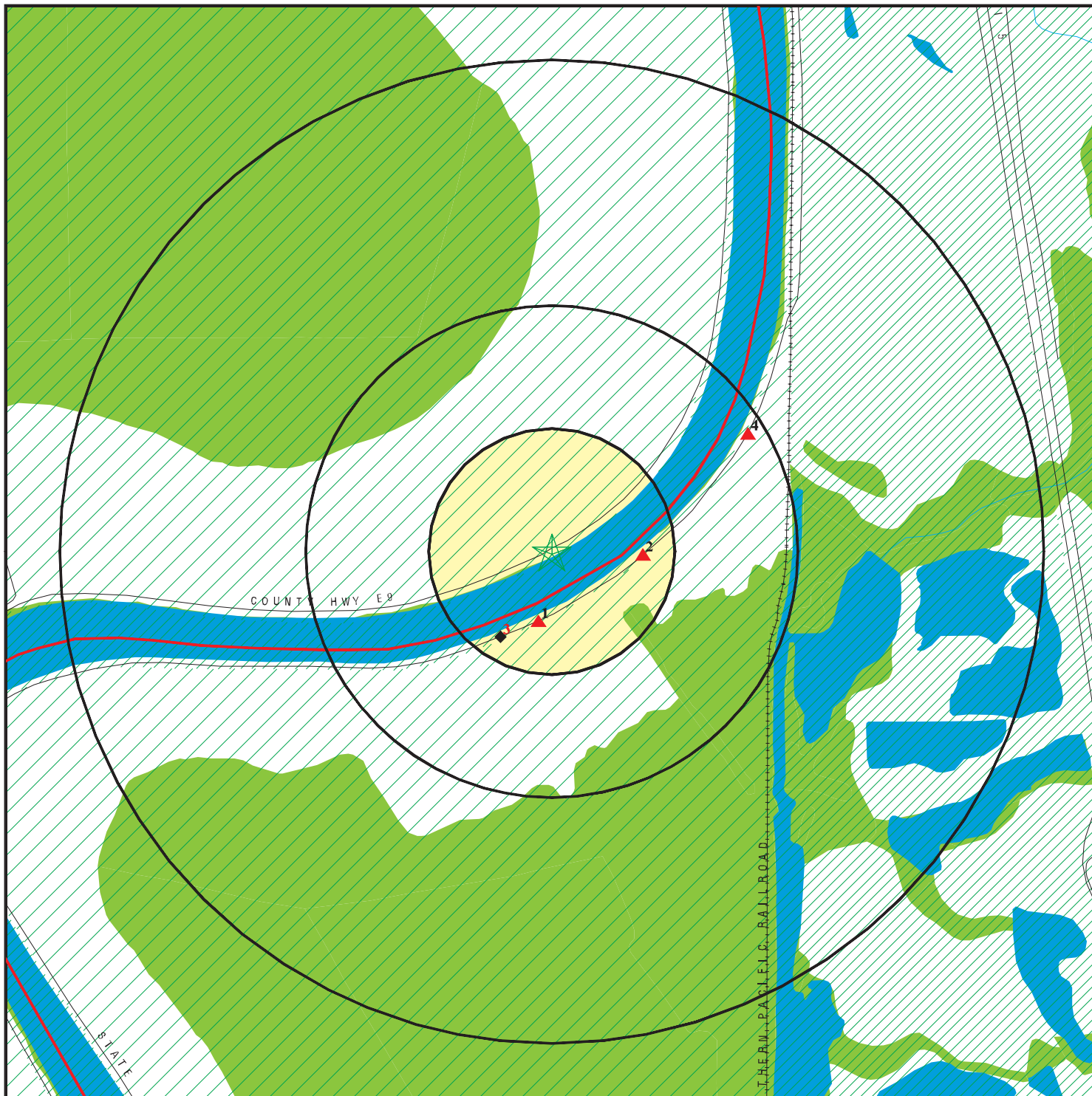
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
YORITA & SON, INC.	8877 RIVER RD	1/8 - 1/4 S	1	6
TOM NICK	8780 RIVER RD	1/8 - 1/4 E	2	6
<u>Lower Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BETT'S LANDSCAPE MAINTENANCE	8911 RIVER RD	1/8 - 1/4 SSW	3	7

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
SIMPLOT CLARKSBURG	LUST, Cortese
SHORTER'S CORNER	UST
LEE & GINNY'S ISLAND MARINA R	UST
MARY PETERS ESTATE PUMP HOUSE	UST
MARY PETERS ESTATE PUMP HOUSE	UST
J R SIMPLOT CO	UST
BORGES CLARKSBURG AIRPORT	UST
GARTER RANCH	HIST UST
CAVANAUGH GOLF MAINTENANCE YD.	AST
RIVER AUTO BODY	Sacramento Co. ML
RIVER DELTA COGENERATION	EMI

OVERVIEW MAP - 1790932.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- County Boundary
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

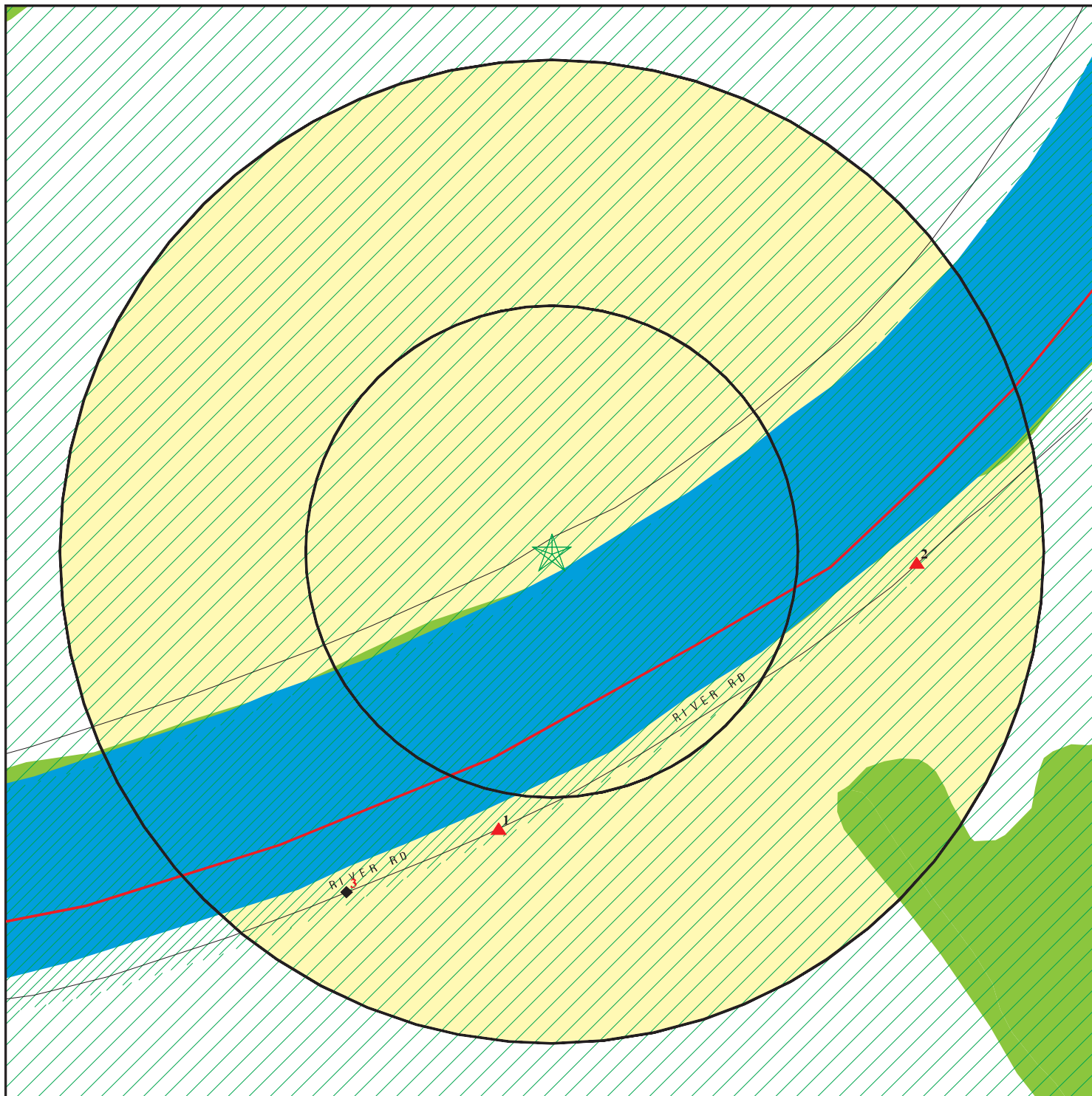


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 44.7
 ADDRESS: RiverMile 44.7
 CLARKSBURG CA 95612
 LAT/LONG: 38.4374 / 121.5092

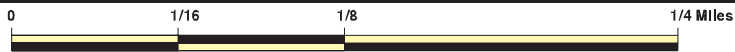
CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790932.2s
 DATE: November 07, 2006 10:51 am

DETAIL MAP - 1790932.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 44.7
 ADDRESS: RiverMile 44.7
 CLARKSBURG CA 95612
 LAT/LONG: 38.4374 / 121.5092

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790932.2s
 DATE: November 07, 2006 10:51 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
Sacramento Co. CS		0.500	0	0	1	NR	NR	1
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST UST		0.250	0	1	NR	NR	NR	1
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP	TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP	TP	NR	NR	NR	NR	NR	0
Sacramento Co. ML		0.250	0	3	NR	NR	NR	3
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP	TP	NR	NR	NR	NR	NR	0
EMI	TP	TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

1
South
1/8-1/4
757 ft.

YORITA & SON, INC.
8877 RIVER RD
SACRAMENTO, CA 95823

HIST UST
Sacramento Co. ML

U001615648
N/A

Relative:
Higher

HIST UST:
 Region: STATE
 Facility ID: 00000053072
 Tank Num: 001
 Container Num: 1
 Year Installed: 1965
 Tank Capacity: 00000500
 Facility Type: Other
 Other Type: FARMING
 Total Tanks: 0001
 Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Tank Construction: Not reported
 Leak Detection: None
 Contact Name: JIM YORITA
 Telephone: 9166651469
 Owner Name: YORITA & SON, INC.
 Owner Address: 8877 RIVER ROAD
 Owner City,St,Zip: SACRAMENTO, CA 95823

Actual:
14 ft.

Sacramento Co. ML:
 FD: E
 Billing Codes BP: Farm-No Fee
 Billing Codes UST: Farm-No Fee
 WG Bill Code: Farm-No Fee
 Target Property Bill Cod: 50
 Food Bill Code: 53
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: 0
 Facility Id: E01785
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

2
East
1/8-1/4
981 ft.

TOM NICK
8780 RIVER RD
SACRA, CA 95823

Sacramento Co. ML

S105271358
N/A

Relative:
Higher

Sacramento Co. ML:
 FD: E
 Billing Codes BP: Farm-No Fee
 Billing Codes UST: Farm-No Fee
 WG Bill Code: Farm-No Fee
 Target Property Bill Cod: 50
 Food Bill Code: 53
 CUPA Permit Date: Not reported

Actual:
14 ft.

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

TOM NICK (Continued)

S105271358

HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: 0
 Facility Id: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

3
SSW
1/8-1/4
1066 ft.

BETT'S LANDSCAPE MAINTENANCE
8911 RIVER RD
SACRA, CA 95832

Sacramento Co. ML S105271359
N/A

Relative:
Lower

Sacramento Co. ML:
 FD: E
 Billing Codes BP: Farm-No Fee
 Billing Codes UST: Farm-No Fee
 WG Bill Code: Farm-No Fee
 Target Property Bill Cod: 50
 Food Bill Code: 53
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: 0
 Facility Id: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

Actual:
8 ft.

4
ENE
1/4-1/2
2460 ft.

BEACH LAKE PROPERTIES
8665 RIVER RD
SACRAMENTO, CA

Sacramento Co. CS S104970710
N/A

Relative:
Equal

Sacramento Co. CS:
 Region: SACRAMENTO
 State Site Number: A365
 Lead Staff: BOOTH, D.
 Lead Agency: HM
 Remedial Action Taken: YE, S
 Substance: Waste Oil
 Date Reported: 10/24/1994
 Facility Id: RO0001013
 Case Type: Soil only
 Case Closed: Y
Date Closed: Not reported

Actual:
13 ft.

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLARKSBURG	S106838320	RIVER DELTA COGENERATION	ROUTE 1	95612	EMI
CLARKSBURG	U003850953	SHORTER'S CORNER	RT 1 BOX 162	95612	UST
CLARKSBURG	U003895677	LEE & GINNY'S ISLAND MARINA R	RT 1 BOX 118	95612	UST
CLARKSBURG	U003785742	MARY PETERS ESTATE PUMP HOUSE	CORNER OF RIVER RD	95612	UST
CLARKSBURG	U004003790	MARY PETERS ESTATE PUMP HOUSE	S CORNER OF RIVER RD	95612	UST
CLARKSBURG	S105023303	SIMPLOT CLARKSBURG	COURTLAND RD / HWY 84 S	95612	LUST, Cortese
CLARKSBURG	U004003745	J R SIMPLOT CO	COURTLAND & HWY 84	95612	UST
CLARKSBURG	U001612478	GARTER RANCH	SOUTH RIVER ROAD	95612	HIST UST
CLARKSBURG	U003850790	BORGES CLARKSBURG AIRPORT	S RIVER RD	95612	UST
FREEPORT	A100281697	CAVANAUGH GOLF MAINTENANCE YD.	8325 RIVER RD.	95832	AST
SACRAMENTO	S107770006	RIVER AUTO BODY	7981 FREEPORT BLVD	95832	Sacramento Co. ML

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 44.7
RIVERMILE 44.7
CLARKSBURG, CA 95612

TARGET PROPERTY COORDINATES

Latitude (North): 38.43740 - 38° 26' 14.6"
Longitude (West): 121.5092 - 121° 30' 33.1"
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 630113.7
UTM Y (Meters): 4255193.0
Elevation: 13 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

East Map: 38121-D4 FLORIN, CA
Most Recent Revision: 1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u>	<u>FEMA Flood Electronic Data</u>
YOLO, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0604230670D

Additional Panels in search area: 0604230660C
0602620305D
0602620285D
0602620315C
0602620295C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
CLARKSBURG	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

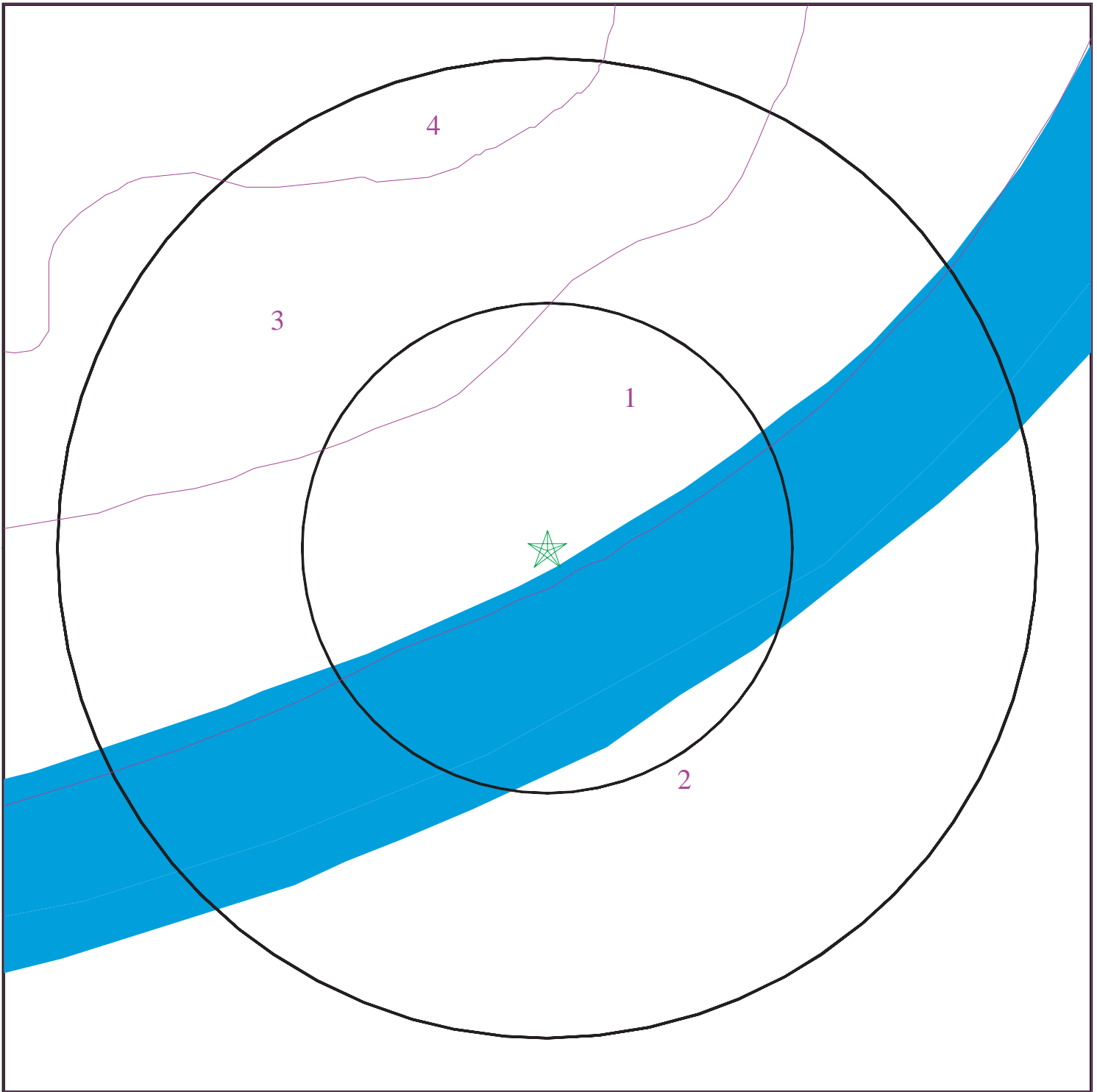
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790932.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sacramento River RiverMile 44.7
ADDRESS: RiverMile 44.7
CLARKSBURG CA 95612
LAT/LONG: 38.4374 / 121.5092

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790932.2s
DATE: November 07, 2006 10:52 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: SYCAMORE

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	14 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

Soil Map ID: 2

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 3

Soil Component Name: SYCAMORE

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.10
2	14 inches	44 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	44 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.60

Soil Map ID: 4

Soil Component Name: MERRITT

Soil Surface Texture: silty clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.60
2	18 inches	27 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
3	27 inches	42 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
4	42 inches	74 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3226579	1/8 - 1/4 Mile SSE
2	USGS3226428	1/8 - 1/4 Mile NE
3	USGS3226584	1/4 - 1/2 Mile WSW
4	USGS3226575	1/2 - 1 Mile WSW
5	USGS3226488	1/2 - 1 Mile NNE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
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GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

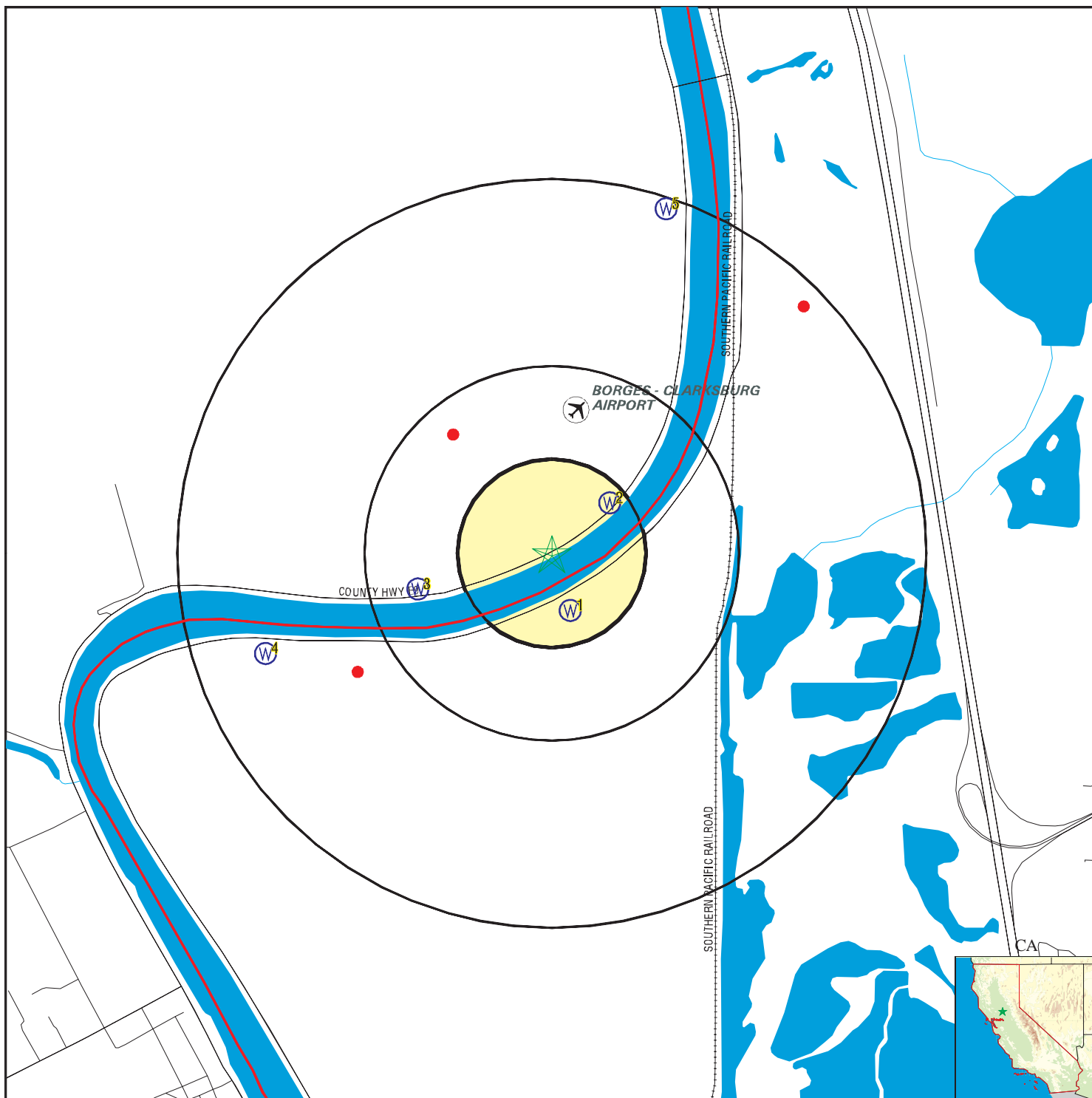
OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

DISTANCE
FROM TP (Miles)
1/2 - 1 Mile NE
1/2 - 1 Mile WSW

DISTANCE
FROM TP (Miles)
1/4 - 1/2 Mile NW

PHYSICAL SETTING SOURCE MAP - 1790932.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

No contour lines were detected within this map area.

SITE NAME: Sacramento River RiverMile 44.7
 ADDRESS: RiverMile 44.7
 CLARKSBURG CA 95612
 LAT/LONG: 38.4374 / 121.5092

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790932.2s
 DATE: November 07, 2006 10:52 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1

SSE
1/8 - 1/4 Mile
Higher

FED USGS USGS3226579

Agency cd:	USGS	Site no:	382607121302601
Site name:	007N004E26B001M		
Latitude:	382607		
Longitude:	1213026	Dec lat:	38.43518684
Dec lon:	-121.50828808	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	10.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19781206
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	142	Hole depth:	155
Source of depth data:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data begin date:	Not Reported		
Daily flow data end date:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data begin date:	Not Reported		
Water quality data end date:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

2

NE
1/8 - 1/4 Mile
Higher

FED USGS USGS3226428

Agency cd:	USGS	Site no:	382622121301901
Site name:	007N004E23Q002M		
Latitude:	382622		
Longitude:	1213019	Dec lat:	38.43935338
Dec lon:	-121.50634364	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19720204
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	97.0	Hole depth:	108
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1972-02-04	Ground water data end date:	1972-02-04
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1972-02-04	12.00	

3

**WSW
1/4 - 1/2 Mile
Higher**

FED USGS USGS3226584

Agency cd:	USGS	Site no:	382610121305301
Site name:	007N004E26D001M		
Latitude:	382610		
Longitude:	1213053	Dec lat:	38.43602014
Dec lon:	-121.51578825	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19710408
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	RIVER CHANNEL DEPOSITS		
Well depth:	94.0	Hole depth:	100
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-08-27
Water quality data end date:	1981-08-27	Water quality data count:	1
Ground water data begin date:	1981-02-17	Ground water data end date:	1981-02-17
Ground water data count:	1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1981-02-17	9.15	

4

**WSW
1/2 - 1 Mile
Higher**

FED USGS USGS3226575

Agency cd:	USGS	Site no:	382601121312001
Site name:	007N004E27A001M		
Latitude:	382601		
Longitude:	1213120	Dec lat:	38.43352021
Dec lon:	-121.52328838	Coor meth:	M
Coor accr:	F	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19780125
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	141	Hole depth:	160
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

5

**NNE
1/2 - 1 Mile
Higher**

FED USGS USGS3226488

Agency cd:	USGS	Site no:	382703121300901
Site name:	007N004E23A001M		
Latitude:	382703		
Longitude:	1213009	Dec lat:	38.45074193
Dec lon:	-121.50356591	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19790530
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	90.5	Hole depth:	102
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-05-03	Ground water data end date:	1979-05-03
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1979-05-03	12.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NE
1/2 - 1 Mile

OIL_GAS CA10181892

Apinumber:	06700312	Operator:	Chevron U.S.A. Inc.
Lease:	Correa	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.44705		
Longitude:	-121.49573		
Td:	7490	Sec:	24
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

NW
1/4 - 1/2 Mile

OIL_GAS CA10181862

Apinumber:	11300219	Operator:	Richard S. Rheem, Operator
Lease:	Kirtlan Community	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.44209		
Longitude:	-121.51299		
Td:	7482	Sec:	23
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

WSW
1/2 - 1 Mile

OIL_GAS CA10181801

Apinumber:	06700001	Operator:	UMC Petroleum Corp.
Lease:	Scribner	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.4329		
Longitude:	-121.51769		
Td:	7938	Sec:	27
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95612	2	0	0.00

Federal EPA Radon Zone for YOLO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95612

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.800 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 44.7
RiverMile 44.7
CLARKSBURG, CA 95612**

Inquiry Number: 1790932.5

November 07, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

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with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 44.7

CLARKSBURG, CA 95612

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790932.5

YEAR: 1952

| = 555'





INQUIRY #: 1790932.5

YEAR: 1961

| = 555'





INQUIRY #: 1790932.5

YEAR: 1971

| = 333'





INQUIRY #: 1790932.5

YEAR: 1981

| = 333'





INQUIRY #: 1790932.5

YEAR: 1993

| = 666'





INQUIRY #: 1790932.5

YEAR: 1998

| = 666'



The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 44.7
RiverMile 44.7
CLARKSBURG, CA 95612**

Inquiry Number: 1790932.5

November 07, 2006



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with any questions or comments.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 44.7

CLARKSBURG, CA 95612

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790932.5

YEAR: 1952

| = 555'





INQUIRY #: 1790932.5

YEAR: 1961

| = 555'





INQUIRY #: 1790932.5

YEAR: 1971

| = 333'





INQUIRY #: 1790932.5

YEAR: 1981

| = 333'





INQUIRY #: 1790932.5

YEAR: 1993

| = 666'





INQUIRY #: 1790932.5

YEAR: 1998

| = 666'



EDR Historical Topographic Map Report

**Sacramento River RiverMile 44.7
RiverMile 44.7
CLARKSBURG, CA 95612**

Inquiry Number: 1790932.4

November 07, 2006



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Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

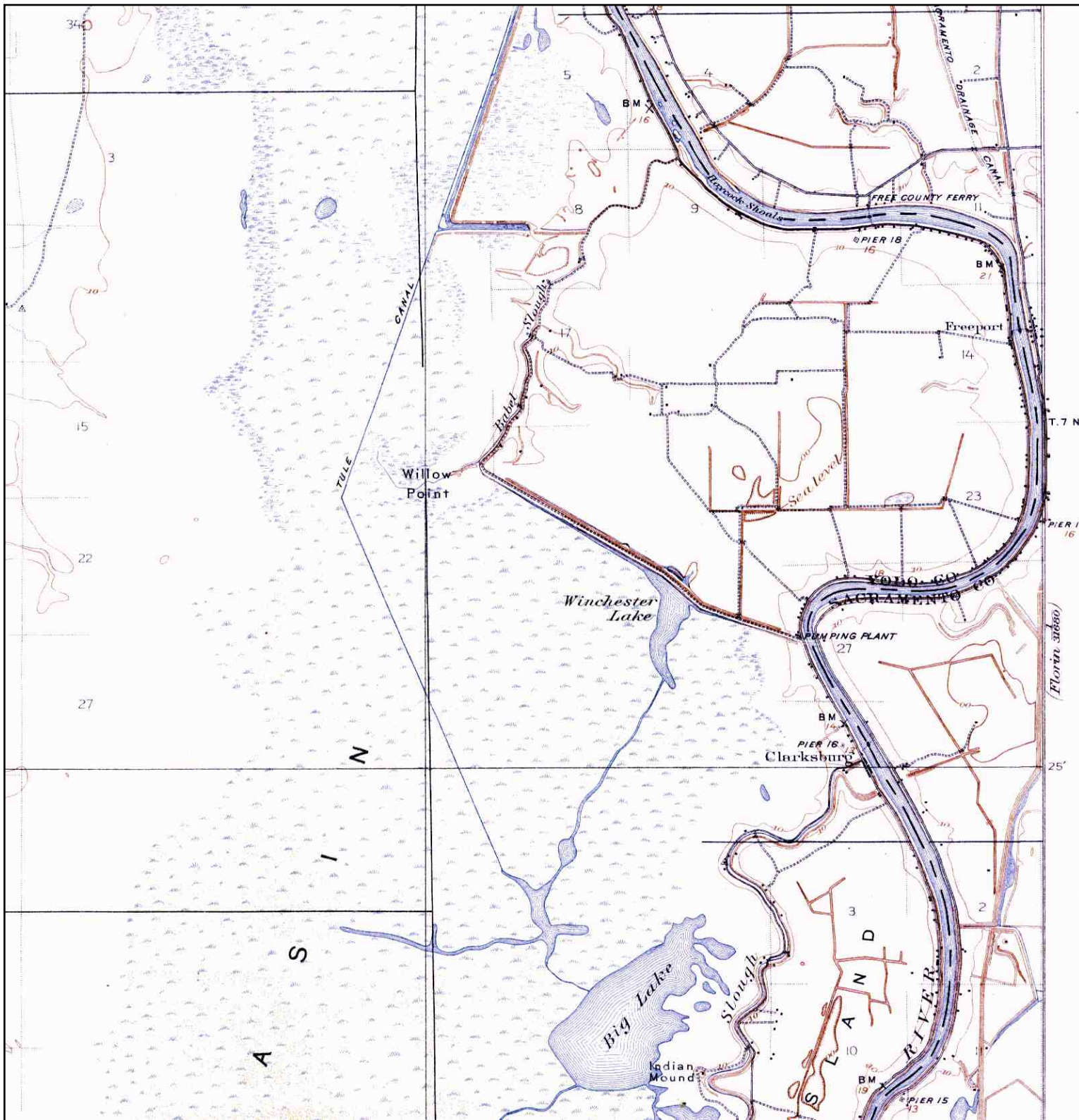
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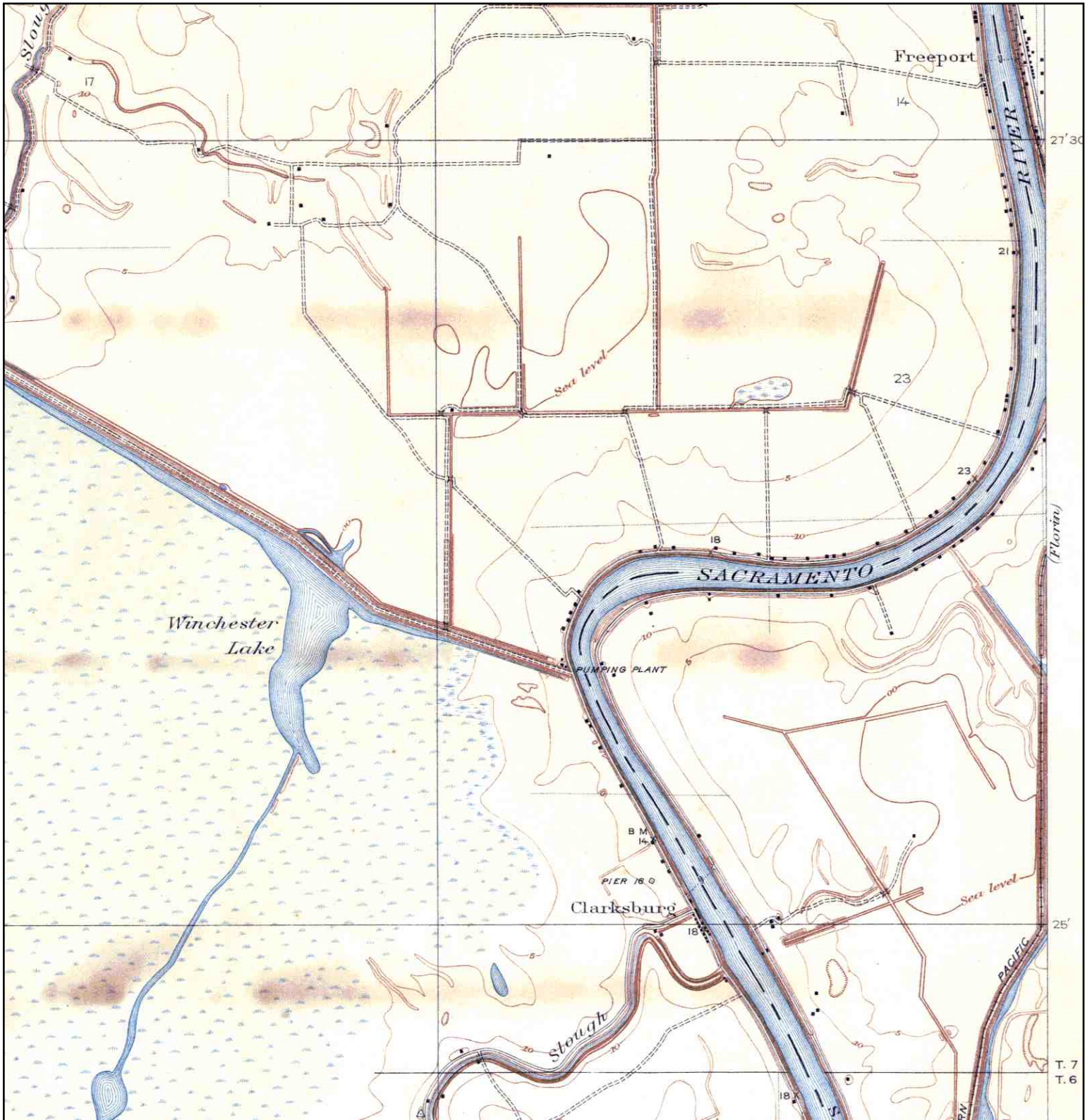
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Historical Topographic Map



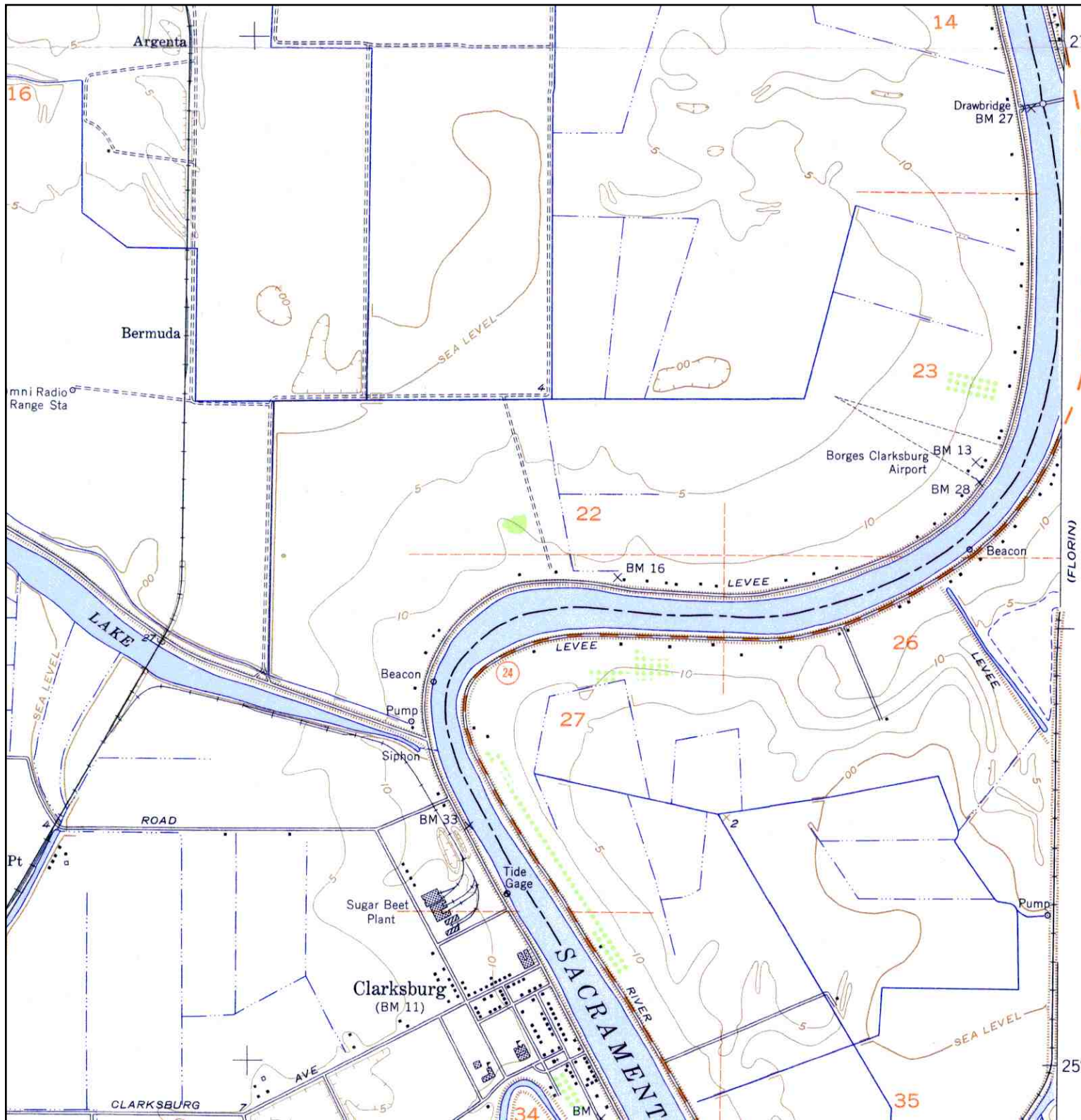
	TARGET QUAD NAME: COURTLAND MAP YEAR: 1908	SITE NAME: Sacramento River RiverMile 44.7 ADDRESS: RiverMile 44.7 CLARKSBURG, CA 95612 LAT/LONG: 38.4374 / 121.5092	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790932.4 RESEARCH DATE: 11/07/2006
	SERIES: 15 SCALE: 1:62500		


Historical Topographic Map



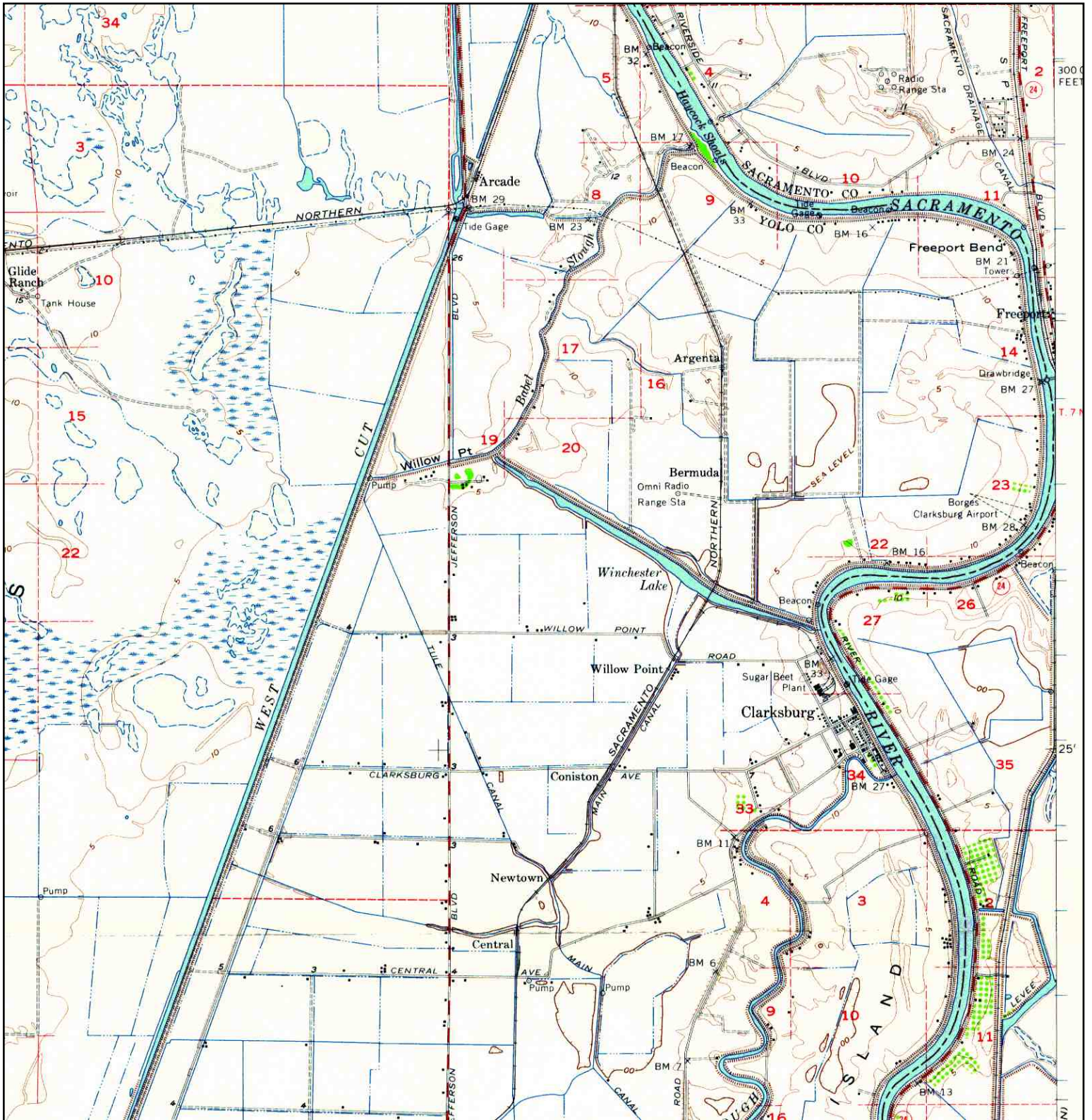
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 44.7	CLIENT:	MECx
	NAME: BABEL SLOUGH	ADDRESS:	RiverMile 44.7	CONTACT:	Robert Bell
	MAP YEAR: 1916		CLARKSBURG, CA 95612	INQUIRY#:	1790932.4
	SERIES: 7.5	LAT/LONG:	38.4374 / 121.5092	RESEARCH DATE:	11/07/2006
	SCALE: 1:31680				

Historical Topographic Map



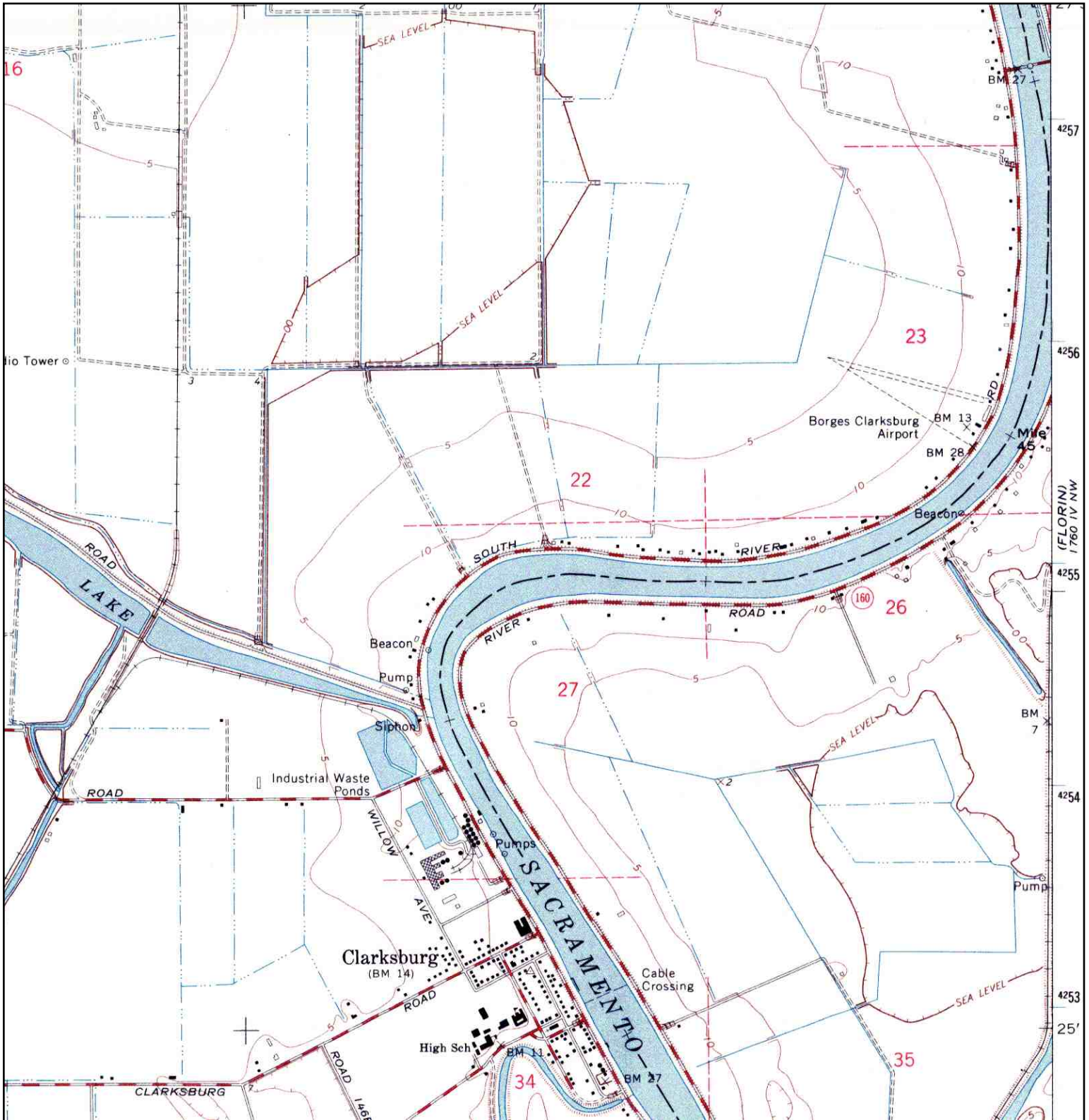
	TARGET QUAD NAME: CLARKSBURG MAP YEAR: 1952	SITE NAME: Sacramento River RiverMile 44.7 ADDRESS: RiverMile 44.7 CLARKSBURG, CA 95612 LAT/LONG: 38.4374 / 121.5092	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790932.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:24000		

Historical Topographic Map



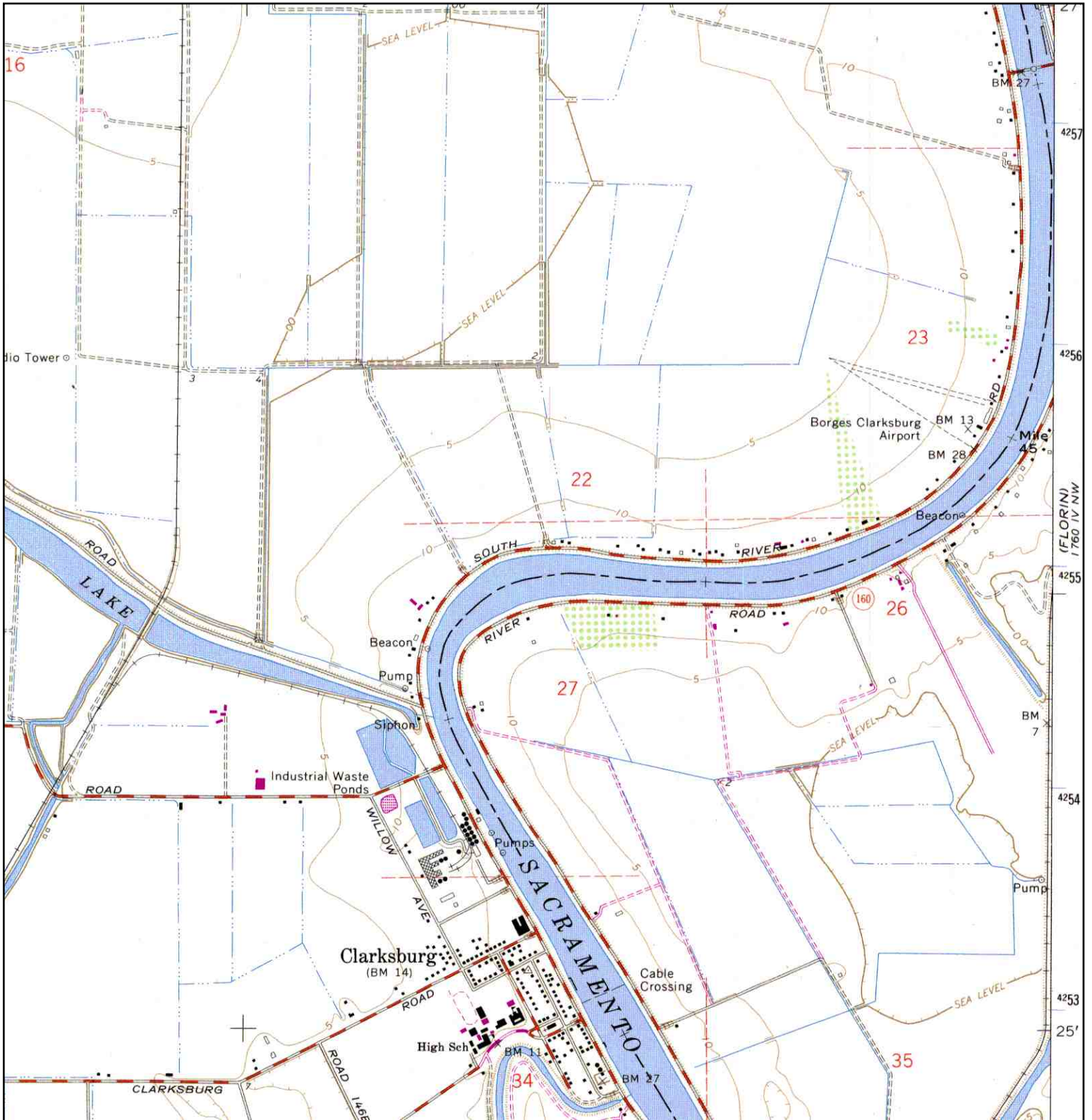
<p>N</p>	TARGET QUAD	SITE NAME:	Clarksburg	CLIENT:	MECx
	NAME: COURTLAND	ADDRESS:	RiverMile 44.7	CONTACT:	Robert Bell
	MAP YEAR: 1952	ADDRESS:	CLARKSBURG, CA 95612	INQUIRY#:	1790932.4
	SERIES: 15	LAT/LONG:	38.4374 / 121.5092	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500				

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	MECx
	NAME: CLARKSBURG	Sacramento River RiverMile	CONTACT: Robert Bell
	MAP YEAR: 1967	44.7	INQUIRY#: 1790932.4
	SERIES: 7.5	ADDRESS: RiverMile 44.7	RESEARCH DATE: 11/07/2006
SCALE: 1:24000	CLARKSBURG, CA 95612	LAT/LONG: 38.4374 / 121.5092	

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx	
	NAME: CLARKSBURG	44.7	CONTACT:	Robert Bell		
	MAP YEAR: 1975	ADDRESS:	RiverMile 44.7	INQUIRY#:	1790932.4	
	PHOTOREVISED FROM: 1967	CLARKSBURG, CA 95612	LAT/LONG:	38.4374 / 121.5092	RESEARCH DATE:	11/07/2006
	SERIES: 7.5					
	SCALE: 1:24000					

APPENDIX I

**EDR REPORT FOR SAC47.0L
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 47.0
RiverMile 47.0
SACRAMENTO, CA 95831**

Inquiry Number: 1790941.2s

November 07, 2006

The Standard in Environmental Risk Management Information

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 47.0
SACRAMENTO, CA 95831

COORDINATES

Latitude (North): 38.470000 - 38° 28' 12.0"
Longitude (West): 121.504700 - 121° 30' 16.9"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 630447.8
UTM Y (Meters): 4258817.0
Elevation: 4 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

East Map: 38121-D4 FLORIN, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

EXECUTIVE SUMMARY

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
SWRCY	Recycler Database
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
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EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there is 1 Cortese site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>GTE DATA SERVICES</i>	<i>7901 FREEPORT BLVD</i>	<i>1/8 - 1/4 SSE</i>	<i>A2</i>	<i>6</i>

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 10/11/2006 has revealed that there is 1 LUST site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>GTE DATA SERVICES</i> Facility Status: Case Closed	<i>7901 FREEPORT BLVD</i>	<i>1/8 - 1/4 SSE</i>	<i>A2</i>	<i>6</i>

EXECUTIVE SUMMARY

CS: Contaminated Sites.

A review of the Sacramento Co. CS list, as provided by EDR, and dated 08/02/2006 has revealed that there is 1 Sacramento Co. CS site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GTE DATA SERVICES INC Date Closed: 01/15/1997	7901 FREEPORT BLVD	1/4 - 1/2N	4	10

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
VIRGINIA BALL	7985 FREEPORT BLVD	1/8 - 1/4SSE	3	9

NOTIFY 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
GTE DATA SERVICES	7901 FREEPORT BLVD	1/8 - 1/4SSE	A2	6

CA ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 08/02/2006 has revealed that there are 3 Sacramento Co. ML sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
AFFORDABLE BODY REPAIR	7981 FREEPORT BL	1/8 - 1/4SSE	A1	6
GTE DATA SERVICES	7901 FREEPORT BLVD	1/8 - 1/4SSE	A2	6
VIRGINIA BALL	7985 FREEPORT BLVD	1/8 - 1/4SSE	3	9

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
SIMPLOT CLARKSBURG	LUST, Cortese
SHORTER'S CORNER	UST
LEE & GINNY'S ISLAND MARINA R	UST
MARY PETERS ESTATE PUMP HOUSE	UST
MARY PETERS ESTATE PUMP HOUSE	UST
J R SIMPLOT CO	UST
BORGES CLARKSBURG AIRPORT	UST
GARTER RANCH	HIST UST
CAVANAUGH GOLF MAINTENANCE YD.	AST
SACRAMENTO CITY U.S.D. ALBERT EINS	HAZNET
AIR FORCE DOCK FACILITY ON SACRAME	ERNS
AMERICAN RIVER/N. OF: X SACRAMENTO	ERNS
IN AMERICAN RIVER NR:5TH ST	ERNS
AMERICAN RIVER FISH HATCHERY	ERNS
AMERICAN RIVER	ERNS
1570 SOUTH RIVER RD	ERNS
SACRAMENTO-YOLO MOSQUITO & VECTOR	SLIC
RIVER AUTO BODY	Sacramento Co. ML
MORTON GOLF- BARTLEY CAVANAUGH	Sacramento Co. ML
CALTRANS	Sacramento Co. CS

OVERVIEW MAP - 1790941.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ County Boundary
- ▲ Power transmission lines
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

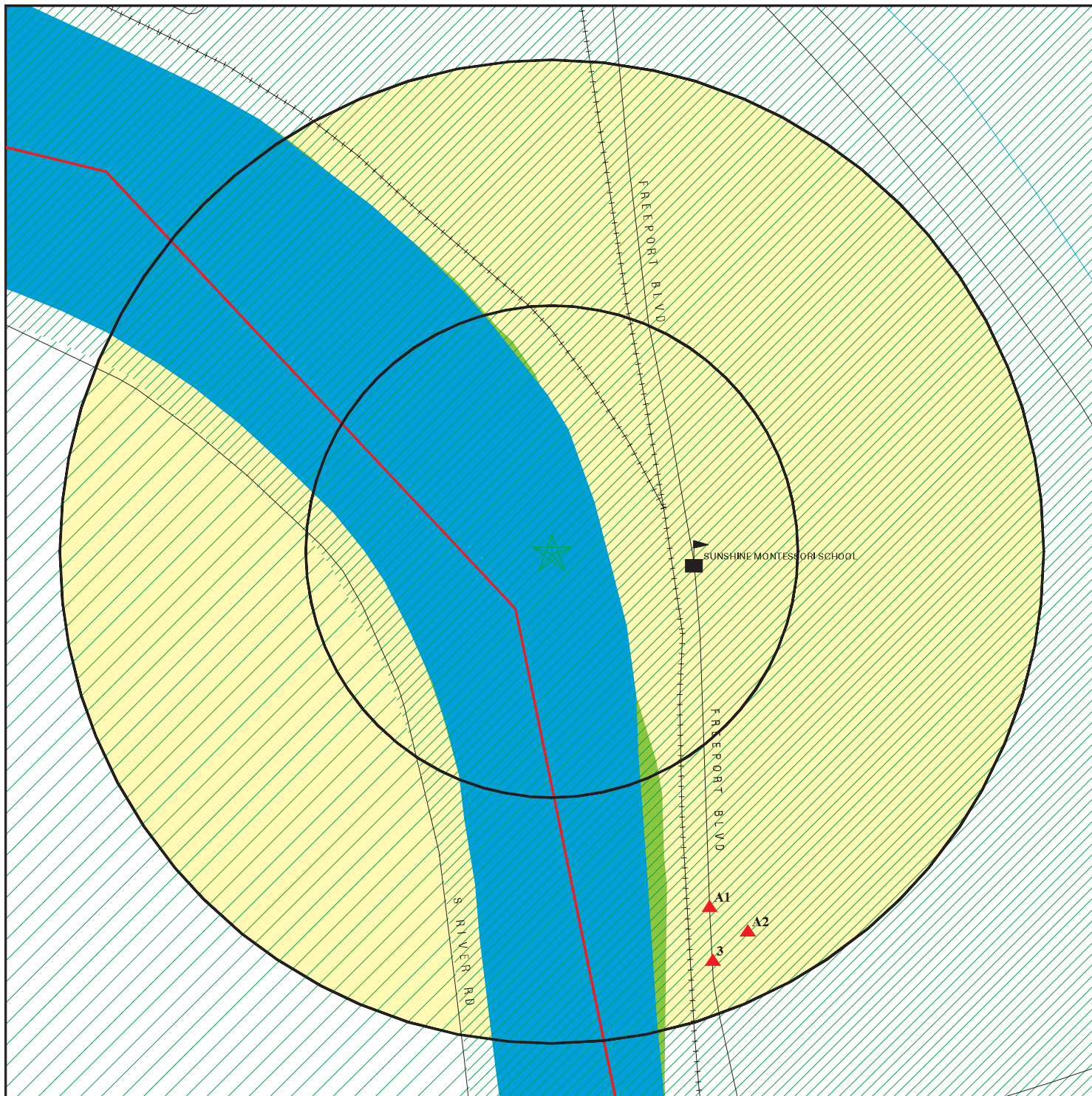
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 47.0
 ADDRESS: RiverMile 47.0
 SACRAMENTO CA 95831
 LAT/LONG: 38.4700 / 121.5047

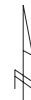
CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790941.2s
 DATE: November 07, 2006 10:49 am

DETAIL MAP - 1790941.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 47.0
 ADDRESS: RiverMile 47.0
 SACRAMENTO CA 95831
 LAT/LONG: 38.4700 / 121.5047

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790941.2s
 DATE: November 07, 2006 10:50 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	1	0	NR	NR	1
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	0	NR	NR	1
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
Sacramento Co. CS		0.500	0	0	1	NR	NR	1
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST UST		0.250	0	1	NR	NR	NR	1
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
Notify 65		1.000	0	1	0	0	NR	1
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Sacramento Co. ML		0.250	0	3	NR	NR	NR	3
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

A1 **AFFORDABLE BODY REPAIR**
SSE **7981 FREEPORT BL**
1/8-1/4 **SACRA, CA 95832**
1041 ft.

Sacramento Co. ML

S103707387
N/A

Site 1 of 2 in cluster A

Relative:
Higher

Sacramento Co. ML:

Actual:
20 ft.

FD: U
 Billing Codes BP: Out of Business
 Billing Codes UST: No Tanks
 WG Bill Code: Oil Changed by Outside Company-No Fee
 Target Property Bill Cod: 51
 Food Bill Code: 51
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: 0
 Facility Id: Not reported
 UST Tank Test Date: 02/04/98
 SIC Code: 7538
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

A2 **GTE DATA SERVICES**
SSE **7901 FREEPORT BLVD**
1/8-1/4 **SACRAMENTO, CA 95832**
1144 ft.

Notify 65
HAZNET
LUST
Cortese
Sacramento Co. ML

U000073683
N/A

Site 2 of 2 in cluster A

Relative:
Higher

Notify 65:

Actual:
20 ft.

Date Reported: Not reported
 Staff Initials: Not reported
 Board File Number: Not reported
 Facility Type: Not reported
 Discharge Date: Not reported
 Incident Description: 92324

HAZNET:

Gepaid: CAC001131896
 Contact: GTE DATA SVC
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 7901 FREEPORT BLVD
 Mailing City,St,Zip: SACRAMENTO, CA 958320000
 Gen County: Sacramento
 TSD EPA ID: CAD982444481
 TSD County: San Bernardino
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: .6000
 Facility County: Sacramento

Gepaid: CAL000234998
 Contact: MIKE BUSH

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

GTE DATA SERVICES (Continued)

EDR ID Number
EPA ID Number

Database(s)

U000073683

Telephone: 9166653293
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 7901 FREEPORT BLVD
Mailing City,St,Zip: SACRAMENTO, CA 958320000
Gen County: Sacramento
TSD EPA ID: Not reported
TSD County: Yolo
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Tons: 1.37
Facility County: Not reported

Gepaid: CAC002436959
Contact: MIKE BUSH
Telephone: 9166653293
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 7901 FREEPORT BLVD
Mailing City,St,Zip: SACRAMENTO, CA 958320000
Gen County: Sacramento
TSD EPA ID: Not reported
TSD County: 99
Waste Category: Not reported
Disposal Method: Recycler
Tons: 0.03
Facility County: Not reported

LUST:

Region: STATE
Case Type: Drinking Water Aquifer affected
Cross Street: STONECREST
Enf Type: None Taken
Funding: Federal
How Discovered: Not reported
How Stopped: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Global Id: T0606700290
Stop Date: Not reported
Confirm Leak: 1989-06-27 00:00:00
Workplan: 1989-06-27 00:00:00
Prelim Assess: 1989-07-17 00:00:00
Pollution Char: 1992-04-02 00:00:00
Remed Plan: 1990-12-14 00:00:00
Remed Action: Not reported
Monitoring: Not reported
Close Date: 1996-10-01 00:00:00
Discover Date: 1989-06-27 00:00:00
Enforcement Dt: 1965-01-01 00:00:00
Release Date: 1989-07-17 00:00:00
Review Date: 1993-03-10 00:00:00
Enter Date: 1989-10-11 00:00:00
MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Max MTBE GW ppb: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

GTE DATA SERVICES (Continued)

U000073683

Max MTBE Soil ppb: Not reported
County: 34
Org Name: Not reported
Reg Board: 5S
Status: Case Closed
Chemical: Diesel
Contact Person: Not reported
Responsible Party: GTE DATA SERVICES
RP Address: 7901 FREEPORT BLVD, SACRAMENTO, CA 95832
Interim: Not reported
Oversight Prgm: LUST
MTBE Class: *
MTBE Conc: 0
MTBE Fuel: 0
MTBE Tested: Not Required to be Tested.
Staff: VJF
Staff Initials: BIM
Lead Agency: Local Agency
Local Agency: 34000L
Hydr Basin #: SACRAMENTO VALLEY (5)
Beneficial: Not reported
Priority: 3
Cleanup Fund Id: Not reported
Work Suspended: No
Local Case #: 0516
Case Number: 340359
Qty Leaked: Not reported
Abate Method: Not reported
Operator: Not reported
Water System Name: A J BUMPS
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: W0606700220
Waste Disch Assigned Name: 3400220-001GEN
Summary: Not reported

LUST:

Region: 5
Case Number: 340359
Staff Initials: VJF
Substance: DIESEL
Case Type: Drinking Water Aquifer affected
Status: Case Closed
Lead Agency: Local
Program: LUST
MTBE Code: N/A

Cortese:

Region: CORTESE
Facility Addr2: 7901 FREEPORT BLVD

Sacramento Co. ML:

FD: Not reported
Billing Codes BP: 5203
Billing Codes UST: 5413
WG Bill Code: 5413

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

GTE DATA SERVICES (Continued)

U000073683

Target Property Bill Cod: Not reported
 Food Bill Code: Not reported
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: 3
 Facility Id: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

3
SSE
1/8-1/4
1177 ft.

VIRGINIA BALL
7985 FREEPORT BLVD
SACRAMENTO, CA 95823

HIST UST **U001615644**
Sacramento Co. ML **N/A**

Relative:
Higher

HIST UST:
 Region: STATE
 Facility ID: 00000066452
 Tank Num: 001
 Container Num: ONE
 Year Installed: Not reported
 Tank Capacity: 00000550
 Facility Type: Other
 Other Type: RESIDENCE
 Total Tanks: 0001
 Tank Used for: WASTE
 Type of Fuel: 1
 Tank Construction: Unknow centimeters
 Leak Detection: Stock Inventor
 Contact Name: OWNER
 Telephone: 9166651151
 Owner Name: VIRGINIA BALL
 Owner Address: 7985 FREEPORT BLVD.
 Owner City,St,Zip: SACRAMENTO, CA 95823

Actual:
20 ft.

Sacramento Co. ML:
 FD: U
 Billing Codes BP: Out of Business
 Billing Codes UST: No Tanks
 WG Bill Code: Oil Changed by Outside Company-No Fee
 Target Property Bill Cod: 51
 Food Bill Code: 51
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: 0
 Facility Id: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

VIRGINIA BALL (Continued)

EDR ID Number
EPA ID Number

Database(s)

U001615644

UST Tank Test Date: Not reported
SIC Code: Not reported
Tier Permitting: Not reported
Risk Mgmt Protection Program: Not reported

4
North
1/4-1/2
1733 ft.

GTE DATA SERVICES INC
7901 FREEPORT BLVD
SACRAMENTO, CA 95832

UST
HIST UST
Sacramento Co. CS

U001615563
N/A

Relative:
Higher

UST:
Region: STATE
Local Agency: 34000L
Facility ID: FA0010638

Actual:
13 ft.

HIST UST:
Region: STATE
Facility ID: 00000011497
Tank Num: 001
Container Num: UL-89981
Year Installed: 1980
Tank Capacity: 00010000
Facility Type: Other
Other Type: DATA PROCESSING
Total Tanks: 0002
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 0.25 inches
Leak Detection: Stock Inventor
Contact Name: JIM ORNELLAS
Telephone: 9166653200
Owner Name: GTE DATA SERVICES INCORPORATED
Owner Address: P.O. BOX 1548
Owner City,St,Zip: TAMPA, FL 33601

Region: STATE
Facility ID: 00000011497
Tank Num: 002
Container Num: UL-89986
Year Installed: 1980
Tank Capacity: 00010000
Facility Type: Other
Other Type: DATA PROCESSING
Total Tanks: 0002
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: 0.25 inches
Leak Detection: Stock Inventor
Contact Name: JIM ORNELLAS
Telephone: 9166653200
Owner Name: GTE DATA SERVICES INCORPORATED
Owner Address: P.O. BOX 1548
Owner City,St,Zip: TAMPA, FL 33601

Sacramento Co. CS:
Region: SACRAMENTO
State Site Number: 0516

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GTE DATA SERVICES INC (Continued)

U001615563

Lead Staff: MARCUS, B.
Lead Agency: HM
Remedial Action Taken: YE, S
Substance: Diesel
Date Reported: 06/27/1989
Facility Id: RO0000537
Case Type: Other ground water affected
Case Closed: Y
Date Closed: 01/15/1997

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLARKSBURG	U003785742	MARY PETERS ESTATE PUMP HOUSE	CORNER OF RIVER RD	95612	UST
CLARKSBURG	U004003790	MARY PETERS ESTATE PUMP HOUSE	S CORNER OF RIVER RD	95612	UST
CLARKSBURG	S105023303	SIMPLOT CLARKSBURG	COURTLAND RD / HWY 84 S	95612	LUST, Cortese
CLARKSBURG	U004003745	J R SIMPLOT CO	COURTLAND & HWY 84	95612	UST
CLARKSBURG	U003850790	BORGES CLARKSBURG AIRPORT	S RIVER RD	95612	UST
FREEPORT	A100281697	CAVANAUGH GOLF MAINTENANCE YD.	8325 RIVER RD.	95832	AST
SACRAMENTO	S106486535	SACRAMENTO-YOLO MOSQUITO & VECTOR	EL CAMINO AVENUE / HIGHWAY B		SLIC
SACRAMENTO	S107770006	RIVER AUTO BODY	7981 FREEPORT BLVD	95832	Sacramento Co. ML
SACRAMENTO	S107769882	MORTON GOLF- BARTLEY CAVANAUGH	8301 FREEPORT BLVD	95832	Sacramento Co. ML
SACRAMENTO	S106599808	CALTRANS	FRUITRIDGE RD/HWY 99		Sacramento Co. CS
SACRAMENTO	2005633875	1570 SOUTH RIVER RD	1570 SOUTH RIVER RD		ERNS
CLARKSBURG	U003850953	SHORTER'S CORNER	RT 1 BOX 162	95612	UST
CLARKSBURG	U003895677	LEE & GINNY'S ISLAND MARINA R	RT 1 BOX 118	95612	UST
CLARKSBURG	U001612478	GARTER RANCH	SOUTH RIVER ROAD	95612	HIST UST
SACRAMENTO	87946	AIR FORCE DOCK FACILITY ON SACRAME	AIR FORCE DOCK FACILITY ON SAC		ERNS
SACRAMENTO	S102803824	SACRAMENTO CITY U.S.D. ALBERT EINS	ALBERT EINSTIEN MIDDLE SCHOOL		HAZNET
SACRAMENTO	8716637	AMERICAN RIVER/N. OF: X SACRAMENTO	AMERICAN RIVER/N. OF: X SACRAM		ERNS
SACRAMENTO	8857124	IN AMERICAN RIVER NR:5TH ST	IN AMERICAN RIVER NR:5TH ST		ERNS
SACRAMENTO	93333011	AMERICAN RIVER FISH HATCHERY	AMERICAN RIVER FISH HATCHERY		ERNS
SACRAMENTO	2000540781	AMERICAN RIVER	AMERICAN RIVER		ERNS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 47.0
RIVERMILE 47.0
SACRAMENTO, CA 95831

TARGET PROPERTY COORDINATES

Latitude (North): 38.47000 - 38° 28' 12.0"
Longitude (West): 121.5047 - 121° 30' 16.9"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 630447.8
UTM Y (Meters): 4258817.0
Elevation: 4 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

East Map: 38121-D4 FLORIN, CA
Most Recent Revision: 1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

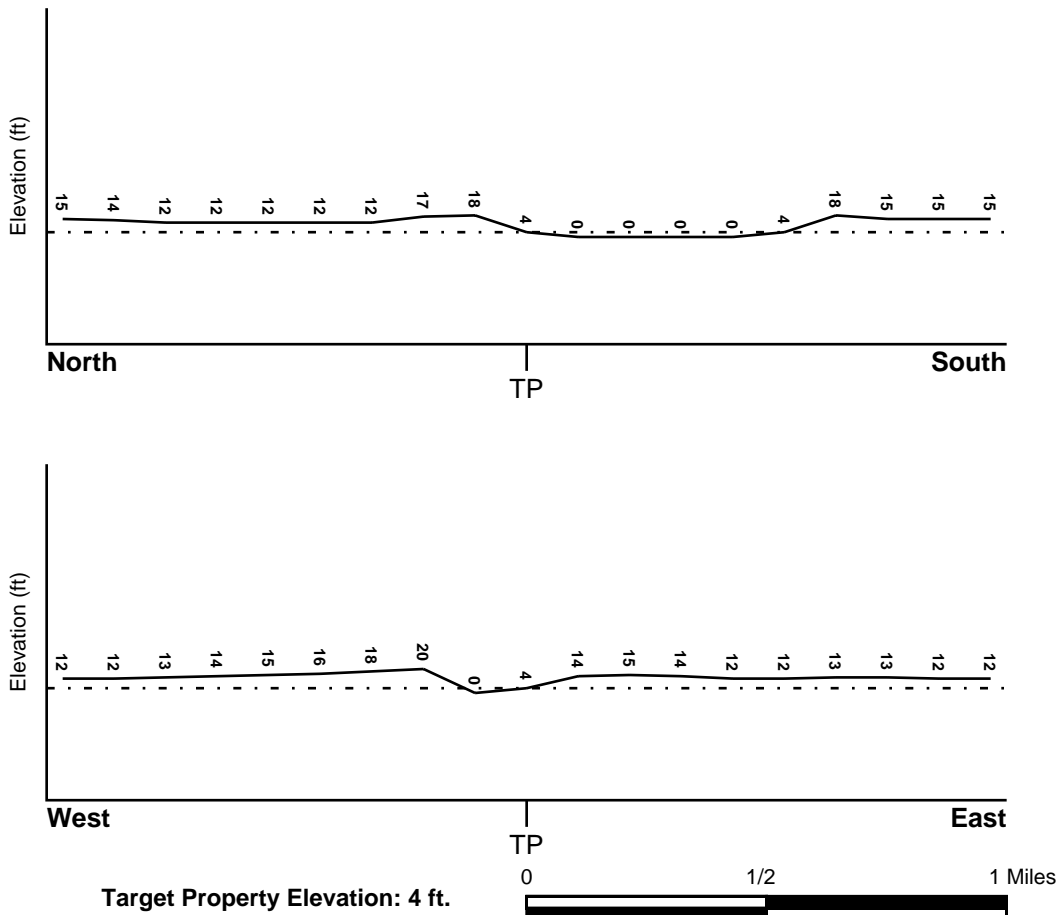
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Target Property County
SACRAMENTO, CA

FEMA Flood
Electronic Data
YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0602660030E

Additional Panels in search area: 0604230660C
0602620285D
0602620305D

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property
CLARKSBURG

NWI Electronic
Data Coverage
YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius: 1.25 miles
Status: Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

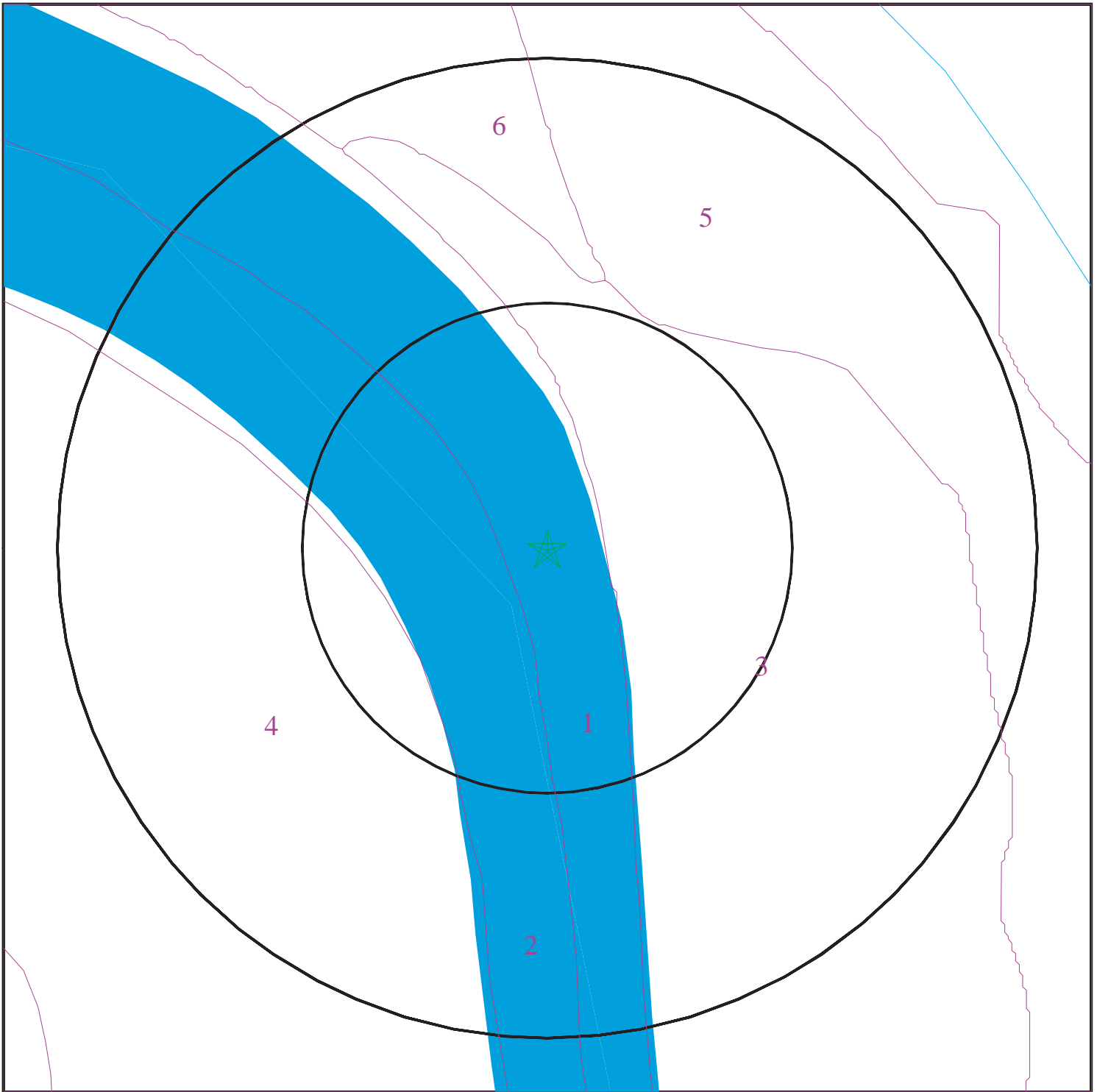
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790941.2s



- ★ Target Property
- SSURGO Soil
- Water

0 1/16 1/8 1/4 Miles



SITE NAME: Sacramento River RiverMile 47.0
ADDRESS: RiverMile 47.0
SACRAMENTO CA 95831
LAT/LONG: 38.4700 / 121.5047

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790941.2s
DATE: November 07, 2006 10:50 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER
Soil Surface Texture: Not reported
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: WATER
Soil Surface Texture: Not reported
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 3

Soil Component Name: SCRIBNER

Soil Surface Texture: clay loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	12 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.10
2	12 inches	39 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.60
3	39 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.60

Soil Map ID: 4

Soil Component Name: SYCAMORE

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	14 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

Soil Map ID: 5

Soil Component Name: DIERSSEN

Soil Surface Texture: clay loam

Hydrologic Group: Class D - Very slow infiltration rates. Soils are clayey, have a high water table, or are shallow to an impervious layer.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	15 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 7.30 Min: 6.10
2	15 inches	24 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60
3	24 inches	41 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60
4	41 inches	60 inches	cemented	Not reported	Not reported	Max: 0.00 Min: 0.00	Max: 0.00 Min: 0.00

Soil Map ID: 6

Soil Component Name: EGBERT

Soil Surface Texture: clay

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	18 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
2	18 inches	46 inches	silty clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
3	46 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 6.10

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3226403	1/4 - 1/2 Mile NNW
2	USGS3226353	1/4 - 1/2 Mile South
3	USGS3226351	1/2 - 1 Mile SSE
4	USGS3226349	1/2 - 1 Mile South
5	USGS3226386	1/2 - 1 Mile WNW

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
7	USGS3226387	1/2 - 1 Mile WNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
6	CA3400357	1/2 - 1 Mile SSE

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

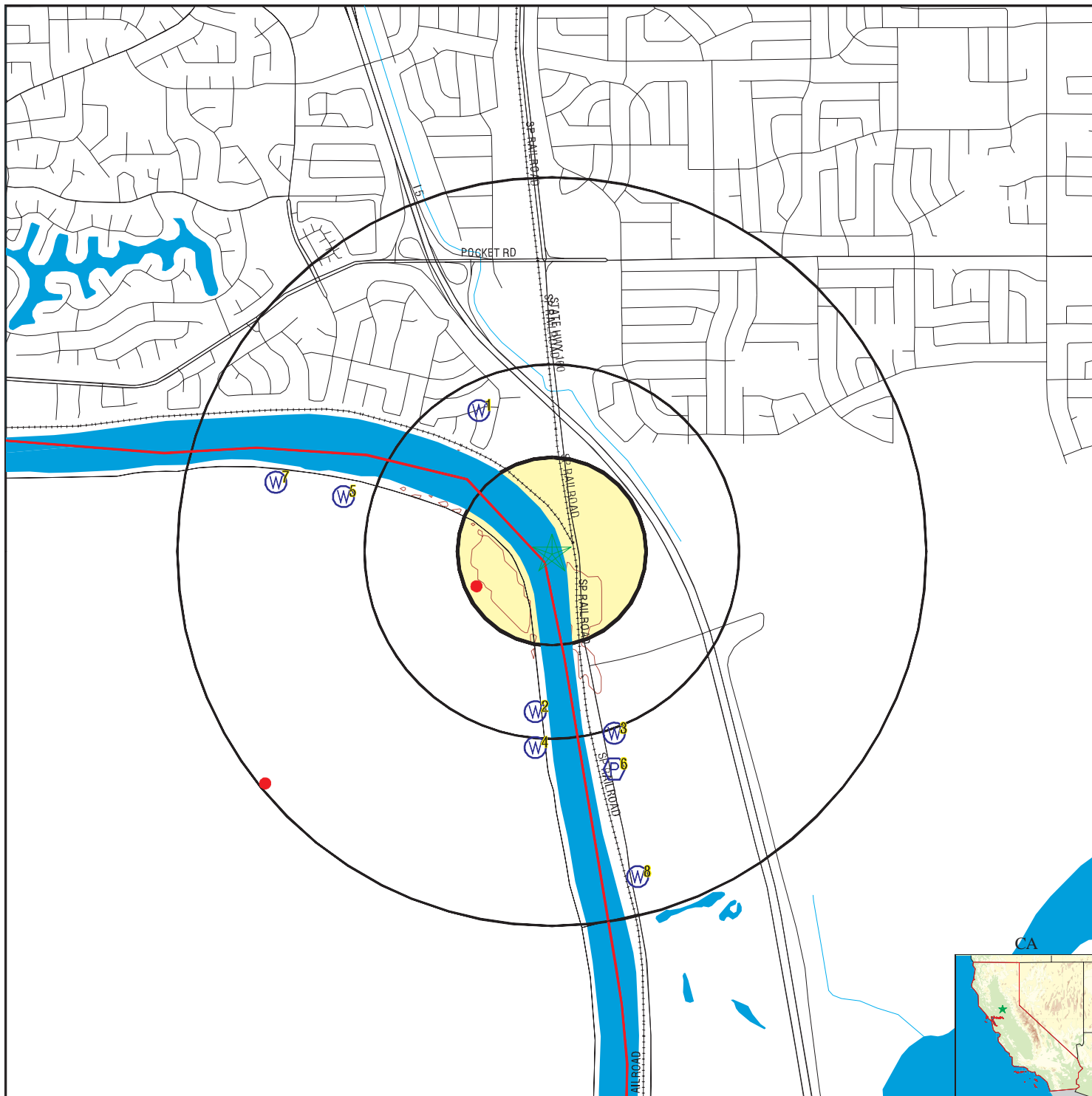
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
8	7294	1/2 - 1 Mile SSE

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/8 - 1/4 Mile WSW	1/2 - 1 Mile SW

PHYSICAL SETTING SOURCE MAP - 1790941.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Sacramento River RiverMile 47.0
 ADDRESS: RiverMile 47.0
 SACRAMENTO CA 95831
 LAT/LONG: 38.4700 / 121.5047

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790941.2s
 DATE: November 07, 2006 10:50 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1

**NNW
1/4 - 1/2 Mile
Higher**

FED USGS USGS3226403

Agency cd:	USGS	Site no:	382832121302601
Site name:	007N004E11G002M		
Latitude:	382832		
Longitude:	1213026	Dec lat:	38.4754634
Dec lon:	-121.50828847	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19730401
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	320	Hole depth:	320
Source of depth data:	driller	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1973-07-10
Water quality data end date:	1975-06-16	Water quality data count:	2
Ground water data begin date:	1973-04-01	Ground water data end date:	1982-08-12
Ground water data count:	2		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
-----			-----		
1982-08-12	23.19		1973-04-01	24.00	

2

**South
1/4 - 1/2 Mile
Higher**

FED USGS USGS3226353

Agency cd:	USGS	Site no:	382750121301601
Site name:	007N004E14B001M		
Latitude:	382750		
Longitude:	1213016	Dec lat:	38.46379708
Dec lon:	-121.50551052	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	16.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19540109
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	103	Hole depth:	109
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

3
SSE
1/2 - 1 Mile
Higher

FED USGS USGS3226351

Agency cd:	USGS	Site no:	382747121300201
Site name:	007N004E14H002M		
Latitude:	382747		
Longitude:	1213002	Dec lat:	38.46296378
Dec lon:	-121.50162154	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	13.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19720220
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	102	Hole depth:	115
Source of depth data:	driller	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1982-09-28
Water quality data end date:	1982-09-28	Water quality data count:	1
Ground water data begin date:	1972-02-20	Ground water data end date:	1972-02-20
Ground water data count:	1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel
1972-02-20	15.00	

**4
South
1/2 - 1 Mile
Higher**

FED USGS USGS3226349

Agency cd:	USGS	Site no:	382745121301601
Site name:	007N004E14G002M		
Latitude:	382745		
Longitude:	1213016	Dec lat:	38.46240824
Dec lon:	-121.5055105	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	16.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19521015
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	96.0	Hole depth:	114
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**5
WNW
1/2 - 1 Mile
Higher**

FED USGS USGS3226386

Agency cd:	USGS	Site no:	382820121305001
Site name:	007N004E11M003M		
Latitude:	382820		
Longitude:	1213050	Dec lat:	38.47213016
Dec lon:	-121.51495525	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	17.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19680630
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	118	Hole depth:	172
Source of depth data:	Not Reported		
Real time data flag:	0		
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	0000-00-00	Water quality data count:	0
Ground water data count:	0	Ground water data end date:	0000-00-00

Ground-water levels, Number of Measurements: 0

6
SSE
1/2 - 1 Mile
Higher

FRDS PWS CA3400357

PWS ID:	CA3400357	PWS Status:	Active
Date Initiated:	7706	Date Deactivated:	Not Reported
PWS Name:	BEACH LAKE PICNIC GROUND BEACH LAKE PICNIC GROUND 8586 RIVER RD FREEPORT, CA 95832		
Addressee / Facility:	System Owner/Responsible Party BEACH LAKE PICNIC GROUND 8586 RIVER ROAD FREEPORT, CA 95832		
Facility Latitude:	38 27 42	Facility Longitude:	121 30 02
City Served:	Not Reported		
Treatment Class:	Untreated	Population:	00000100
PWS currently has or had major violation(s) or enforcement:	No		

7
WNW
1/2 - 1 Mile
Higher

FED USGS USGS3226387

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	382822121310201
Site name:	007N004E11M002M		
Latitude:	382822		
Longitude:	1213102	Dec lat:	38.4726857
Dec lon:	-121.51828866	Coor meth:	M
Coor accr:	M	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	16.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19570408
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	67.0	Hole depth:	67.0
Source of depth data:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data begin date:	Not Reported		
Daily flow data end date:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data end date:	Not Reported		
Water quality data count:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

8
SSE
1/2 - 1 Mile
Higher

CA WELLS 7294

Water System Information:

Prime Station Code:	07N/04E-13M01 M	User ID:	34C
FRDS Number:	3400125001	County:	Sacramento
District Number:	64	Station Type:	WELL/AMBNT/MUN/INTAKE
Water Type:	Well/Groundwater	Well Status:	Active Raw
Source Lat/Long:	382727.0 1212958.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	WELL A		
System Number:	3400125		
System Name:	FREEPORT MARINA		
Organization That Operates System:	Not Reported		
Pop Served:	Unknown, Small System	Connections:	Unknown, Small System
Area Served:	Not Reported		
Sample Collected:	03/13/2001 00:00:00	Findings:	2.1 UG/L
Chemical:	ARSENIC		
Sample Collected:	03/13/2001 00:00:00	Findings:	120 UG/L
Chemical:	MANGANESE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/30/2001 00:00:00	Findings:	.61 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/10/2004 00:00:00	Findings:	2.9 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	06/10/2004 00:00:00	Findings:	45 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	06/10/2004 00:00:00	Findings:	48 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	07/14/2005 00:00:00	Findings:	60 UNITS
Chemical:	COLOR		
Sample Collected:	07/14/2005 00:00:00	Findings:	200 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/14/2005 00:00:00	Findings:	7.49
Chemical:	PH, LABORATORY		
Sample Collected:	07/14/2005 00:00:00	Findings:	100 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	07/14/2005 00:00:00	Findings:	122 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/14/2005 00:00:00	Findings:	91 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	07/14/2005 00:00:00	Findings:	22 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/14/2005 00:00:00	Findings:	8.8 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/14/2005 00:00:00	Findings:	8.7 MG/L
Chemical:	SODIUM		
Sample Collected:	07/14/2005 00:00:00	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/14/2005 00:00:00	Findings:	6.2 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/14/2005 00:00:00	Findings:	12 UG/L
Chemical:	ARSENIC		
Sample Collected:	07/14/2005 00:00:00	Findings:	120 UG/L
Chemical:	BARIUM		
Sample Collected:	07/14/2005 00:00:00	Findings:	150 UG/L
Chemical:	BORON		
Sample Collected:	07/14/2005 00:00:00	Findings:	1100 UG/L
Chemical:	IRON		
Sample Collected:	07/14/2005 00:00:00	Findings:	1100 UG/L
Chemical:	MANGANESE		
Sample Collected:	07/14/2005 00:00:00	Findings:	120 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/14/2005 00:00:00	Findings:	19 NTU
Chemical:	TURBIDITY, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:
Chemical:

09/16/2005 00:00:00 Findings:
GROSS ALPHA COUNTING ERROR

.85 PCI/L

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

WSW
1/8 - 1/4 Mile

OIL_GAS CA10182015

Apinumber:	11320690	Operator:	Jem Petroleum Corp.
Lease:	Mesquita	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.46875		
Longitude:	-121.50734		
Td:	7000	Sec:	11
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SW
1/2 - 1 Mile

OIL_GAS CA10181970

Apinumber:	11320375	Operator:	Atlantic Oil Co.
Lease:	Kirtlan	Well no:	3
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	007
Source:	hud		
Latitude:	38.46111		
Longitude:	-121.51775		
Td:	3957	Sec:	15
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95831	18	2	11.11

Federal EPA Radon Zone for SACRAMENTO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95831

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.700 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EDR[®] Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 47.0
RiverMile 47.0
SACRAMENTO, CA 95831**

Inquiry Number: 1790941.5

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 47.0

SACRAMENTO, CA 95831

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790941.5

YEAR: 1952

| = 555'





INQUIRY #: 1790941.5

YEAR: 1961

| = 555'





INQUIRY #: 1790941.5

YEAR: 1971

| = 333'





INQUIRY #: 1790941.5

YEAR: 1981

| = 333'





INQUIRY #: 1790941.5

YEAR: 1993

| = 666'





INQUIRY #: 1790941.5

YEAR: 1998

| = 666'



EDR Historical Topographic Map Report

**Sacramento River RiverMile 47.0
RiverMile 47.0
SACRAMENTO, CA 95831**

Inquiry Number: 1790941.4

November 07, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

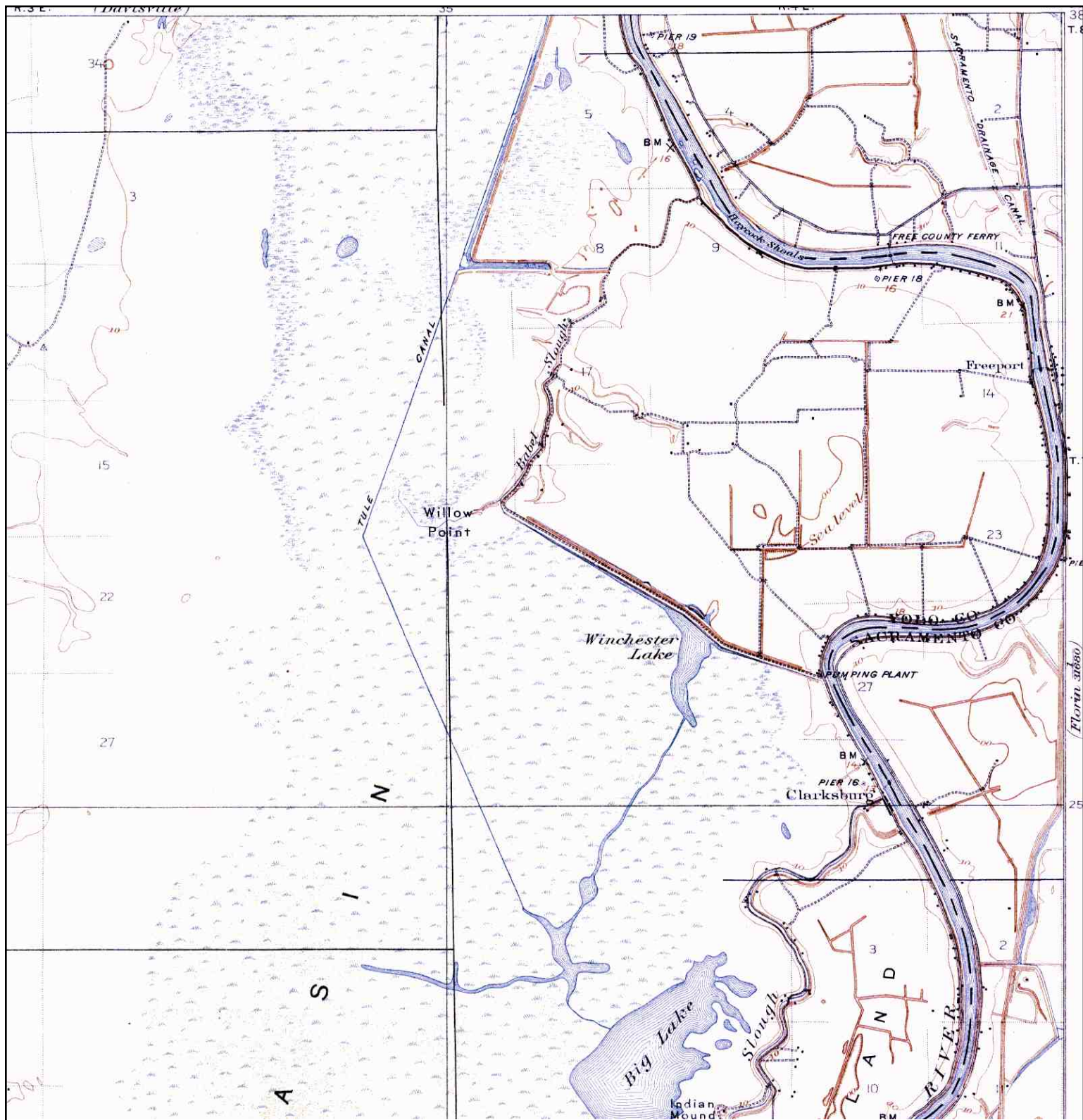
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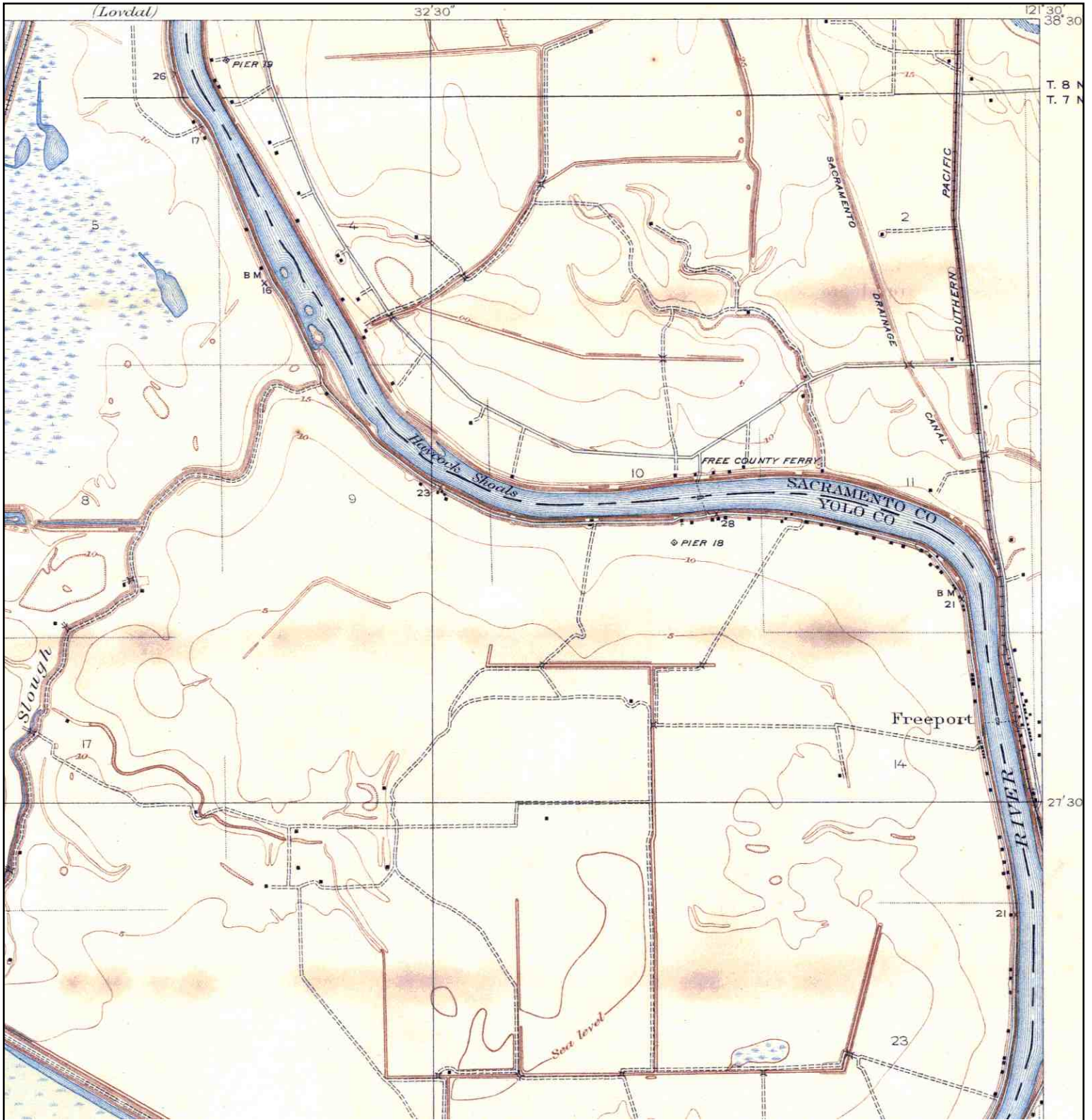
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Historical Topographic Map



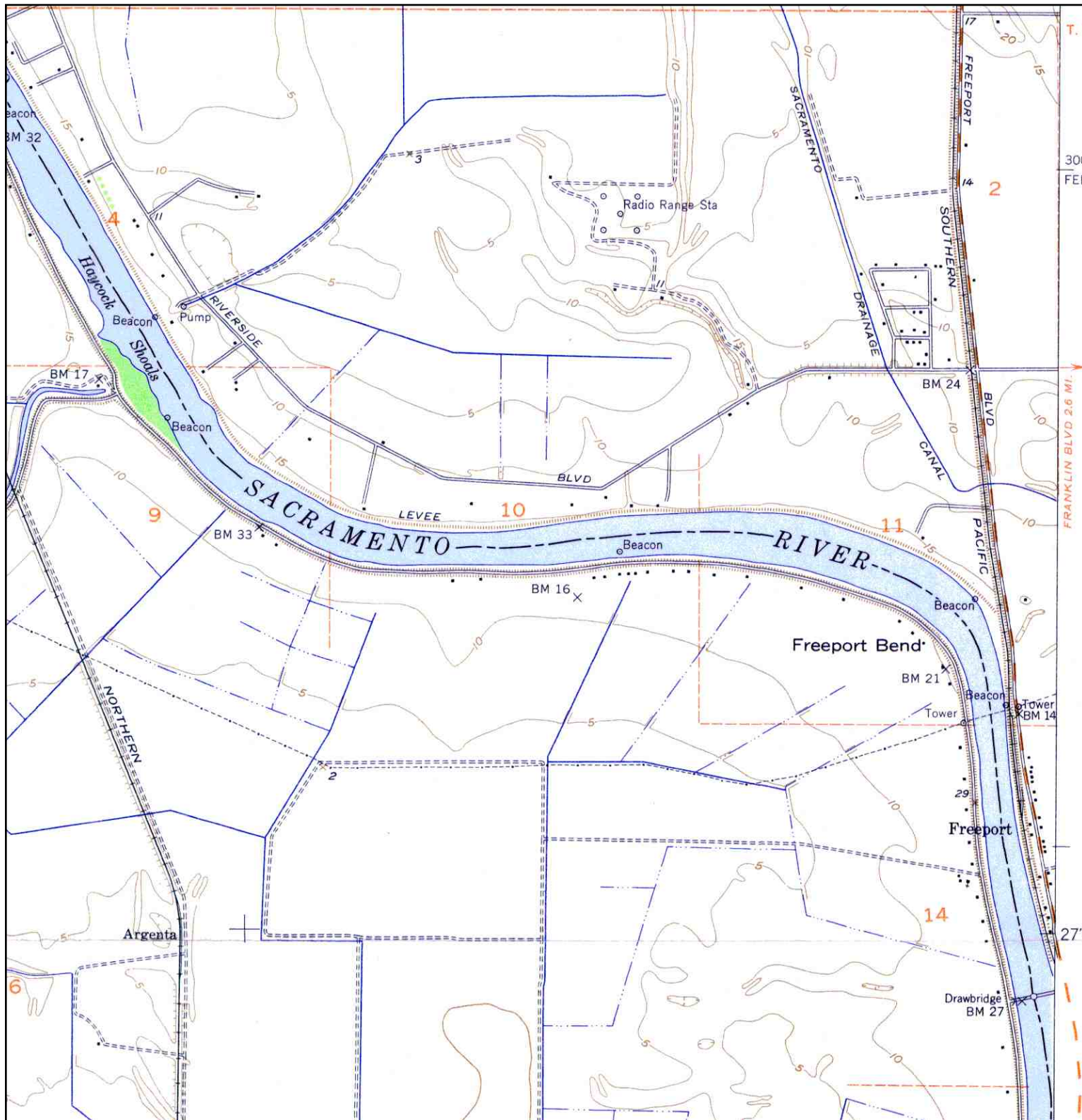
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 47.0	CLIENT:	MECx
	NAME: COURTLAND	ADDRESS:	RiverMile 47.0	CONTACT:	Robert Bell
	MAP YEAR: 1908		SACRAMENTO, CA 95831	INQUIRY#:	1790941.4
	SERIES: 15	LAT/LONG:	38.47 / 121.5047	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500				

Historical Topographic Map



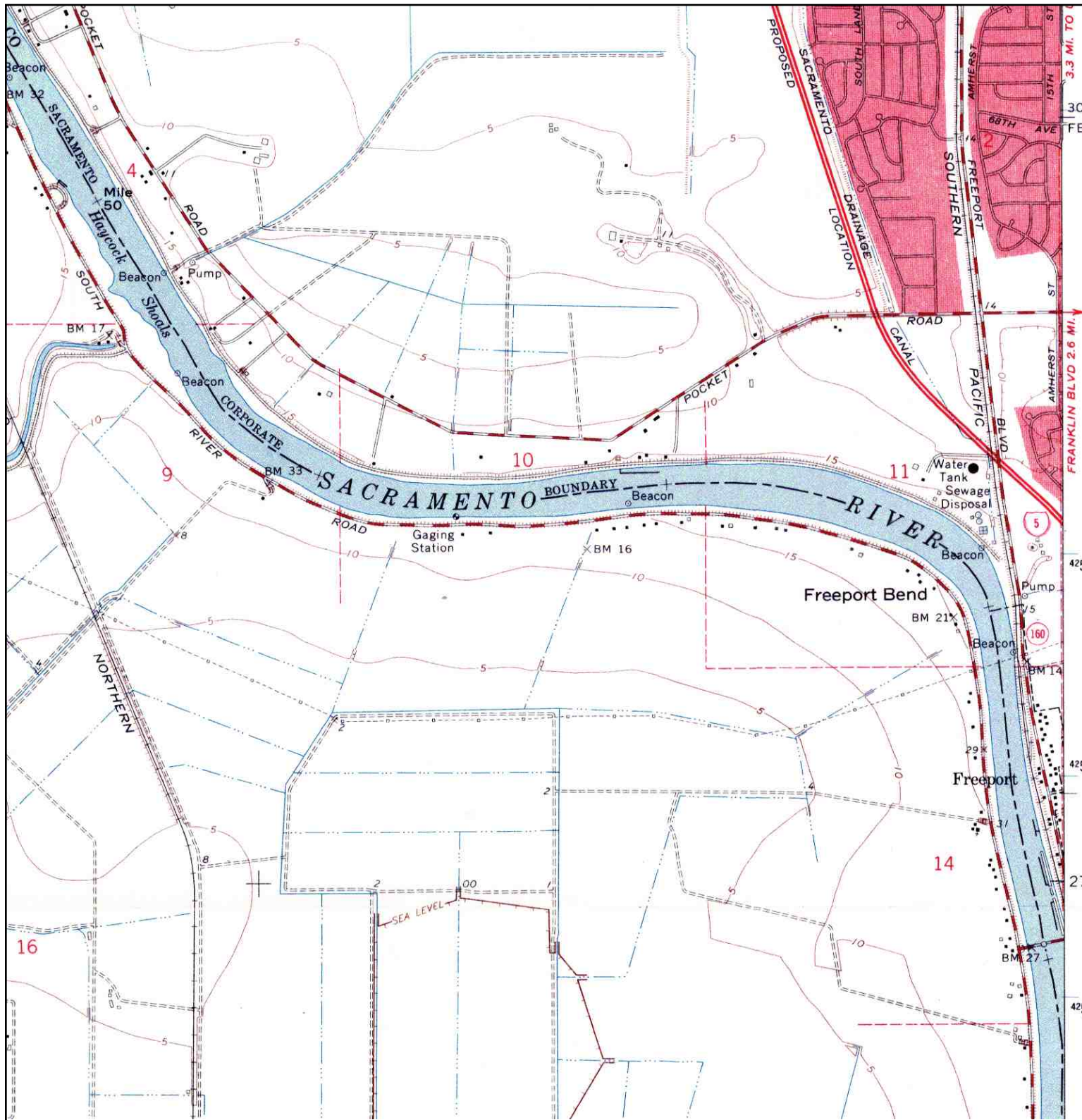
	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: BABEL SLOUGH	Sacramento River RiverMile 47.0	MECx
	MAP YEAR: 1916	ADDRESS: RiverMile 47.0	CONTACT: Robert Bell
	SERIES: 7.5	SACRAMENTO, CA 95831	INQUIRY#: 1790941.4
	SCALE: 1:31680	LAT/LONG: 38.47 / 121.5047	RESEARCH DATE: 11/07/2006

Historical Topographic Map



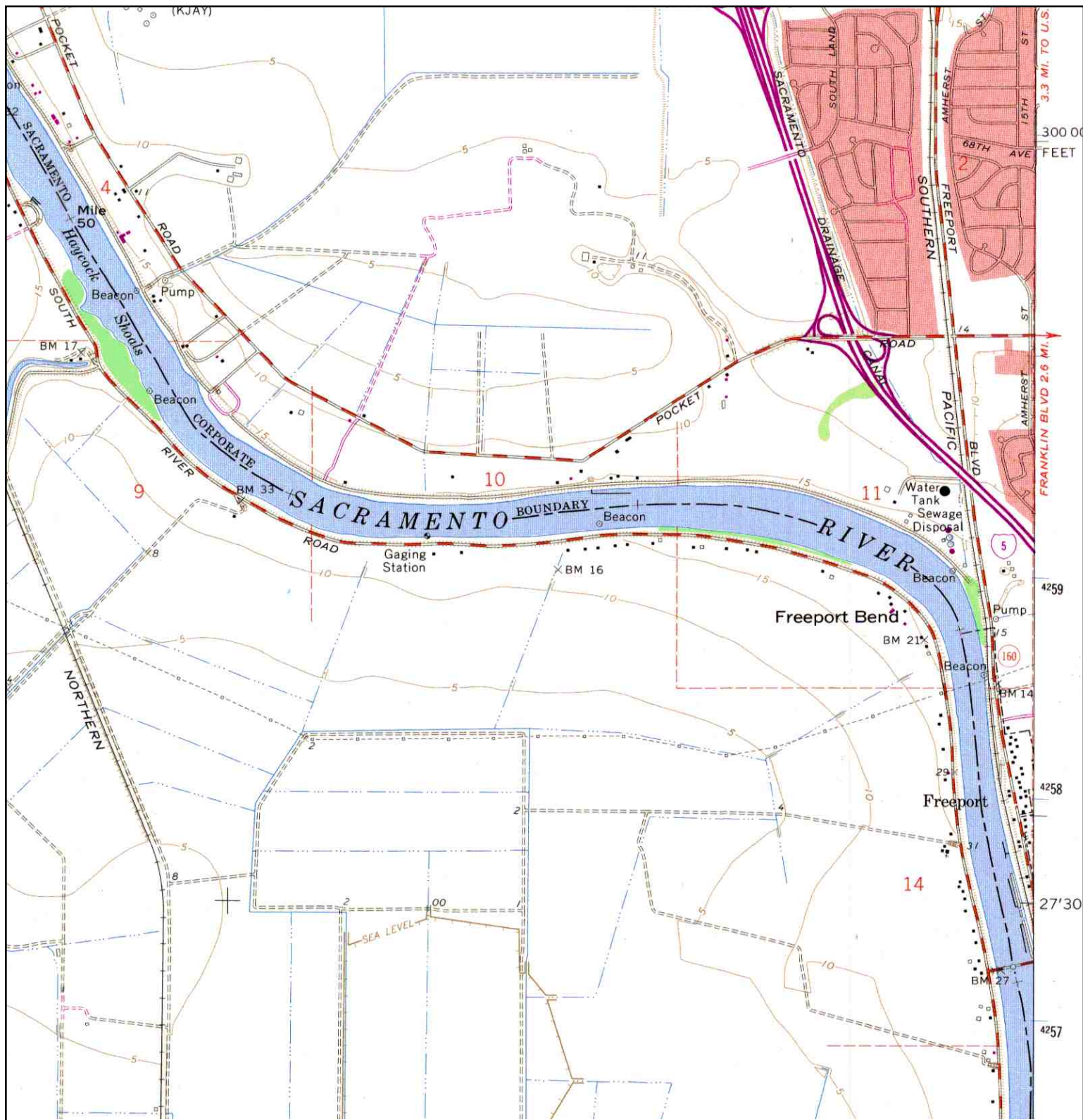
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx
	NAME: CLARKSBURG	47.0	ADDRESS:	RiverMile 47.0	CONTACT: Robert Bell
	MAP YEAR: 1952	SACRAMENTO, CA 95831	LAT/LONG:	38.47 / 121.5047	INQUIRY#: 1790941.4
	SERIES: 7.5				RESEARCH DATE: 11/07/2006
	SCALE: 1:24000				

Historical Topographic Map



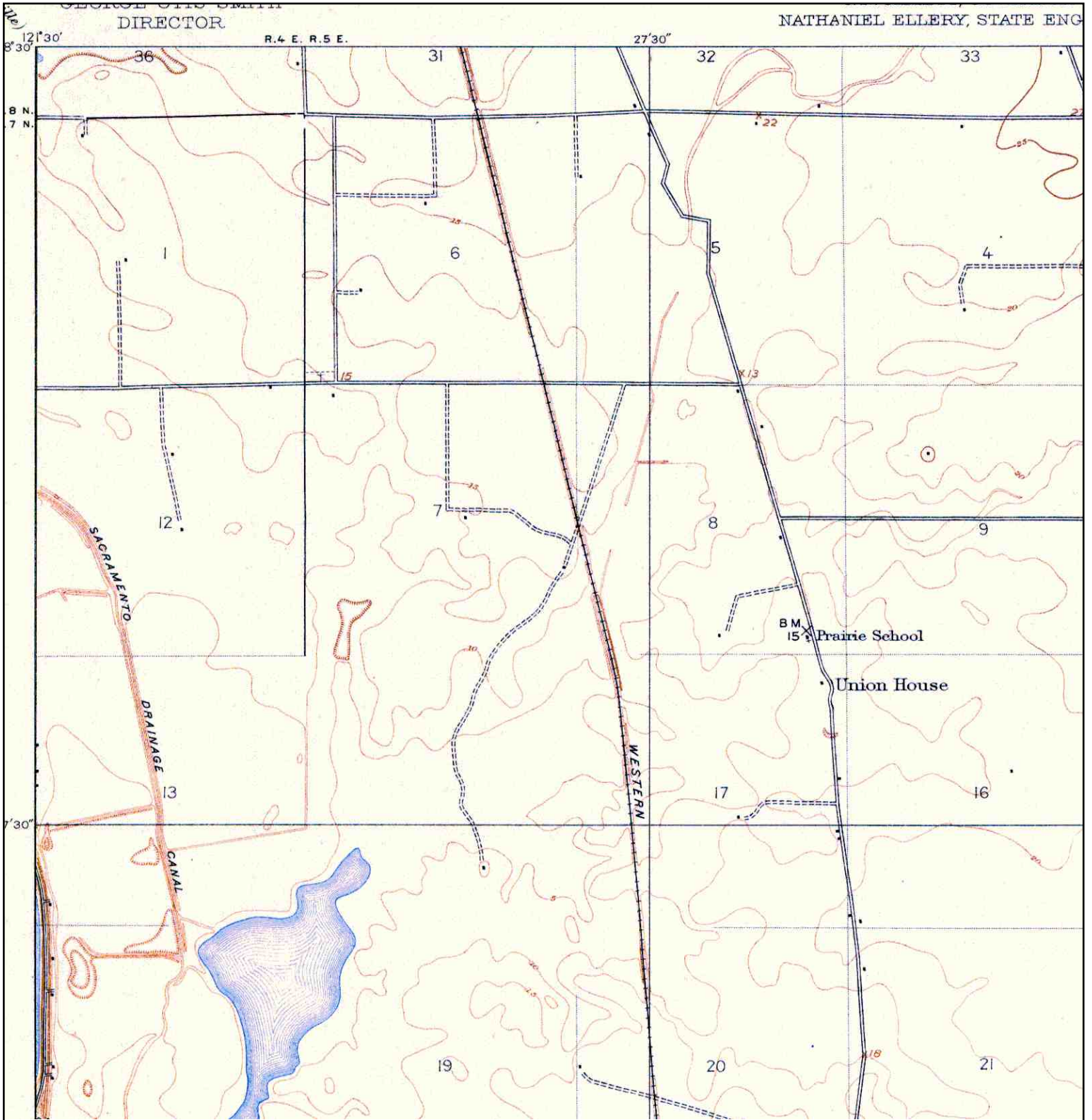
<p>N ↑</p>	<p>TARGET QUAD NAME: CLARKSBURG MAP YEAR: 1967</p>	<p>SITE NAME: Sacramento River RiverMile 47.0</p>	<p>CLIENT: MECx</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>	<p>ADDRESS: RiverMile 47.0 SACRAMENTO, CA 95831</p>	<p>CONTACT: Robert Bell</p>
		<p>LAT/LONG: 38.47 / 121.5047</p>	<p>INQUIRY#: 1790941.4</p>
			<p>RESEARCH DATE: 11/07/2006</p>


Historical Topographic Map



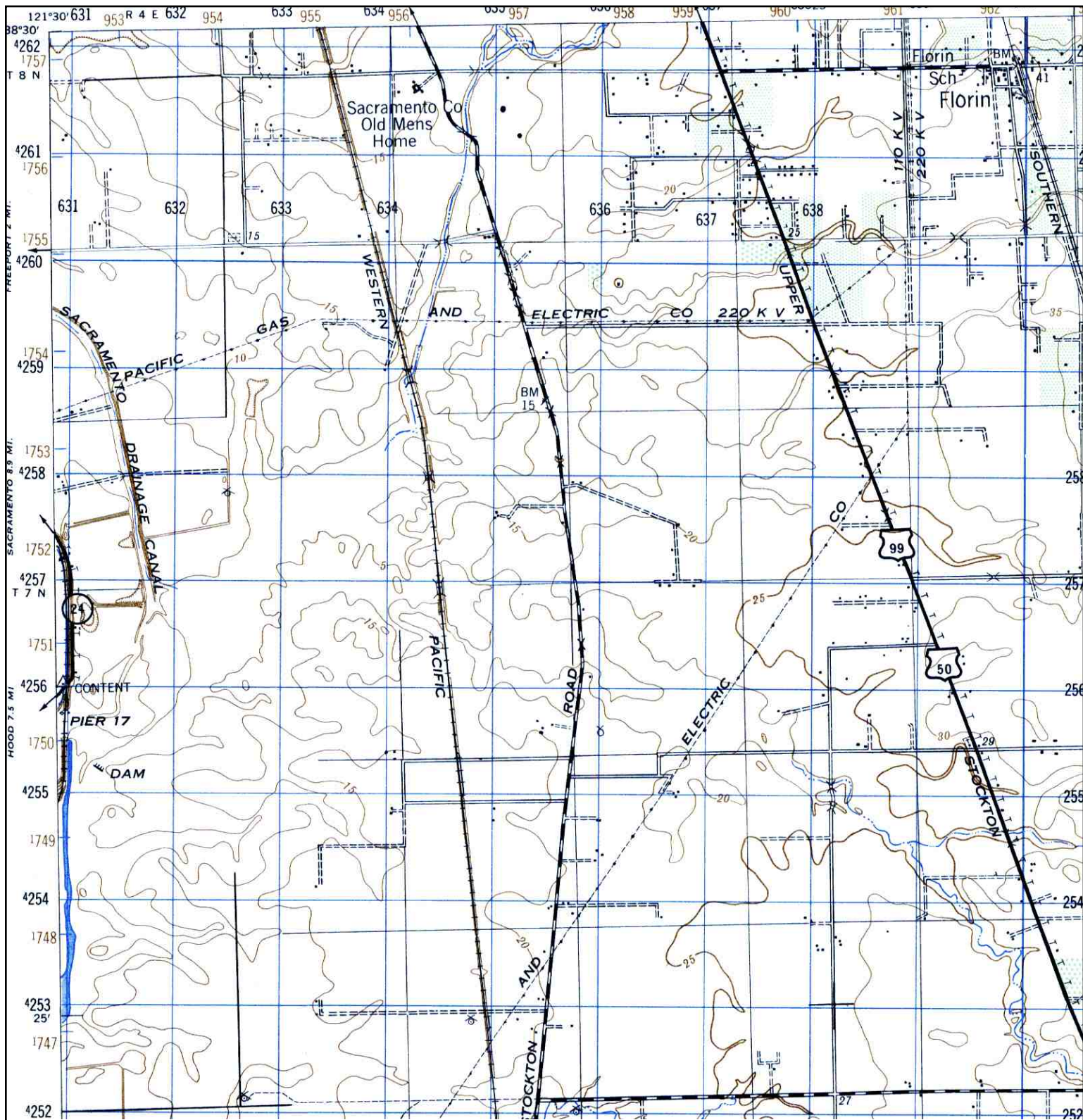
	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: CLARKSBURG	Sacramento River RiverMile 47.0	MECx
	MAP YEAR: 1975	ADDRESS: RiverMile 47.0	CONTACT: Robert Bell
	PHOTOREVISED FROM: 1967	SACRAMENTO, CA 95831	INQUIRY#: 1790941.4
	SERIES: 7.5	LAT/LONG: 38.47 / 121.5047	RESEARCH DATE: 11/07/2006
	SCALE: 1:24000		


Historical Topographic Map



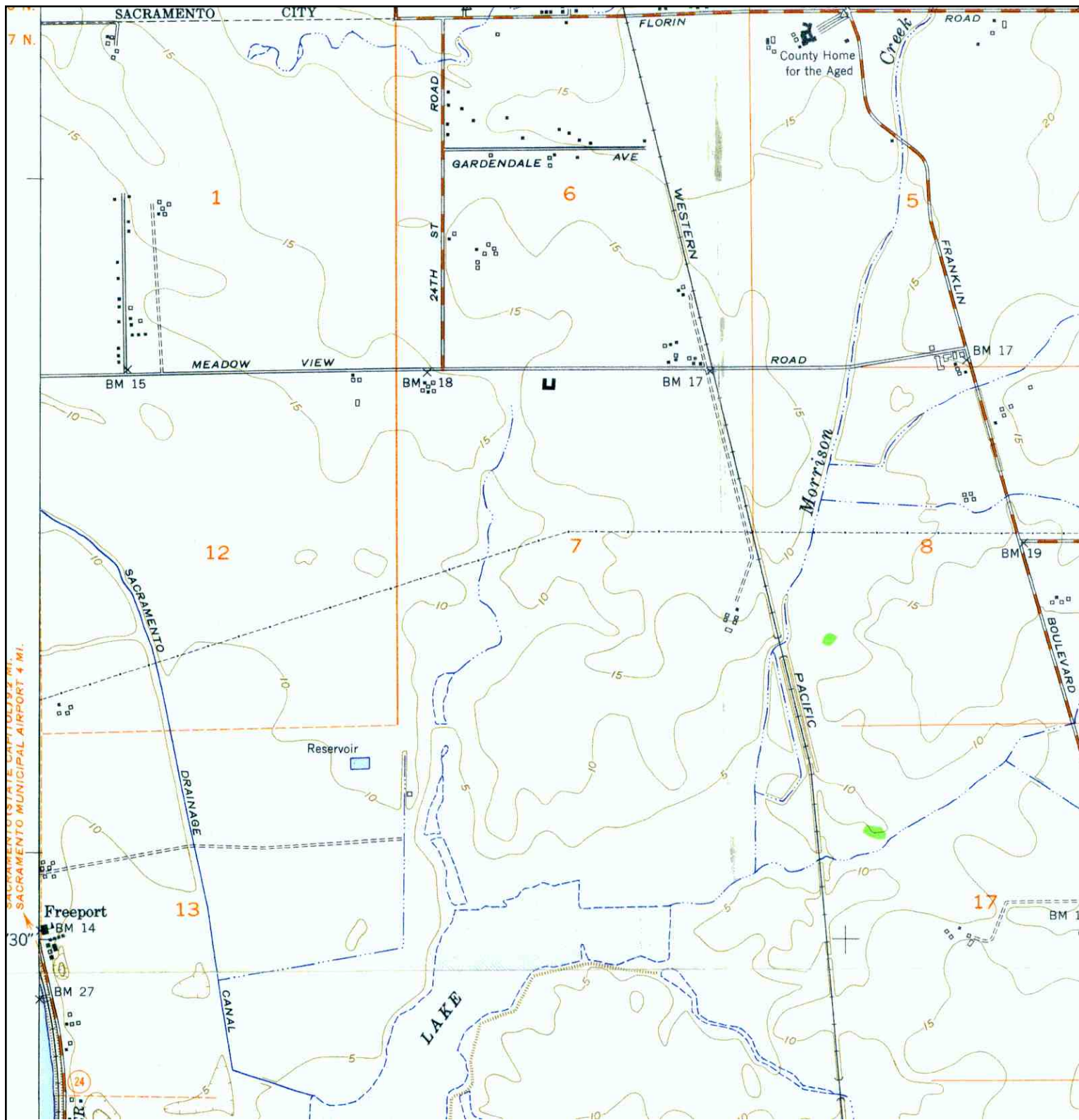
	ADJOINING QUAD NAME: FLORIN MAP YEAR: 1909	SITE NAME: Sacramento River RiverMile 47.0 ADDRESS: RiverMile 47.0 SACRAMENTO, CA 95831	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790941.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:31680	LAT/LONG: 38.47 / 121.5047	


Historical Topographic Map



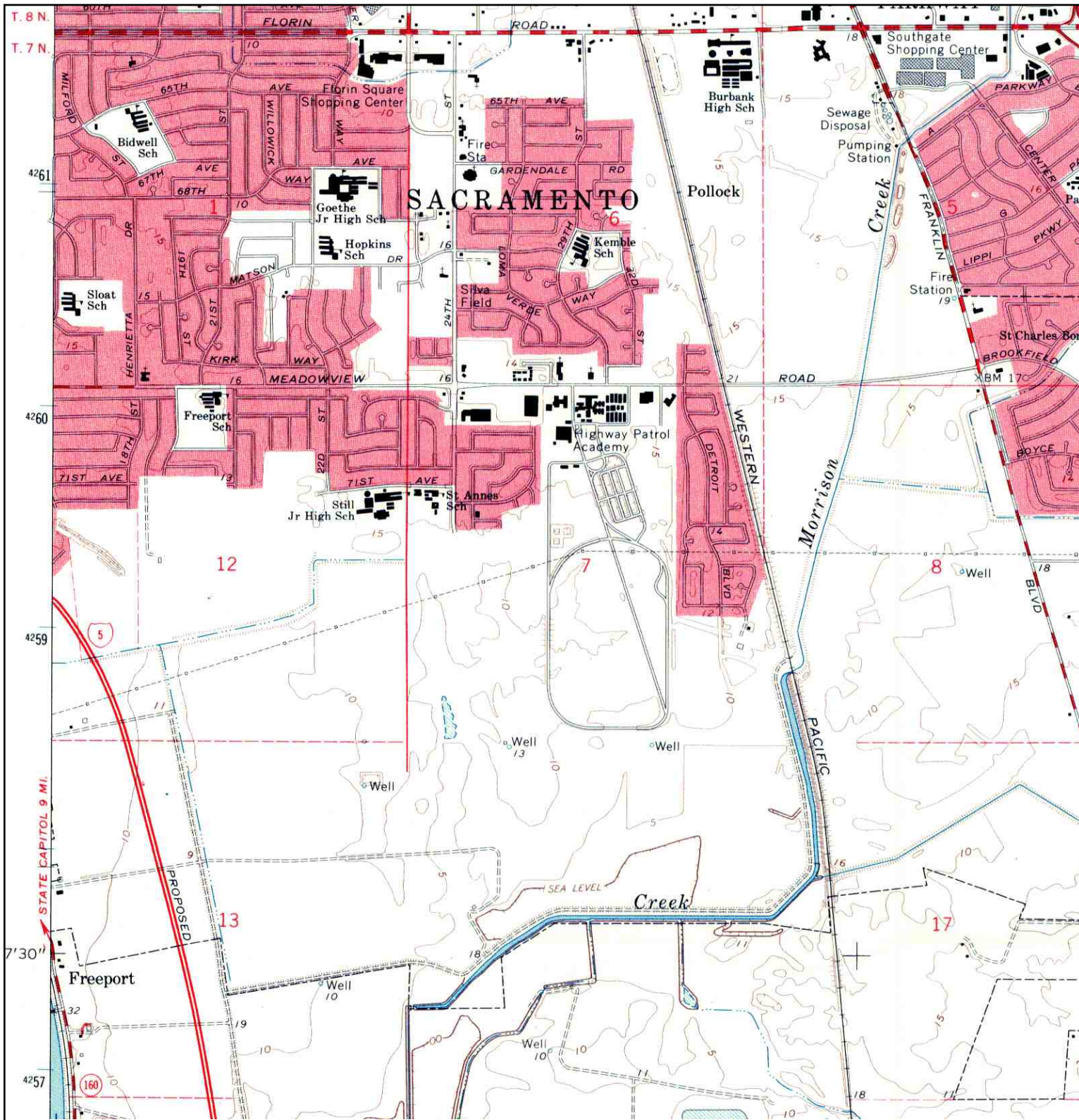
N 	ADJOINING QUAD NAME: GALT MAP YEAR: 1947	SITE NAME: Sacramento River RiverMile 47.0 ADDRESS: RiverMile 47.0 SACRAMENTO, CA 95831	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790941.4 RESEARCH DATE: 11/07/2006
	SERIES: 15 SCALE: 1:50000	LAT/LONG: 38.47 / 121.5047	


Historical Topographic Map



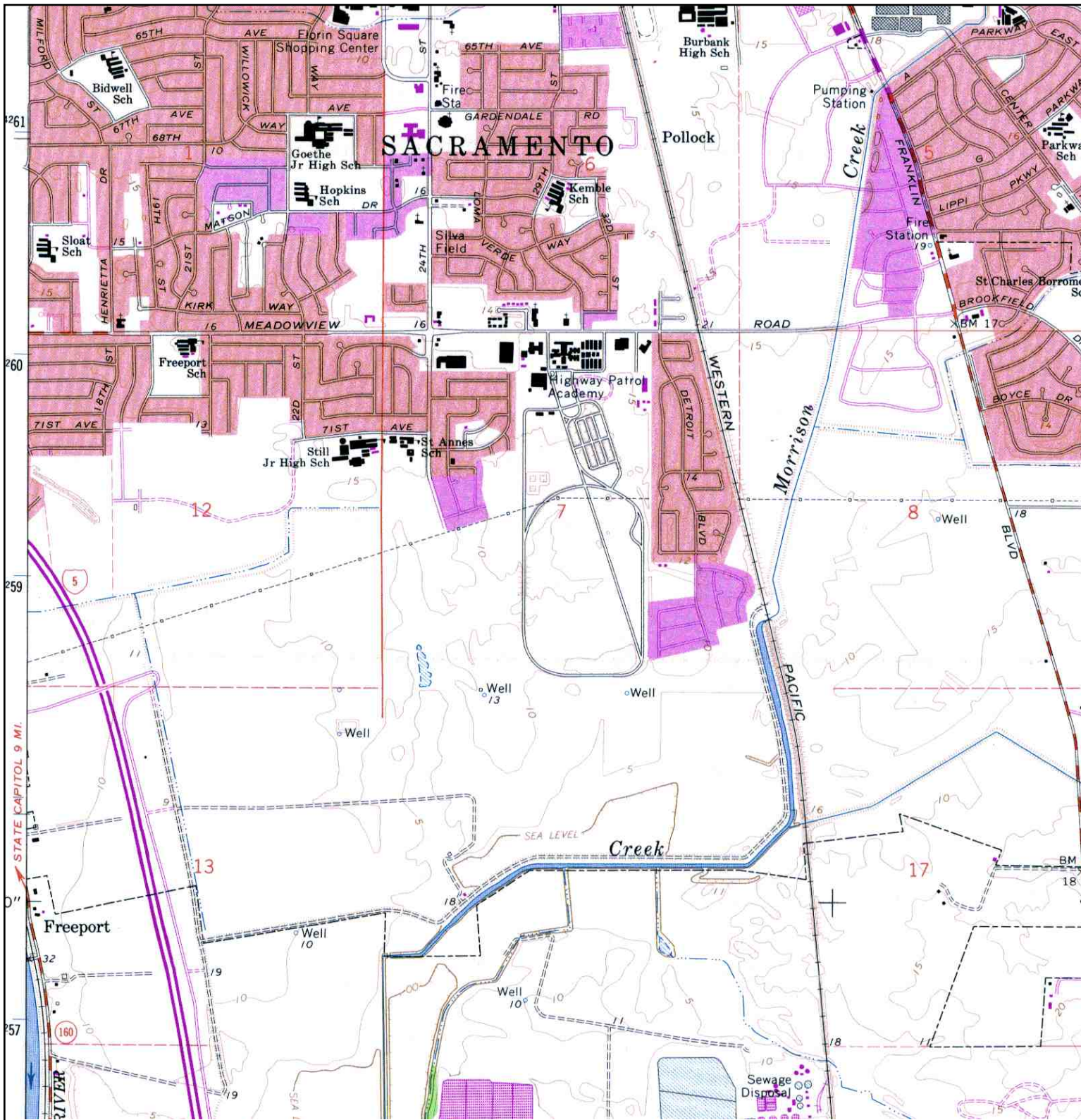
	ADJOINING QUAD NAME: FLORIN	SITE NAME: Sacramento River RiverMile 47.0	CLIENT: MECx
	MAP YEAR: 1953	ADDRESS: RiverMile 47.0 SACRAMENTO, CA 95831	CONTACT: Robert Bell
SERIES: 7.5	LAT/LONG: 38.47 / 121.5047	INQUIRY#: 1790941.4	RESEARCH DATE: 11/07/2006
SCALE: 1:24000			


Historical Topographic Map



	ADJOINING QUAD NAME: FLORIN MAP YEAR: 1968	SITE NAME: Sacramento River RiverMile 47.0 ADDRESS: RiverMile 47.0 SACRAMENTO, CA 95831	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790941.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:24000	LAT/LONG: 38.47 / 121.5047	

Historical Topographic Map



<p>N</p> 	ADJOINING QUAD	SITE NAME:	CLIENT:
	NAME: FLORIN	Sacramento River RiverMile	MECx
	MAP YEAR: 1975	47.0	CONTACT: Robert Bell
	PHOTOREVISED FROM: 1968	ADDRESS: RiverMile 47.0	INQUIRY#: 1790941.4
	SERIES: 7.5	SACRAMENTO, CA 95831	RESEARCH DATE: 11/07/2006
	SCALE: 1:24000	LAT/LONG: 38.47 / 121.5047	

APPENDIX J

**EDR REPORT FOR SAC47.9R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 47.9
RiverMile 47.9
CLARKSBURG, CA 95612**

Inquiry Number: 1790789.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 47.9
CLARKSBURG, CA 95612

COORDINATES

Latitude (North): 38.473500 - 38° 28' 24.6"
Longitude (West): 121.518300 - 121° 31' 5.9"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 629255.0
UTM Y (Meters): 4259186.0
Elevation: 0 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

East Map: 38121-D4 FLORIN, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

EXECUTIVE SUMMARY

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

EXECUTIVE SUMMARY

TRIBAL RECORDS

INDIAN RESERV...... Indian Reservations
INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

NOTIFY 65: Notify 65 records contain facility notifications about any release that could impact drinking water and thereby expose the public to a potential health risk. The data come from the State Water Resources Control Board's Proposition 65 database.

A review of the Notify 65 list, as provided by EDR, and dated 10/21/1993 has revealed that there is 1 Notify 65 site within approximately 1 mile of the target property.

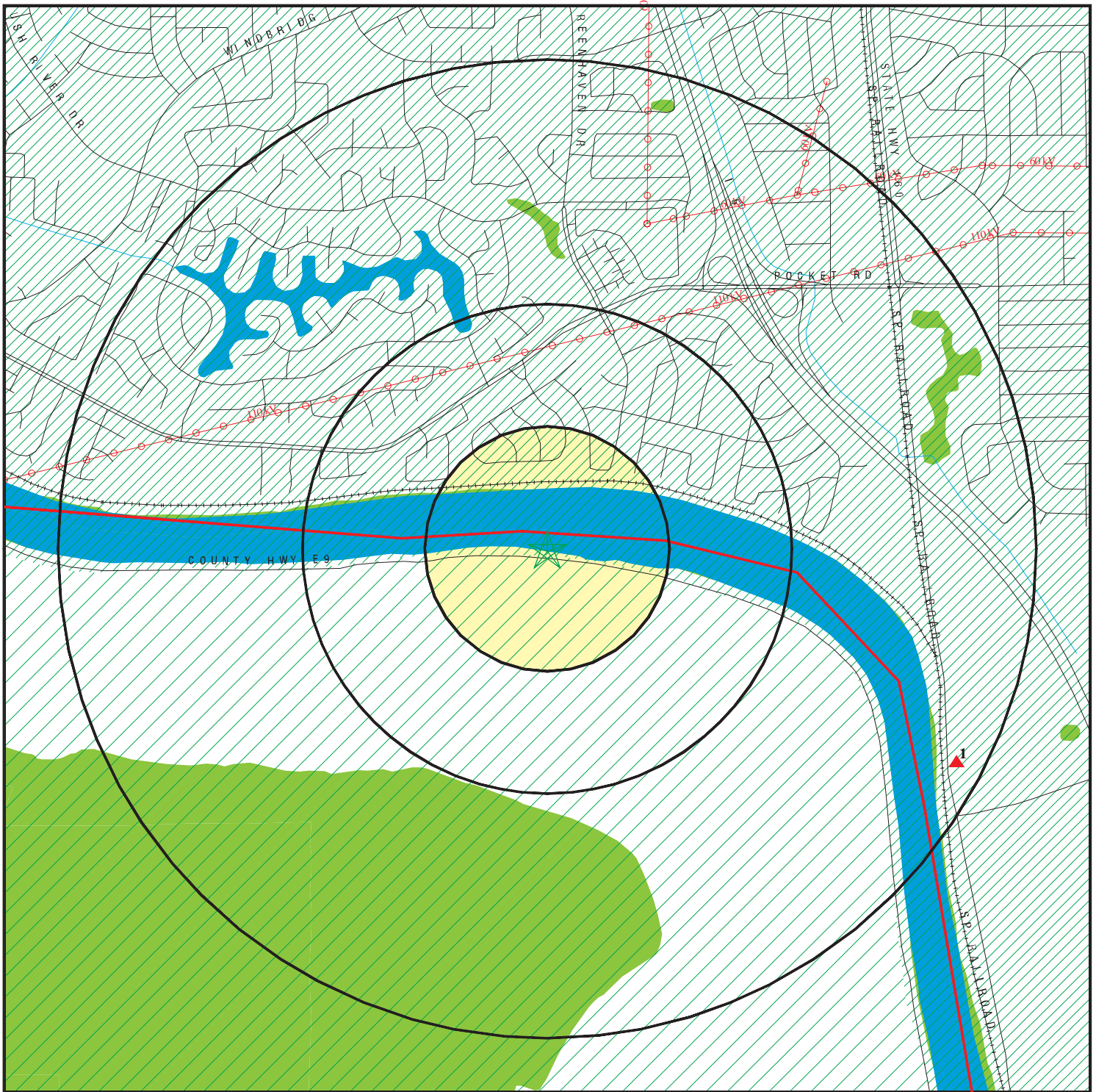
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>GTE DATA SERVICES</i>	<i>7901 FREEPORT BLVD</i>	<i>1/2 - 1 ESE</i>	<i>1</i>	<i>6</i>

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
SIMPLOT CLARKSBURG	LUST, Cortese
CLARKSBURG	LUST, Cortese
SHORTER'S CORNER	UST
LEE & GINNY'S ISLAND MARINA R	UST
MARY PETERS ESTATE PUMP HOUSE	UST
MARY PETERS ESTATE PUMP HOUSE	UST
J R SIMPLOT CO	UST
BORGES CLARKSBURG AIRPORT	UST
GARTER RANCH	HIST UST
RIVER DELTA COGENERATION	EMI

OVERVIEW MAP - 1790789.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- Areas of Concern
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

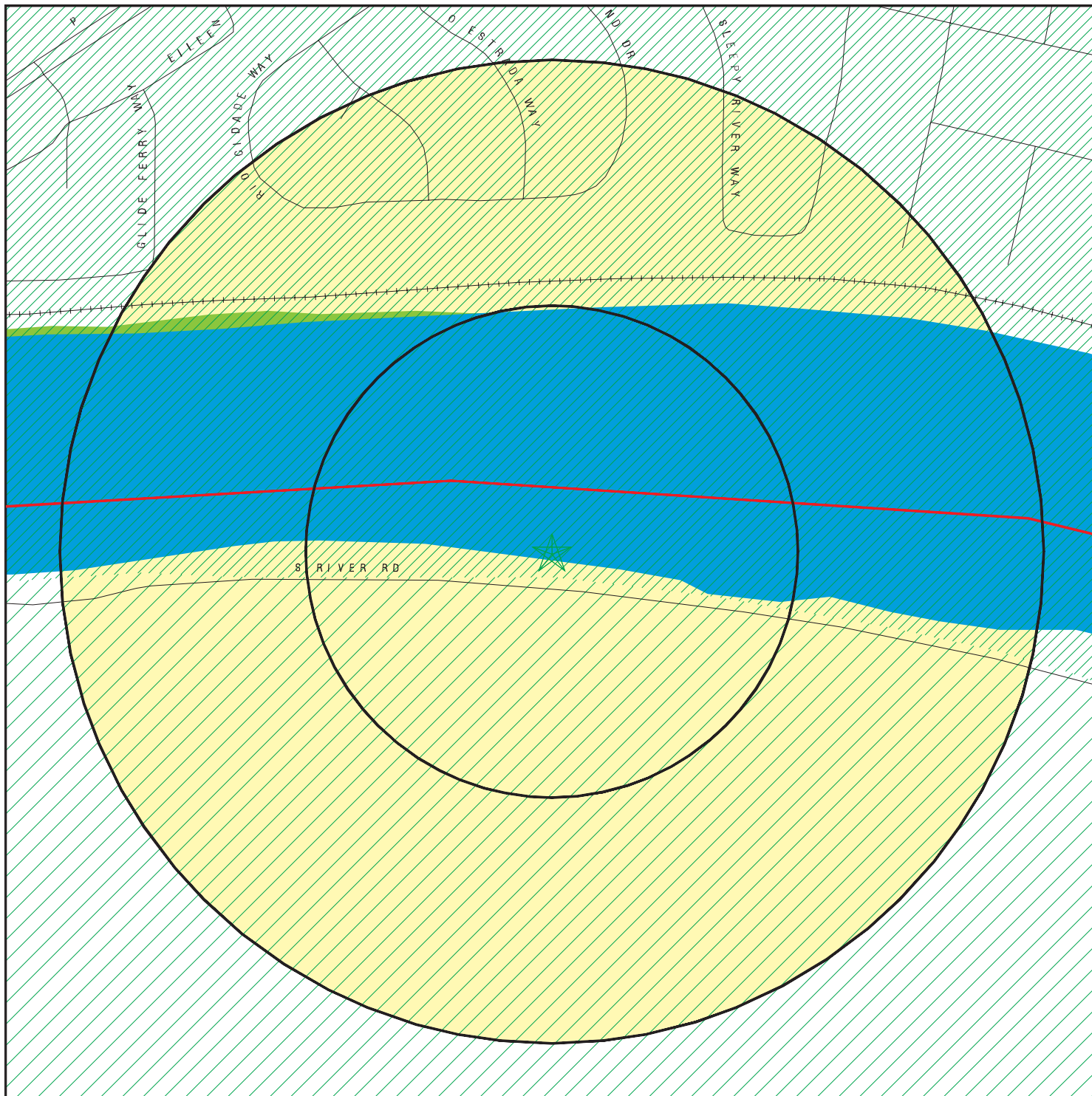


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 47.9
 ADDRESS: RiverMile 47.9
 CLARKSBURG CA 95612
 LAT/LONG: 38.4735 / 121.5183

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790789.2s
 DATE: November 07, 2006 10:46 am

DETAIL MAP - 1790789.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 47.9
 ADDRESS: RiverMile 47.9
 CLARKSBURG CA 95612
 LAT/LONG: 38.4735 / 121.5183

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790789.2s
 DATE: November 07, 2006 10:46 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	1	NR	1
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET	TP		NR	NR	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

1
ESE
1/2-1
4977 ft.

GTE DATA SERVICES
7901 FREEPORT BLVD
SACRAMENTO, CA 95832

Notify 65
HAZNET
LUST
Cortese
Sacramento Co. ML

U000073683
N/A

Relative:
Higher

Notify 65:
 Date Reported: Not reported
 Staff Initials: Not reported
 Board File Number: Not reported
 Facility Type: Not reported
 Discharge Date: Not reported
 Incident Description: 92324

Actual:
20 ft.

HAZNET:
 Gepaid: CAC001131896
 Contact: GTE DATA SVC
 Telephone: 0000000000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 7901 FREEPORT BLVD
 Mailing City,St,Zip: SACRAMENTO, CA 958320000
 Gen County: Sacramento
 TSD EPA ID: CAD982444481
 TSD County: San Bernardino
 Waste Category: Other organic solids
 Disposal Method: Transfer Station
 Tons: .6000
 Facility County: Sacramento

Gepaid: CAL000234998
 Contact: MIKE BUSH
 Telephone: 9166653293
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 7901 FREEPORT BLVD
 Mailing City,St,Zip: SACRAMENTO, CA 958320000
 Gen County: Sacramento
 TSD EPA ID: Not reported
 TSD County: Yolo
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Transfer Station
 Tons: 1.37
 Facility County: Not reported

Gepaid: CAC002436959
 Contact: MIKE BUSH
 Telephone: 9166653293
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 7901 FREEPORT BLVD
 Mailing City,St,Zip: SACRAMENTO, CA 958320000
 Gen County: Sacramento
 TSD EPA ID: Not reported
 TSD County: 99
 Waste Category: Not reported
 Disposal Method: Recycler
 Tons: 0.03
 Facility County: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

GTE DATA SERVICES (Continued)

U000073683

LUST:

Region: STATE
Case Type: Drinking Water Aquifer affected
Cross Street: STONECREST
Enf Type: None Taken
Funding: Federal
How Discovered: Not reported
How Stopped: Not reported
Leak Cause: Not reported
Leak Source: Not reported
Global Id: T0606700290
Stop Date: Not reported
Confirm Leak: 1989-06-27 00:00:00
Workplan: 1989-06-27 00:00:00
Prelim Assess: 1989-07-17 00:00:00
Pollution Char: 1992-04-02 00:00:00
Remed Plan: 1990-12-14 00:00:00
Remed Action: Not reported
Monitoring: Not reported
Close Date: 1996-10-01 00:00:00
Discover Date: 1989-06-27 00:00:00
Enforcement Dt: 1965-01-01 00:00:00
Release Date: 1989-07-17 00:00:00
Review Date: 1993-03-10 00:00:00
Enter Date: 1989-10-11 00:00:00
MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Max MTBE GW ppb: Not reported
Max MTBE Soil ppb: Not reported
County: 34
Org Name: Not reported
Reg Board: 5S
Status: Case Closed
Chemical: Diesel
Contact Person: Not reported
Responsible Party: GTE DATA SERVICES
RP Address: 7901 FREEPORT BLVD, SACRAMENTO, CA 95832
Interim: Not reported
Oversight Prgm: LUST
MTBE Class: *
MTBE Conc: 0
MTBE Fuel: 0
MTBE Tested: Not Required to be Tested.
Staff: VJF
Staff Initials: BIM
Lead Agency: Local Agency
Local Agency: 34000L
Hydr Basin #: SACRAMENTO VALLEY (5)
Beneficial: Not reported
Priority: 3
Cleanup Fund Id: Not reported
Work Suspended: No
Local Case #: 0516
Case Number: 340359
Qty Leaked: Not reported
Abate Method: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

GTE DATA SERVICES (Continued)

U000073683

Operator: Not reported
Water System Name:A J BUMPS
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: W0606700220
Waste Disch Assigned Name: 3400220-001GEN
Summary: Not reported

LUST:

Region: 5
Case Number: 340359
Staff Initials: VJF
Substance: DIESEL
Case Type: Drinking Water Aquifer affected
Status: Case Closed
Lead Agency: Local
Program: LUST
MTBE Code: N/A

Cortese:

Region: CORTESE
Facility Addr2: 7901 FREEPORT BLVD

Sacramento Co. ML:

FD: Not reported
Billing Codes BP: 5203
Billing Codes UST: 5413
WG Bill Code: 5413
Target Property Bill Cod: Not reported
Food Bill Code: Not reported
CUPA Permit Date: Not reported
HAZMAT Permit Date: Not reported
HAZMAT Inspection Date: Not reported
Hazmat Date BP Received: Not reported
UST Permit Dt: Not reported
UST Inspection Date: Not reported
UST Tank Test Date: Not reported
Number of Tanks: 3
Facility Id: Not reported
UST Tank Test Date: Not reported
SIC Code: Not reported
Tier Permitting: Not reported
Risk Mgmt Protection Program: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLARKSBURG	S106838320	RIVER DELTA COGENERATION	ROUTE 1	95612	EMI
CLARKSBURG	U003850953	SHORTER'S CORNER	RT 1 BOX 162	95612	UST
CLARKSBURG	U003895677	LEE & GINNY'S ISLAND MARINA R	RT 1 BOX 118	95612	UST
CLARKSBURG	U003785742	MARY PETERS ESTATE PUMP HOUSE	CORNER OF RIVER RD	95612	UST
CLARKSBURG	U004003790	MARY PETERS ESTATE PUMP HOUSE	S CORNER OF RIVER RD	95612	UST
CLARKSBURG	S105023303	SIMPLOT CLARKSBURG	COURTLAND RD / HWY 84 S	95612	LUST, Cortese
CLARKSBURG	U004003745	J R SIMPLOT CO	COURTLAND & HWY 84	95612	UST
CLARKSBURG	U001612478	GARTER RANCH	SOUTH RIVER ROAD	95612	HIST UST
CLARKSBURG	U003850790	BORGES CLARKSBURG AIRPORT	S RIVER RD	95612	UST
CLARKSBURG	S102428122	CLARKSBURG	WILLOW POINT RD	95612	LUST, Cortese

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 47.9
RIVERMILE 47.9
CLARKSBURG, CA 95612

TARGET PROPERTY COORDINATES

Latitude (North):	38.47350 - 38° 28' 24.6"
Longitude (West):	121.5183 - 121° 31' 5.9"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	629255.0
UTM Y (Meters):	4259186.0
Elevation:	0 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38121-D5 CLARKSBURG, CA
Most Recent Revision:	1980
East Map:	38121-D4 FLORIN, CA
Most Recent Revision:	1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

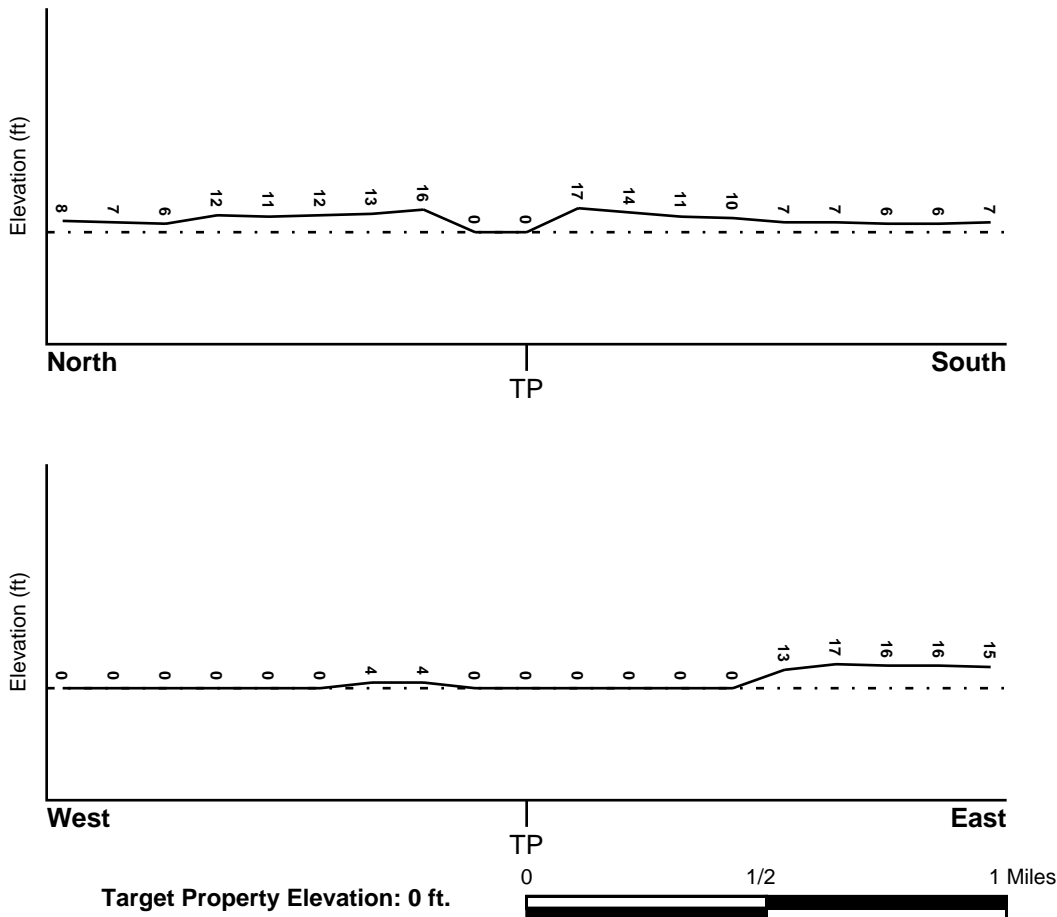
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SACRAMENTO, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
---	--

Flood Plain Panel at Target Property: 0604230660C

Additional Panels in search area: 0602660030E
0602660025E
0602620285D

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> CLARKSBURG	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
--	--

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

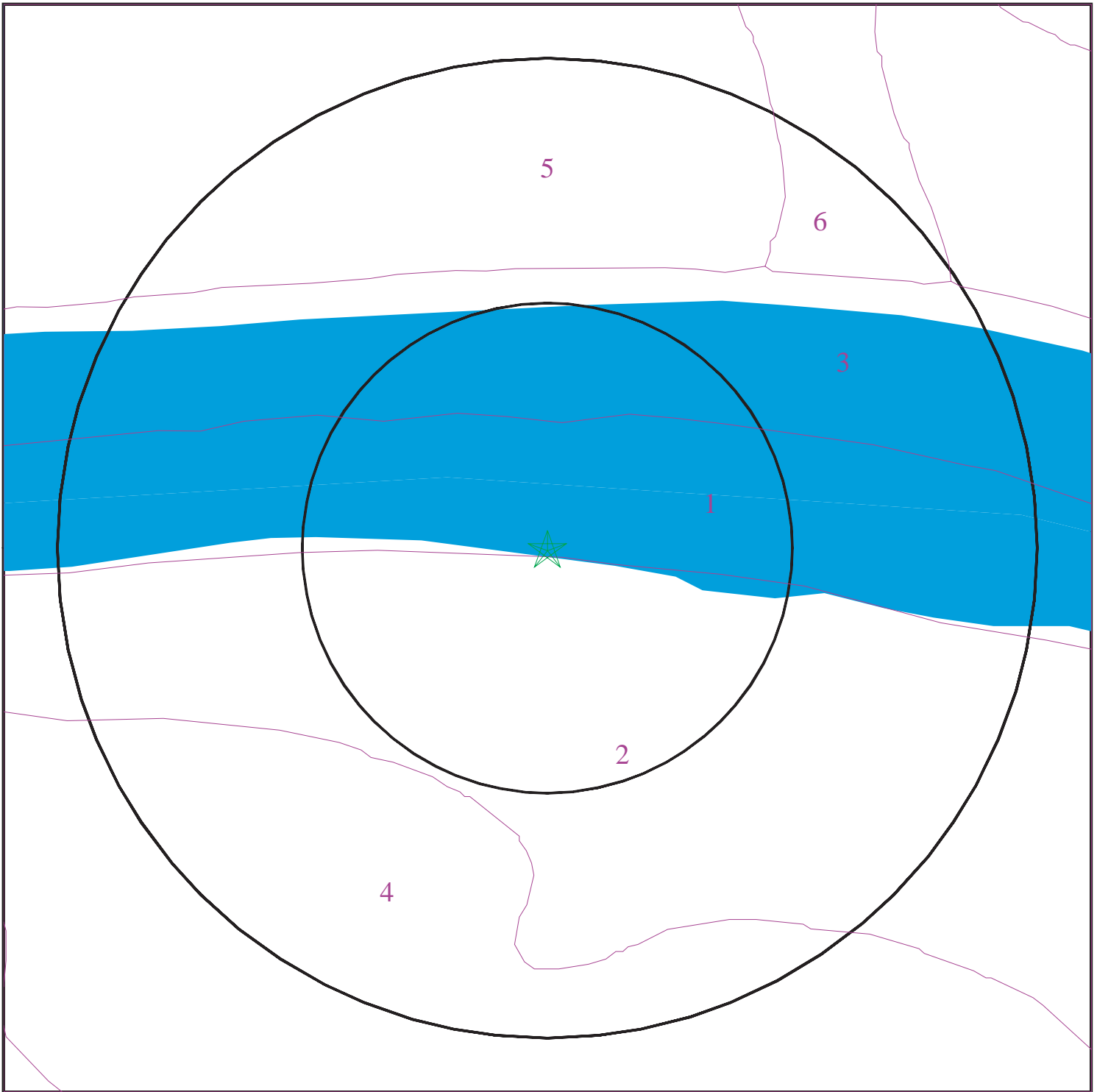
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790789.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sacramento River RiverMile 47.9
ADDRESS: RiverMile 47.9
CLARKSBURG CA 95612
LAT/LONG: 38.4735 / 121.5183

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790789.2s
DATE: November 07, 2006 10:46 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: SYCAMORE

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	14 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

Soil Map ID: 3

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: TYNDALL

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40
2	16 inches	60 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 9.00 Min: 7.40

Soil Map ID: 5

Soil Component Name: VALPAC

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	10 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.60
2	10 inches	61 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

Soil Map ID: 6

Soil Component Name: LAUGENOUR

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
2	16 inches	39 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40
3	39 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3226387	0 - 1/8 Mile South
2	USGS3226386	1/8 - 1/4 Mile ESE
3	USGS3226399	1/4 - 1/2 Mile WNW
A4	USGS3226376	1/4 - 1/2 Mile WSW
A5	USGS3226379	1/4 - 1/2 Mile WSW
6	USGS3226403	1/2 - 1 Mile ENE
7	USGS3226263	1/2 - 1 Mile NNW
8	USGS3226353	1/2 - 1 Mile SE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

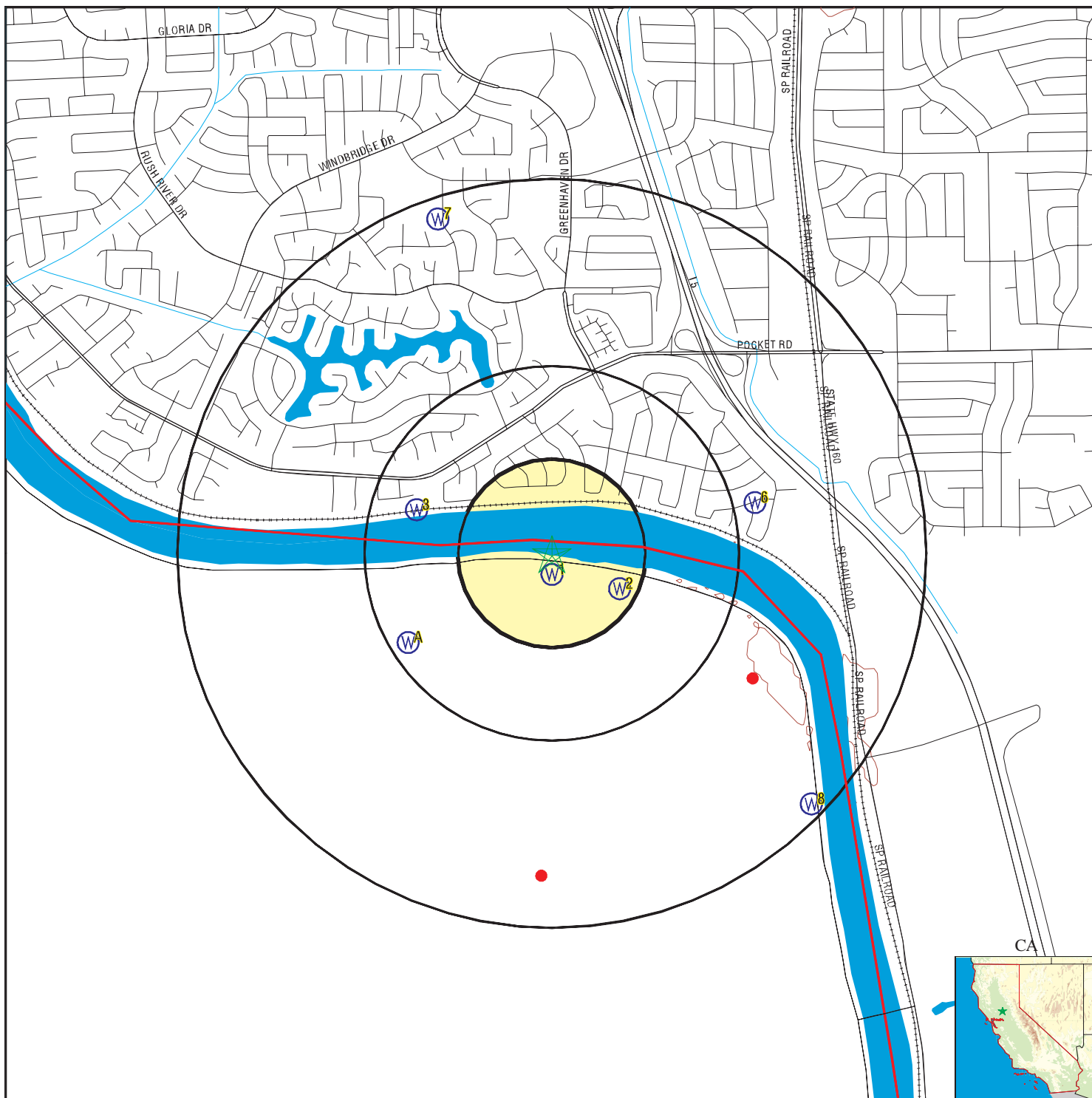
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/2 - 1 Mile ESE	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 1790789.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Sacramento River RiverMile 47.9
 ADDRESS: RiverMile 47.9
 CLARKSBURG CA 95612
 LAT/LONG: 38.4735 / 121.5183

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790789.2s
 DATE: November 07, 2006 10:46 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
South
0 - 1/8 Mile
Higher

FED USGS USGS3226387

Agency cd:	USGS	Site no:	382822121310201
Site name:	007N004E11M002M		
Latitude:	382822		
Longitude:	1213102	Dec lat:	38.4726857
Dec lon:	-121.51828866	Coor meth:	M
Coor accr:	M	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	16.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19570408
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	67.0	Hole depth:	67.0
Source of depth data:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data begin date:	Not Reported		
Daily flow data end date:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data begin date:	Not Reported		
Water quality data end date:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

2
ESE
1/8 - 1/4 Mile
Higher

FED USGS USGS3226386

Agency cd:	USGS	Site no:	382820121305001
Site name:	007N004E11M003M		
Latitude:	382820		
Longitude:	1213050	Dec lat:	38.47213016
Dec lon:	-121.51495525	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	17.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19680630
Date inventoried:	Not Reported	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	118	Hole depth:	172
Source of depth data:	Not Reported		
Real time data flag:	0	Project number:	8479423711
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	0000-00-00	Water quality data count:	0
Ground water data count:	0	Ground water data end date:	0000-00-00

Ground-water levels, Number of Measurements: 0

3
WNW
1/4 - 1/2 Mile
Higher

FED USGS USGS3226399

Agency cd:	USGS	Site no:	382831121312601
Site name:	007N004E10G008M		
Latitude:	382831		
Longitude:	1213126	Dec lat:	38.47518562
Dec lon:	-121.5249555	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	15.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19720423
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	124	Hole depth:	130
Source of depth data:	Not Reported		
Real time data flag:	0	Project number:	0479423712
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1972-04-23	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1972-04-23

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1972-04-23	14.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

A4
WSW
1/4 - 1/2 Mile
Higher

FED USGS USGS3226376

Agency cd:	USGS	Site no:	382812121312701
Site name:	007N004E10Q001M		
Latitude:	382812		
Longitude:	1213127	Dec lat:	38.469908
Dec lon:	-121.52523323	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	8.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19740327
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	120	Hole depth:	120
Source of depth data:	Not Reported		
Real time data flag:	0	Project number:	8479423711
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	1974-03-27	Water quality data count:	0
Ground water data count:	1	Ground water data end date:	1974-03-27

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1974-03-27	8.00	

A5
WSW
1/4 - 1/2 Mile
Higher

FED USGS USGS3226379

Agency cd:	USGS	Site no:	382813121312801
Site name:	007N004E10Q002M		
Latitude:	382813		
Longitude:	1213128	Dec lat:	38.47018577
Dec lon:	-121.52551102	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	8.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19750506
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	RIVER CHANNEL DEPOSITS		
Well depth:	125	Hole depth:	125
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-08-27
Water quality data end date:	1981-08-27	Water quality data count:	1
Ground water data begin date:	1975-05-06	Ground water data end date:	1975-05-06
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1975-05-06	9.00	

**6
ENE
1/2 - 1 Mile
Higher**

FED USGS USGS3226403

Agency cd:	USGS	Site no:	382832121302601
Site name:	007N004E11G002M		
Latitude:	382832	Dec lat:	38.4754634
Longitude:	1213026	Coor meth:	M
Dec lon:	-121.50828847	Latlong datum:	NAD27
Coor accr:	S	District:	06
Dec latlong datum:	NAD83	County:	067
State:	06	Land net:	Not Reported
Country:	US	Map scale:	24000
Location map:	CLARKSBURG	Altitude method:	M
Altitude:	12.00	Altitude datum:	NGVD29
Altitude accuracy:	2.5		
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19730401
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	320	Hole depth:	320
Source of depth data:	driller	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1973-07-10
Water quality data end date:	1975-06-16	Water quality data count:	2
Ground water data begin date:	1973-04-01	Ground water data end date:	1982-08-12
Ground water data count:	2		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-08-12	23.19		1973-04-01	24.00	

7

**NNW
1/2 - 1 Mile
Higher**

FED USGS USGS3226263

Agency cd:	USGS	Site no:	382911121312301
Site name:	007N004E03K002M		
Latitude:	382911.20		
Longitude:	1213126.07	Dec lat:	38.48644444
Dec lon:	-121.52390833	Coor meth:	G
Coor accr:	5	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	7	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19971023
Date inventoried:	19971023	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	SACRAMENTO VALLEY AQUIFER		
Well depth:	37.5	Hole depth:	37.5
Source of depth data:	reporting agency (generally USGS)	Project number:	470650400
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1997-10-23
Water quality data end date:	1998-06-22	Water quality data count:	3
Ground water data begin date:	1998-06-22	Ground water data end date:	2004-05-27
Ground water data count:	2		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-05-27	5.29		1998-06-22	4.61	

8

**SE
1/2 - 1 Mile
Higher**

FED USGS USGS3226353

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	382750121301601
Site name:	007N004E14B001M		
Latitude:	382750		
Longitude:	1213016	Dec lat:	38.46379708
Dec lon:	-121.50551052	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	16.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19540109
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	103	Hole depth:	109
Source of depth data:	Not Reported		
Real time data flag:	Not Reported		
Daily flow data begin date:	Not Reported		
Daily flow data end date:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data begin date:	Not Reported		
Water quality data end date:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

ESE
1/2 - 1 Mile

OIL_GAS CA10182015

Apinumber:	11320690	Operator:	Jem Petroleum Corp.
Lease:	Mesquita	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.46875		
Longitude:	-121.50734		
Td:	7000	Sec:	11
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

South
1/2 - 1 Mile

OIL_GAS CA10181970

Apinumber:	11320375	Operator:	Atlantic Oil Co.
Lease:	Kirtlan	Well no:	3
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	007
Source:	hud		
Latitude:	38.46111		
Longitude:	-121.51775		
Td:	3957	Sec:	15
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95612	2	0	0.00

Federal EPA Radon Zone for YOLO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95612

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.800 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 47.9
RiverMile 47.9
CLARKSBURG, CA 95612**

Inquiry Number: 1790789.5

November 07, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 47.9

CLARKSBURG, CA 95612

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790789.5

YEAR: 1952

| = 555'





INQUIRY #: 1790789.5

YEAR: 1961

| = 555'





INQUIRY #: 1790789.5

YEAR: 1971

| = 333'





INQUIRY #: 1790789.5

YEAR: 1981

| = 333'





INQUIRY #: 1790789.5

YEAR: 1993

| = 666'





INQUIRY #: 1790789.5

YEAR: 1998

| = 666'



EDR Historical Topographic Map Report

**Sacramento River RiverMile 47.9
RiverMile 47.9
CLARKSBURG, CA 95612**

Inquiry Number: 1790789.4

November 07, 2006



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440 Wheelers Farms Rd
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EDR Historical Topographic Map Report

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

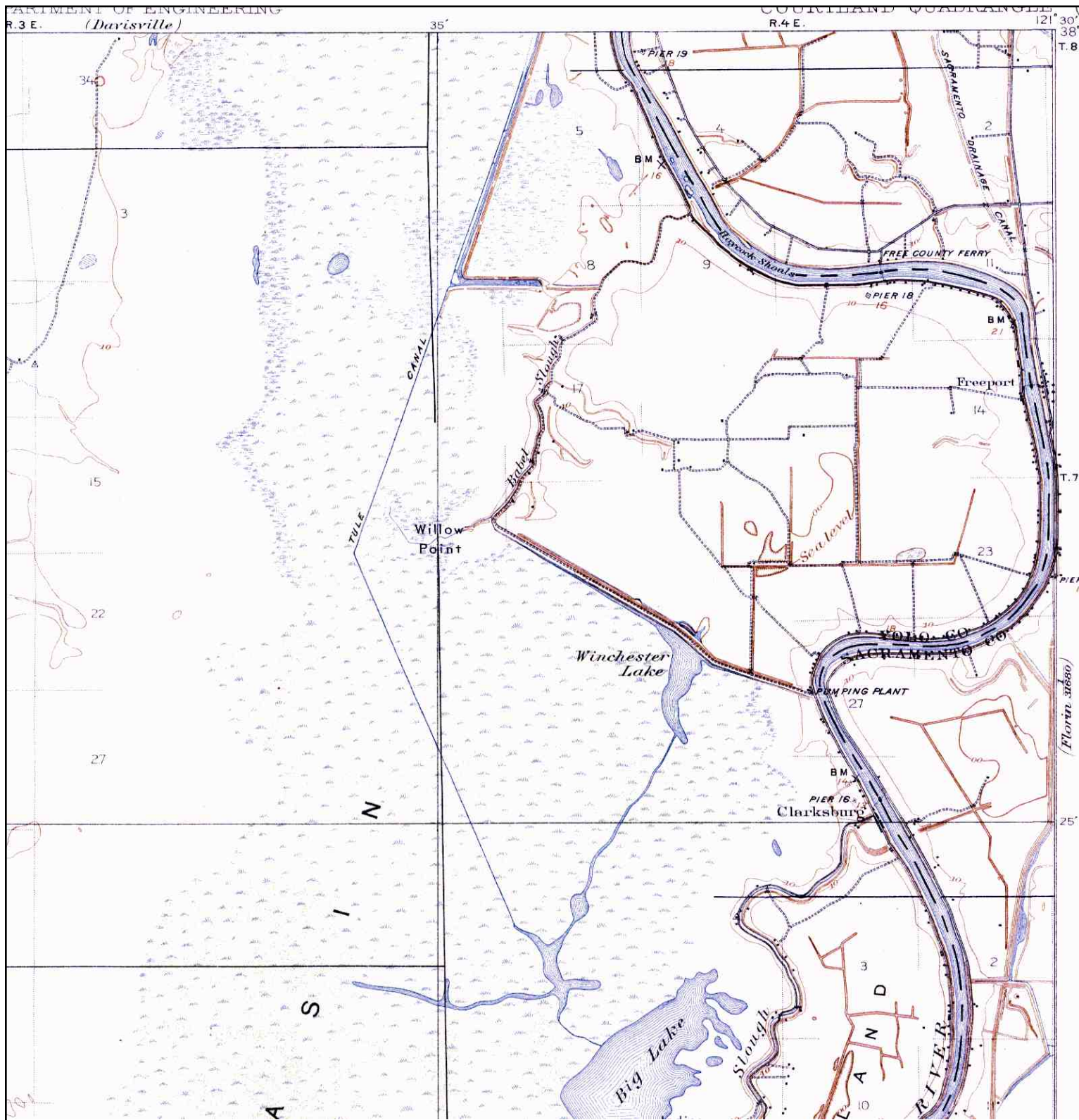
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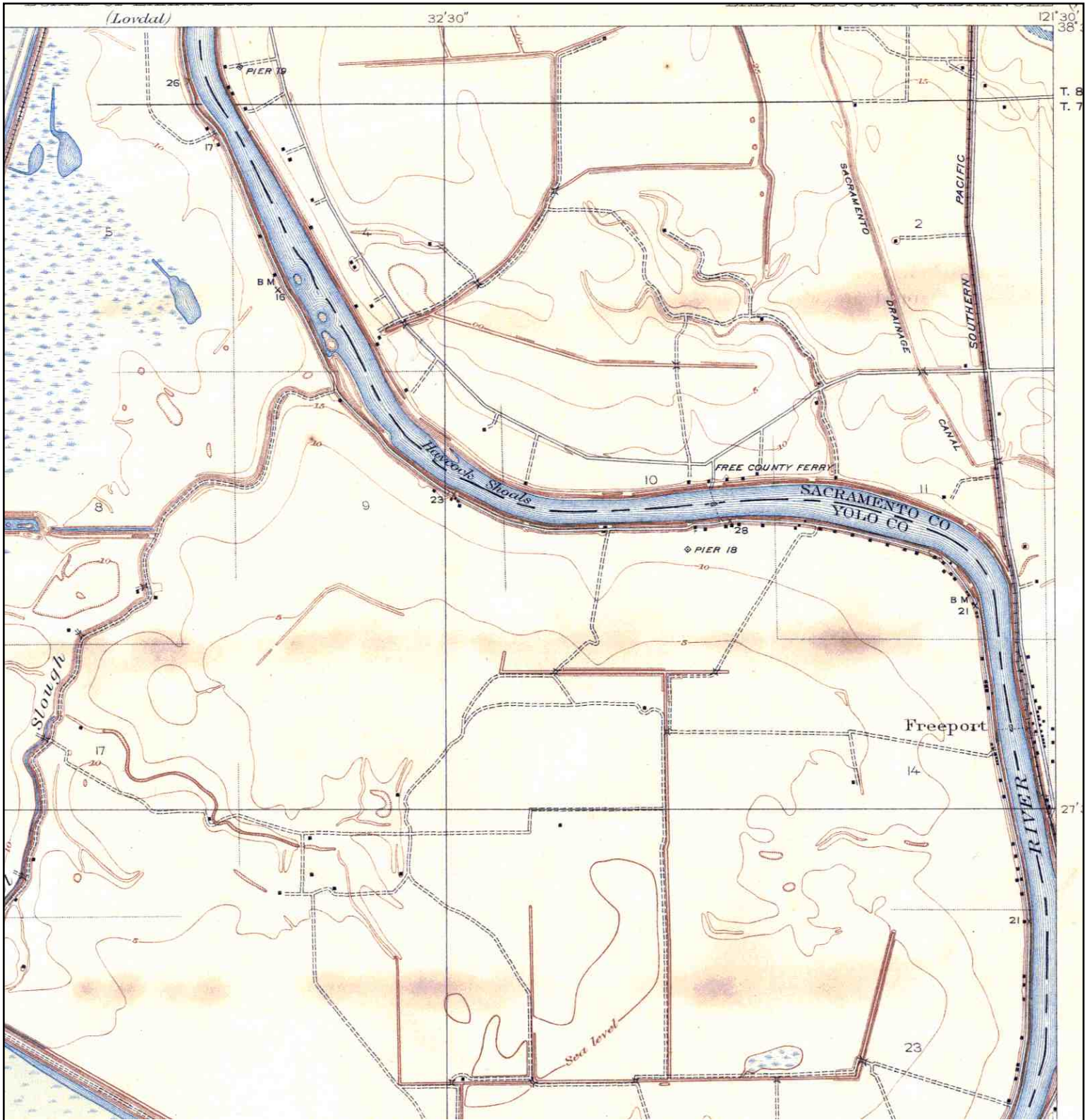
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Historical Topographic Map



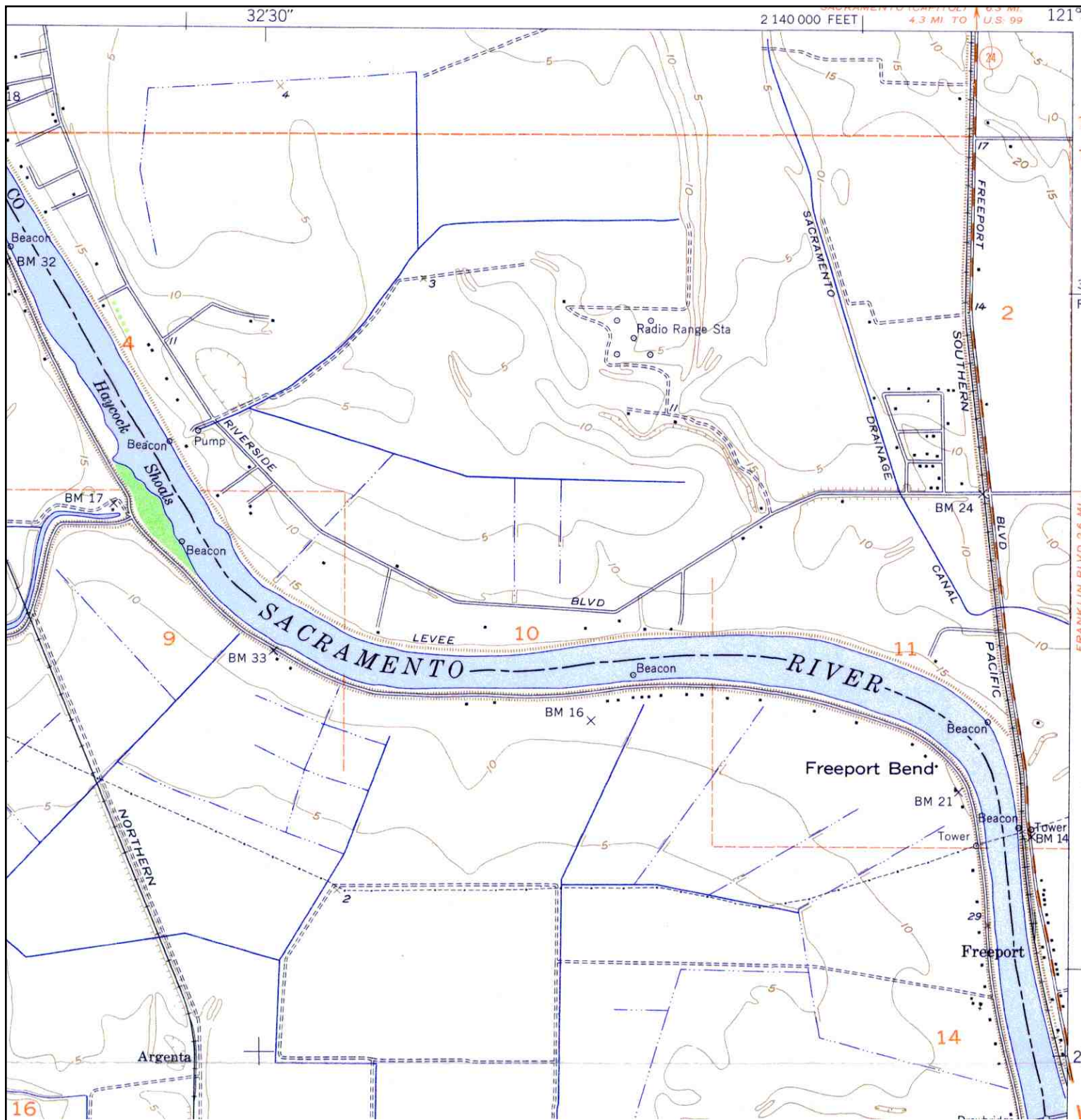
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	SERIES: 15 SCALE: 1:62500		


Historical Topographic Map



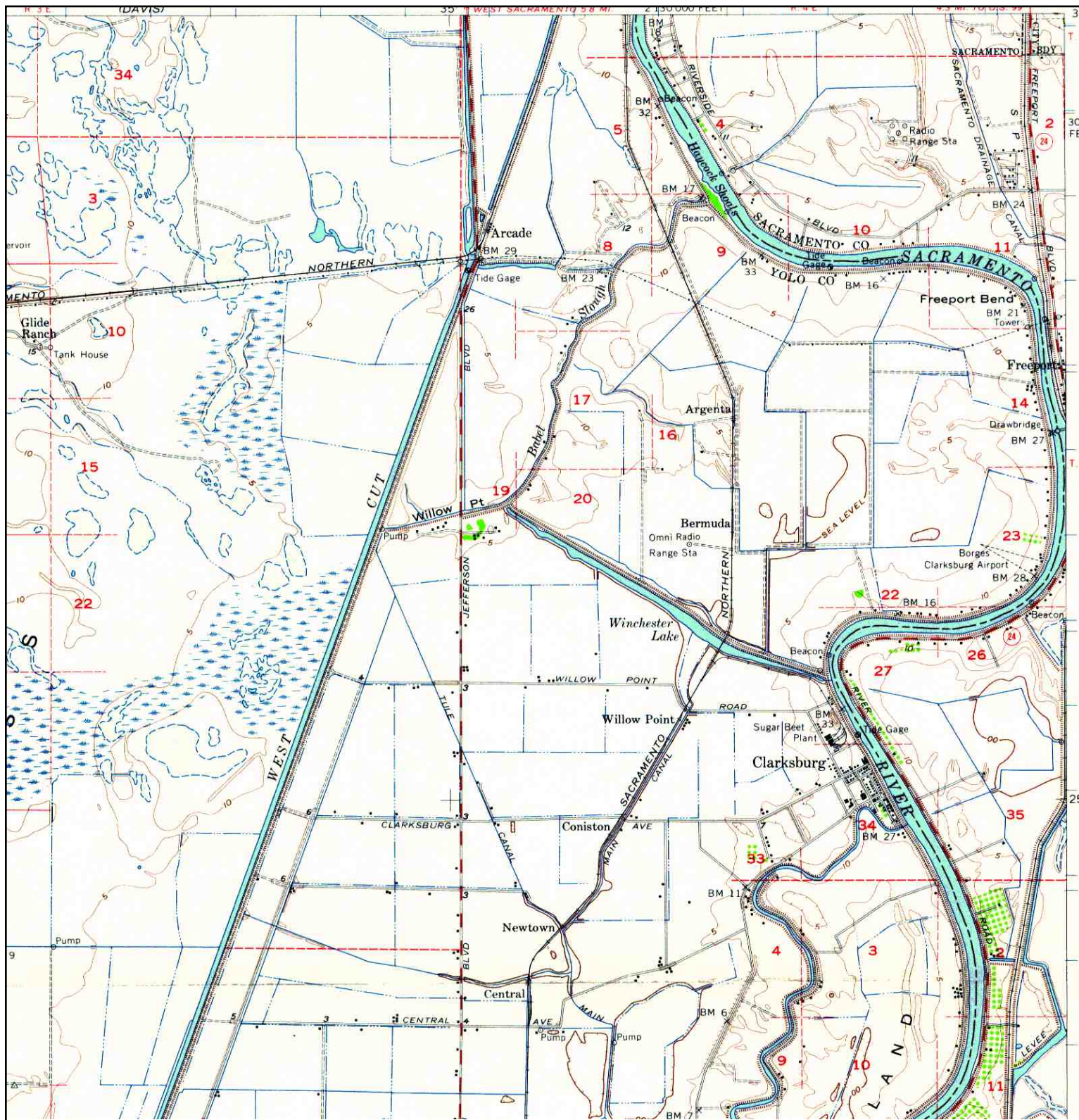
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 47.9	CLIENT:	MECx
	NAME: BABEL SLOUGH	ADDRESS:	RiverMile 47.9	CONTACT:	Robert Bell
	MAP YEAR: 1916		CLARKSBURG, CA 95612	INQUIRY#:	1790789.4
	SERIES: 7.5	LAT/LONG:	38.4735 / 121.5183	RESEARCH DATE:	11/07/2006
	SCALE: 1:31680				


Historical Topographic Map



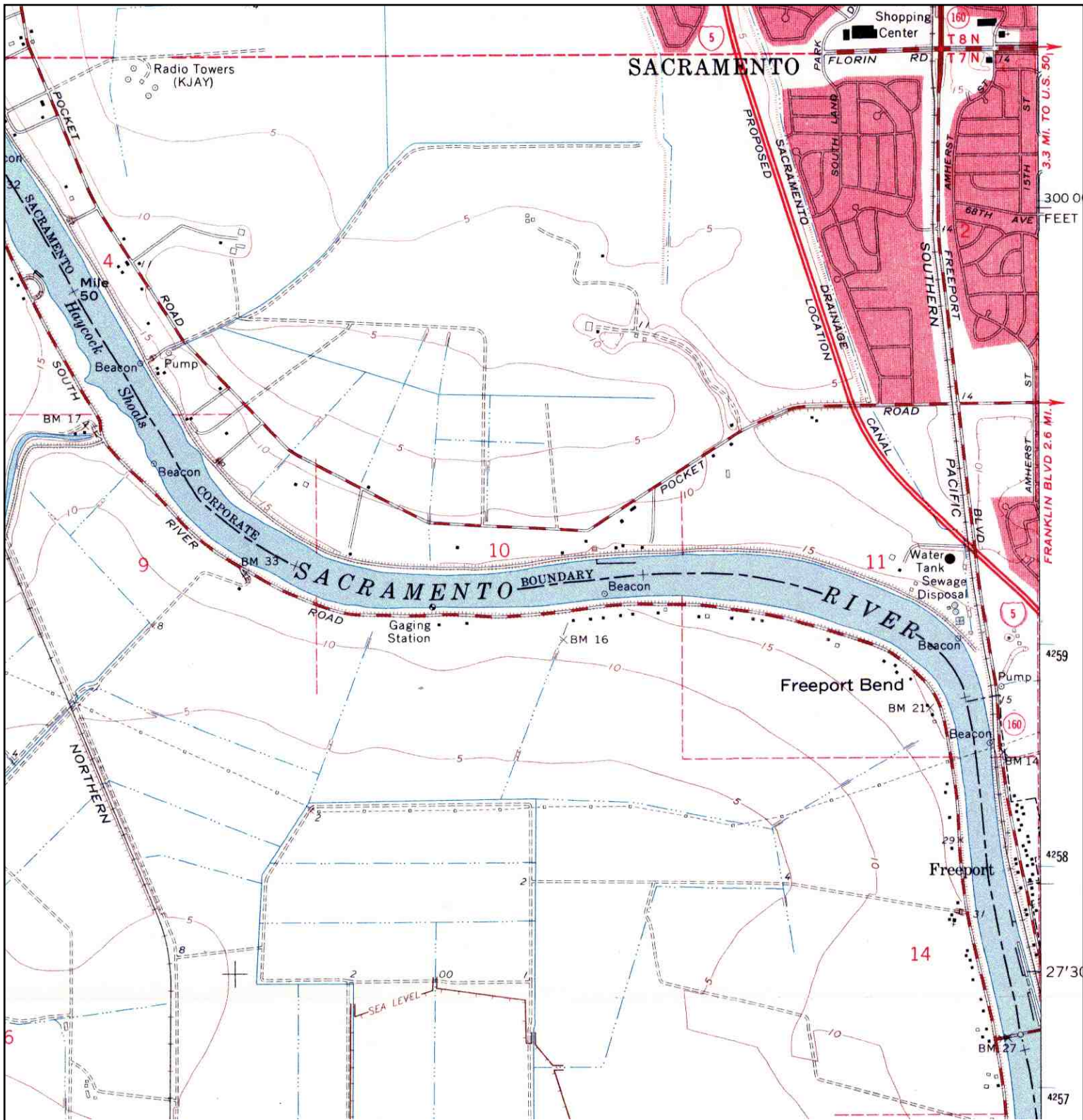
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	SERIES: 7.5 SCALE: 1:24000		


Historical Topographic Map



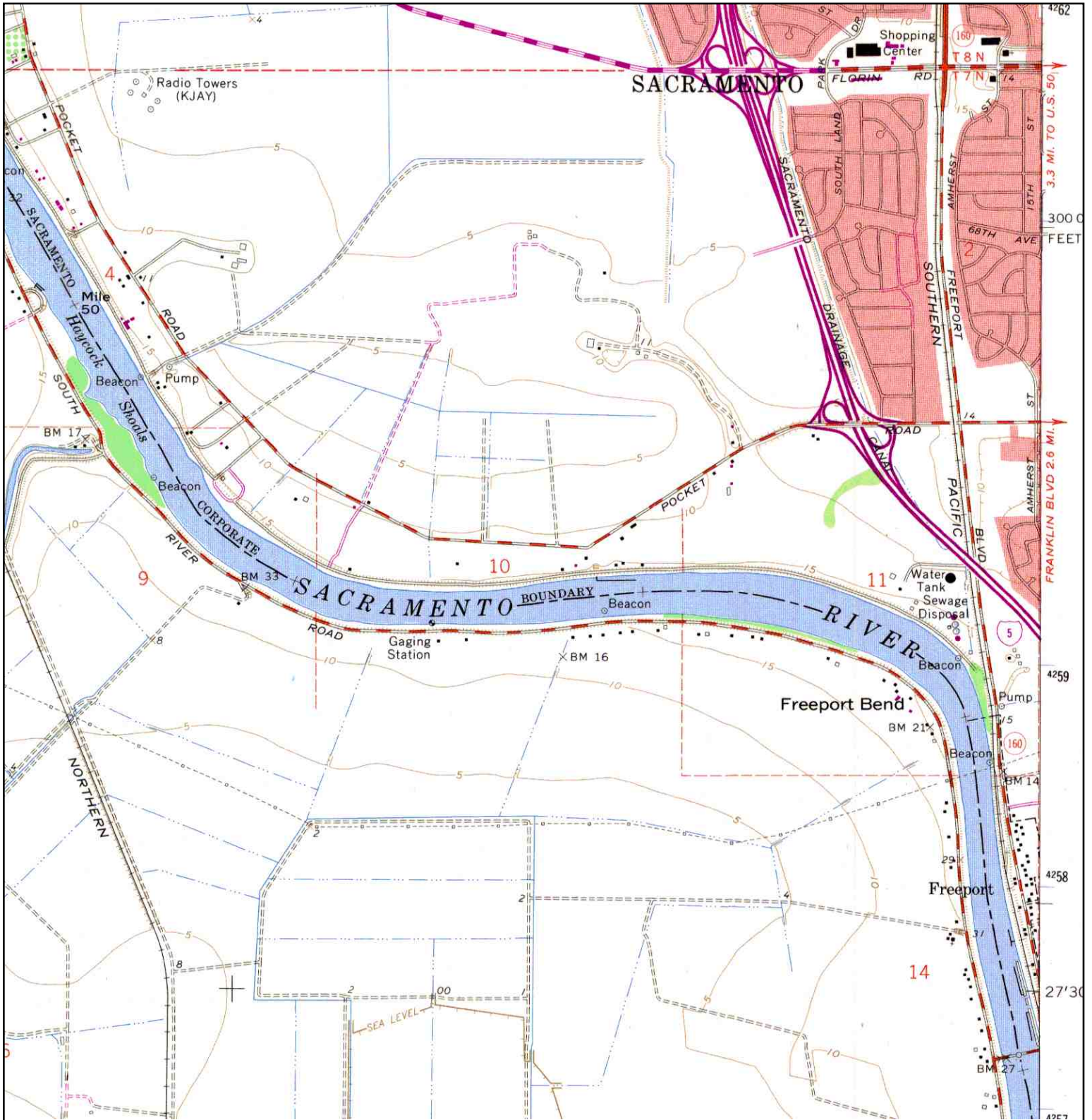
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	NAME: COURTLAND	ADDRESS:	RiverMile 47.9	CONTACT:	Robert Bell
	MAP YEAR: 1952	LAT/LONG:	38.4735 / 121.5183	INQUIRY#:	1790789.4
	SERIES: 15			RESEARCH DATE:	11/07/2006
	SCALE: 1:62500				


Historical Topographic Map



N 	TARGET QUAD NAME: CLARKSBURG MAP YEAR: 1967	SITE NAME: Sacramento River RiverMile 47.9 ADDRESS: RiverMile 47.9 CLARKSBURG, CA 95612 LAT/LONG: 38.4735 / 121.5183	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790789.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:24000		

Historical Topographic Map



	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx
	NAME: CLARKSBURG	47.9	CONTACT:	Robert Bell	
	MAP YEAR: 1975	ADDRESS:	RiverMile 47.9	INQUIRY#:	1790789.4
	PHOTOREVISED FROM: 1967	CLARKSBURG, CA 95612	RESEARCH DATE:	11/07/2006	
	SERIES: 7.5	LAT/LONG:	38.4735 / 121.5183		
	SCALE: 1:24000				

APPENDIX K

**EDR REPORT FOR SAC48.2R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 48.2
RiverMile 48.2
CLARKSBURG, CA 95612**

Inquiry Number: 1790792.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 48.2
CLARKSBURG, CA 95612

COORDINATES

Latitude (North): 38.473500 - 38° 28' 24.6"
Longitude (West): 121.522500 - 121° 31' 21.0"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 628888.6
UTM Y (Meters): 4259180.0
Elevation: 4 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRA-TSDF..... Resource Conservation and Recovery Act Information
RCRA-LQG..... Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
AST	Aboveground Petroleum Storage Tank Facilities
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land

EXECUTIVE SUMMARY

INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

EDR Historical Auto StationsEDR Proprietary Historic Gas Stations

EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>SHELL FOOD MART</i>	<i>8300 POCKET RD</i>	<i>1/8 - 1/4NNW A2</i>		<i>7</i>

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>SHELL FOOD MART</i>	<i>8300 POCKET RD</i>	<i>1/8 - 1/4NNW A1</i>		<i>6</i>

SWEEPS: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 2 SWEEPS UST sites within approximately 0.25 miles of the target property.

EXECUTIVE SUMMARY

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>SHELL FOOD MART</i>	<i>8300 POCKET RD</i>	<i>1/8 - 1/4NNW A2</i>		<i>7</i>
<i>BETTS LANDSCAPE</i>	<i>8310 POCKET RD</i>	<i>1/8 - 1/4NNW A3</i>		<i>8</i>

CA ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 08/02/2006 has revealed that there are 2 Sacramento Co. ML sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>SHELL FOOD MART</i>	<i>8300 POCKET RD</i>	<i>1/8 - 1/4NNW A1</i>		<i>6</i>
<i>BETTS LANDSCAPE</i>	<i>8310 POCKET RD</i>	<i>1/8 - 1/4NNW A3</i>		<i>8</i>

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
SIMPLOT CLARKSBURG	LUST, Cortese
CLARKSBURG	LUST, Cortese
SHORTER'S CORNER	UST
LEE & GINNY'S ISLAND MARINA R	UST
MARY PETERS ESTATE PUMP HOUSE	UST
MARY PETERS ESTATE PUMP HOUSE	UST
J R SIMPLOT CO	UST
BORGES CLARKSBURG AIRPORT	UST
GARTER RANCH	HIST UST
IMAMURA BROS.	HIST UST
WENDELL KILGONE	HIST UST
DELTA SUGAR CORP	RCRA-SQG, FINDS, HAZNET
RIVER DELTA COGENERATION	EMI

OVERVIEW MAP - 1790792.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

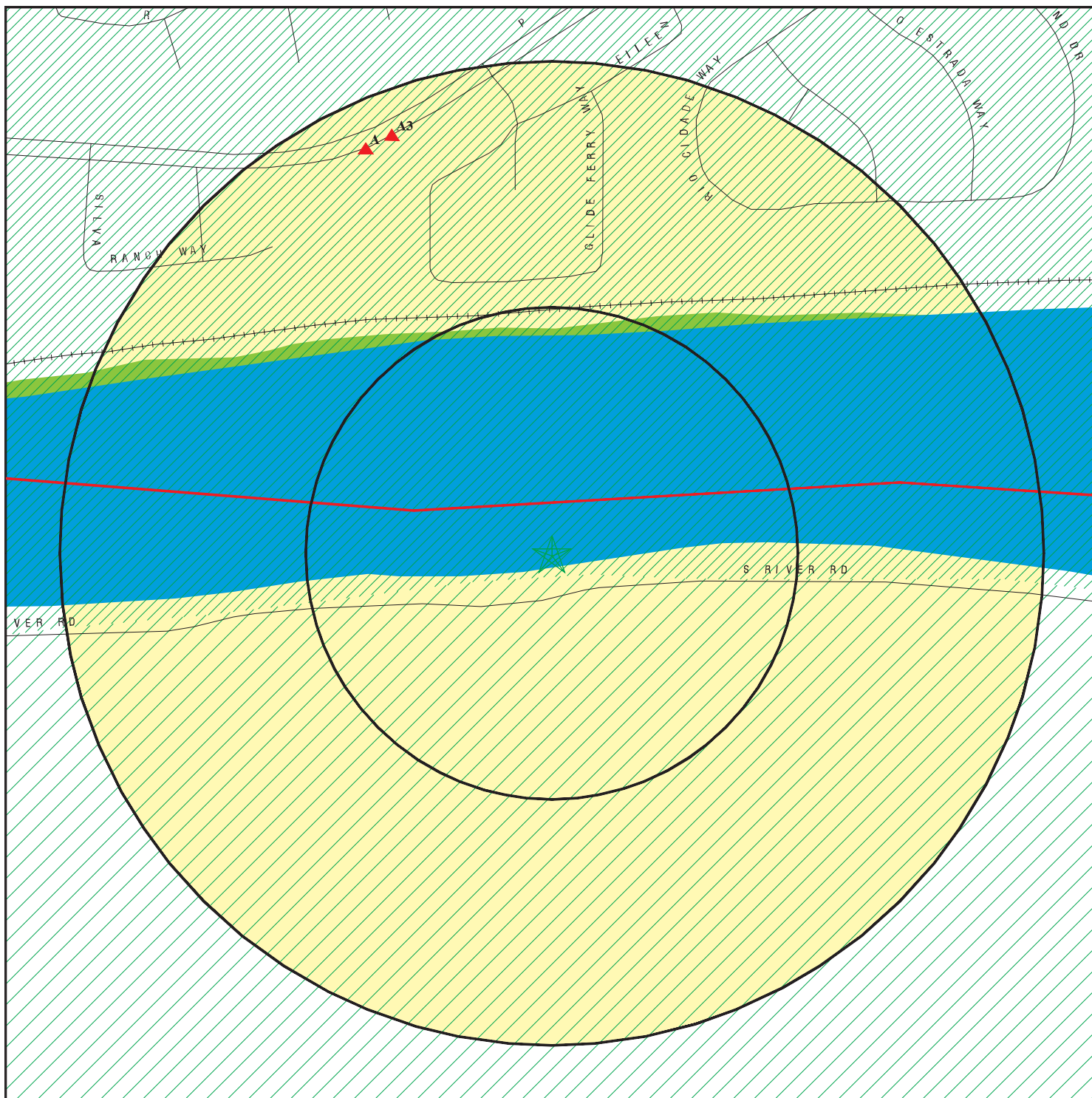
- Indian Reservations BIA
- Areas of Concern
- County Boundary
- Power transmission lines
- Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 48.2
 ADDRESS: RiverMile 48.2
 CLARKSBURG CA 95612
 LAT/LONG: 38.4735 / 121.5225

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790792.2s
 DATE: November 07, 2006 10:48 am

DETAIL MAP - 1790792.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- 0 1/16 1/8 1/4 Miles
- Indian Reservations BIA
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 48.2
 ADDRESS: RiverMile 48.2
 CLARKSBURG CA 95612
 LAT/LONG: 38.4735 / 121.5225

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790792.2s
 DATE: November 07, 2006 10:48 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	1	NR	NR	NR	1
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	1	NR	NR	NR	1

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	2	NR	NR	NR	2
CHMIRS	TP		NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Sacramento Co. ML RESPONSE		0.250	0	2	NR	NR	NR	2
HAZNET	TP	1.000	0	0	0	0	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
 EPA ID Number

A1 **SHELL FOOD MART**
NNW **8300 POCKET RD**
1/8-1/4 **SACRAMENTO, CA 95832**
1196 ft.

HIST UST **U001615937**
Sacramento Co. ML **N/A**

Site 1 of 3 in cluster A

Relative:
Higher

HIST UST:
 Region: STATE
 Facility ID: 00000060338
 Tank Num: 001
 Container Num: 2
 Year Installed: 1984
 Tank Capacity: 00010000
 Facility Type: Gas Station
 Other Type: Not reported
 Total Tanks: 0003
 Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Tank Construction: Not reported
 Leak Detection: Stock Inventor, Sensor Instrument
 Contact Name: Not reported
 Telephone: 9164810400
 Owner Name: SHELL OIL COMPANY
 Owner Address: BOX 13678
 Owner City,St,Zip: SACRAMENTO, CA 95853

Actual:
14 ft.

Region: STATE
 Facility ID: 00000060338
 Tank Num: 002
 Container Num: 3
 Year Installed: 1984
 Tank Capacity: 00010000
 Facility Type: Gas Station
 Other Type: Not reported
 Total Tanks: 0003
 Tank Used for: PRODUCT
 Type of Fuel: UNLEADED
 Tank Construction: Not reported
 Leak Detection: Stock Inventor, Sensor Instrument
 Contact Name: Not reported
 Telephone: 9164810400
 Owner Name: SHELL OIL COMPANY
 Owner Address: BOX 13678
 Owner City,St,Zip: SACRAMENTO, CA 95853

Region: STATE
 Facility ID: 00000060338
 Tank Num: 003
 Container Num: 1
 Year Installed: 1984
 Tank Capacity: 00010000
 Facility Type: Gas Station
 Other Type: Not reported
 Total Tanks: 0003
 Tank Used for: PRODUCT
 Type of Fuel: PREMIUM
 Tank Construction: Not reported
 Leak Detection: Stock Inventor, Sensor Instrument
 Contact Name: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SHELL FOOD MART (Continued)

EDR ID Number
EPA ID Number

Database(s)

U001615937

Telephone: 9164810400
Owner Name: SHELL OIL COMPANY
Owner Address: BOX 13678
Owner City,St,Zip: SACRAMENTO, CA 95853

Sacramento Co. ML:

FD: U
Billing Codes BP: Out of Business
Billing Codes UST: No Tanks
WG Bill Code: Oil Changed by Outside Company-No Fee
Target Property Bill Cod: 51
Food Bill Code: 51
CUPA Permit Date: Not reported
HAZMAT Permit Date: Not reported
HAZMAT Inspection Date: Not reported
Hazmat Date BP Received: Not reported
UST Permit Dt: Not reported
UST Inspection Date: Not reported
UST Tank Test Date: Not reported
Number of Tanks: 0
Facility Id: Not reported
UST Tank Test Date: Not reported
SIC Code: Not reported
Tier Permitting: Not reported
Risk Mgmt Protection Program: Not reported

A2
NNW
1/8-1/4
1196 ft.

**SHELL FOOD MART
8300 POCKET RD
SACRAMENTO, CA 95832**

CA FID UST S101630721
SWEEPS UST N/A

Relative:
Higher

Site 2 of 3 in cluster A

Actual:
14 ft.

CA FID UST:
Facility ID: 34007271
Regulated By: UTNKA
Regulated ID: 00060338
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 9164810400
Mail To: Not reported
Mailing Address: 8300 POCKET RD
Mailing Address 2: Not reported
Mailing City,St,Zip: SACRAMENTO 95832
Contact: Not reported
Contact Phone: Not reported
DUNS Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

SWEEPS UST:

Status: A
Comp Number: 60338
Number: 9
Board Of Equalization: 44-000074
Ref Date: 07-01-85

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

SHELL FOOD MART (Continued)

EDR ID Number
 EPA ID Number

Database(s)

Site

S101630721

Act Date: Not reported
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 2
 Swrcb Tank Id: 34-000-060338-000001
 Actv Date: 07-01-85
 Capacity: 10000
 Tank Use: M.V. FUEL
 Stg: P
 Content: LEADED
 Number Of Tanks: 3

Status: A
 Comp Number: 60338
 Number: 9
 Board Of Equalization: 44-000074
 Ref Date: 07-01-85
 Act Date: Not reported
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 3
 Swrcb Tank Id: 34-000-060338-000002
 Actv Date: 07-01-85
 Capacity: 10000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

Status: A
 Comp Number: 60338
 Number: 9
 Board Of Equalization: 44-000074
 Ref Date: 07-01-85
 Act Date: Not reported
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 1
 Swrcb Tank Id: 34-000-060338-000003
 Actv Date: 07-01-85
 Capacity: 10000
 Tank Use: M.V. FUEL
 Stg: P
 Content: REG UNLEADED
 Number Of Tanks: Not reported

**A3
 NNW
 1/8-1/4
 1202 ft.**

**BETTS LANDSCAPE
 8310 POCKET RD
 SACRAMENTO, CA 95831**

**Sacramento Co. ML S105271127
 SWEEPS UST N/A**

Site 3 of 3 in cluster A

**Relative:
 Higher**

Sacramento Co. ML:

FD: U
 Billing Codes BP: Out of Business

**Actual:
 14 ft.**

Billing Codes UST: No Tanks
 WG Bill Code: Oil Changed by Outside Company-No Fee
 Target Property Bill Cod: 51

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

BETTS LANDSCAPE (Continued)

S105271127

Food Bill Code: 51
CUPA Permit Date: Not reported
HAZMAT Permit Date: Not reported
HAZMAT Inspection Date: 06/21/94
Hazmat Date BP Received: Not reported
UST Permit Dt: 01/01/92
UST Inspection Date: 08/26/92
UST Tank Test Date: 07/07/92
Number of Tanks: 0
Facility Id: U0092178
UST Tank Test Date: Not reported
SIC Code: 2874
Tier Permitting: Not reported
Risk Mgmt Protection Program: Not reported

SWEEPS UST:

Status: Not reported
Comp Number: 32858
Number: Not reported
Board Of Equalization: 44-019202
Ref Date: Not reported
Act Date: Not reported
Created Date: Not reported
Tank Status: Not reported
Owner Tank Id: Not reported
Swrcb Tank Id: 34-000-032858-000001
Actv Date: Not reported
Capacity: 1000
Tank Use: M.V. FUEL
Stg: PRODUCT
Content: REG UNLEADED
Number Of Tanks: 1

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
CLARKSBURG	S106838320	RIVER DELTA COGENERATION	ROUTE 1	95612	EMI
CLARKSBURG	U003850953	SHORTER'S CORNER	RT 1 BOX 162	95612	UST
CLARKSBURG	U003895677	LEE & GINNY'S ISLAND MARINA R	RT 1 BOX 118	95612	UST
CLARKSBURG	U003785742	MARY PETERS ESTATE PUMP HOUSE	CORNER OF RIVER RD	95612	UST
CLARKSBURG	U004003790	MARY PETERS ESTATE PUMP HOUSE	S CORNER OF RIVER RD	95612	UST
CLARKSBURG	S105023303	SIMPLOT CLARKSBURG	COURTLAND RD / HWY 84 S	95612	LUST, Cortese
CLARKSBURG	U004003745	J R SIMPLOT CO	COURTLAND & HWY 84	95612	UST
CLARKSBURG	U001612478	GARTER RANCH	SOUTH RIVER ROAD	95612	HIST UST
CLARKSBURG	U003850790	BORGES CLARKSBURG AIRPORT	S RIVER RD	95612	UST
CLARKSBURG	1000395410	DELTA SUGAR CORP	WILLOW AVENUE	95612	RCRA-SQG, FINDS, HAZNET
CLARKSBURG	U001612489	IMAMURA BROS.	WILLOW AVE.	95612	HIST UST
CLARKSBURG	U001612515	WENDELL KILGONE	WILLOW POINT ROAD	95612	HIST UST
CLARKSBURG	S102428122	CLARKSBURG	WILLOW POINT RD	95612	LUST, Cortese

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 30

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 48.2
RIVERMILE 48.2
CLARKSBURG, CA 95612

TARGET PROPERTY COORDINATES

Latitude (North): 38.47350 - 38° 28' 24.6"
Longitude (West): 121.5225 - 121° 31' 21.0"
Universal Tranverse Mercator: Zone 10
UTM X (Meters): 628888.6
UTM Y (Meters): 4259180.0
Elevation: 4 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map: 38121-D5 CLARKSBURG, CA
Most Recent Revision: 1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

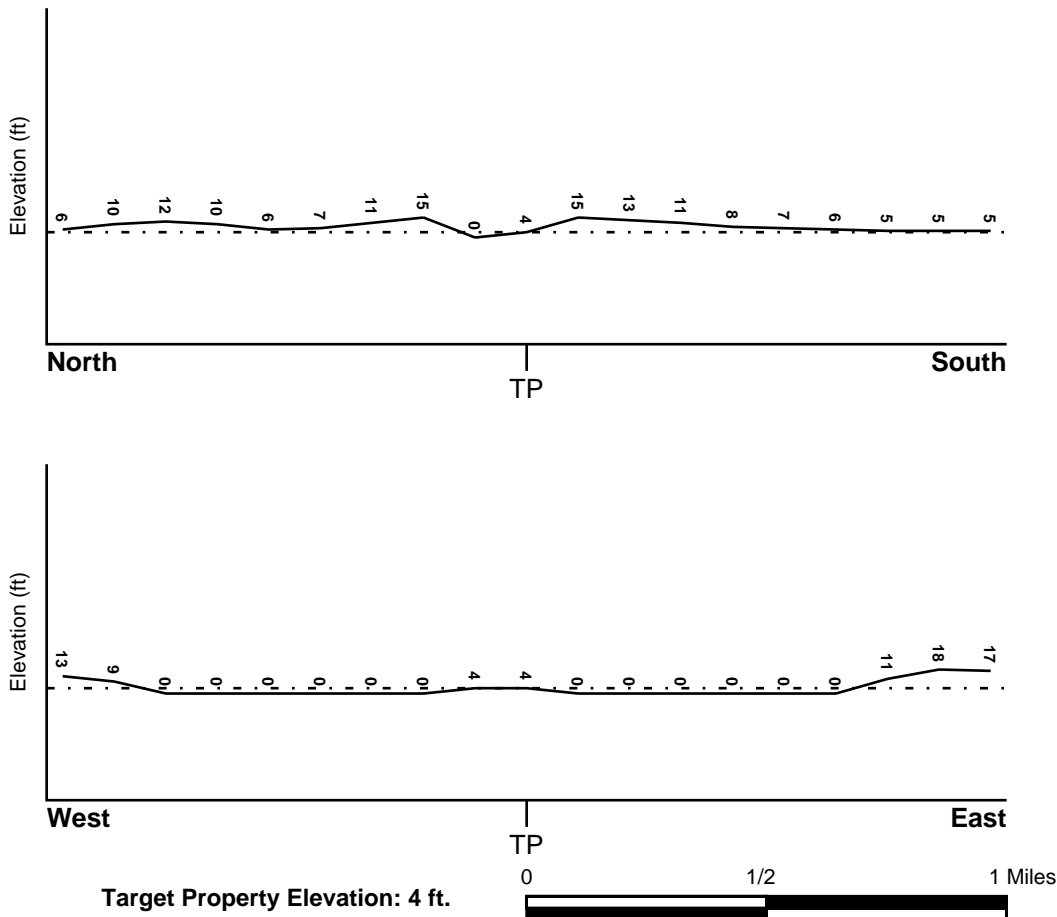
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General South

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u>	<u>FEMA Flood Electronic Data</u>
YOLO, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0604230660C

Additional Panels in search area: 0602660025E
0602660030E

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	<u>NWI Electronic Data Coverage</u>
CLARKSBURG	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

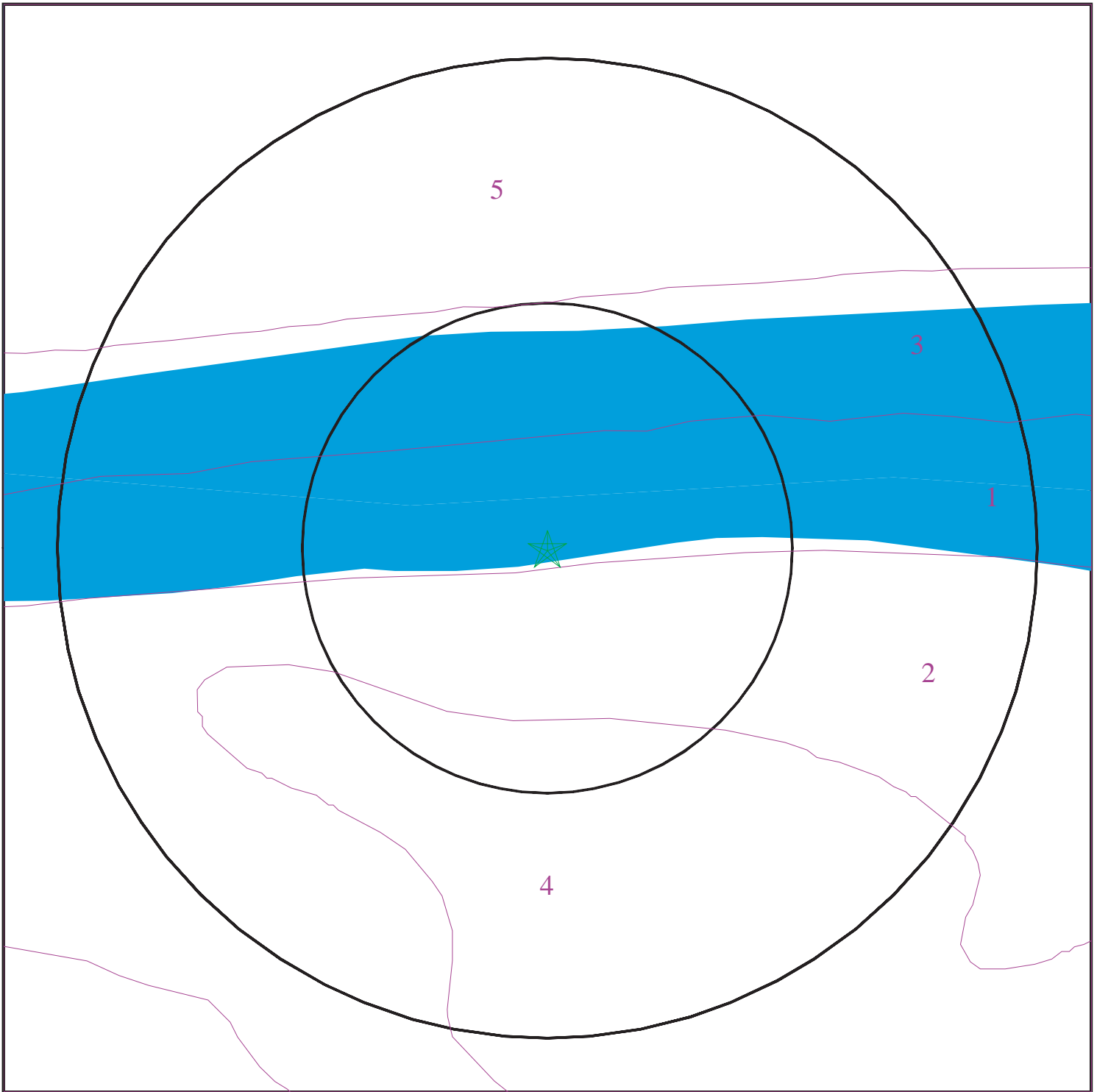
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790792.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water

0 1/16 1/8 1/4 Miles



SITE NAME: Sacramento River RiverMile 48.2
ADDRESS: RiverMile 48.2
CLARKSBURG CA 95612
LAT/LONG: 38.4735 / 121.5225

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790792.2s
DATE: November 07, 2006 10:49 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER
Soil Surface Texture: Not reported
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: SYCAMORE
Soil Surface Texture: silt loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	14 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

Soil Map ID: 3

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: TYNDALL

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40
2	16 inches	60 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 9.00 Min: 7.40

Soil Map ID: 5

Soil Component Name: VALPAC

Soil Surface Texture: loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	10 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.60
2	10 inches	61 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3226399	1/8 - 1/4 Mile NW
2	USGS3226387	1/8 - 1/4 Mile ESE
A3	USGS3226379	1/4 - 1/2 Mile SW
A4	USGS3226376	1/4 - 1/2 Mile SSW
5	USGS3226386	1/4 - 1/2 Mile ESE
6	USGS3226403	1/2 - 1 Mile East
7	USGS3226263	1/2 - 1 Mile North

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

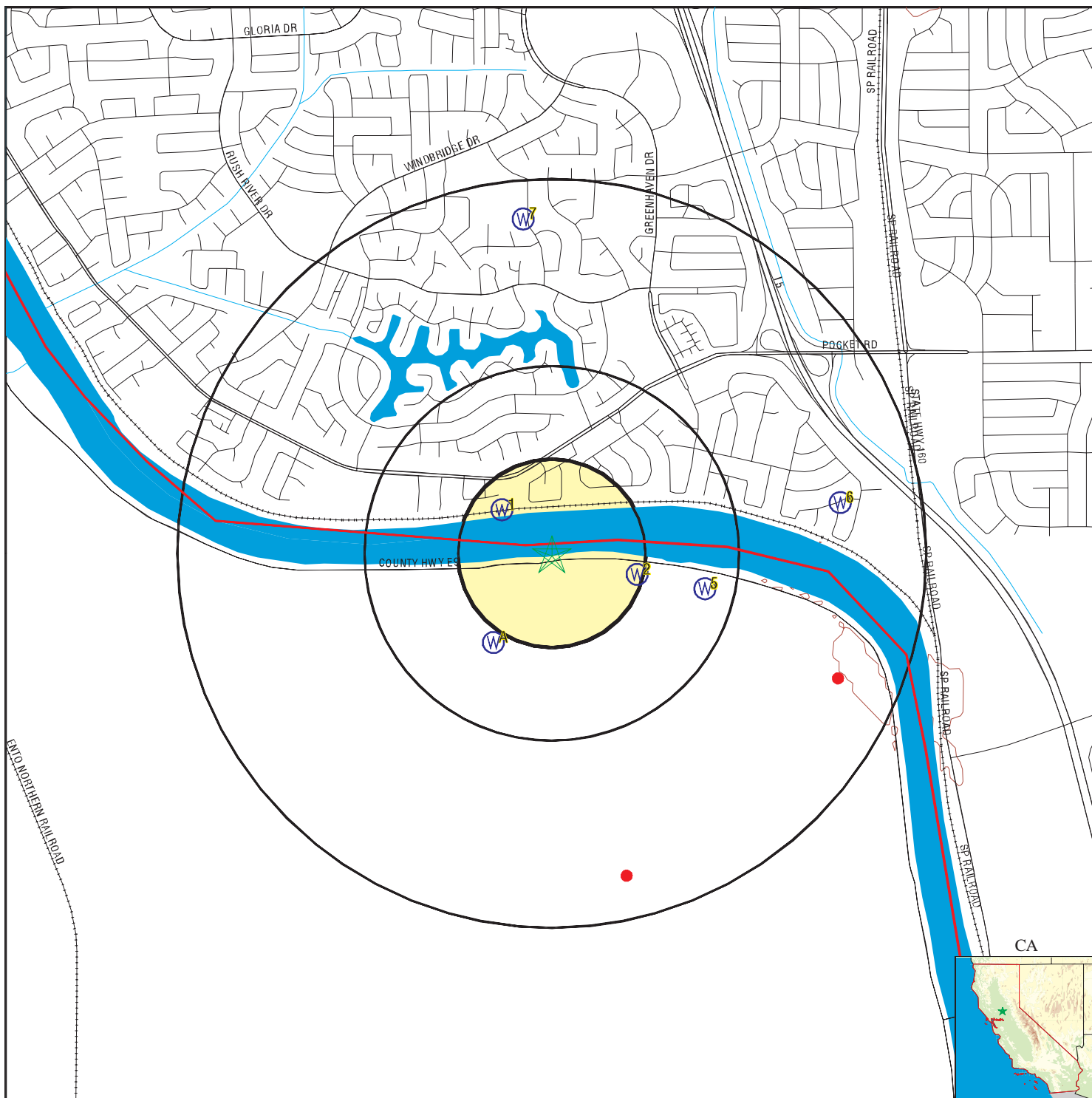
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/2 - 1 Mile ESE	1/2 - 1 Mile SSE

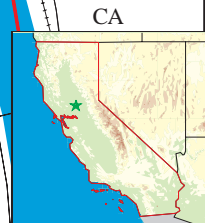
PHYSICAL SETTING SOURCE MAP - 1790792.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



<p>SITE NAME: Sacramento River RiverMile 48.2 ADDRESS: RiverMile 48.2 CLARKSBURG CA 95612 LAT/LONG: 38.4735 / 121.5225</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY #: 1790792.2s DATE: November 07, 2006 10:49 am</p>
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GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1

NW
1/8 - 1/4 Mile
Higher

FED USGS USGS3226399

Agency cd:	USGS	Site no:	382831121312601
Site name:	007N004E10G008M		
Latitude:	382831		
Longitude:	1213126	Dec lat:	38.47518562
Dec lon:	-121.5249555	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	15.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19720423
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	124	Hole depth:	130
Source of depth data:	Not Reported	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1972-04-23	Ground water data end date:	1972-04-23
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1972-04-23	14.00	

2

ESE
1/8 - 1/4 Mile
Higher

FED USGS USGS3226387

Agency cd:	USGS	Site no:	382822121310201
Site name:	007N004E11M002M		
Latitude:	382822		
Longitude:	1213102	Dec lat:	38.4726857
Dec lon:	-121.51828866	Coor meth:	M
Coor accr:	M	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	16.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19570408
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	67.0	Hole depth:	67.0
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**A3
SW
1/4 - 1/2 Mile
Higher**

FED USGS USGS3226379

Agency cd:	USGS	Site no:	382813121312801
Site name:	007N004E10Q002M		
Latitude:	382813		
Longitude:	1213128	Dec lat:	38.47018577
Dec lon:	-121.52551102	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	8.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19750506
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	RIVER CHANNEL DEPOSITS		
Well depth:	125	Hole depth:	125
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-08-27
Water quality data end date:	1981-08-27	Water quality data count:	1
Ground water data begin date:	1975-05-06	Ground water data end date:	1975-05-06
Ground water data count:	1		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1975-05-06	9.00	

A4
SSW
1/4 - 1/2 Mile
Higher

FED USGS USGS3226376

Agency cd:	USGS	Site no:	382812121312701
Site name:	007N004E10Q001M		
Latitude:	382812		
Longitude:	1213127	Dec lat:	38.469908
Dec lon:	-121.52523323	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	8.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19740327
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	120	Hole depth:	120
Source of depth data:	Not Reported	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1974-03-27	Ground water data end date:	1974-03-27
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1974-03-27	8.00	

5
ESE
1/4 - 1/2 Mile
Higher

FED USGS USGS3226386

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	382820121305001
Site name:	007N004E11M003M		
Latitude:	382820		
Longitude:	1213050	Dec lat:	38.47213016
Dec lon:	-121.51495525	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	17.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19680630
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	118	Hole depth:	172
Source of depth data:	Not Reported		
Real time data flag:	0	Project number:	8479423711
Daily flow data end date:	0000-00-00	Daily flow data begin date:	0000-00-00
Peak flow data begin date:	0000-00-00	Daily flow data count:	0
Peak flow data count:	0	Peak flow data end date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data begin date:	0000-00-00
Ground water data begin date:	0000-00-00	Water quality data count:	0
Ground water data count:	0	Ground water data end date:	0000-00-00

Ground-water levels, Number of Measurements: 0

6
East
1/2 - 1 Mile
Higher

FED USGS USGS3226403

Agency cd:	USGS	Site no:	382832121302601
Site name:	007N004E11G002M		
Latitude:	382832		
Longitude:	1213026	Dec lat:	38.4754634
Dec lon:	-121.50828847	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	12.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19730401
Date inventoried:	Not Reported	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	320	Hole depth:	320
Source of depth data:	driller	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Peak flow data count: 0
 Water quality data end date: 1975-06-16
 Ground water data begin date: 1973-04-01
 Ground water data count: 2

Water quality data begin date: 1973-07-10
 Water quality data count: 2
 Ground water data end date: 1982-08-12

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1982-08-12	23.19		1973-04-01	24.00	

**7
 North
 1/2 - 1 Mile
 Higher**

FED USGS USGS3226263

Agency cd:	USGS	Site no:	382911121312301
Site name:	007N004E03K002M		
Latitude:	382911.20		
Longitude:	1213126.07	Dec lat:	38.48644444
Dec lon:	-121.52390833	Coor meth:	G
Coor accr:	5	Latlong datum:	NAD83
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	CLARKSBURG	Map scale:	24000
Altitude:	7	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19971023
Date inventoried:	19971023	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Unconfined single aquifer		
Aquifer:	SACRAMENTO VALLEY AQUIFER		
Well depth:	37.5	Hole depth:	37.5
Source of depth data:	reporting agency (generally USGS)	Project number:	470650400
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1997-10-23
Water quality data end date:	1998-06-22	Water quality data count:	3
Ground water data begin date:	1998-06-22	Ground water data end date:	2004-05-27
Ground water data count:	2		

Ground-water levels, Number of Measurements: 2

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
2004-05-27	5.29		1998-06-22	4.61	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

ESE
1/2 - 1 Mile

OIL_GAS CA10182015

Apinumber:	11320690	Operator:	Jem Petroleum Corp.
Lease:	Mesquita	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.46875		
Longitude:	-121.50734		
Td:	7000	Sec:	11
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SSE
1/2 - 1 Mile

OIL_GAS CA10181970

Apinumber:	11320375	Operator:	Atlantic Oil Co.
Lease:	Kirtlan	Well no:	3
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	007
Source:	hud		
Latitude:	38.46111		
Longitude:	-121.51775		
Td:	3957	Sec:	15
Twn:	07N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95612	2	0	0.00

Federal EPA Radon Zone for YOLO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for Zip Code: 95612

Number of sites tested: 1

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	2.800 pCi/L	100%	0%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 48.2
RiverMile 48.2
CLARKSBURG, CA 95612**

Inquiry Number: 1790792.5

November 07, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 48.2

CLARKSBURG, CA 95612

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790792.5

YEAR: 1952

| = 555'



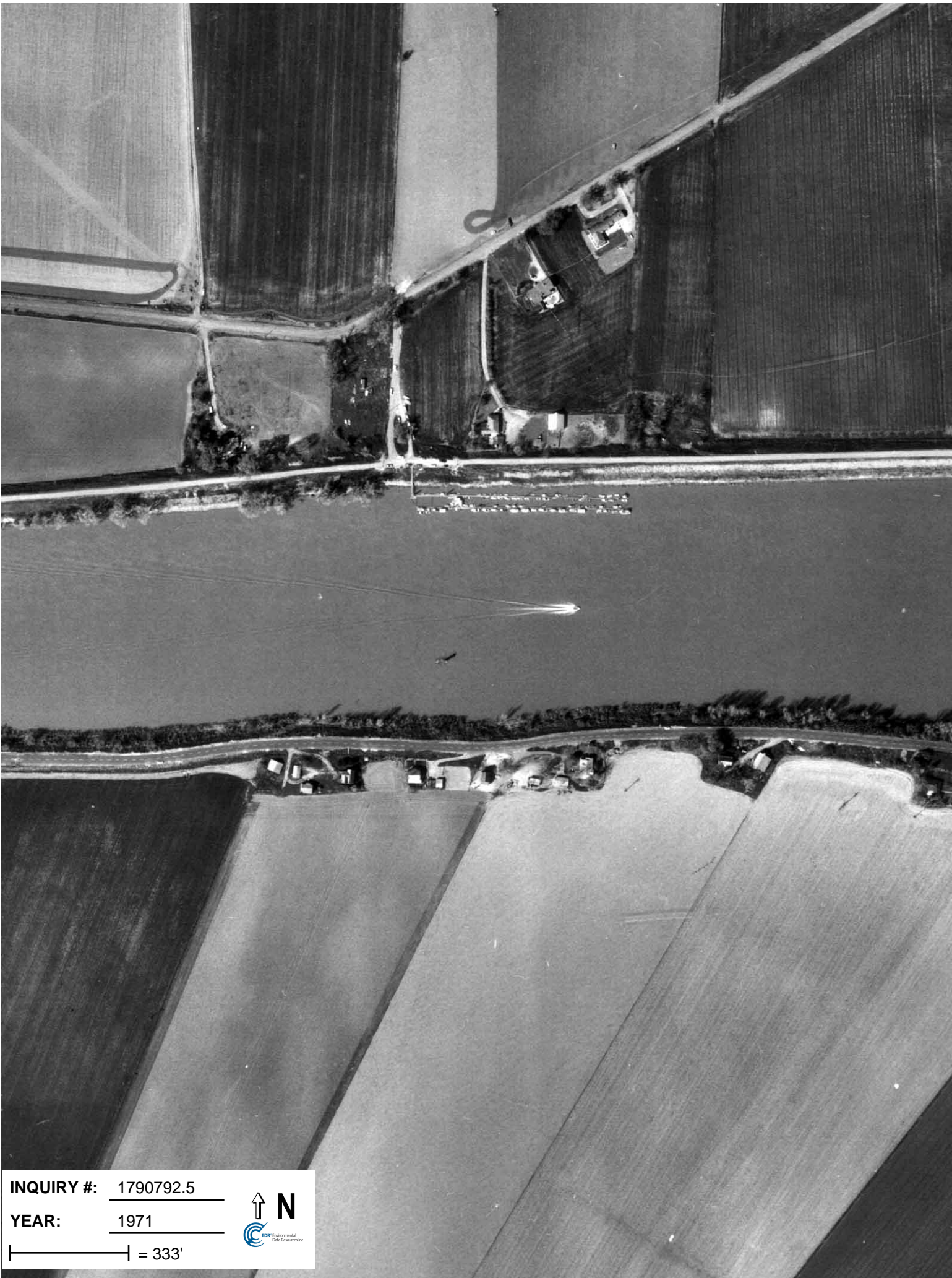


INQUIRY #: 1790792.5

YEAR: 1961

| = 555'





INQUIRY #: 1790792.5

YEAR: 1971

| = 333'





INQUIRY #: 1790792.5

YEAR: 1981

— = 333'



EDI Environmental Data Resources Inc.



INQUIRY #: 1790792.5

YEAR: 1993

| = 666'





INQUIRY #: 1790792.5

YEAR: 1998

| = 666'





EDR® Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**Sacramento River RiverMile 48.2
RiverMile 48.2
CLARKSBURG, CA 95612**

Inquiry Number: 1790792.4

November 07, 2006

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

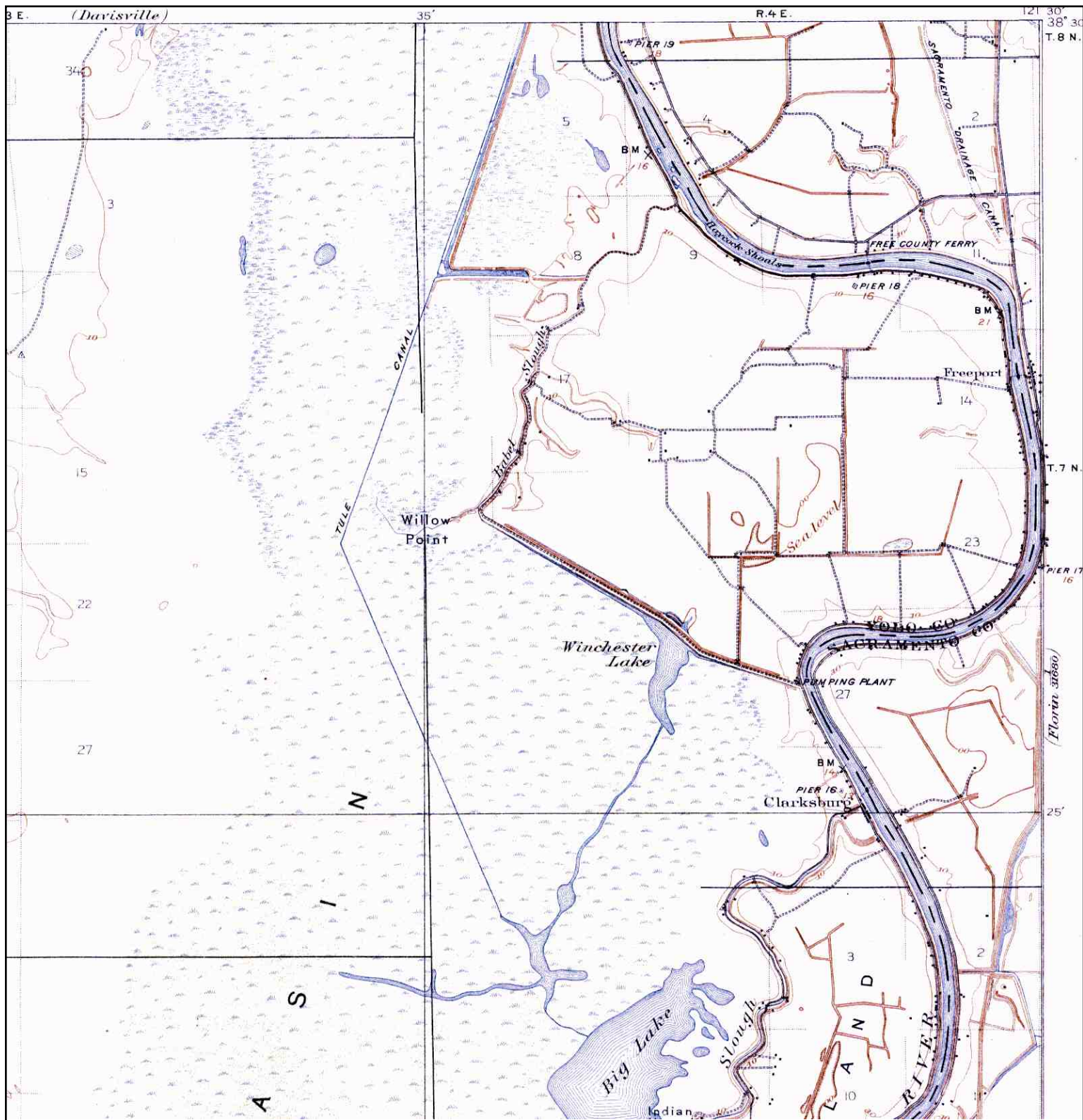
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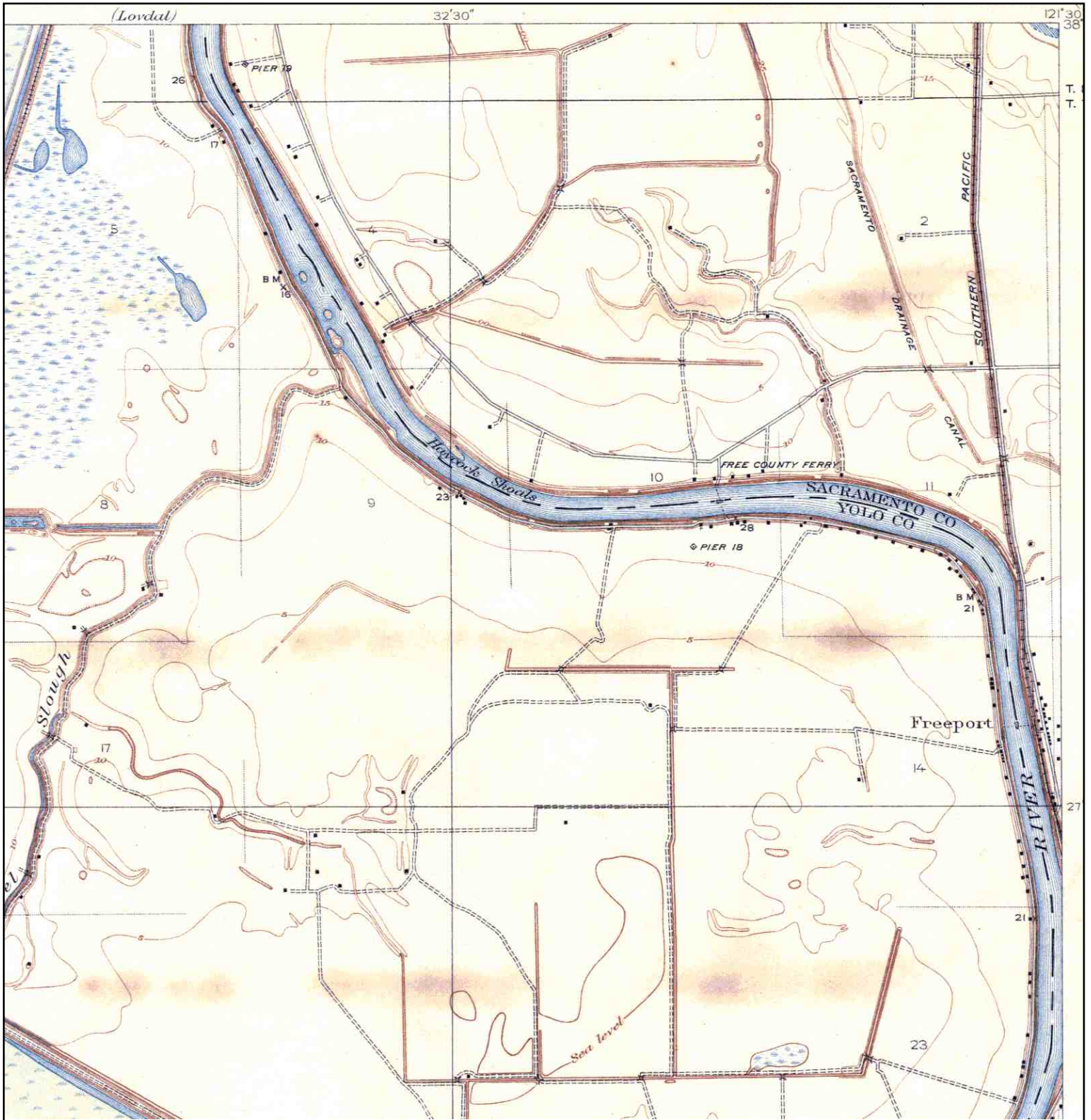
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Historical Topographic Map



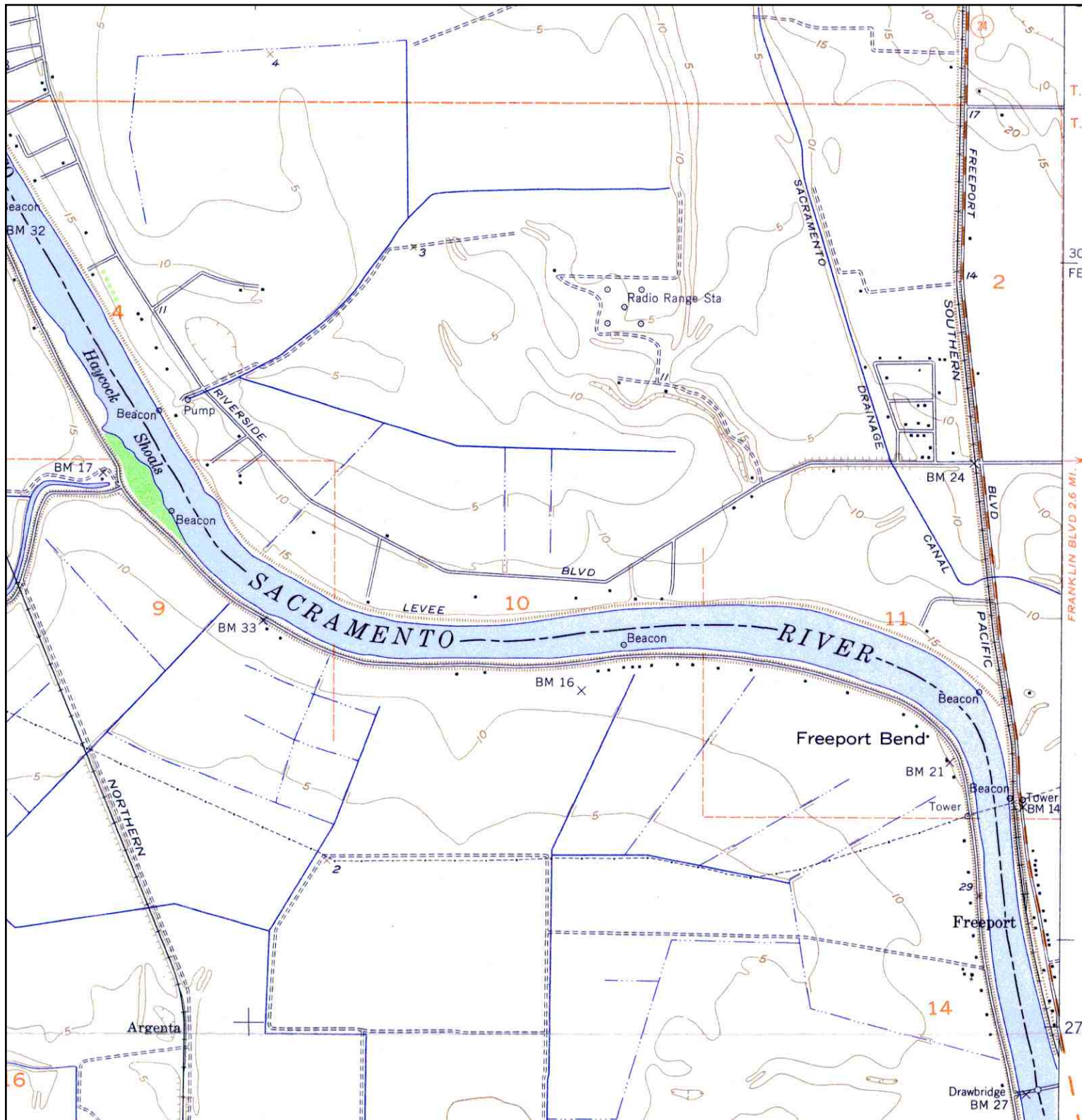
	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: COURTLAND	Sacramento River RiverMile 48.2	MECx
	MAP YEAR: 1908	ADDRESS: RiverMile 48.2	CONTACT: Robert Bell
	SERIES: 15	CLARKSBURG, CA 95612	INQUIRY#: 1790792.4
	SCALE: 1:62500	LAT/LONG: 38.4735 / 121.5225	RESEARCH DATE: 11/07/2006

Historical Topographic Map



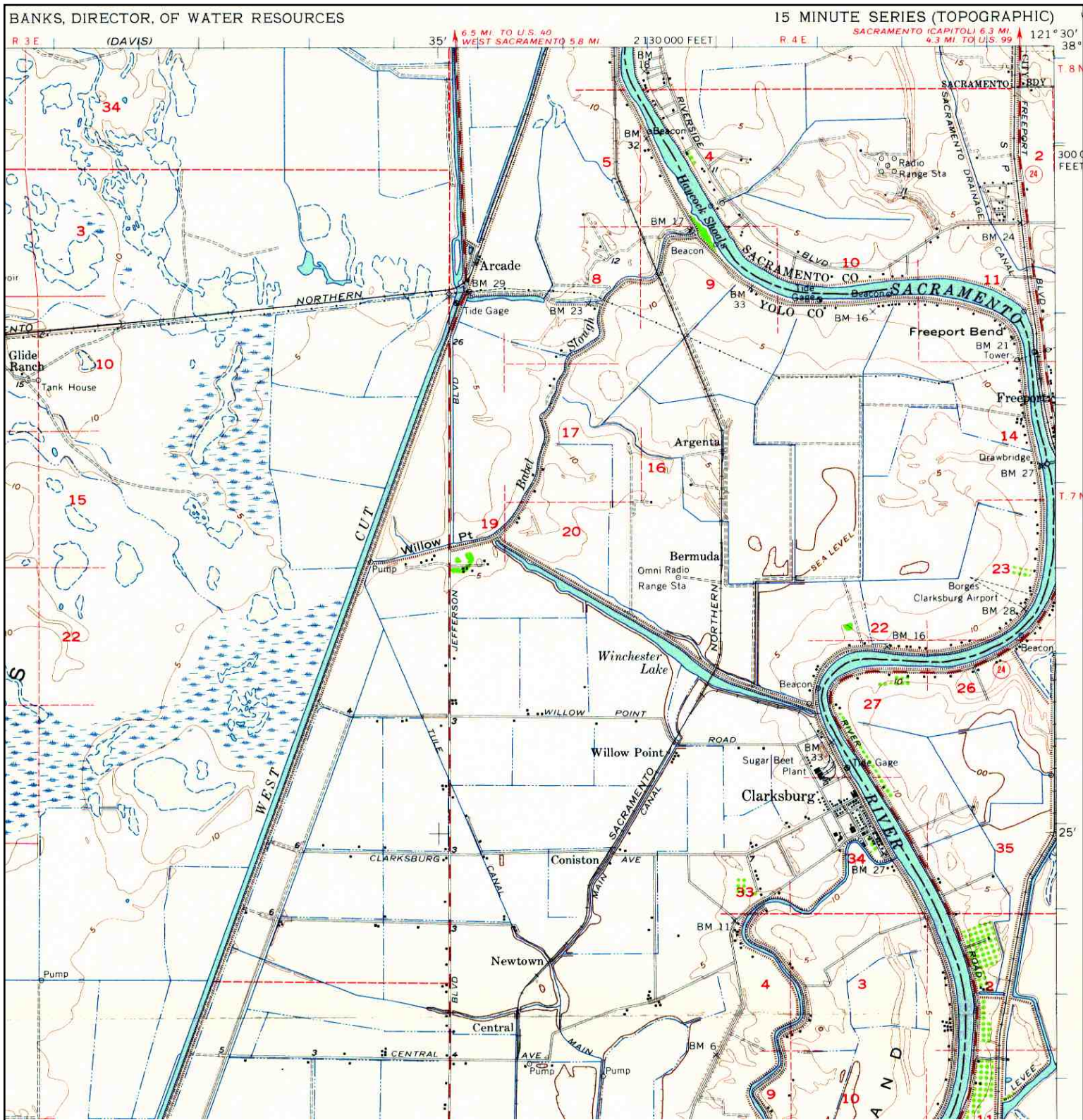
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 48.2	CLIENT:	MECx
	NAME: BABEL SLOUGH	ADDRESS:	RiverMile 48.2	CONTACT:	Robert Bell
	MAP YEAR: 1916		CLARKSBURG, CA 95612	INQUIRY#:	1790792.4
	SERIES: 7.5	LAT/LONG:	38.4735 / 121.5225	RESEARCH DATE:	11/07/2006
	SCALE: 1:31680				


Historical Topographic Map



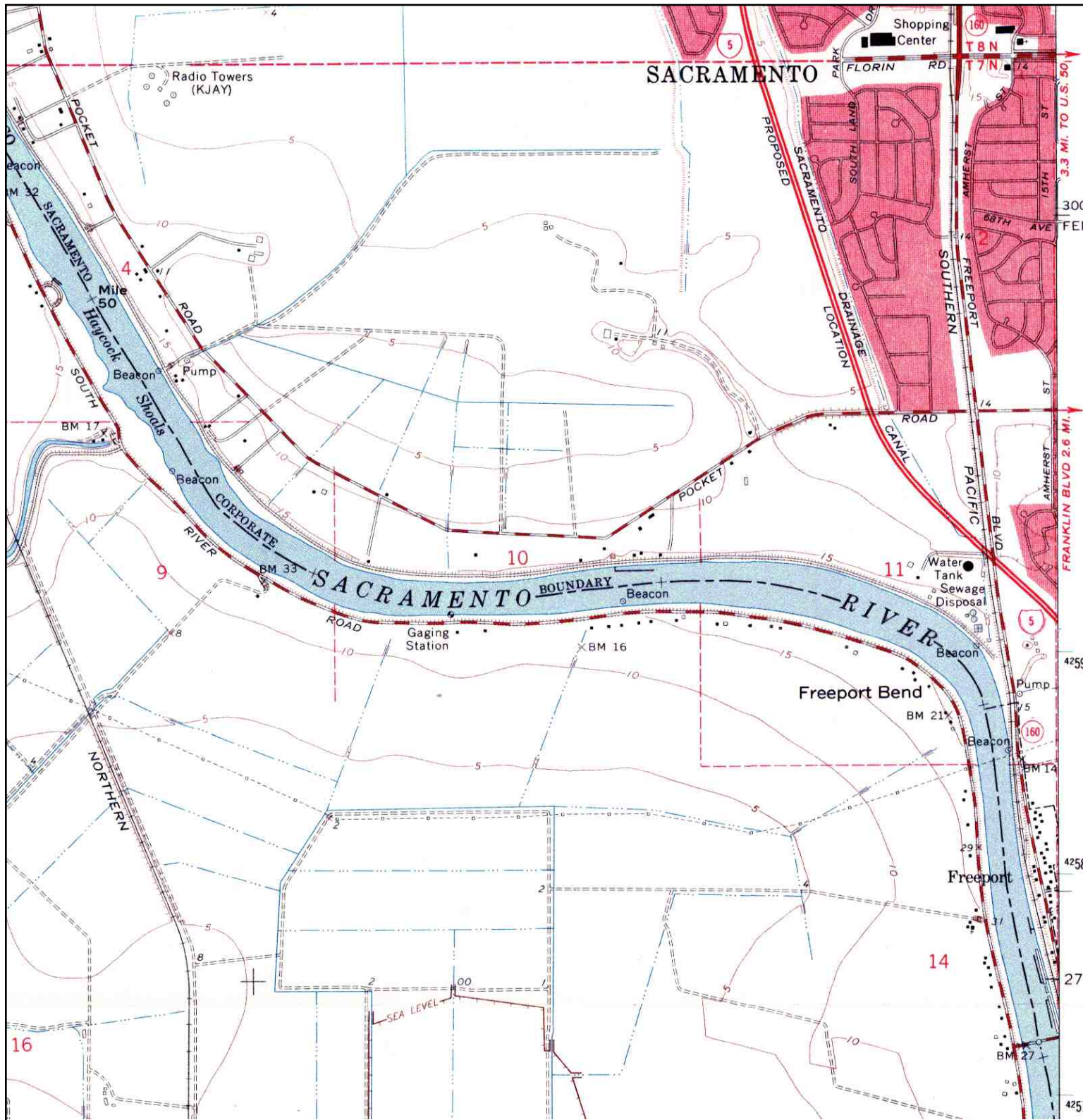
	TARGET QUAD	SITE NAME:	CLARKSBURG	CLIENT:	MECx	
	NAME:	CLARKSBURG	48.2	CONTACT:	Robert Bell	
	MAP YEAR:	1952	ADDRESS:	RiverMile 48.2	INQUIRY#:	1790792.4
	SERIES:	7.5	CLARKSBURG, CA 95612	LAT/LONG:	38.4735 / 121.5225	RESEARCH DATE:
	SCALE:	1:24000				

Historical Topographic Map



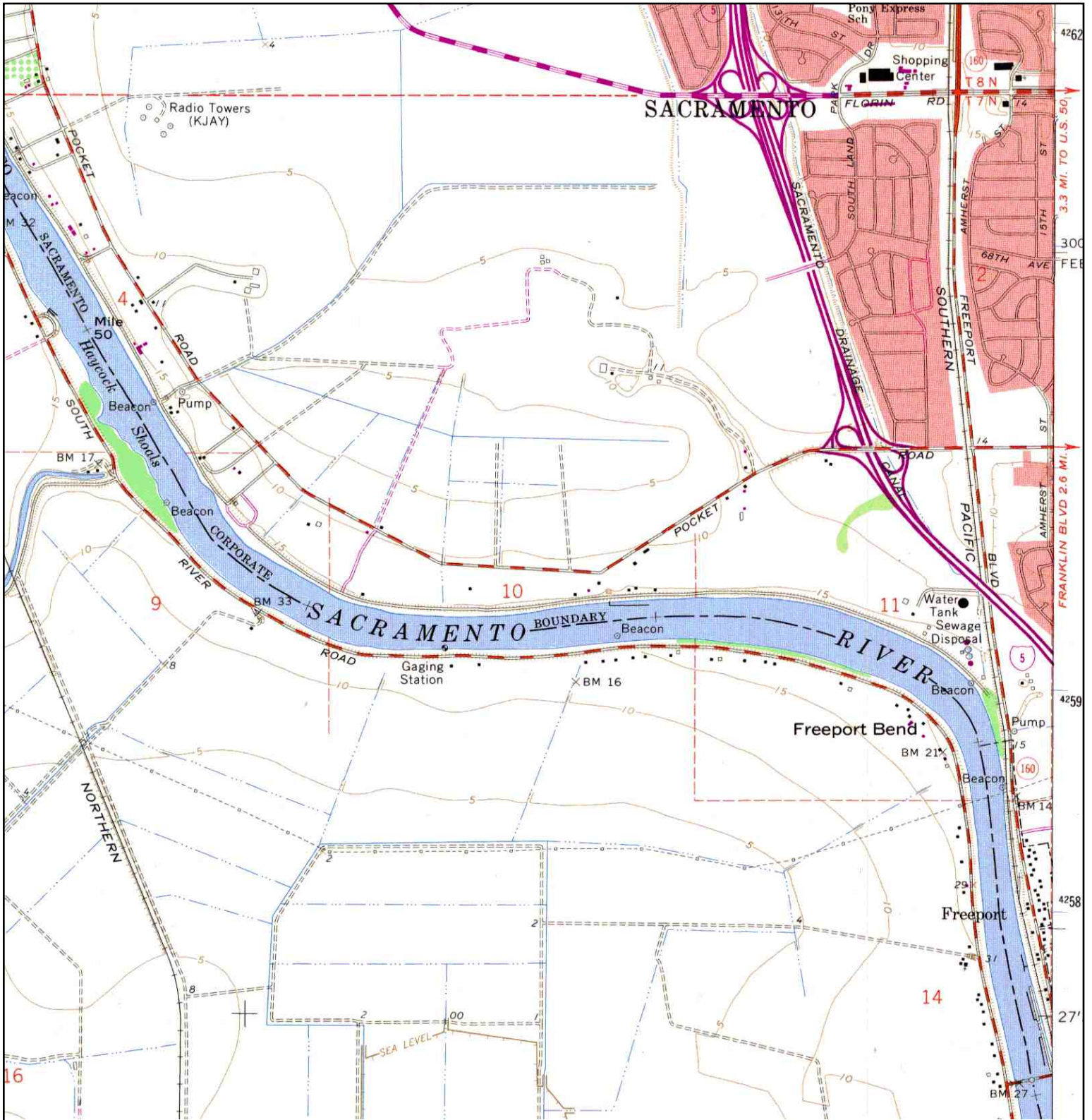
	TARGET QUAD	SITE NAME:	Clarksburg	CLIENT:	MECx	
	NAME: COURTLAND	48.2	CONTACT:	Robert Bell		
	MAP YEAR: 1952	ADDRESS:	RiverMile 48.2	INQUIRY#:	1790792.4	
	SERIES: 15	CLARKSBURG, CA 95612	LAT/LONG:	38.4735 / 121.5225	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500					

Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: CLARKSBURG MAP YEAR: 1967</p>	<p>SITE NAME: Sacramento River RiverMile 48.2 ADDRESS: RiverMile 48.2 CLARKSBURG, CA 95612</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790792.4 RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>	<p>LAT/LONG: 38.4735 / 121.5225</p>	

Historical Topographic Map



<p>N</p>	TARGET QUAD	SITE NAME:	CLARKSBURG	CLIENT:	MECx	
	NAME:	CLARKSBURG	48.2	CONTACT:	Robert Bell	
	MAP YEAR:	1975	ADDRESS:	RiverMile 48.2	INQUIRY#:	1790792.4
	PHOTOREVISED FROM:	1967	CLARKSBURG, CA 95612	RESEARCH DATE:	11/07/2006	
	SERIES:	7.5	LAT/LONG:	38.4735 / 121.5225		
	SCALE:	1:24000				

APPENDIX L

**EDR REPORT FOR SAC62.5R
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 62.5
RiverMile 62.5
WEST SACRAMENTO, CA 95605**

Inquiry Number: 1790938.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 62.5
WEST SACRAMENTO, CA 95605

COORDINATES

Latitude (North): 38.597400 - 38° 35' 50.6"
Longitude (West): 121.547800 - 121° 32' 52.1"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 626464.3
UTM Y (Meters): 4272894.0
Elevation: 0 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-E5 SACRAMENTO WEST, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRA-TSDF..... Resource Conservation and Recovery Act Information
RCRA-LQG..... Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
SWRCY	Recycler Database
AST	Aboveground Petroleum Storage Tank Facilities
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
INDIAN LUST	Leaking Underground Storage Tanks on Indian Land
INDIAN UST	Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants	EDR Proprietary Manufactured Gas Plants
EDR Historical Auto Stations	EDR Proprietary Historic Gas Stations
EDR Historical Cleaners	EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

EXECUTIVE SUMMARY

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.

Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

FEDERAL RECORDS

FUDS: The Listing includes locations of Formerly Used Defense Sites Properties where the US Army Corps Of Engineers is actively working or will take necessary cleanup actions.

A review of the FUDS list, as provided by EDR, and dated 12/05/2005 has revealed that there is 1 FUDS site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
SACRAMENTO DISTRICT ENGINEER Y		1/4 - 1/2NW	10	17

STATE AND LOCAL RECORDS

BEP: Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

A review of the CA BOND EXP. PLAN list, as provided by EDR, and dated 01/01/1989 has revealed that there is 1 CA BOND EXP. PLAN site within approximately 1 mile of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
B.O.R. INDUSTRIES	2505 RICE AVENUE	1/2 - 1 SSE	C13	27

WMUDS/SWAT: The Waste Management Unit Database System is used for program tracking and inventory of waste management units. The source is the State Water Resources Control Board.

A review of the WMUDS/SWAT list, as provided by EDR, and dated 04/01/2000 has revealed that there is 1 WMUDS/SWAT site within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
RIVER POINT BUSINESS PARK	HARBOR BLVD/REED AVE	1/4 - 1/2SSE	9	16

CORTESE: This database identifies public drinking water wells with detectable levels of contamination, hazardous substance sites selected for remedial action, sites with known toxic material identified through the abandoned site assessment program, sites with USTs having a reportable release and all solid waste disposal facilities from which there is known migration. The source is the California Environmental Protection Agency/Office of Emergency Information.

A review of the Cortese list, as provided by EDR, and dated 04/01/2001 has revealed that there are 2

EXECUTIVE SUMMARY

Cortese sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BRYTE SEND STORAGE	1645 RIVERBANK RD	1/8 - 1/4ESE	B5	8
SACRAMENTO MAINTENANCE YA	1450 RIVERBANK	1/4 - 1/2ENE	11	18

LUST: The Leaking Underground Storage Tank Incident Reports contain an inventory of reported leaking underground storage tank incidents. The data come from the State Water Resources Control Board Leaking Underground Storage Tank Information System.

A review of the LUST list, as provided by EDR, and dated 10/11/2006 has revealed that there are 2 LUST sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
BRYTE SEND STORAGE Facility Status: Case Closed	1645 RIVERBANK RD	1/8 - 1/4ESE	B5	8
SACRAMENTO MAINTENANCE YA Facility Status: Pollution Characterization	1450 RIVERBANK	1/4 - 1/2ENE	11	18

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FARMING	2350 GARDEN HWY	1/8 - 1/4N	A1	6

CA SLIC: SLIC Region comes from the California Regional Water Quality Control Board.

A review of the SLIC list, as provided by EDR, and dated 10/11/2006 has revealed that there are 2 SLIC sites within approximately 0.5 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
MCI TELECOMMUNICATION CORPORAT	2820 KOVR DR	1/4 - 1/2S	7	10
HOME DEPOT Facility Status: Case Open	700 RIVERPOINT CIRCLE	1/4 - 1/2S	8	16

UST: The Underground Storage Tank database contains registered USTs. USTs are regulated under Subtitle I of the Resource Conservation and Recovery Act (RCRA). The data come from the State Water Resources Control Board's Hazardous Substance Storage Container Database.

A review of the UST list, as provided by EDR, and dated 07/11/2006 has revealed that there is 1 UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
USACE BRYTE YARD	1645 RIVERBANK RD	1/8 - 1/4ESE	B6	9

EXECUTIVE SUMMARY

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there are 2 HIST UST sites within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FARMING	2350 GARDEN HWY	1/8 - 1/4N	A2	6
BRYTE YARD	1645 RIVERBANK RD	1/8 - 1/4ESE	B4	7

SWEEPS: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is 1 SWEEPS UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
FARMING	2350 GARDEN HWY	1/8 - 1/4N	A1	6

CA ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 08/02/2006 has revealed that there is 1 Sacramento Co. ML site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
LAWRENCE RAPOSA	2250 GARDEN HWY	1/8 - 1/4NE	3	7

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 08/29/2006 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

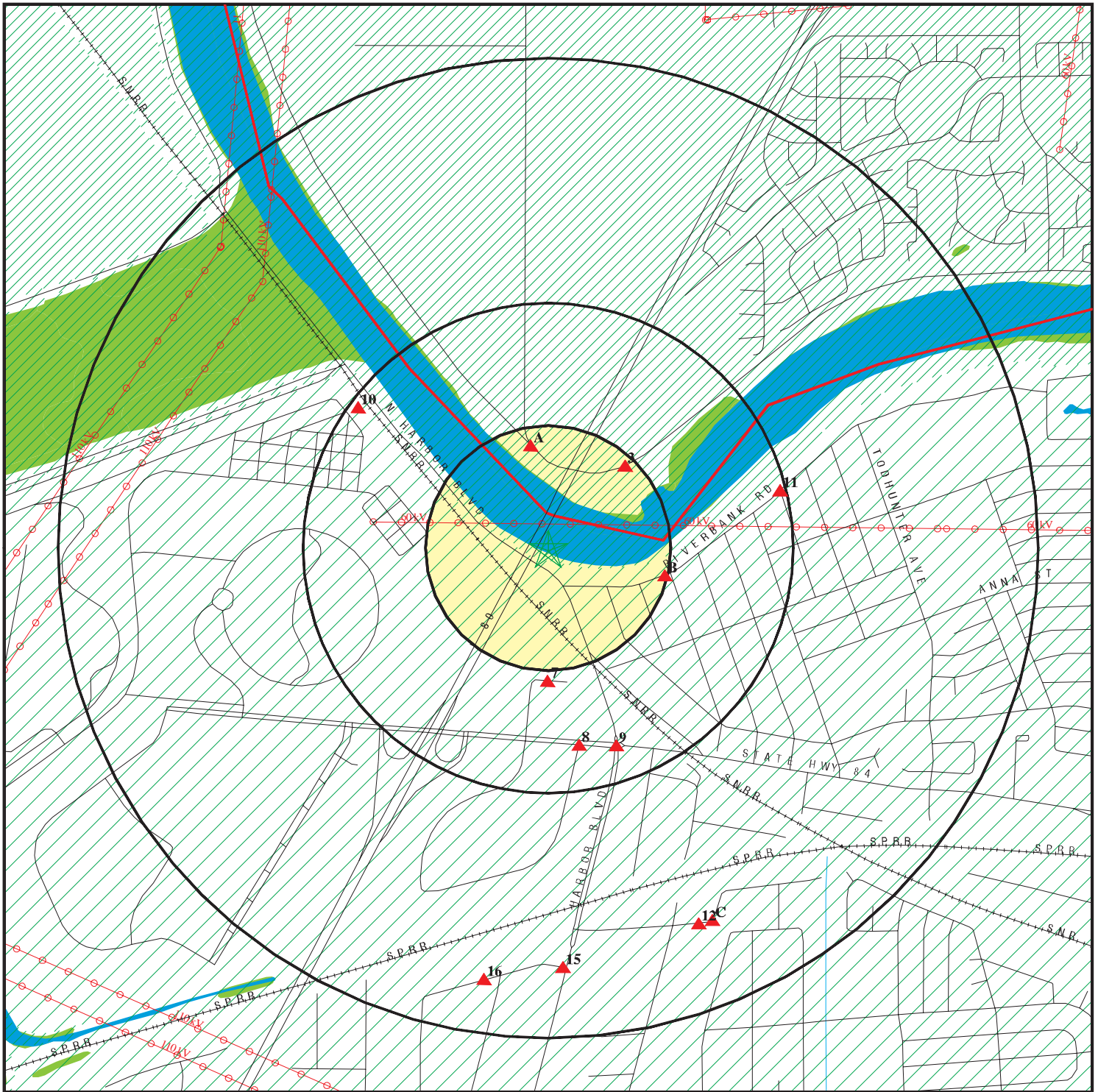
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
PETROLEUM TANK LINE Facility Status: Refer: RWQCB	2600 RICE AVE	1/2 - 1 SSE	12	21
B O R INDUSTRIES, INC Facility Status: Inactive - Needs Evaluation	2505 RICE AVENUE	1/2 - 1 SSE	C14	29
TOM'S HOUSE OF HYDRAULICS INC Facility Status: Refer: Other Agency	2904 DULUTH ST	1/2 - 1 S	15	30
JAR BUILDING - GERLINGER MOTOR Facility Status: Refer: RWQCB	3020 / 3040 DULUTH ST	1/2 - 1 S	16	32

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
WEST SACRAMENTO SUB-STATION	HAZNET
DEEP WATER OF CHANNEL SACRAMENTO RIVER, END OF WEST CAPITOL RAILROAD M.P. 85/W. OF WEST SACRAMENTO	ERNS
CO RD 126 1/4 MI W OF OLD RIVER RD	ERNS
1570 SOUTH RIVER ROAD	ERNS
SACRAMENTO RIVER NEAR DAVIS AND SOUT RIVER ROADS	ERNS
WEST SACRAMENTO DRAINAGE DITCH	US BROWNFIELDS
WEST SACRAMENTO LIBRARY	US BROWNFIELDS
SACRAMENTO CITY WELL #159	Sacramento Co. ML
RIVERPOINT BUSINESS PARK	ENVIROSTOR
SOUTHERN PACIFIC RIVERPOINT PROPERTY	ENVIROSTOR

OVERVIEW MAP - 1790938.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▬ County Boundary
- ▬ Power transmission lines
- ▬ Oil & Gas pipelines
- ▨ 100-year flood zone
- ▨ 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 62.5
 ADDRESS: RiverMile 62.5
 WEST SACRAMENTO CA 95605
 LAT/LONG: 38.5974 / 121.5478

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790938.2s
 DATE: November 07, 2006 10:47 am

DETAIL MAP - 1790938.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ County Boundary
- ▲ Power transmission lines
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 62.5
 ADDRESS: RiverMile 62.5
 WEST SACRAMENTO CA 95605
 LAT/LONG: 38.5974 / 121.5478

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790938.2s
 DATE: November 07, 2006 10:47 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	1	0	NR	1
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	1	NR	1
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	1	NR	NR	1
Cortese		0.500	0	1	1	NR	NR	2
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	1	1	NR	NR	2
CA FID UST		0.250	0	1	NR	NR	NR	1
SLIC		0.500	0	0	2	NR	NR	2
UST		0.250	0	1	NR	NR	NR	1
HIST UST		0.250	0	2	NR	NR	NR	2

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	1	NR	NR	NR	1
CHMIRS	TP		NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Sacramento Co. ML RESPONSE		0.250	0	1	NR	NR	NR	1
HAZNET	TP	1.000	0	0	0	0	NR	0
EMI	TP		NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	4	NR	4
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

A1
North
1/8-1/4
1123 ft.

FARMING
2350 GARDEN HWY
SACRAMENTO, CA 95833

CA FID UST **S101630723**
SWEEPS UST **N/A**

Site 1 of 2 in cluster A

Relative:
Higher

CA FID UST:
 Facility ID: 34006983
 Regulated By: UTNKA
 Regulated ID: 00022481
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 9169258311
 Mail To: Not reported
 Mailing Address: 2350 GARDEN HWY
 Mailing Address 2: Not reported
 Mailing City, St, Zip: SACRAMENTO 95833
 Contact: Not reported
 Contact Phone: Not reported
 DUNS Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

Actual:
27 ft.

SWEEPS UST:

Status: A
 Comp Number: 22481
 Number: 9
 Board Of Equalization: Not reported
 Ref Date: 07-01-85
 Act Date: Not reported
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 1
 Swrcb Tank Id: 34-000-022481-000001
 Actv Date: 07-01-85
 Capacity: 500
 Tank Use: M.V. FUEL
 Stg: P
 Content: LEADED
 Number Of Tanks: 1

A2
North
1/8-1/4
1123 ft.

FARMING
2350 GARDEN HWY
SACRAMENTO, CA 95833

HIST UST **U001615943**
N/A

Site 2 of 2 in cluster A

Relative:
Higher

HIST UST:
 Region: STATE
 Facility ID: 00000022481
 Tank Num: 001
 Container Num: 1
 Year Installed: 1959
 Tank Capacity: 00000500
 Facility Type: Other
 Other Type: FARM
 Total Tanks: 0001

Actual:
27 ft.

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

FARMING (Continued)

EDR ID Number
 EPA ID Number

Database(s)

Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Tank Construction: Not reported
 Leak Detection: Stock Inventor
 Contact Name: Not reported
 Telephone: 9169258311
 Owner Name: LAWRENCE A. RAPOSA
 Owner Address: 2350 GARDEN HWY
 Owner City,St,Zip: SACRAMENTO, CA 95833

U001615943

3
NE
1/8-1/4
1216 ft.

LAWRENCE RAPOSA
2250 GARDEN HWY
SACRA, CA 95834

Sacramento Co. ML S105269469
N/A

Relative:
Higher

Sacramento Co. ML:
 FD: U
 Billing Codes BP: Farm-No Fee
 Billing Codes UST: Farm-No Fee
 WG Bill Code: Farm-No Fee
 Target Property Bill Cod: 50
 Food Bill Code: 53
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: 0
 Facility Id: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

Actual:
26 ft.

B4
ESE
1/8-1/4
1293 ft.

BRYTE YARD
1645 RIVERBANK RD
BRYTE, CA 95605

HIST UST U001612319
N/A

Site 1 of 3 in cluster B

Relative:
Higher

HIST UST:
 Region: STATE
 Facility ID: 00000064542
 Tank Num: 001
 Container Num: 1
 Year Installed: Not reported
 Tank Capacity: 00001000
 Facility Type: Other
 Other Type: GOV'T
 Total Tanks: 0001
 Tank Used for: PRODUCT
 Type of Fuel: REGULAR
 Tank Construction: Not reported
 Leak Detection: Stock Inventor

Actual:
26 ft.

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

BRYTE YARD (Continued)

U001612319

Contact Name: RON MASON
 Telephone: 9165512564
 Owner Name: U.S. ARMY CORPS OF ENGINEERS
 Owner Address: 650 CAPITOL MALL
 Owner City,St,Zip: SACRAMENTO, CA 95814

**B5
 ESE
 1/8-1/4
 1293 ft.**

**BRYTE SEND STORAGE
 1645 RIVERBANK RD
 BRYTE, CA 95605**

**LUST S104163435
 Cortese N/A**

Site 2 of 3 in cluster B

**Relative:
 Higher**

LUST:

**Actual:
 26 ft.**

Region: STATE
 Case Type: Soil only
 Cross Street: Not reported
 Enf Type: None Taken
 Funding: Not reported
 How Discovered: Tank Closure
 How Stopped: Not reported
 Leak Cause: Other Cause
 Leak Source: Piping
 Global Id: T0611300059
 Stop Date: 1989-04-14 00:00:00
 Confirm Leak: Not reported
 Workplan: Not reported
 Prelim Assess: 1989-08-09 00:00:00
 Pollution Char: Not reported
 Remed Plan: Not reported
 Remed Action: Not reported
 Monitoring: Not reported
 Close Date: 1990-07-01 00:00:00
 Discover Date: 1989-04-14 00:00:00
 Enforcement Dt: 1965-01-01 00:00:00
 Release Date: 1989-06-13 00:00:00
 Review Date: 1996-04-09 00:00:00
 Enter Date: 1989-08-14 00:00:00
 MTBE Date: Not reported
 GW Qualifier: Not reported
 Soil Qualifier: Not reported
 Max MTBE GW ppb: Not reported
 Max MTBE Soil ppb: Not reported
 County: 57
 Org Name: Not reported
 Reg Board: 5S
 Status: Case Closed
 Chemical: Regular Gasoline
 Contact Person: Not reported
 Responsible Party: US ARMY CORPS ENG
 RP Address: 1645 RIVERBANK RAOD, BRYTE, CA 95605
 Interim: Not reported
 Oversight Prgm: LUST
 MTBE Class: *
 MTBE Conc: 0
 MTBE Fuel: 1
 MTBE Tested: Site NOT Tested for MTBE.Includes Unknown and Not Analyzed.
 Staff: DFS
 Staff Initials: BRU

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

BRYTE SEND STORAGE (Continued)

S104163435

Lead Agency: Local Agency
 Local Agency: 57000
 Hydr Basin #: SACRAMENTO VALLEY (5)
 Beneficial: Not reported
 Priority: 3
 Cleanup Fund Id: Not reported
 Work Suspended: No
 Local Case #: Not reported
 Case Number: 570087
 Qty Leaked: 1000
 Abate Method: Not reported
 Operator: U.S. ARMY
 Water System Name: Not reported
 Well Name: Not reported
 Distance To Lust: 0
 Waste Discharge Global ID: Not reported
 Waste Disch Assigned Name: Not reported
 Summary: Not reported

LUST:

Region: 5
 Case Number: 570087
 Staff Initials: DFS
 Substance: REGULR GASOLINE
 Case Type: Soil only
 Status: Case Closed
 Lead Agency: Local
 Program: LUST
 MTBE Code: N/A

Cortese:

Region: CORTESE
 Facility Addr2: 1645 RIVERBANK RD

**B6
 ESE
 1/8-1/4
 1293 ft.**

**USACE BRYTE YARD
 1645 RIVERBANK RD
 WEST SACRAMENTO, CA 95605**

**UST U003895265
 N/A**

Site 3 of 3 in cluster B

**Relative:
 Higher**

UST:

**Actual:
 26 ft.**

Region: Yolo
 Facility ID: FA0000397
 Owner ID: OW0000318
 Owner Name: US ARMY CORP OF ENGINEERS
 Owner Address: 1325 J ST
 Owner City,St,Zip: SACRAMENTO, CA 95814-2922
 Business Type: 99 - OTHER
 Business ID: 09 - UNKNOWN
 Current Status: Inactive
 Program/Element: 2306 - UST PERMANENT CLOSURE PERMIT
 Tank Number: 1
 Tank Type: petroleum
 Tank Description: SINGLE WALLED
 Tank Contents: 001
 Tank Capacity: 1,000
 Leak Detection #: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

USACE BRYTE YARD (Continued)

EDR ID Number
 EPA ID Number

U003895265

Tank Status: inactive
 LEA ID: Not reported
 Surcharge Year: Not reported
 Inv Gen: 000397

7
 South
 1/4-1/2
 1430 ft.

MCI TELECOMMUNICATION CORPORATION UP TO 1997 AR
 2820 KOVR DR
 WEST SACRAMENTO, CA 95605**

**HAZNET S102792639
 SLIC N/A
 EMI**

**Relative:
 Higher**

HAZNET:
 Gepaid: CAC000766792
 Contact: MCI TELECOMMUNICATIONS
 Telephone: 9729185671
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2820 KOVR DR
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956050000
 Gen County: Yolo
 TSD EPA ID: CAD044429835
 TSD County: Los Angeles
 Waste Category: Other organic solids
 Disposal Method: Disposal, Other
 Tons: .1250
 Facility County: Yolo

**Actual:
 23 ft.**

Gepaid: CAC000721440
 Contact: KEVIN MCGRATH/CONTACT
 Telephone: 9163734601
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2820 KOVR DRIVE
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956050000
 Gen County: Yolo
 TSD EPA ID: CAD044003556
 TSD County: Yolo
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Transfer Station
 Tons: 11.2590
 Facility County: Yolo

Gepaid: CAC000721440
 Contact: KEVIN MCGRATH/CONTACT
 Telephone: 9163734601
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2820 KOVR DRIVE
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956050000
 Gen County: Yolo
 TSD EPA ID: CAT080011059
 TSD County: Los Angeles
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Disposal, Other
 Tons: 6.0000
 Facility County: Yolo

Gepaid: CAC000721440
 Contact: KEVIN MCGRATH/CONTACT

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MCI TELECOMMUNICATION CORPORATION UP TO 1997 AR (Continued)**

S102792639

Telephone: 9163734601
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 2820 KOVR DRIVE
Mailing City,St,Zip: WEST SACRAMENTO, CA 956050000
Gen County: Yolo
TSD EPA ID: CAT080011059
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Recycler
Tons: .0625
Facility County: Yolo

Gepaid: CAC000721440
Contact: KEVIN MCGRATH/CONTACT
Telephone: 9163734601
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 2820 KOVR DRIVE
Mailing City,St,Zip: WEST SACRAMENTO, CA 956050000
Gen County: Yolo
TSD EPA ID: CAT080011059
TSD County: Los Angeles
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Tons: 3.1000
Facility County: Yolo

[Click this hyperlink](#) while viewing on your computer to access additional CA_HAZNET: detail in the EDR Site Report.

SLIC:

Region: 5
Facility Status: Closed by County
Unit: Facility is a Spill or site
Pollutant: TPH as hydraulic oil
Lead Agency: Not reported
Date Filed: 02/13/97
Report Date: 12/27/96
Date Added: Not reported
Date Closed: Not reported

EMI:

Year: 1996
Carbon Monoxide Emissions Tons/Yr: 57
Air Basin: SV
Facility ID: 509
Air District Name: YS
SIC Code: 4813
Air District Name: YOLO/SOLANO AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MCI TELECOMMUNICATION CORPORATION UP TO 1997 AR (Continued)**

S102792639

SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1997
Carbon Monoxide Emissions Tons/Yr:	57
Air Basin:	SV
Facility ID:	509
Air District Name:	YS
SIC Code:	4813
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1998
Carbon Monoxide Emissions Tons/Yr:	57
Air Basin:	SV
Facility ID:	845
Air District Name:	YS
SIC Code:	4813
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1998
Carbon Monoxide Emissions Tons/Yr:	57
Air Basin:	SV
Facility ID:	509
Air District Name:	YS
SIC Code:	4813
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	1999
Carbon Monoxide Emissions Tons/Yr:	57

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Database(s)
EDR ID Number
EPA ID Number

MCI TELECOMMUNICATION CORPORATION UP TO 1997 AR (Continued)**

S102792639

Air Basin: SV
Facility ID: 845
Air District Name: YS
SIC Code: 4813
Air District Name: YOLO/SOLANO AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 1999
Carbon Monoxide Emissions Tons/Yr: 57
Air Basin: SV
Facility ID: 509
Air District Name: YS
SIC Code: 4813
Air District Name: YOLO/SOLANO AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 1
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000
Carbon Monoxide Emissions Tons/Yr: 57
Air Basin: SV
Facility ID: 845
Air District Name: YS
SIC Code: 4813
Air District Name: YOLO/SOLANO AQMD
Community Health Air Pollution Info System: Not reported
Consolidated Emission Reporting Rule: Not reported
Total Organic Hydrocarbon Gases Tons/Yr: 0
Reactive Organic Gases Tons/Yr: 0
Carbon Monoxide Emissions Tons/Yr: 0
NOX - Oxides of Nitrogen Tons/Yr: 0
SOX - Oxides of Sulphur Tons/Yr: 0
Particulate Matter Tons/Yr: 0
Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2000
Carbon Monoxide Emissions Tons/Yr: 57
Air Basin: SV
Facility ID: 509
Air District Name: YS
SIC Code: 4813
Air District Name: YOLO/SOLANO AQMD
Community Health Air Pollution Info System: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

MCI TELECOMMUNICATION CORPORATION UP TO 1997 AR (Continued)**

S102792639

Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 3
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001
 Carbon Monoxide Emissions Tons/Yr: 57
 Air Basin: SV
 Facility ID: 845
 Air District Name: YS
 SIC Code: 4813
 Air District Name: YOLO/SOLANO AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2001
 Carbon Monoxide Emissions Tons/Yr: 57
 Air Basin: SV
 Facility ID: 509
 Air District Name: YS
 SIC Code: 4813
 Air District Name: YOLO/SOLANO AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 3
 SOX - Oxides of Sulphur Tons/Yr: 0
 Particulate Matter Tons/Yr: 0
 Part. Matter 10 Micrometers & Smlr Tons/Yr: 0

Year: 2002
 Carbon Monoxide Emissions Tons/Yr: 57
 Air Basin: SV
 Facility ID: 845
 Air District Name: YS
 SIC Code: 4813
 Air District Name: YOLO/SOLANO AQMD
 Community Health Air Pollution Info System: Not reported
 Consolidated Emission Reporting Rule: Not reported
 Total Organic Hydrocarbon Gases Tons/Yr: 0
 Reactive Organic Gases Tons/Yr: 0
 Carbon Monoxide Emissions Tons/Yr: 0
 NOX - Oxides of Nitrogen Tons/Yr: 0
 SOX - Oxides of Sulphur Tons/Yr: 0

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

MCI TELECOMMUNICATION CORPORATION UP TO 1997 AR (Continued)**

S102792639

Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	2002
Carbon Monoxide Emissions Tons/Yr:	57
Air Basin:	SV
Facility ID:	509
Air District Name:	YS
SIC Code:	4813
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	2003
Carbon Monoxide Emissions Tons/Yr:	57
Air Basin:	SV
Facility ID:	509
Air District Name:	YS
SIC Code:	4813
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0
Year:	2004
Carbon Monoxide Emissions Tons/Yr:	57
Air Basin:	SV
Facility ID:	509
Air District Name:	YS
SIC Code:	4813
Air District Name:	YOLO/SOLANO AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0.2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers & Smlr Tons/Yr:	0

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

8
South
1/4-1/2
2146 ft.

HOME DEPOT
700 RIVERPOINT CIRCLE
WEST SACRAMENTO, CA

SLIC **S107869619**
N/A

Relative:
Higher

SLIC:

Region: STATE
 Global Id: SL0611367066
 Assigned Name: SLICSITE
 Lead Agency Contact: AMY TERRELL
 Lead Agency: CENTRAL VALLEY RWQCB (REGION 5S)
 Lead Agency Case Number: Not reported
 Responsible Party: Not reported
 Recent Dtw: Not reported
 Substance Released: 7440382
Facility Status: Case Open

Actual:
24 ft.

9
SSE
1/4-1/2
2247 ft.

RIVER POINT BUSINESS PARK
HARBOR BLVD/REED AVE
WEST SACRAMENTO CA, CA 95691

WMUDS/SWAT **S103442173**
N/A

Relative:
Higher

WMUDS/SWAT:

Edit Date: Not reported
 Complexity: Not reported
 Primary Waste: Stormwater Runoff
 Primary Waste Type: Designated/Influent or Solid Wastes that pose a significant threat to water quality because of their high concentrations (E.G., BOD, Hardness, TRF, Chloride). 'Manageable' hazardous wastes (E.G., inorganic salts and heavy metals) are included in this category.
 Secondary Waste: Not reported
 Secondary Waste Type: Not reported
 Base Meridian: Not reported
 NPID: Not reported
 Tonnage: 0
 Regional Board ID: Not reported
 Municipal Solid Waste: False
 Superorder: False
 Open To Public: False
 Waste List: False
 Agency Type: Private
 Agency Name: BEDFORD PROPERTIES, INC.
 Agency Department: Not reported
 Agency Address: 3468 MT DIABLO BLVD, STE. B140
 Agency City,St,Zip: LAFAYETTE CA 94549
 Agency Contact: JUSTIN ANTHONY KENNEDY
 Agency Telephone: 4152838262
 Land Owner Name: Not reported
 Land Owner Address: Not reported
 Land Owner City,St,Zip: Not reported
 Land Owner Contact: Not reported
 Land Owner Phone: Not reported
 Region: 5S
 Facility Type: Industrial - Facility that treats and/or disposes of liquid or semisolid wastes from any servicing, producing, manufacturing or processing operation of whatever nature, including mining, gravel washing, geothermal operations, air conditioning, ship building and repairing, oil production, storage and disposal operations, water pumping.
 Facility Description: Not reported
 Facility Telephone: Not reported

Actual:
27 ft.

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
 EPA ID Number

RIVER POINT BUSINESS PARK (Continued)

S103442173

SWAT Facility Name: Not reported
 Primary SIC: 6512
 Secondary SIC: Not reported
 Comments: Not reported
 Last Facility Editors: Not reported
 Waste Discharge System: True
 Solid Waste Assessment Test Program: False
 Toxic Pits Cleanup Act Program: False
 Resource Conservation Recovery Act: False
 Department of Defence: False
 Solid Waste Assessment Test Program: Not reported
 Threat to Water Quality: Not reported
 Sub Chapter 15: True
 Regional Board Project Officer: JDM
 Number of WMUDS at Facility: 1
 Section Range: Not reported
 RCRA Facility: No
 Waste Discharge Requirements: Historical - Any regulated facility for which the Regional Board has rescinded all WDRs or consciously allowed an NPDES permit to expire.
 Self-Monitoring Rept. Frequency: Quarterly Submittal
 Waste Discharge System ID: 5A572015N01
 Solid Waste Information ID: Not reported

**10
 NW
 1/4-1/2
 2546 ft.**

**SACRAMENTO DISTRICT ENGINEER YARD-WEIR AREA
 WEST SACRAMENTO, CA**

**FUDS 1007372678
 N/A**

**Relative:
 Higher**

**Actual:
 23 ft.**

FUDS:
 Federal Facility ID: CA9799F5738
 Facility Name: Sacramento District Engineer Yard-Weir Area
 City: WEST SACRAMENTO
 State: CA
 EPA Region: 9
 County: YOLO
 Congressional District: 01
 US Army District: Sacramento District (SPK)
 Fiscal Year: 2004
 Phone: 916-557-7461
 Inst ID: Not reported
 CTC: Not reported
 RAB: Not reported
 FUDS History : The site was established prior to 1 January 1943 and was known as the Sacramento District Engineer Yard - Weir Area. The site was used by the Army for river and harbor purposes. On 11 August 1954, 2.0 fee acres were conveyed to the Sacramento and San Joaquin Drainage District. There were no recapture provisions. Currently, there are no potential hazards identified at this location, further investigation is needed.
 FUDS Description : The 2.0-acre site is located 3 1/2 miles west of the City of Sacramento in West Sacramento, Yolo County, CA. The Sacramento and San Joaquin Drainage District currently own the land.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

11
ENE
1/4-1/2
2578 ft.

SACRAMENTO MAINTENANCE YA
1450 RIVERBANK
BRYTE, CA 95691

HAZNET
LUST
Cortese

S101306137
N/A

Relative:
Higher

HAZNET:

Actual:
28 ft.

Gepaid: CAL920606248
 Contact: STATE DEPT OF WATER RESOURCES
 Telephone: 9164455744
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1450 RIVERBANK RD
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956052028
 Gen County: Yolo
 TSD EPA ID: CAL000027741
 TSD County: 5
 Waste Category: Asbestos-containing waste
 Disposal Method: Disposal, Land Fill
 Tons: 1.6856
 Facility County: Yolo

Gepaid: CAL920606248
 Contact: STATE DEPT OF WATER RESOURCES
 Telephone: 9164455744
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1450 RIVERBANK RD
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956052028
 Gen County: Yolo
 TSD EPA ID: CAD044429835
 TSD County: Los Angeles
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Recycler
 Tons: 0.2293
 Facility County: Yolo

Gepaid: CAL920606248
 Contact: STATE DEPT OF WATER RESOURCES
 Telephone: 9164455744
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1450 RIVERBANK RD
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956052028
 Gen County: Yolo
 TSD EPA ID: CAD980887418
 TSD County: 1
 Waste Category: Waste oil and mixed oil
 Disposal Method: Recycler
 Tons: 2.085
 Facility County: Yolo

Gepaid: CAL920606248
 Contact: PHIL CAREY-SUPERVISOR
 Telephone: 3756000
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 1450 RIVERBANK RD
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956052028
 Gen County: Yolo

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SACRAMENTO MAINTENANCE YA (Continued)

EDR ID Number
EPA ID Number

Database(s)

S101306137

TSD EPA ID: Not reported
TSD County: Sacramento
Waste Category: Off-specification, aged, or surplus inorganics
Disposal Method: Disposal, Other
Tons: 0.37
Facility County: Not reported

Gepaid: CAL920606248
Contact: PHIL CAREY-SUPERVISOR
Telephone: 3756000
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 1450 RIVERBANK RD
Mailing City,St,Zip: WEST SACRAMENTO, CA 956052028
Gen County: Yolo
TSD EPA ID: Not reported
TSD County: Sacramento
Waste Category: Off-specification, aged, or surplus organics
Disposal Method: Disposal, Other
Tons: 1.20
Facility County: Not reported

[Click this hyperlink](#) while viewing on your computer to access 16 additional CA_HAZNET: record(s) in the EDR Site Report.

LUST:

Region: STATE
Case Type: Drinking Water Aquifer affected
Cross Street: BRYTE AVE
Enf Type: None Taken
Funding: Not reported
How Discovered: Tank Closure
How Stopped: Not reported
Leak Cause: Corrosion
Leak Source: Tank
Global Id: T0611300022
Stop Date: Not reported
Confirm Leak: 1994-09-13 00:00:00
Workplan: Not reported
Prelim Assess: 1988-08-26 00:00:00
Pollution Char: 2006-05-08 00:00:00
Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: Not reported
Discover Date: 1994-09-13 00:00:00
Enforcement Dt: 2001-07-02 00:00:00
Release Date: 1988-01-01 00:00:00
Review Date: 2000-10-12 00:00:00
Enter Date: 1990-01-12 00:00:00
MTBE Date: 1999-03-05 00:00:00
GW Qualifier: =
Soil Qualifier: Not reported
Max MTBE GW ppb: 500
Max MTBE Soil ppb: Not reported
County: 57
Org Name: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

SACRAMENTO MAINTENANCE YA (Continued)

EDR ID Number
EPA ID Number

Database(s)

Site

S101306137

Reg Board: 5S
Status: Pollution Characterization
Chemical: Gasoline
Contact Person: Not reported
Responsible Party: CA DEPT OF WATER RESOURCES
RP Address: 1450 RIVERBANK RD, WEST SACRAMENTO, CA 95605
Interim: Yes
Oversight Prgm: LUST
MTBE Class: B
MTBE Conc: 1
MTBE Fuel: 1
MTBE Tested: MTBE Detected. Site tested for MTBE and MTBE detected
Staff: DFS
Staff Initials: BRU
Lead Agency: Regional Board
Local Agency: 57000
Hydr Basin #: SACRAMENTO VALLEY (5)
Beneficial: Not reported
Priority: 3
Cleanup Fund Id: Not reported
Work Suspended: No
Local Case #: Not reported
Case Number: 570033
Qty Leaked: Not reported
Abate Method: Excavate and Dispose - remove contaminated soil and dispose in approved site
Operator: AL ROMERO
Water System Name: Not reported
Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary: IN 1988 A WASTE UST FOR HERBICIDE WAS FOUND LEAKING ON SITE LITTLE APPEARS TO
HAVE BEEN DONE??? IN '94 A 3000 GAL FUEL TANK WAS
PULLED. WORK PLAN WAS APPROVED BUT NO ACTION...NOV'96.

LUST:

Region: 5
Case Number: 570033
Staff Initials: DFS
Substance: GASOLINE
Case Type: Drinking Water Aquifer affected
Status: Pollution Characterization
Lead Agency: Regional
Program: LUST
MTBE Code: 4

Cortese:

Region: CORTESE
Facility Addr2: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

12
SSE
1/2-1
4354 ft.

PETROLEUM TANK LINE
2600 RICE AVE
WEST SACRAMENTO, CA 95691

RCRA-SQG
FINDS
HAZNET
LUST
Cortese
HIST UST
ENVIROSTOR

1000367266
CAD009240185

Relative:
Higher

Actual:
22 ft.

RCRAInfo:
 Owner: NOT REQUIRED
 (415) 555-1212
 EPA ID: CAD009240185
 Contact: ENVIRONMENTAL MANAGER
 (916) 372-5211
 Classification: Small Quantity Generator
 TSDF Activities: Not reported
 Violation Status: No violations found

FINDS:
 Other Pertinent Environmental Activity Identified at Site

California - Hazardous Waste Tracking System - Datamart

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

HAZNET:
 Gepaid: CAD009240185
 Contact: CHARLES H MOORE JR
 Telephone: 9163715211
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2600 RICE AVE
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956912348
 Gen County: Yolo
 TSD EPA ID: Not reported
 TSD County: Santa Clara
 Waste Category: Unspecified oil-containing waste
 Disposal Method: Transfer Station
 Tons: 0.45
 Facility County: Not reported

Gepaid: CAD009240185
 Contact: CHARLES H MOORE JR
 Telephone: 9163715211
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2600 RICE AVE
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956912348
 Gen County: Yolo

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

PETROLEUM TANK LINE (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000367266

TSD EPA ID: CAL000051079
TSD County: Sacramento
Waste Category: Unspecified oil-containing waste
Disposal Method: Transfer Station
Tons: 3.0441
Facility County: Yolo

Gepaid: CAD009240185
Contact: CHARLES H MOORE JR
Telephone: 9163715211
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 2600 RICE AVE
Mailing City,St,Zip: WEST SACRAMENTO, CA 956912348
Gen County: Yolo
TSD EPA ID: CAD009466392
TSD County: 7
Waste Category: Other empty containers 30 gallons or more
Disposal Method: Recycler
Tons: 6.0000
Facility County: Yolo

Gepaid: CAD009240185
Contact: CHARLES H MOORE JR
Telephone: 9163715211
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 2600 RICE AVE
Mailing City,St,Zip: WEST SACRAMENTO, CA 956912348
Gen County: Yolo
TSD EPA ID: CAD083166728
TSD County: Stanislaus
Waste Category: Unspecified oil-containing waste
Disposal Method: Recycler
Tons: 10.4250
Facility County: Yolo

Gepaid: CAD009240185
Contact: CHARLES H MOORE JR
Telephone: 9163715211
Facility Addr2: Not reported
Mailing Name: Not reported
Mailing Address: 2600 RICE AVE
Mailing City,St,Zip: WEST SACRAMENTO, CA 956912348
Gen County: Yolo
TSD EPA ID: CAD083166728
TSD County: Stanislaus
Waste Category: Unspecified oil-containing waste
Disposal Method: Not reported
Tons: 3.0441
Facility County: Yolo

[Click this hyperlink](#) while viewing on your computer to access 27 additional CA_HAZNET: record(s) in the EDR Site Report.

LUST:
Region: STATE

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

PETROLEUM TANK LINE (Continued)

1000367266

Case Type: Drinking Water Aquifer affected
Cross Street: GLIDE
Enf Type: None Taken
Funding: Not reported
How Discovered: OM
How Stopped: Not reported
Leak Cause: Corrosion
Leak Source: Piping
Global Id: T0611300202
Stop Date: Not reported
Confirm Leak: 1995-08-18 00:00:00
Workplan: Not reported
Prelim Assess: Not reported
Pollution Char: 2005-11-29 00:00:00
Remed Plan: Not reported
Remed Action: Not reported
Monitoring: Not reported
Close Date: Not reported
Discover Date: 1995-08-18 00:00:00
Enforcement Dt: 2000-11-09 00:00:00
Release Date: 1989-08-11 00:00:00
Review Date: 1998-01-20 00:00:00
Enter Date: 1995-10-03 00:00:00
MTBE Date: Not reported
GW Qualifier: Not reported
Soil Qualifier: Not reported
Max MTBE GW ppb: Not reported
Max MTBE Soil ppb: Not reported
County: 57
Org Name: Not reported
Reg Board: 5S
Status: Pollution Characterization
Chemical: Diesel
Contact Person: Not reported
Responsible Party: PETROLEUM TANK LINE
RP Address: 2600 RICE AVE, WEST SACRAMENTO, CA 95691
Interim: Not reported
Oversight Prgm: LUST
MTBE Class: *
MTBE Conc: 0
MTBE Fuel: 0
MTBE Tested: MTBE Detected. Site tested for MTBE and MTBE detected
Staff: DFS
Staff Initials: BRU
Lead Agency: Regional Board
Local Agency: 57000
Hydr Basin #: SACRAMENTO VALLEY (5)
Beneficial: Not reported
Priority: 2
Cleanup Fund Id: Not reported
Work Suspended: No
Local Case #: Not reported
Case Number: 570255
Qty Leaked: Not reported
Abate Method: Not reported
Operator: Not reported
Water System Name: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

PETROLEUM TANK LINE (Continued)

1000367266

Well Name: Not reported
Distance To Lust: 0
Waste Discharge Global ID: Not reported
Waste Disch Assigned Name: Not reported
Summary: Not reported

Cortese:
Region: CORTESE
Facility Addr2: 2600 RICE AVE

Region: CORTESE
Facility Addr2: Not reported

HIST UST:
Region: STATE
Facility ID: 00000004230
Tank Num: 001
Container Num: 5
Year Installed: 1974
Tank Capacity: 00002000
Facility Type: Other
Other Type: Not reported
Total Tanks: 0005
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Tank Construction: 6 inches
Leak Detection: Visual
Contact Name: C.H. MOORE, JR.
Telephone: 9163715211
Owner Name: PETROLEUM TANK LINE
Owner Address: 2600 RICE AVENUE
Owner City,St,Zip: WEST SACRAMENTO, CA 95691

Region: STATE
Facility ID: 00000004230
Tank Num: 002
Container Num: 4
Year Installed: 1975
Tank Capacity: 00001000
Facility Type: Other
Other Type: Not reported
Total Tanks: 0005
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Visual
Contact Name: C.H. MOORE, JR.
Telephone: 9163715211
Owner Name: PETROLEUM TANK LINE
Owner Address: 2600 RICE AVENUE
Owner City,St,Zip: WEST SACRAMENTO, CA 95691

Region: STATE
Facility ID: 00000004230
Tank Num: 003
Container Num: 3

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

PETROLEUM TANK LINE (Continued)

1000367266

Year Installed: 1978
Tank Capacity: 00002000
Facility Type: Other
Other Type: Not reported
Total Tanks: 0005
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Tank Construction: Not reported
Leak Detection: Stock Inventor
Contact Name: C.H. MOORE, JR.
Telephone: 9163715211
Owner Name: PETROLEUM TANK LINE
Owner Address: 2600 RICE AVENUE
Owner City,St,Zip: WEST SACRAMENTO, CA 95691

Region: STATE
Facility ID: 00000004230
Tank Num: 004
Container Num: 2
Year Installed: 1978
Tank Capacity: 00010000
Facility Type: Other
Other Type: Not reported
Total Tanks: 0005
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor
Contact Name: C.H. MOORE, JR.
Telephone: 9163715211
Owner Name: PETROLEUM TANK LINE
Owner Address: 2600 RICE AVENUE
Owner City,St,Zip: WEST SACRAMENTO, CA 95691

Region: STATE
Facility ID: 00000004230
Tank Num: 005
Container Num: 1
Year Installed: 1974
Tank Capacity: 00010000
Facility Type: Other
Other Type: Not reported
Total Tanks: 0005
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Tank Construction: Not reported
Leak Detection: Stock Inventor
Contact Name: C.H. MOORE, JR.
Telephone: 9163715211
Owner Name: PETROLEUM TANK LINE
Owner Address: 2600 RICE AVENUE
Owner City,St,Zip: WEST SACRAMENTO, CA 95691

ENVIROSTOR:

Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

PETROLEUM TANK LINE (Continued)

EDR ID Number
EPA ID Number

Database(s)

1000367266

NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Central California
Envirostor ID: 57420001
Site Code: Not reported
Assembly: 08
Senate: 05
Special Program: Not reported
Status: **Refer: RWQCB**
Status Date: 1995-05-15 00:00:00
Restricted Use: NO
Funding: Not reported
Latitude: 38.5863888888889
Longitude: -121.5425

CA ENVIROSTOR ALIAS:

Alias Type: Calsites ID Number
Alias Project Name: 57420001

CA ENVIROSTOR COMPLETE:

Area Name: PROJECT WIDE
Sub Area Name: Not reported
Document Type: Site Screening
Completed Date: 1987-02-05 00:00:00
Comments: SITE SCREENING DONE. NO CLEANUP DOCUMENTED.

Area Name: PROJECT WIDE
Sub Area Name: Not reported
Document Type: Discovery
Completed Date: 1982-03-26 00:00:00
Comments: FACILITY IDENTIFIED: NOTED ON DRIVE BY - ACTIVE SITE. PETROLEUM WASTE & SPILLS ON GROUND FINAL STRATEGY SITE REFERRED: TO HAZARDOUS WASTE MANAGEMENT BRANCH, COUNTY HEALTH, AND REGIONAL WATER QUALITY CONTROL BOARD.

CA ENVIROSTOR FUTURE:

Area Name: Not reported
Sub Area Name: Not reported
Document Type: Not reported
Due Date: Not reported

CA ENVIROSTOR SCHEDULE:

Area Name: Not reported
Sub Area Name: Not reported
Document Type: Not reported
Due Date: Not reported
Revised Date: Not reported

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

MAP FINDINGS

B O R INDUSTRIES, INC (Continued)

EDR ID Number
 EPA ID Number

Database(s)

S100351744

CA ENVIROSTOR COMPLETE:

Area Name: PROJECT WIDE
 Sub Area Name: Not reported
 Document Type: Site Screening
 Completed Date: 1995-09-26 00:00:00
 Comments: Site Screening completed. A 1986 PA recommended soil sampling at drum storage sites on the property. During a March 1984 inspection, the Dept. of Health Services observed one hundred drums, some of which were leaking and in very poor condition. B O R w

Area Name: PROJECT WIDE
 Sub Area Name: Not reported
 Document Type: Site Screening
 Completed Date: 1987-02-10 00:00:00
 Comments: SITE SCREENING DONE

CA ENVIROSTOR FUTURE:

Area Name: Not reported
 Sub Area Name: Not reported
 Document Type: Not reported
 Due Date: Not reported

CA ENVIROSTOR SCHEDULE:

Area Name: Not reported
 Sub Area Name: Not reported
 Document Type: Not reported
 Due Date: Not reported
 Revised Date: Not reported

15
South
1/2-1
4516 ft.

TOM'S HOUSE OF HYDRAULICS INC
2904 DULUTH ST
WEST SACRAMENTO, CA 95691

HAZNET **S100351742**
ENVIROSTOR **N/A**

Relative:
Higher

HAZNET:
 Gepaid: CAL000091261
 Contact: TOM'S HOUSE OF HYDRAULICS INC
 Telephone: 9163729692
 Facility Addr2: Not reported
 Mailing Name: Not reported
 Mailing Address: 2904 DULUTH ST
 Mailing City,St,Zip: WEST SACRAMENTO, CA 956910000
 Gen County: Yolo
 TSD EPA ID: CAT080011059
 TSD County: Los Angeles
 Waste Category: Off-specification, aged, or surplus organics
 Disposal Method: Not reported
 Tons: .1000
 Facility County: Yolo

Actual:
23 ft.

Gepaid: CAL000091261
 Contact: TOM'S HOUSE OF HYDRAULICS INC
 Telephone: 9163729692
 Facility Addr2: Not reported
 Mailing Name: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation Site

MAP FINDINGS

Database(s) EDR ID Number
EPA ID Number

TOM'S HOUSE OF HYDRAULICS INC (Continued)

S100351742

Mailing Address: 2904 DULUTH ST
Mailing City,St,Zip: WEST SACRAMENTO, CA 956910000
Gen County: Yolo
TSD EPA ID: CAT080011059
TSD County: Los Angeles
Waste Category: Unspecified solvent mixture Waste
Disposal Method: Not reported
Tons: .6880
Facility County: Yolo

ENVIROSTOR:

Site Type: Historical
Site Type Detailed: * Historical
Acres: Not reported
NPL: NO
Regulatory Agencies: NONE SPECIFIED
Lead Agency: NONE SPECIFIED
Program Manager: Not reported
Supervisor: Not reported
Division Branch: Central California
Envirostor ID: 57350002
Site Code: Not reported
Assembly: 08
Senate: 05
Special Program: Not reported
Status: Refer: Other Agency
Status Date: 1994-11-16 00:00:00
Restricted Use: NO
Funding: Not reported
Latitude: 38.5852777777778
Longitude: -121.5475

CA ENVIROSTOR ALIAS:

Alias Type: Calsites ID Number
Alias Project Name: 57350002

CA ENVIROSTOR COMPLETE:

Area Name: Not reported
Sub Area Name: Not reported
Document Type: Not reported
Completed Date: Not reported
Comments: Not reported

CA ENVIROSTOR FUTURE:

Area Name: Not reported
Sub Area Name: Not reported
Document Type: Not reported
Due Date: Not reported

CA ENVIROSTOR SCHEDULE:

Area Name: Not reported
Sub Area Name: Not reported
Document Type: Not reported
Due Date: Not reported
Revised Date: Not reported

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

16
South
1/2-1
4693 ft.

JAR BUILDING - GERLINGER MOTOR PARTS
3020 / 3040 DULUTH STREET
WEST SACRAMENTO, CA 95691

ENVIROSTOR

S100183668
N/A

Relative:
Higher

ENVIROSTOR:

Actual:
19 ft.

Site Type: Historical
 Site Type Detailed: * Historical
 Acres: Not reported
 NPL: NO
 Regulatory Agencies: NONE SPECIFIED
 Lead Agency: NONE SPECIFIED
 Program Manager: Not reported
 Supervisor: Not reported
 Division Branch: Central California
 Envirostor ID: 57370001
 Site Code: Not reported
 Assembly: Not reported
 Senate: Not reported
 Special Program: Not reported
Status: Refer: RWQCB
 Status Date: 1987-01-29 00:00:00
 Restricted Use: NO
 Funding: Not reported
 Latitude: 0
 Longitude: 0

CA ENVIROSTOR ALIAS:

Alias Type: Calsites ID Number
 Alias Project Name: 57370001

 Alias Type: Alternate Name
 Alias Project Name: GERLINGER MOTOR PARTS

CA ENVIROSTOR COMPLETE:

Area Name: PROJECT WIDE
 Sub Area Name: Not reported
 Document Type: Site Screening
 Completed Date: 1987-01-29 00:00:00
 Comments: SITE SCREENING DONE. NO INFORMATION IN FILE.

Area Name: PROJECT WIDE
 Sub Area Name: Not reported
 Document Type: Discovery
 Completed Date: 1982-03-26 00:00:00
 Comments: FACILITY IDENTIFIED: OBSERVED ON DRIVE BYS - ACTIVE SITE. SLUDGES, LIQUIDS DISCHARGED TO STORM CANAL. FINAL STRATEGY REFERRED TO HAZARDOUS WASTE MANAGEMENT BRANCH, COUNTY HEALTH AND THE REGIONAL WATER QUALITY CONTROL BOARD.

CA ENVIROSTOR FUTURE:

Area Name: Not reported
 Sub Area Name: Not reported
 Document Type: Not reported
 Due Date: Not reported

CA ENVIROSTOR SCHEDULE:

Area Name: Not reported
 Sub Area Name: Not reported

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

JAR BUILDING - GERLINGER MOTOR PARTS (Continued)

S100183668

Document Type: Not reported
Due Date: Not reported
Revised Date: Not reported

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
SACRAMENTO	S104795737	SACRAMENTO CITY WELL #159	E BOWMAN AVE/SUMP 102	95833	Sacramento Co. ML
WEST SACRAMENTO	S100204298	RIVERPOINT BUSINESS PARK	BETWN I-80, REED AVE, HARBOR BLVD.	95691	ENVIROSTOR
WEST SACRAMENTO	S101482956	SOUTHERN PACIFIC RIVERPOINT PROPERTY	BETWN I-80, HARBOR BLVD., / RR TRACKS	95691	ENVIROSTOR
WEST SACRAMENTO	99624578	DEEP WATER OF CHANNEL SACRAMENTO RIVER, END OF WEST CAPITOL	DEEP WATER OF CHANNEL SACRAMENTO RIVER, END OF WEST CAPITOL		ERNS
WEST SACRAMENTO	1009311588	WEST SACRAMENTO DRAINAGE DITCH	EASEMENT AT END OF PARCELS ALONG MAPLE	95691	US BROWNFIELDS
WEST SACRAMENTO	1009311589	WEST SACRAMENTO LIBRARY	1212 MERKLEY AVENUE (OR 1271 WEST CAPITOL AVENUE)	95691	US BROWNFIELDS
WEST SACRAMENTO	S103995444	WEST SACRAMENTO SUB-STATION	OAK ST / S OF REED ST	95605	HAZNET
WEST SACRAMENTO	90167238	RAILROAD M.P. 85/W. OF WEST SACRAMENTO	RAILROAD M.P. 85/W. OF WEST SACRAMENTO		ERNS
WEST SACRAMENTO	90190791	CO RD 126 1/4 MI W OF OLD RIVER RD	CO RD 126 1/4 MI W OF OLD RIVER RD		ERNS
WEST SACRAMENTO	2005626355	1570 SOUTH RIVER ROAD	1570 SOUTH RIVER ROAD		ERNS
WEST SACRAMENTO	98461728	SACRAMENTO RIVER NEAR DAVIS AND SOUT RIVER ROADS	SACRAMENTO RIVER NEAR DAVIS AND SOUT RIVER ROADS		ERNS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 62.5
RIVERMILE 62.5
WEST SACRAMENTO, CA 95605

TARGET PROPERTY COORDINATES

Latitude (North):	38.59740 - 38° 35' 50.6"
Longitude (West):	121.5478 - 121° 32' 52.1"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	626464.3
UTM Y (Meters):	4272894.0
Elevation:	0 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38121-E5 SACRAMENTO WEST, CA
Most Recent Revision:	1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

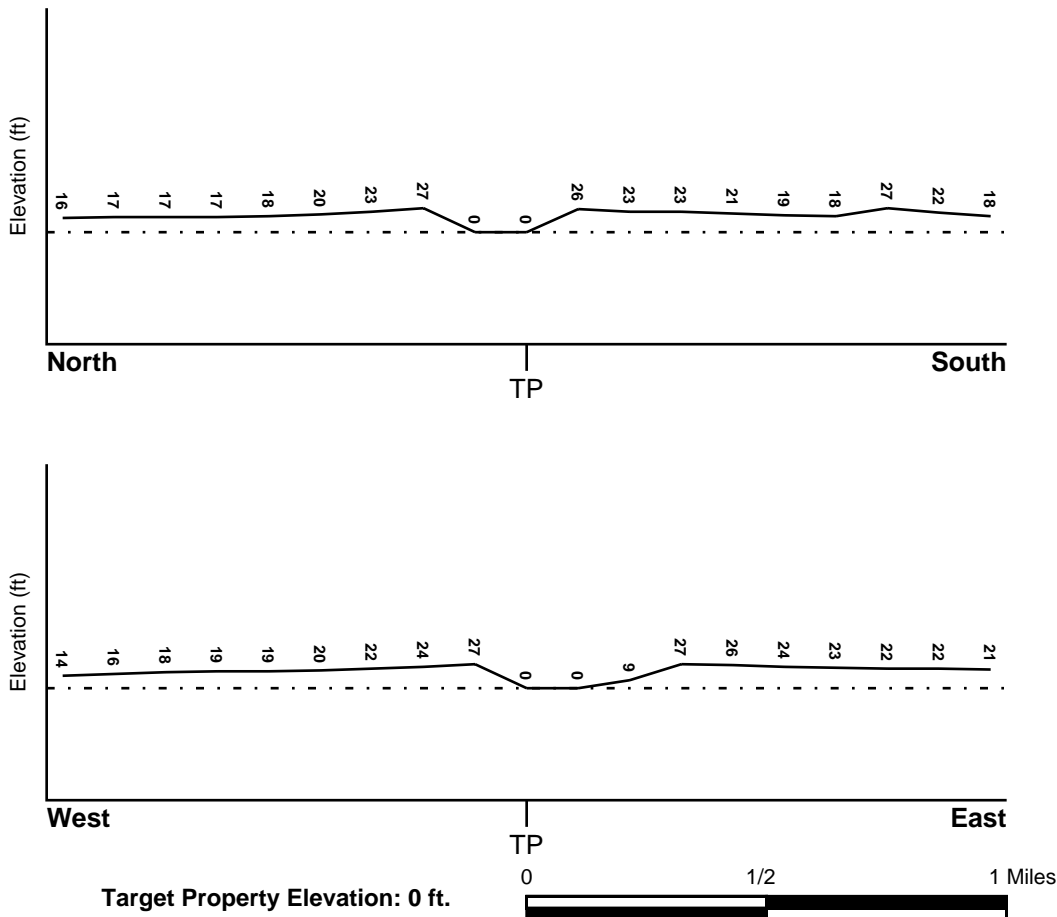
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General ESE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u>	FEMA Flood <u>Electronic Data</u>
YOLO, CA	YES - refer to the Overview Map and Detail Map

Flood Plain Panel at Target Property: 0607280005B

Additional Panels in search area: 0604230605D
0604230610D
0602620160E
0602660020E

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u>	NWI Electronic <u>Data Coverage</u>
SACRAMENTO WEST	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION</u> <u>FROM TP</u>	<u>GENERAL DIRECTION</u> <u>GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

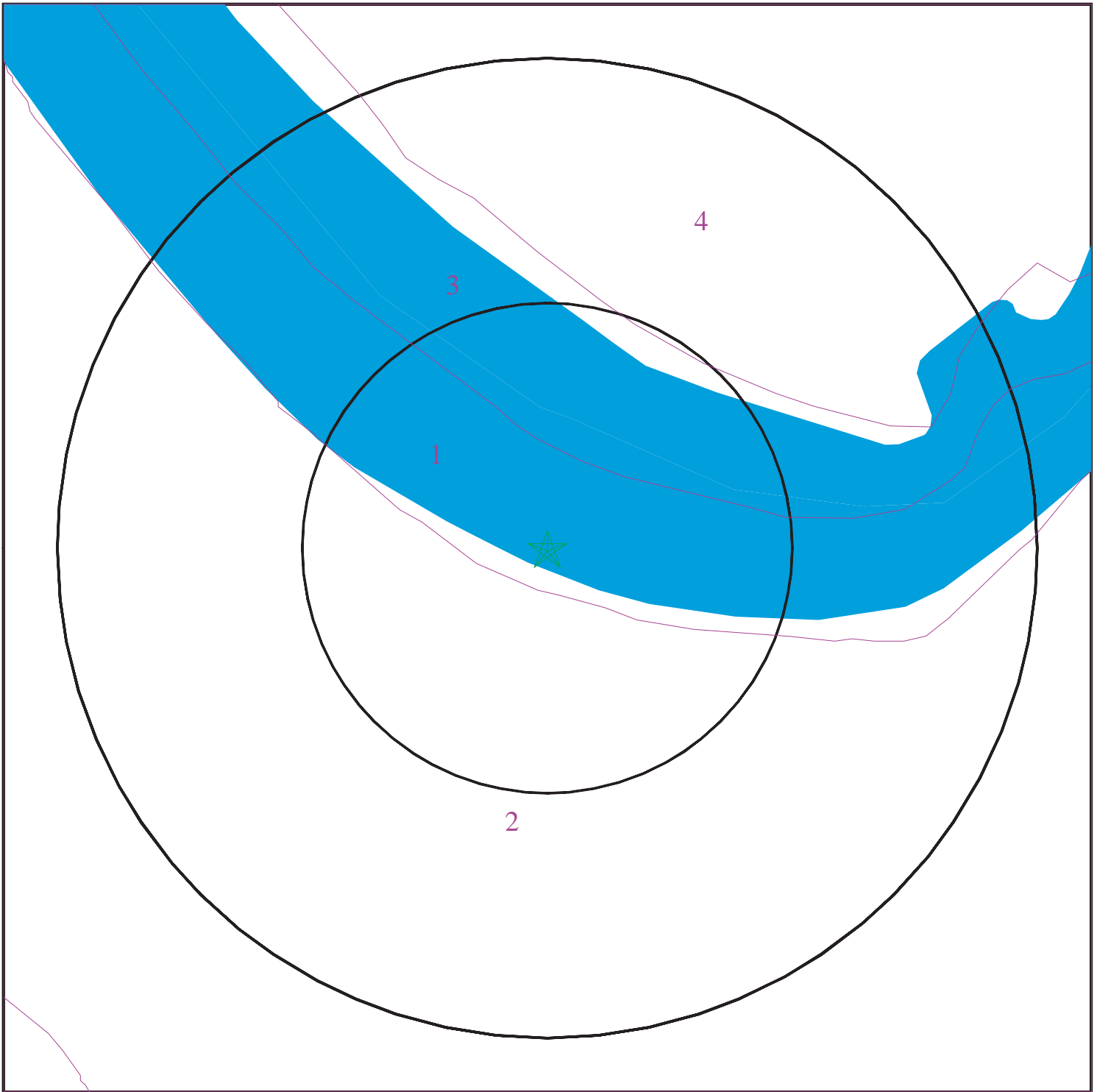
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790938.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sacramento River RiverMile 62.5
ADDRESS: RiverMile 62.5
WEST SACRAMENTO CA 95605
LAT/LONG: 38.5974 / 121.5478

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790938.2s
DATE: November 07, 2006 10:48 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER
Soil Surface Texture: Not reported
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: SYCAMORE
Soil Surface Texture: silt loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	14 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

Soil Map ID: 3

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: SAILBOAT

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
5	USGS3225450	1/4 - 1/2 Mile NNW
6	USGS3225460	1/4 - 1/2 Mile NNW
7	USGS3225477	1/2 - 1 Mile NE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

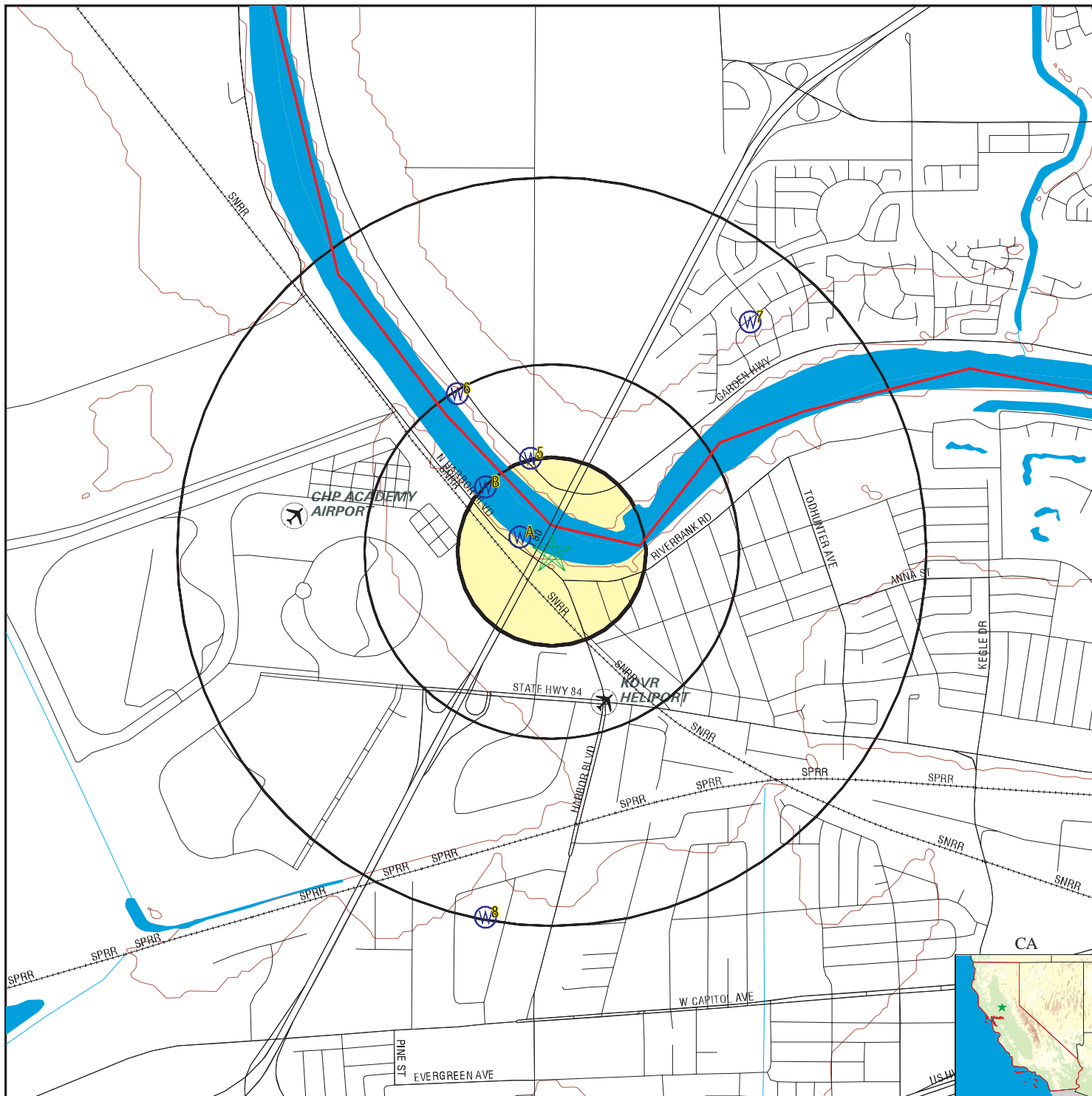
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
A1	23907	0 - 1/8 Mile WNW
A2	23906	0 - 1/8 Mile WNW
B3	8967	1/8 - 1/4 Mile NW
B4	8962	1/8 - 1/4 Mile NW
8	8969	1/2 - 1 Mile South

PHYSICAL SETTING SOURCE MAP - 1790938.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME: Sacramento River RiverMile 62.5
 ADDRESS: RiverMile 62.5
 WEST SACRAMENTO CA 95605
 LAT/LONG: 38.5974 / 121.5478

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790938.2s
 DATE: November 07, 2006 10:47 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

A1
WNW
0 - 1/8 Mile
Higher

CA WELLS 23907

Water System Information:

Prime Station Code:	R57/003-RIVER T	User ID:	TEN
FRDS Number:	5710003002	County:	Yolo
District Number:	09	Station Type:	RIVER/AMBNT/MUN/INTAKE
Water Type:	Surface Water	Well Status:	Active Treated
Source Lat/Long:	383553.0 1213254.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	SACRAMENTO RIVER - TREATED		
System Number:	5710003		
System Name:	West Sacramento, City of		
Organization That Operates System:	1951 S. RIVER RD. WEST SACRAMENTO, CA 95691		
Pop Served:	45000	Connections:	7655
Area Served:	WEST SACRAMENTO		
Sample Collected:	05/07/2003 00:00:00	Findings:	.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/14/2003 00:00:00	Findings:	3.3 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	05/14/2003 00:00:00	Findings:	22 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	05/14/2003 00:00:00	Findings:	25.3 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	05/14/2003 00:00:00	Findings:	11 UG/L
Chemical:	TRICHLOROACETIC ACID (TCAA)		
Sample Collected:	05/14/2003 00:00:00	Findings:	2.1 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	05/14/2003 00:00:00	Findings:	15 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	05/14/2003 00:00:00	Findings:	2.3 UG/L
Chemical:	DICHLOROACETIC ACID (DCAA)		
Sample Collected:	05/14/2003 00:00:00	Findings:	17.1 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	05/14/2003 00:00:00	Findings:	9.6 UG/L
Chemical:	TRICHLOROACETIC ACID (TCAA)		
Sample Collected:	05/14/2003 00:00:00	Findings:	.6 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	05/14/2003 00:00:00	Findings:	7.9 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	05/14/2003 00:00:00	Findings:	3.8 UG/L
Chemical:	DICHLOROACETIC ACID (DCAA)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	05/14/2003 00:00:00	Findings:	8.5 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	05/14/2003 00:00:00	Findings:	6.8 UG/L
Chemical:	TRICHLOROACETIC ACID (TCAA)		
Sample Collected:	05/14/2003 00:00:00	Findings:	2.3 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	05/14/2003 00:00:00	Findings:	15 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	05/14/2003 00:00:00	Findings:	1.8 UG/L
Chemical:	DICHLOROACETIC ACID (DCAA)		
Sample Collected:	05/14/2003 00:00:00	Findings:	17.3 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	05/14/2003 00:00:00	Findings:	12 UG/L
Chemical:	TRICHLOROACETIC ACID (TCAA)		
Sample Collected:	06/03/2003 00:00:00	Findings:	.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/09/2003 00:00:00	Findings:	.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/30/2003 00:00:00	Findings:	140 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/07/2003 00:00:00	Findings:	1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/25/2003 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09/09/2003 00:00:00	Findings:	1.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/07/2003 00:00:00	Findings:	146 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/07/2003 00:00:00	Findings:	60 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	10/07/2003 00:00:00	Findings:	70 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/07/2003 00:00:00	Findings:	58.7 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	10/07/2003 00:00:00	Findings:	12 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	7 MG/L
Chemical:	SODIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	5 MG/L
Chemical:	CHLORIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/07/2003 00:00:00	Findings:	.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10/07/2003 00:00:00	Findings:	80 UG/L
Chemical:	ALUMINUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	2 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	10/07/2003 00:00:00	Findings:	8.8 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	03/17/1999 00:00:00	Findings:	.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/17/1999 00:00:00	Findings:	13 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	03/17/1999 00:00:00	Findings:	.8 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	03/17/1999 00:00:00	Findings:	140 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/17/1999 00:00:00	Findings:	6.9
Chemical:	PH, LABORATORY		
Sample Collected:	03/17/1999 00:00:00	Findings:	43 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	03/17/1999 00:00:00	Findings:	52 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/17/1999 00:00:00	Findings:	61 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03/17/1999 00:00:00	Findings:	13 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/17/1999 00:00:00	Findings:	7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/17/1999 00:00:00	Findings:	7.7 MG/L
Chemical:	SODIUM		
Sample Collected:	03/17/1999 00:00:00	Findings:	1.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/17/1999 00:00:00	Findings:	4.5 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/17/1999 00:00:00	Findings:	2.3 UG/L
Chemical:	ARSENIC		
Sample Collected:	03/17/1999 00:00:00	Findings:	79 UG/L
Chemical:	ZINC		
Sample Collected:	03/17/1999 00:00:00	Findings:	1 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	03/17/1999 00:00:00	Findings:	4.3 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	10/07/2003 00:00:00	Findings:	100 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/07/2003 00:00:00	Findings:	- .9
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	10/07/2003 00:00:00	Findings:	.7 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10/07/2003 00:00:00	Findings:	10.8 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	10/07/2003 00:00:00	Findings:	10.9
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/14/2003 00:00:00	Findings:	1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/05/2003 00:00:00	Findings:	1.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/10/2003 00:00:00	Findings:	2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/14/2004 00:00:00	Findings:	1.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/03/2004 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/03/2004 00:00:00	Findings:	1.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/07/2004 00:00:00	Findings:	.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/07/2004 00:00:00	Findings:	.476 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	05/10/2004 00:00:00	Findings:	.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/02/2004 00:00:00	Findings:	.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/07/2004 00:00:00	Findings:	.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/04/2004 00:00:00	Findings:	.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/18/2004 00:00:00	Findings:	6 UNITS
Chemical:	COLOR		
Sample Collected:	08/18/2004 00:00:00	Findings:	178 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/18/2004 00:00:00	Findings:	6.9
Chemical:	PH, LABORATORY		
Sample Collected:	08/18/2004 00:00:00	Findings:	60 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	08/18/2004 00:00:00	Findings:	80 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/18/2004 00:00:00	Findings:	61.2 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/18/2004 00:00:00	Findings:	13 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	11 MG/L
Chemical:	SODIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	6 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/18/2004 00:00:00	Findings:	.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	03/17/1999 00:00:00	Findings:	100 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/17/1999 00:00:00	Findings:	5.3 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	03/17/1999 00:00:00	Findings:	.5 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/17/1999 00:00:00	Findings:	13 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	03/17/1999 00:00:00	Findings:	.8 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	03/17/1999 00:00:00	Findings:	3.8 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	03/17/1999 00:00:00	Findings:	19 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	03/17/1999 00:00:00	Findings:	23 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	09/21/1999 00:00:00	Findings:	180 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/21/1999 00:00:00	Findings:	7.4
Chemical:	PH, LABORATORY		
Sample Collected:	09/21/1999 00:00:00	Findings:	58 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	09/21/1999 00:00:00	Findings:	71 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/18/2004 00:00:00	Findings:	100 UG/L
Chemical:	ZINC		
Sample Collected:	08/18/2004 00:00:00	Findings:	80 UG/L
Chemical:	ALUMINUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	3.1 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	08/18/2004 00:00:00	Findings:	.8 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/18/2004 00:00:00	Findings:	7.4 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	08/18/2004 00:00:00	Findings:	100 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/18/2004 00:00:00	Findings:	- 1.6
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	08/18/2004 00:00:00	Findings:	11.3 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	08/18/2004 00:00:00	Findings:	10.2
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	09/01/2004 00:00:00	Findings:	1.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09/22/2004 00:00:00	Findings:	1.4 UG/L
Chemical:	CHROMIUM, HEXAVALENT		
Sample Collected:	10/06/2004 00:00:00	Findings:	.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/03/2004 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/01/2004 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/05/2005 00:00:00	Findings:	1.39 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/02/2005 00:00:00	Findings:	1.09 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/02/2005 00:00:00	Findings:	1.22 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/04/2005 00:00:00	Findings:	1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/11/2005 00:00:00	Findings:	1.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/01/2005 00:00:00	Findings:	.94 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/06/2005 00:00:00	Findings:	1.02 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/06/2005 00:00:00	Findings:	180 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/06/2005 00:00:00	Findings:	7.7
Chemical:	PH, LABORATORY		
Sample Collected:	07/06/2005 00:00:00	Findings:	70 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	07/06/2005 00:00:00	Findings:	80 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/06/2005 00:00:00	Findings:	54.6 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/06/2005 00:00:00	Findings:	12 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	6 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	14 MG/L
Chemical:	SODIUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/21/1999 00:00:00	Findings:	68 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	09/21/1999 00:00:00	Findings:	13 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/21/1999 00:00:00	Findings:	8.5 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/21/1999 00:00:00	Findings:	12 MG/L
Chemical:	SODIUM		
Sample Collected:	09/21/1999 00:00:00	Findings:	1.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/21/1999 00:00:00	Findings:	6.9 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/21/1999 00:00:00	Findings:	65 UG/L
Chemical:	ZINC		
Sample Collected:	09/21/1999 00:00:00	Findings:	59 UG/L
Chemical:	ALUMINUM		
Sample Collected:	09/21/1999 00:00:00	Findings:	3 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	09/21/1999 00:00:00	Findings:	30 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	09/21/1999 00:00:00	Findings:	120 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/06/2005 00:00:00	Findings:	4 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/06/2005 00:00:00	Findings:	90 UG/L
Chemical:	MANGANESE		
Sample Collected:	07/06/2005 00:00:00	Findings:	4 UG/L
Chemical:	VANADIUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	130 UG/L
Chemical:	ALUMINUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	100 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/06/2005 00:00:00	Findings:	-.8
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	07/06/2005 00:00:00	Findings:	1.1 NTU
Chemical:	TURBIDITY, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/06/2005 00:00:00	Findings:	11
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	07/13/2005 00:00:00	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	07/13/2005 00:00:00	Findings:	56.9 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	07/13/2005 00:00:00	Findings:	69.1 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/13/2005 00:00:00	Findings:	13 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/13/2005 00:00:00	Findings:	- .29
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/03/2005 00:00:00	Findings:	1.06 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/25/2005 00:00:00	Findings:	.4 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09/07/2005 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/06/2005 00:00:00	Findings:	1.04 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/02/2005 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/07/2005 00:00:00	Findings:	2.01 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/15/2005 00:00:00	Findings:	14 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/15/2005 00:00:00	Findings:	8.6 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	01/04/2006 00:00:00	Findings:	1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/01/2006 00:00:00	Findings:	.97 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/08/2006 00:00:00	Findings:	1.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/05/2006 00:00:00	Findings:	1.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09/21/1999 00:00:00	Findings:	33 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	09/21/1999 00:00:00	Findings:	1.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	09/21/1999 00:00:00	Findings:	13.1 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	09/21/1999 00:00:00	Findings:	1.3 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/29/1999 00:00:00	Findings:	190 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/29/1999 00:00:00	Findings:	7
Chemical:	PH, LABORATORY		
Sample Collected:	11/29/1999 00:00:00	Findings:	59 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	11/29/1999 00:00:00	Findings:	72 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	11/29/1999 00:00:00	Findings:	76 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	11/29/1999 00:00:00	Findings:	15 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/29/1999 00:00:00	Findings:	9.3 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/29/1999 00:00:00	Findings:	12 MG/L
Chemical:	SODIUM		
Sample Collected:	11/29/1999 00:00:00	Findings:	2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/29/1999 00:00:00	Findings:	8.1 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/29/1999 00:00:00	Findings:	130 UG/L
Chemical:	ZINC		
Sample Collected:	11/29/1999 00:00:00	Findings:	2 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	11/29/1999 00:00:00	Findings:	9.5 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	11/29/1999 00:00:00	Findings:	120 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/29/1999 00:00:00	Findings:	12 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	11/29/1999 00:00:00	Findings:	1.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	11/29/1999 00:00:00	Findings:	12.6 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	11/29/1999 00:00:00	Findings:	1.3 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	03/06/2000 00:00:00	Findings:	140 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/06/2000 00:00:00	Findings:	7
Chemical:	PH, LABORATORY		
Sample Collected:	03/06/2000 00:00:00	Findings:	43 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	03/06/2000 00:00:00	Findings:	52 MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/06/2000 00:00:00	Findings:	62 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03/06/2000 00:00:00	Findings:	14 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/06/2000 00:00:00	Findings:	7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/06/2000 00:00:00	Findings:	7 MG/L
Chemical:	SODIUM		
Sample Collected:	03/06/2000 00:00:00	Findings:	1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/06/2000 00:00:00	Findings:	6 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/06/2000 00:00:00	Findings:	1 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	03/06/2000 00:00:00	Findings:	11 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	03/06/2000 00:00:00	Findings:	93 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/06/2000 00:00:00	Findings:	12 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	03/06/2000 00:00:00	Findings:	1 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	03/06/2000 00:00:00	Findings:	11 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	03/06/2000 00:00:00	Findings:	1 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	03/06/2000 00:00:00	Findings:	2 UG/L
Chemical:	DICHLOROACETIC ACID (DCAA)		
Sample Collected:	03/06/2000 00:00:00	Findings:	7 UG/L
Chemical:	TRICHLOROACETIC ACID (TCAA)		
Sample Collected:	03/06/2000 00:00:00	Findings:	2 UG/L
Chemical:	MONOBROMOACETIC ACID (MBAA)		
Sample Collected:	06/28/2000 00:00:00	Findings:	150 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	06/28/2000 00:00:00	Findings:	7.3
Chemical:	PH, LABORATORY		
Sample Collected:	06/28/2000 00:00:00	Findings:	45 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	06/28/2000 00:00:00	Findings:	55 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	06/28/2000 00:00:00	Findings:	51 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	06/28/2000 00:00:00	Findings:	11 MG/L
Chemical:	CALCIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	06/28/2000 00:00:00	Findings:	5.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	06/28/2000 00:00:00	Findings:	10 MG/L
Chemical:	SODIUM		
Sample Collected:	06/28/2000 00:00:00	Findings:	1.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	06/28/2000 00:00:00	Findings:	5.7 MG/L
Chemical:	CHLORIDE		
Sample Collected:	06/28/2000 00:00:00	Findings:	210 UG/L
Chemical:	ZINC		
Sample Collected:	06/28/2000 00:00:00	Findings:	2.4 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	06/28/2000 00:00:00	Findings:	1.1 UG/L
Chemical:	BROMOFORM (THM)		
Sample Collected:	06/28/2000 00:00:00	Findings:	.68 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	06/28/2000 00:00:00	Findings:	9.1 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	06/28/2000 00:00:00	Findings:	100 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	06/28/2000 00:00:00	Findings:	13 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	06/28/2000 00:00:00	Findings:	.2 PCI/L
Chemical:	GROSS ALPHA COUNTING ERROR		
Sample Collected:	06/28/2000 00:00:00	Findings:	29.3 PCI/L
Chemical:	GROSS BETA		
Sample Collected:	06/28/2000 00:00:00	Findings:	3.2 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	06/28/2000 00:00:00	Findings:	3.8 UG/L
Chemical:	DICHLOROACETIC ACID (DCAA)		
Sample Collected:	06/28/2000 00:00:00	Findings:	3.9 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	06/28/2000 00:00:00	Findings:	23 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	06/28/2000 00:00:00	Findings:	27 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	09/26/2000 00:00:00	Findings:	4 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	09/26/2000 00:00:00	Findings:	150 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	09/26/2000 00:00:00	Findings:	7.4
Chemical:	PH, LABORATORY		
Sample Collected:	09/26/2000 00:00:00	Findings:	53 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/26/2000 00:00:00	Findings:	64.6 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	09/26/2000 00:00:00	Findings:	57.5 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	09/26/2000 00:00:00	Findings:	12 MG/L
Chemical:	CALCIUM		
Sample Collected:	09/26/2000 00:00:00	Findings:	6.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	09/26/2000 00:00:00	Findings:	8.8 MG/L
Chemical:	SODIUM		
Sample Collected:	09/26/2000 00:00:00	Findings:	1.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	09/26/2000 00:00:00	Findings:	6.16 MG/L
Chemical:	CHLORIDE		
Sample Collected:	09/26/2000 00:00:00	Findings:	3.3 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	09/26/2000 00:00:00	Findings:	9.2 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	09/26/2000 00:00:00	Findings:	- 1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	09/26/2000 00:00:00	Findings:	13 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	12/14/2000 00:00:00	Findings:	74.4 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	12/14/2000 00:00:00	Findings:	15 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/14/2000 00:00:00	Findings:	9 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/14/2000 00:00:00	Findings:	13 MG/L
Chemical:	SODIUM		
Sample Collected:	12/14/2000 00:00:00	Findings:	1.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	12/14/2000 00:00:00	Findings:	2.3 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	12/14/2000 00:00:00	Findings:	5.8 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	12/14/2000 00:00:00	Findings:	8.1 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	03/26/2001 00:00:00	Findings:	4 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	03/26/2001 00:00:00	Findings:	176 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/26/2001 00:00:00	Findings:	7.2
Chemical:	PH, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/26/2001 00:00:00	Findings:	62 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	03/26/2001 00:00:00	Findings:	75.6 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/26/2001 00:00:00	Findings:	71.2 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03/26/2001 00:00:00	Findings:	15 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/26/2001 00:00:00	Findings:	8.2 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/26/2001 00:00:00	Findings:	9.7 MG/L
Chemical:	SODIUM		
Sample Collected:	03/26/2001 00:00:00	Findings:	1.5 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/26/2001 00:00:00	Findings:	7 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/26/2001 00:00:00	Findings:	.854 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	03/26/2001 00:00:00	Findings:	4.1 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	03/26/2001 00:00:00	Findings:	.6 UG/L
Chemical:	DIBROMOCHLOROMETHANE (THM)		
Sample Collected:	03/26/2001 00:00:00	Findings:	11 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	03/26/2001 00:00:00	Findings:	120 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/26/2001 00:00:00	Findings:	- 1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03/26/2001 00:00:00	Findings:	.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03/26/2001 00:00:00	Findings:	15.7 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	11/08/2001 00:00:00	Findings:	3 UNITS
Chemical:	COLOR		
Sample Collected:	11/08/2001 00:00:00	Findings:	3 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	11/08/2001 00:00:00	Findings:	205 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	11/08/2001 00:00:00	Findings:	7.1
Chemical:	PH, LABORATORY		
Sample Collected:	11/08/2001 00:00:00	Findings:	72 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	11/08/2001 00:00:00	Findings:	87.8 MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	11/08/2001 00:00:00	Findings:	79.4 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	11/08/2001 00:00:00	Findings:	16 MG/L
Chemical:	CALCIUM		
Sample Collected:	11/08/2001 00:00:00	Findings:	9.6 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	11/08/2001 00:00:00	Findings:	15 MG/L
Chemical:	SODIUM		
Sample Collected:	11/08/2001 00:00:00	Findings:	2.7 MG/L
Chemical:	POTASSIUM		
Sample Collected:	11/08/2001 00:00:00	Findings:	8.9 MG/L
Chemical:	CHLORIDE		
Sample Collected:	11/08/2001 00:00:00	Findings:	3.2 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	11/08/2001 00:00:00	Findings:	13 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	11/08/2001 00:00:00	Findings:	150 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	11/08/2001 00:00:00	Findings:	- 1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	11/08/2001 00:00:00	Findings:	.3 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	11/08/2001 00:00:00	Findings:	16.2 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	03/04/2002 00:00:00	Findings:	5 UNITS
Chemical:	COLOR		
Sample Collected:	03/04/2002 00:00:00	Findings:	3 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	03/04/2002 00:00:00	Findings:	167 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/04/2002 00:00:00	Findings:	7.3
Chemical:	PH, LABORATORY		
Sample Collected:	03/04/2002 00:00:00	Findings:	57 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	03/04/2002 00:00:00	Findings:	69.5 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	03/04/2002 00:00:00	Findings:	65 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03/04/2002 00:00:00	Findings:	14 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/04/2002 00:00:00	Findings:	7.3 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/04/2002 00:00:00	Findings:	8.8 MG/L
Chemical:	SODIUM		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/04/2002 00:00:00	Findings:	1.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/04/2002 00:00:00	Findings:	6.7 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/04/2002 00:00:00	Findings:	2.8 UG/L
Chemical:	BROMODICHLORMETHANE (THM)		
Sample Collected:	03/04/2002 00:00:00	Findings:	8.3 UG/L
Chemical:	CHLOROFORM (THM)		
Sample Collected:	03/04/2002 00:00:00	Findings:	120 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/04/2002 00:00:00	Findings:	- 1
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03/04/2002 00:00:00	Findings:	.7 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	03/04/2002 00:00:00	Findings:	11 UG/L
Chemical:	TOTAL TRIHALOMETHANES		
Sample Collected:	04/08/2002 00:00:00	Findings:	1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/07/2002 00:00:00	Findings:	1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/11/2002 00:00:00	Findings:	1.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/09/2002 00:00:00	Findings:	.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/07/2002 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/14/2002 00:00:00	Findings:	.6 PCI/L
Chemical:	GROSS BETA COUNTING ERROR		
Sample Collected:	08/15/2002 00:00:00	Findings:	3 UNITS
Chemical:	COLOR		
Sample Collected:	08/15/2002 00:00:00	Findings:	4 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	08/15/2002 00:00:00	Findings:	171 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/15/2002 00:00:00	Findings:	7.9
Chemical:	PH, LABORATORY		
Sample Collected:	08/15/2002 00:00:00	Findings:	64 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	08/15/2002 00:00:00	Findings:	77.9 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/15/2002 00:00:00	Findings:	.402 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/15/2002 00:00:00	Findings:	63.3 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/15/2002 00:00:00	Findings:	13 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	7.5 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	12 MG/L
Chemical:	SODIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	1.1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	7.6 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/15/2002 00:00:00	Findings:	69 UG/L
Chemical:	ALUMINUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	110 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/15/2002 00:00:00	Findings:	- .5
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/15/2002 00:00:00	Findings:	.01 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	08/15/2002 00:00:00	Findings:	1960 UG/L
Chemical:	CARBON DIOXIDE		
Sample Collected:	08/15/2002 00:00:00	Findings:	.1 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09/03/2002 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/03/2002 00:00:00	Findings:	1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/22/2002 00:00:00	Findings:	170 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	12/03/2002 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/19/2002 00:00:00	Findings:	2.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/08/2003 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/28/2003 00:00:00	Findings:	150 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	02/05/2003 00:00:00	Findings:	1.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/20/2003 00:00:00	Findings:	4 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	03/05/2003 00:00:00	Findings:	1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/01/2003 00:00:00	Findings:	4 TON
Chemical:	ODOR THRESHOLD @ 60 C		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/01/2003 00:00:00	Findings:	.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/23/2003 00:00:00	Findings:	170 US
Chemical:	SPECIFIC CONDUCTANCE		

A2
WNW
0 - 1/8 Mile
Higher

CA WELLS 23906

Water System Information:

Prime Station Code:	R57/003-RIVER R	User ID:	TEN
FRDS Number:	5710003001	County:	Yolo
District Number:	09	Station Type:	RIVER/AMBNT/MUN/INTAKE
Water Type:	Surface Water	Well Status:	Active Raw
Source Lat/Long:	383553.0 1213254.0	Precision:	1,000 Feet (10 Seconds)
Source Name:	SACRAMENTO RIVER - RAW		
System Number:	5710003		
System Name:	West Sacramento, City of		
Organization That Operates System:	1951 S. RIVER RD. WEST SACRAMENTO, CA 95691		
Pop Served:	45000	Connections:	7655
Area Served:	WEST SACRAMENTO		
Sample Collected:	07/06/2005 00:00:00	Findings:	570 UG/L
Chemical:	ALUMINUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	100 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	07/06/2005 00:00:00	Findings:	- 1.4
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	07/06/2005 00:00:00	Findings:	10.4
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	07/13/2005 00:00:00	Findings:	8.2
Chemical:	PH, LABORATORY		
Sample Collected:	07/13/2005 00:00:00	Findings:	62.6 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	07/13/2005 00:00:00	Findings:	76 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/13/2005 00:00:00	Findings:	12 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/13/2005 00:00:00	Findings:	- .19
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/03/2005 00:00:00	Findings:	1.45 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/25/2005 00:00:00	Findings:	12 UNITS
Chemical:	COLOR		
Sample Collected:	08/25/2005 00:00:00	Findings:	11.1 NTU
Chemical:	TURBIDITY, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	09/07/2005 00:00:00	Findings:	1.79 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/06/2005 00:00:00	Findings:	1.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/02/2005 00:00:00	Findings:	2.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/07/2005 00:00:00	Findings:	4.01 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/15/2005 00:00:00	Findings:	10 UNITS
Chemical:	COLOR		
Sample Collected:	12/15/2005 00:00:00	Findings:	14 MG/L
Chemical:	CALCIUM		
Sample Collected:	12/15/2005 00:00:00	Findings:	8.3 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	12/15/2005 00:00:00	Findings:	580 UG/L
Chemical:	IRON		
Sample Collected:	12/15/2005 00:00:00	Findings:	24 UG/L
Chemical:	MANGANESE		
Sample Collected:	12/22/2005 00:00:00	Findings:	5.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/04/2006 00:00:00	Findings:	3.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/01/2006 00:00:00	Findings:	2.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/04/2006 00:00:00	Findings:	2.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/05/2006 00:00:00	Findings:	3.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/08/2006 00:00:00	Findings:	4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/05/2006 00:00:00	Findings:	2.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/04/2002 00:00:00	Findings:	15 UNITS
Chemical:	COLOR		
Sample Collected:	03/04/2002 00:00:00	Findings:	3 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	03/04/2002 00:00:00	Findings:	161 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	03/04/2002 00:00:00	Findings:	8
Chemical:	PH, LABORATORY		
Sample Collected:	03/04/2002 00:00:00	Findings:	68 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	03/04/2002 00:00:00	Findings:	82.7 MG/L
Chemical:	BICARBONATE ALKALINITY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	03/04/2002 00:00:00	Findings:	69.1 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	03/04/2002 00:00:00	Findings:	15 MG/L
Chemical:	CALCIUM		
Sample Collected:	03/04/2002 00:00:00	Findings:	7.7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	03/04/2002 00:00:00	Findings:	8.9 MG/L
Chemical:	SODIUM		
Sample Collected:	03/04/2002 00:00:00	Findings:	1.3 MG/L
Chemical:	POTASSIUM		
Sample Collected:	03/04/2002 00:00:00	Findings:	4.4 MG/L
Chemical:	CHLORIDE		
Sample Collected:	03/04/2002 00:00:00	Findings:	1300 UG/L
Chemical:	IRON		
Sample Collected:	03/04/2002 00:00:00	Findings:	40 UG/L
Chemical:	MANGANESE		
Sample Collected:	03/04/2002 00:00:00	Findings:	790 UG/L
Chemical:	ALUMINUM		
Sample Collected:	03/04/2002 00:00:00	Findings:	120 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	03/04/2002 00:00:00	Findings:	- .29
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	03/04/2002 00:00:00	Findings:	20 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	04/08/2002 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/07/2002 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/22/2002 00:00:00	Findings:	2.4 UG/L
Chemical:	MOLINATE		
Sample Collected:	05/24/2002 00:00:00	Findings:	4.2 UG/L
Chemical:	MOLINATE		
Sample Collected:	05/24/2002 00:00:00	Findings:	1.5 UG/L
Chemical:	THIOBENCARB		
Sample Collected:	05/27/2002 00:00:00	Findings:	2.8 UG/L
Chemical:	MOLINATE		
Sample Collected:	06/11/2002 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/09/2002 00:00:00	Findings:	1.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/07/2002 00:00:00	Findings:	1.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/15/2002 00:00:00	Findings:	10 UNITS
Chemical:	COLOR		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/15/2002 00:00:00	Findings:	4 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	08/15/2002 00:00:00	Findings:	167 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/15/2002 00:00:00	Findings:	8.1
Chemical:	PH, LABORATORY		
Sample Collected:	08/15/2002 00:00:00	Findings:	75 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	08/15/2002 00:00:00	Findings:	91.1 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/15/2002 00:00:00	Findings:	.745 MG/L
Chemical:	CARBONATE ALKALINITY		
Sample Collected:	08/15/2002 00:00:00	Findings:	70.7 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	08/15/2002 00:00:00	Findings:	15 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	8.1 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	12 MG/L
Chemical:	SODIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	1.2 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	5.8 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/15/2002 00:00:00	Findings:	.11 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08/15/2002 00:00:00	Findings:	2.5 UG/L
Chemical:	ARSENIC		
Sample Collected:	08/15/2002 00:00:00	Findings:	1200 UG/L
Chemical:	IRON		
Sample Collected:	08/15/2002 00:00:00	Findings:	47 UG/L
Chemical:	MANGANESE		
Sample Collected:	08/15/2002 00:00:00	Findings:	4.9 UG/L
Chemical:	VANADIUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	1100 UG/L
Chemical:	ALUMINUM		
Sample Collected:	08/15/2002 00:00:00	Findings:	110 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/15/2002 00:00:00	Findings:	- .2
Chemical:	LANGELIER INDEX @ 60 C		
Sample Collected:	08/15/2002 00:00:00	Findings:	.02 MG/L
Chemical:	HYDROXIDE ALKALINITY		
Sample Collected:	08/15/2002 00:00:00	Findings:	1450 UG/L
Chemical:	CARBON DIOXIDE		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/15/2002 00:00:00	Findings:	17 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	09/03/2002 00:00:00	Findings:	2.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09/10/2002 00:00:00	Findings:	10 UNITS
Chemical:	COLOR		
Sample Collected:	09/10/2002 00:00:00	Findings:	4 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	09/10/2002 00:00:00	Findings:	10 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10/03/2002 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/03/2002 00:00:00	Findings:	2.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/19/2002 00:00:00	Findings:	1.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/08/2003 00:00:00	Findings:	2.9 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/05/2003 00:00:00	Findings:	2.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/20/2003 00:00:00	Findings:	8 TON
Chemical:	ODOR THRESHOLD @ 60 C		
Sample Collected:	03/05/2003 00:00:00	Findings:	2.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/01/2003 00:00:00	Findings:	1.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/07/2003 00:00:00	Findings:	2.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/03/2003 00:00:00	Findings:	1.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/09/2003 00:00:00	Findings:	1.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/07/2003 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/25/2003 00:00:00	Findings:	2.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	09/09/2003 00:00:00	Findings:	2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/07/2003 00:00:00	Findings:	12 UNITS
Chemical:	COLOR		
Sample Collected:	10/07/2003 00:00:00	Findings:	144 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	10/07/2003 00:00:00	Findings:	70 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	10/07/2003 00:00:00	Findings:	80 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	10/07/2003 00:00:00	Findings:	58.7 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	10/07/2003 00:00:00	Findings:	12 MG/L
Chemical:	CALCIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	7 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	7 MG/L
Chemical:	SODIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	4 MG/L
Chemical:	CHLORIDE		
Sample Collected:	10/07/2003 00:00:00	Findings:	.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	10/07/2003 00:00:00	Findings:	360 UG/L
Chemical:	IRON		
Sample Collected:	10/07/2003 00:00:00	Findings:	4 UG/L
Chemical:	VANADIUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	110 UG/L
Chemical:	ALUMINUM		
Sample Collected:	10/07/2003 00:00:00	Findings:	110 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	10/07/2003 00:00:00	Findings:	- .7
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		
Sample Collected:	10/07/2003 00:00:00	Findings:	6.2 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	10/07/2003 00:00:00	Findings:	11.1
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	10/14/2003 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/05/2003 00:00:00	Findings:	2.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/10/2003 00:00:00	Findings:	5.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/14/2004 00:00:00	Findings:	2.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/03/2004 00:00:00	Findings:	2.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/03/2004 00:00:00	Findings:	2.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/07/2004 00:00:00	Findings:	1.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	04/07/2004 00:00:00	Findings:	.494 PCI/L
Chemical:	RADIUM 228 COUNTING ERROR		
Sample Collected:	05/10/2004 00:00:00	Findings:	1.4 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/02/2004 00:00:00	Findings:	1.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/07/2004 00:00:00	Findings:	1.2 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/04/2004 00:00:00	Findings:	1.5 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	08/18/2004 00:00:00	Findings:	11 UNITS
Chemical:	COLOR		
Sample Collected:	08/18/2004 00:00:00	Findings:	180 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	08/18/2004 00:00:00	Findings:	6.7
Chemical:	PH, LABORATORY		
Sample Collected:	08/18/2004 00:00:00	Findings:	80 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO ₃		
Sample Collected:	08/18/2004 00:00:00	Findings:	90 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	08/18/2004 00:00:00	Findings:	65.4 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO ₃		
Sample Collected:	08/18/2004 00:00:00	Findings:	13 MG/L
Chemical:	CALCIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	8 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	12 MG/L
Chemical:	SODIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	5 MG/L
Chemical:	CHLORIDE		
Sample Collected:	08/18/2004 00:00:00	Findings:	.2 MG/L
Chemical:	FLUORIDE (F) (NATURAL-SOURCE)		
Sample Collected:	08/18/2004 00:00:00	Findings:	190 UG/L
Chemical:	IRON		
Sample Collected:	08/18/2004 00:00:00	Findings:	4 UG/L
Chemical:	VANADIUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	100 UG/L
Chemical:	ALUMINUM		
Sample Collected:	08/18/2004 00:00:00	Findings:	100 MG/L
Chemical:	TOTAL DISSOLVED SOLIDS		
Sample Collected:	08/18/2004 00:00:00	Findings:	- 1.7
Chemical:	LANGELIER INDEX AT SOURCE TEMP.		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	08/18/2004 00:00:00	Findings:	3.8 NTU
Chemical:	TURBIDITY, LABORATORY		
Sample Collected:	08/18/2004 00:00:00	Findings:	10.1
Chemical:	AGGRSSIVE INDEX (CORROSIVITY)		
Sample Collected:	09/01/2004 00:00:00	Findings:	1.6 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	10/06/2004 00:00:00	Findings:	1.3 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	11/03/2004 00:00:00	Findings:	2.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/01/2004 00:00:00	Findings:	2.8 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	12/29/2004 00:00:00	Findings:	3.77 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/05/2005 00:00:00	Findings:	4.06 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	01/31/2005 00:00:00	Findings:	4.06 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	02/02/2005 00:00:00	Findings:	2.88 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/02/2005 00:00:00	Findings:	2.38 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/24/2005 00:00:00	Findings:	3.42 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/25/2005 00:00:00	Findings:	3.99 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/25/2005 00:00:00	Findings:	3.86 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	03/26/2005 00:00:00	Findings:	3.52 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	04/06/2005 00:00:00	Findings:	1.7 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/04/2005 00:00:00	Findings:	2.28 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	05/11/2005 00:00:00	Findings:	3.1 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	06/01/2005 00:00:00	Findings:	2.41 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/06/2005 00:00:00	Findings:	2.27 MG/L
Chemical:	TOTAL ORGANIC CARBON (TOC)		
Sample Collected:	07/06/2005 00:00:00	Findings:	152 US
Chemical:	SPECIFIC CONDUCTANCE		
Sample Collected:	07/06/2005 00:00:00	Findings:	7.1
Chemical:	PH, LABORATORY		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Sample Collected:	07/06/2005 00:00:00	Findings:	70 MG/L
Chemical:	ALKALINITY (TOTAL) AS CaCO3		
Sample Collected:	07/06/2005 00:00:00	Findings:	80 MG/L
Chemical:	BICARBONATE ALKALINITY		
Sample Collected:	07/06/2005 00:00:00	Findings:	54.6 MG/L
Chemical:	HARDNESS (TOTAL) AS CaCO3		
Sample Collected:	07/06/2005 00:00:00	Findings:	12 MG/L
Chemical:	CALCIUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	6 MG/L
Chemical:	MAGNESIUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	8 MG/L
Chemical:	SODIUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	1 MG/L
Chemical:	POTASSIUM		
Sample Collected:	07/06/2005 00:00:00	Findings:	3 MG/L
Chemical:	CHLORIDE		
Sample Collected:	07/06/2005 00:00:00	Findings:	380 UG/L
Chemical:	IRON		
Sample Collected:	07/06/2005 00:00:00	Findings:	30 UG/L
Chemical:	MANGANESE		
Sample Collected:	07/06/2005 00:00:00	Findings:	6 UG/L
Chemical:	VANADIUM		

**B3
NW
1/8 - 1/4 Mile
Higher**

CA WELLS 8967

Water System Information:

Prime Station Code:	09N/04E-33D01 M	User ID:	TEN
FRDS Number:	5710003024	County:	Yolo
District Number:	09	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	383600.0 1213300.0	Precision:	Undefined
Source Name:	WELL 22 - INACTIVE		
System Number:	5710003		
System Name:	West Sacramento, City of		
Organization That Operates System:	1951 S. RIVER RD. WEST SACRAMENTO, CA 95691		
Pop Served:	45000	Connections:	7655
Area Served:	WEST SACRAMENTO		

**B4
NW
1/8 - 1/4 Mile
Higher**

CA WELLS 8962

Water System Information:

Prime Station Code:	09N/04E-28F01 M	User ID:	TEN
FRDS Number:	5710003005	County:	Yolo
District Number:	09	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	383600.0 1213300.0	Precision:	Undefined
Source Name:	WELL 03 - ABANDONED		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

System Number: 5710003
 System Name: West Sacramento, City of
 Organization That Operates System:
 1951 S. RIVER RD.
 WEST SACRAMENTO, CA 95691
 Pop Served: 45000
 Area Served: WEST SACRAMENTO
 Connections: 7655

5
NNW
1/4 - 1/2 Mile
Higher

FED USGS USGS3225450

Agency cd:	USGS	Site no:	383604121325201
Site name:	009N004E28D007M		
Latitude:	383604		
Longitude:	1213252	Dec lat:	38.60101602
Dec lon:	-121.54884564	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	SACRAMENTO WEST	Map scale:	24000
Altitude:	23.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19750506
Date inventoried:	19820816	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	CONTINENTAL DEPOSITS		
Well depth:	147	Hole depth:	300
Source of depth data:	driller	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1982-09-10
Water quality data end date:	1982-09-10	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

6
NNW
1/4 - 1/2 Mile
Higher

FED USGS USGS3225460

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Agency cd:	USGS	Site no:	383613121330501
Site name:	009N004E28D006M		
Latitude:	383613		
Longitude:	1213305	Dec lat:	38.60351598
Dec lon:	-121.55245686	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	SACRAMENTO WEST	Map scale:	24000
Altitude:	28.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Stream channel		
Site type:	Ground-water other than Spring	Date construction:	19781211
Date inventoried:	19820816	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	149	Hole depth:	167
Source of depth data:	driller	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1979-12-11	Ground water data end date:	1979-12-11
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1979-12-11	20.00	

**7
NE
1/2 - 1 Mile
Higher**

FED USGS USGS3225477

Agency cd:	USGS	Site no:	383623121321301
Site name:	009N004E27D001M		
Latitude:	383623		
Longitude:	1213213	Dec lat:	38.60629364
Dec lon:	-121.53801203	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	067
Country:	US	Land net:	Not Reported
Location map:	SACRAMENTO WEST	Map scale:	24000
Altitude:	15.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19750509
Date inventoried:	19820816	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	CONTINENTAL DEPOSITS		
Well depth:	112	Hole depth:	118
Source of depth data:	driller	Project number:	0479423712
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1982-09-10
Water quality data end date:	1982-09-10	Water quality data count:	1
Ground water data begin date:	1982-08-16	Ground water data end date:	1982-08-16
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1982-08-16	16.00	

8
South
1/2 - 1 Mile
Higher

CA WELLS 8969

Water System Information:

Prime Station Code:	09N/04E-33Q01 M	User ID:	TEN
FRDS Number:	5710003008	County:	Yolo
District Number:	09	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Abandoned
Source Lat/Long:	383500.0 1213300.0	Precision:	Undefined
Source Name:	WELL 06 - ABANDONED		
System Number:	5710003		
System Name:	West Sacramento, City of		
Organization That Operates System:	1951 S. RIVER RD. WEST SACRAMENTO, CA 95691		
Pop Served:	45000	Connections:	7655
Area Served:	WEST SACRAMENTO		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zip	Total Sites	> 4 Pci/L	Pct. > 4 Pci/L
95605	2	0	0.00

Federal EPA Radon Zone for YOLO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
- : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
- : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for YOLO COUNTY, CA

Number of sites tested: 13

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.508 pCi/L	92%	8%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	1.200 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EDR® Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 62.5
RiverMile 62.5
WEST SACRAMENTO, CA 95605**

Inquiry Number: 1790938.5

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 62.5

WEST SACRAMENTO, CA 95605

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790938.5

YEAR: 1952

| = 555'





INQUIRY #: 1790938.5

YEAR: 1961

| = 555'





INQUIRY #: 1790938.5

YEAR: 1971

| = 333'





INQUIRY #: 1790938.5

YEAR: 1981

— = 333'





INQUIRY #: 1790938.5

YEAR: 1993

| = 666'





INQUIRY #: 1790938.5

YEAR: 1998

| = 666'





EDR® Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**Sacramento River RiverMile 62.5
RiverMile 62.5
WEST SACRAMENTO, CA 95605**

Inquiry Number: 1790938.4

November 07, 2006

**The Standard in
Environmental Risk
Management Information**

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
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Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

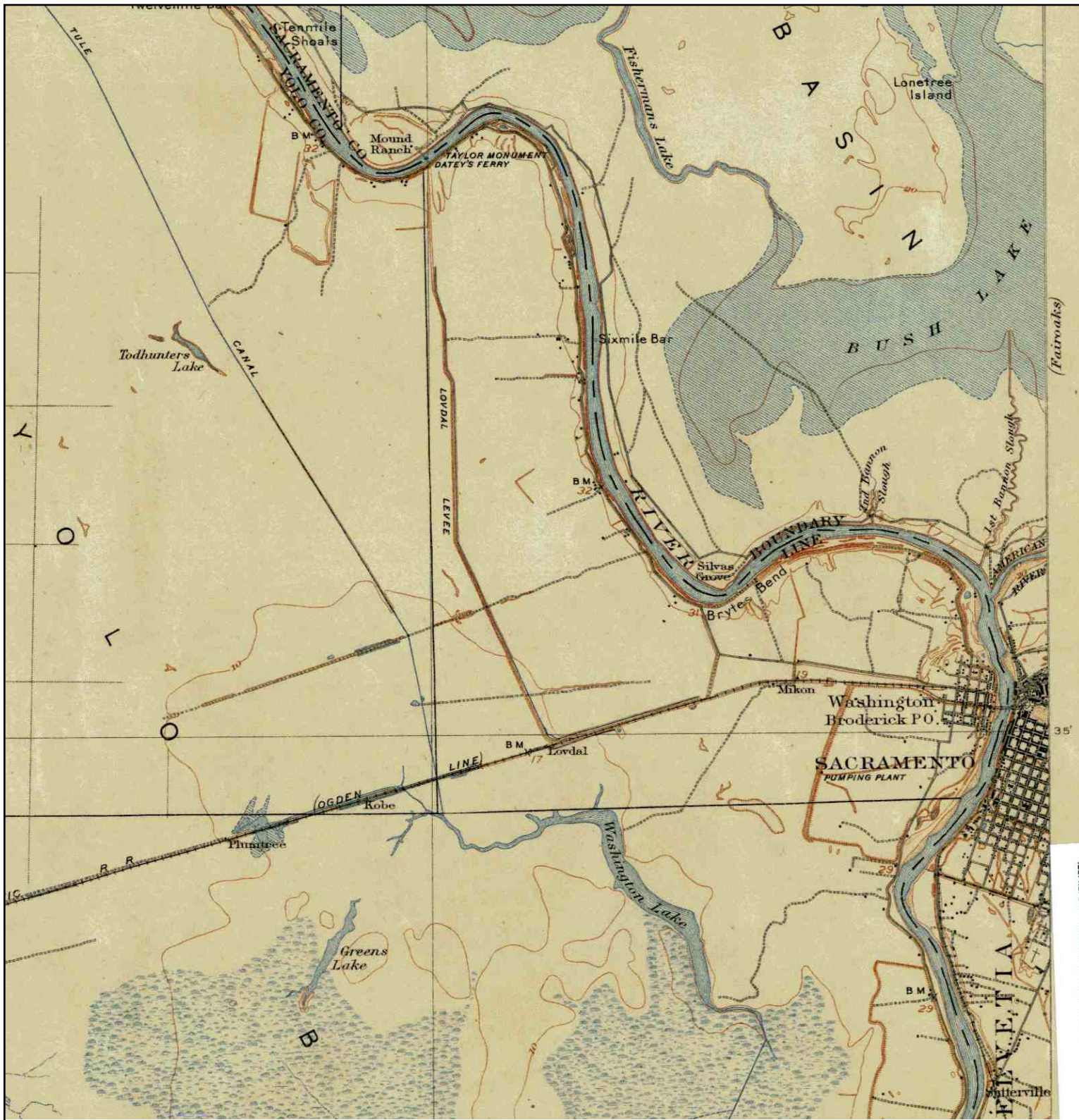
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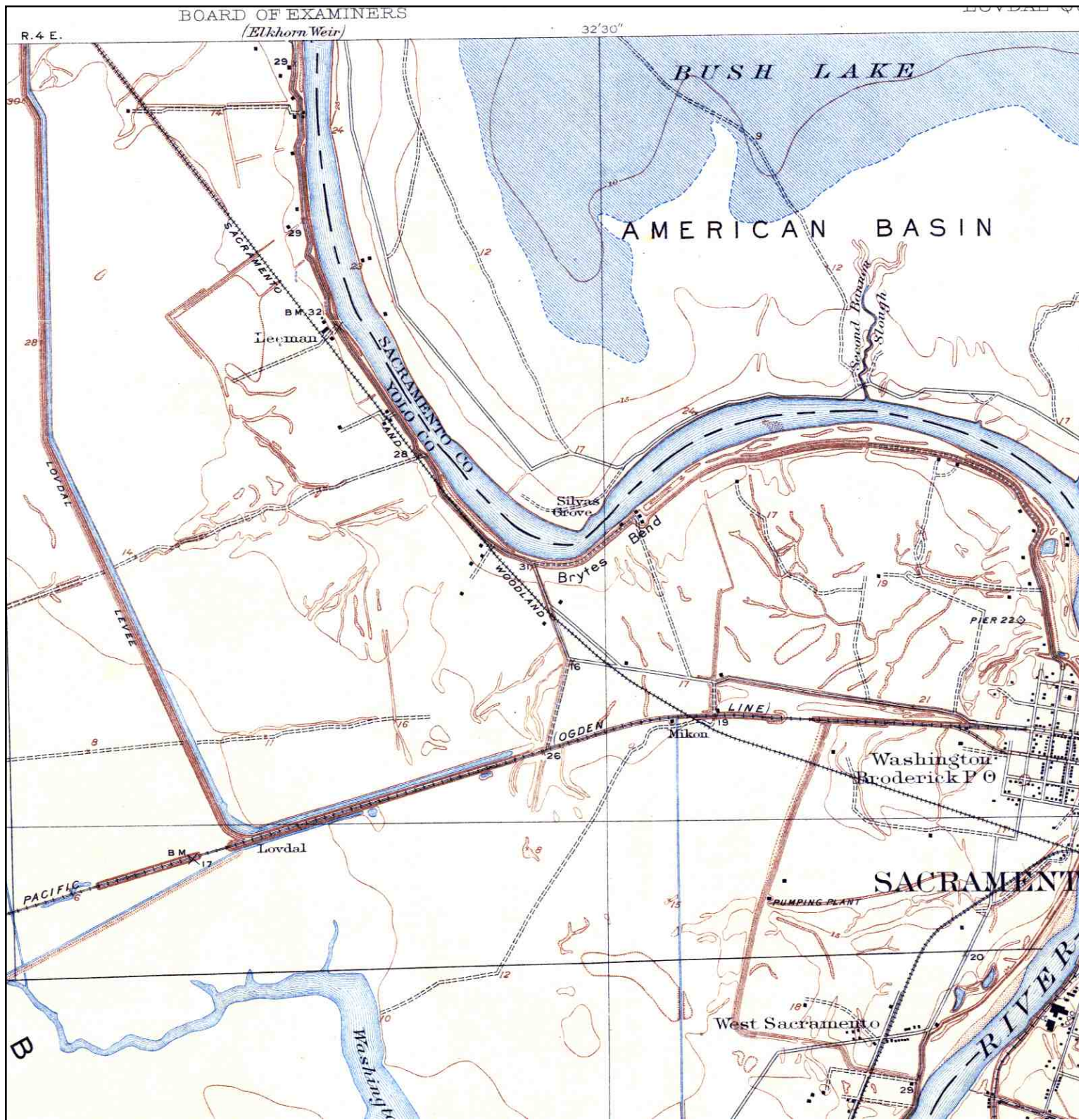
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Historical Topographic Map



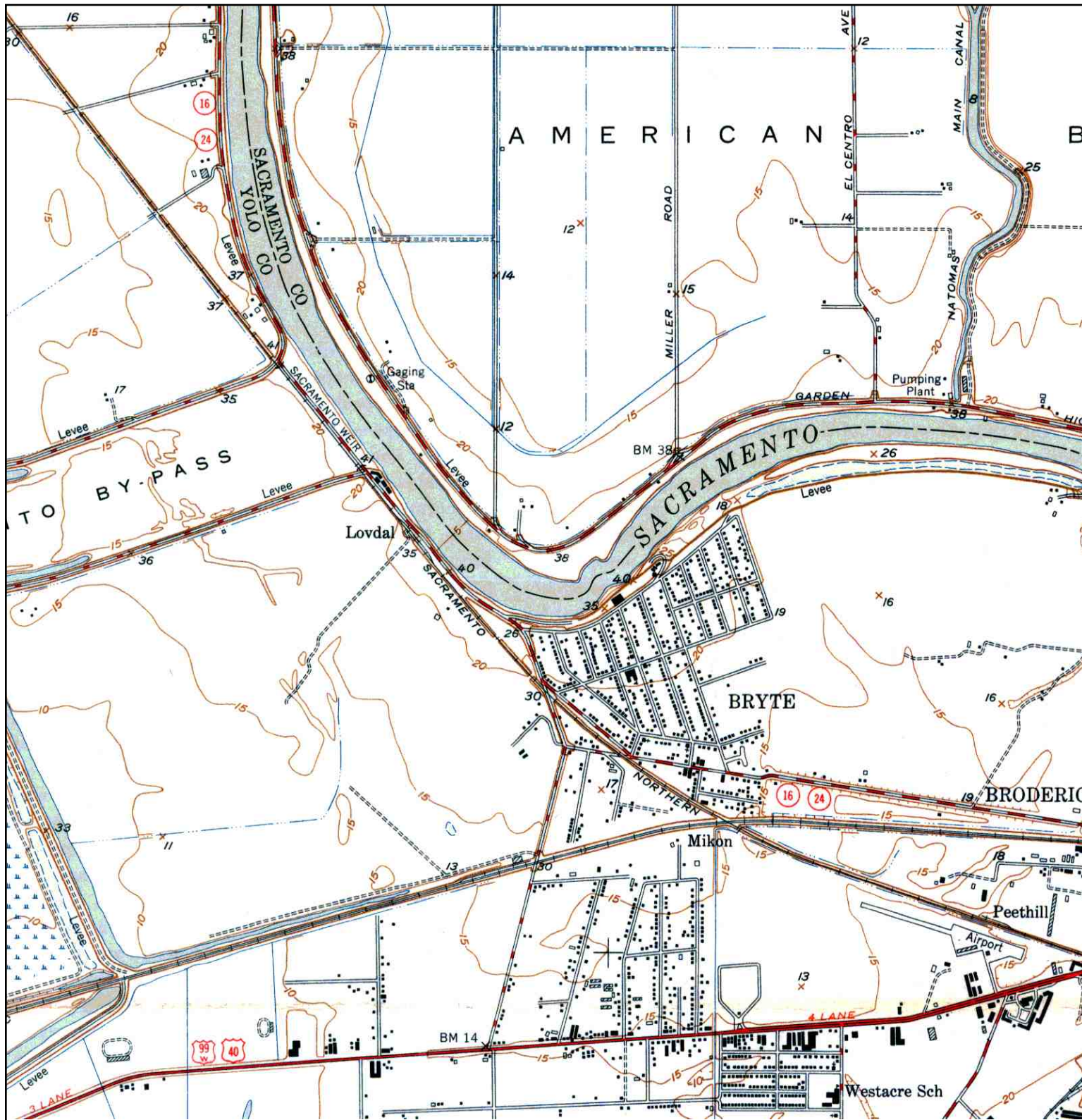
	TARGET QUAD NAME: DAVISVILLE MAP YEAR: 1907	SITE NAME: Sacramento River RiverMile 62.5 ADDRESS: RiverMile 62.5 WEST SACRAMENTO, CA LAT/LONG: 38.5974 / 121.5478	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790938.4 RESEARCH DATE: 11/07/2006
	SERIES: 15 SCALE: 1:62500		

Historical Topographic Map



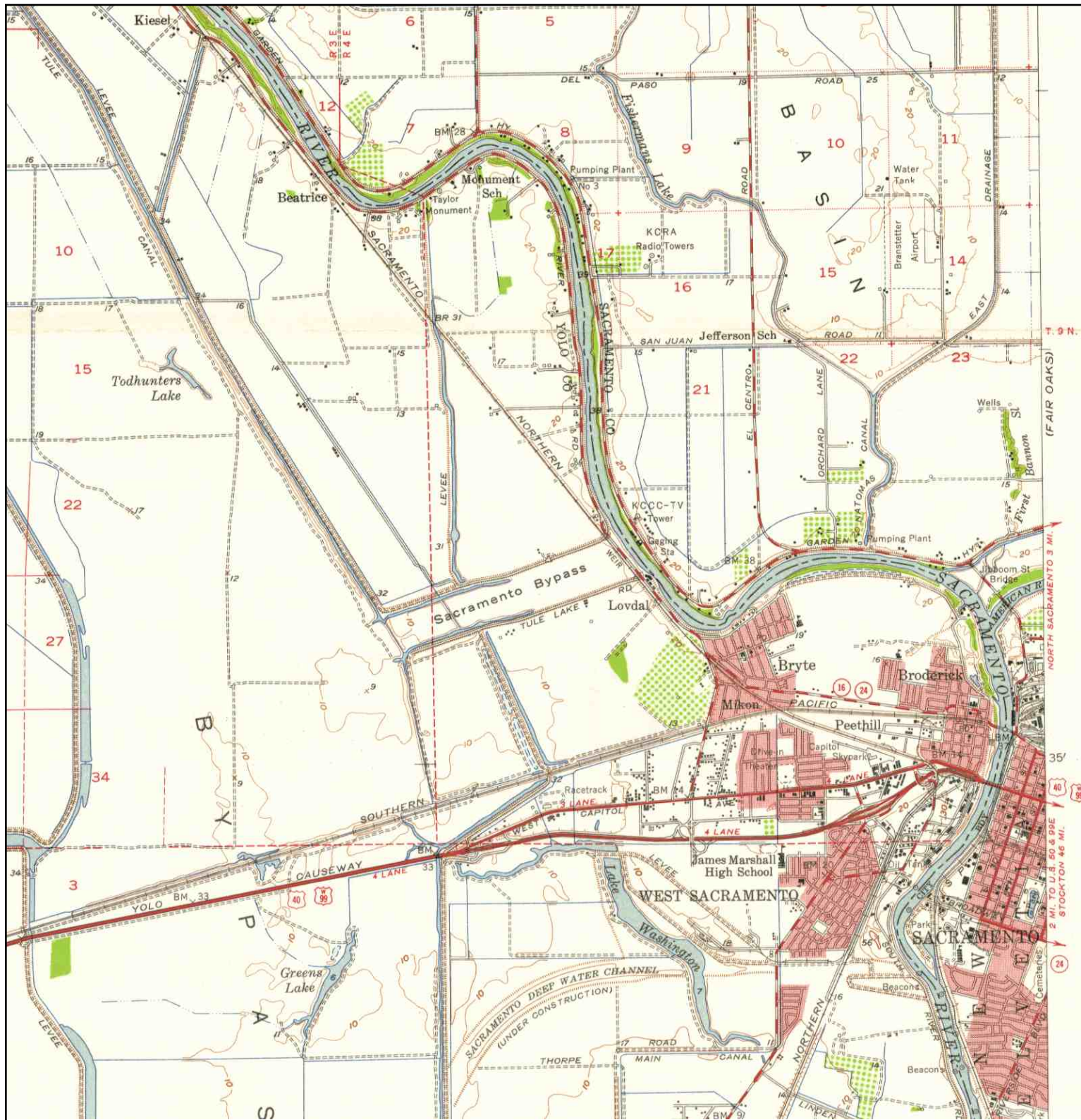
<p>N</p>	<p>TARGET QUAD</p> <p>NAME: LOVDAL</p> <p>MAP YEAR: 1916</p>	<p>SITE NAME: Sacramento River RiverMile 62.5</p> <p>ADDRESS: RiverMile 62.5</p> <p>WEST SACRAMENTO, CA</p> <p>LAT/LONG: 38.5974 / 121.5478</p>	<p>CLIENT: MECx</p> <p>CONTACT: Robert Bell</p> <p>INQUIRY#: 1790938.4</p> <p>RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5</p> <p>SCALE: 1:31680</p>		

Historical Topographic Map



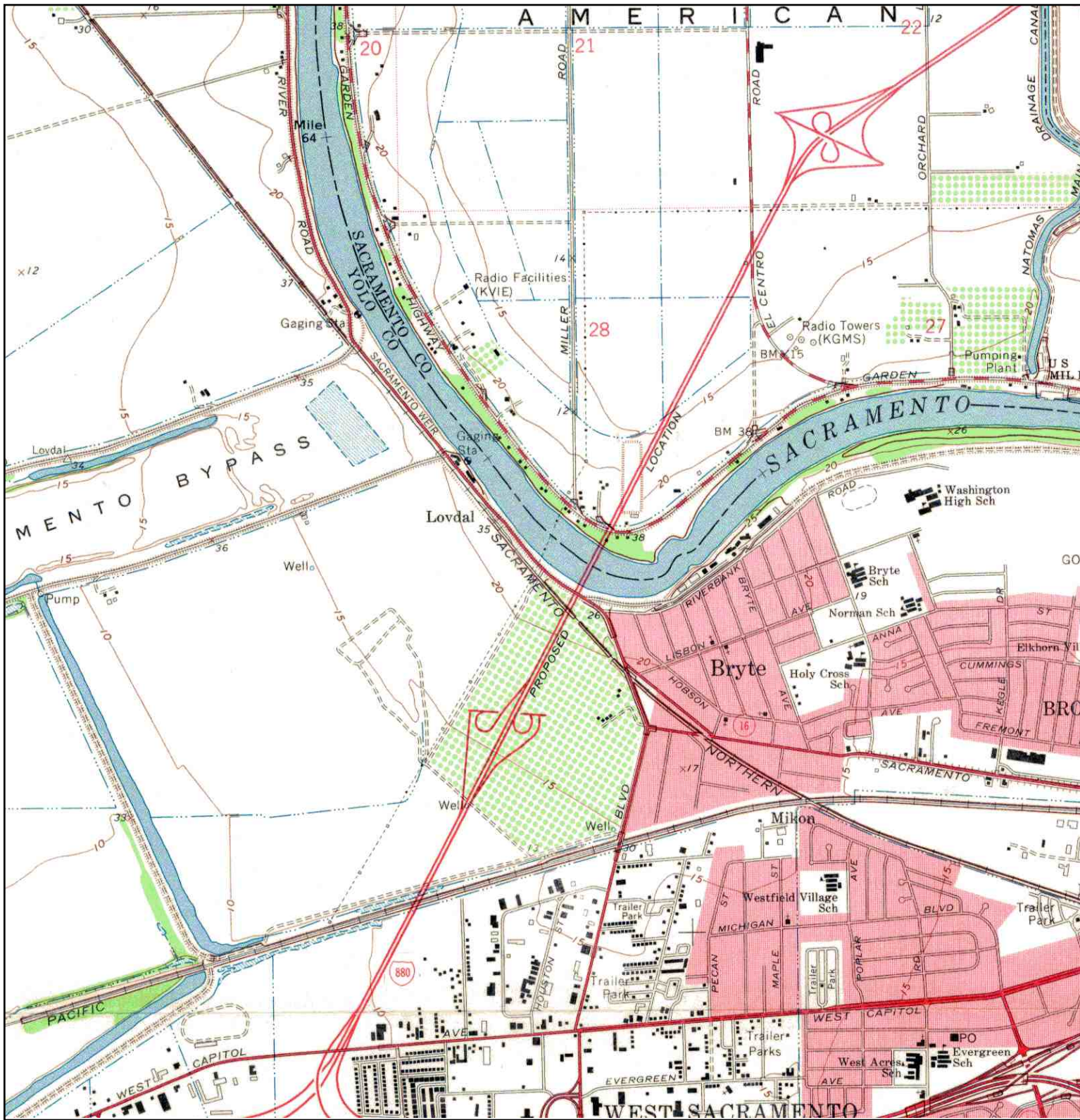
<p>N ↑</p>	<p>TARGET QUAD NAME: SACRAMENTO WEST MAP YEAR: 1949</p>	<p>SITE NAME: Sacramento River RiverMile 62.5 ADDRESS: RiverMile 62.5 WEST SACRAMENTO, CA LAT/LONG: 38.5974 / 121.5478</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790938.4 RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		


Historical Topographic Map



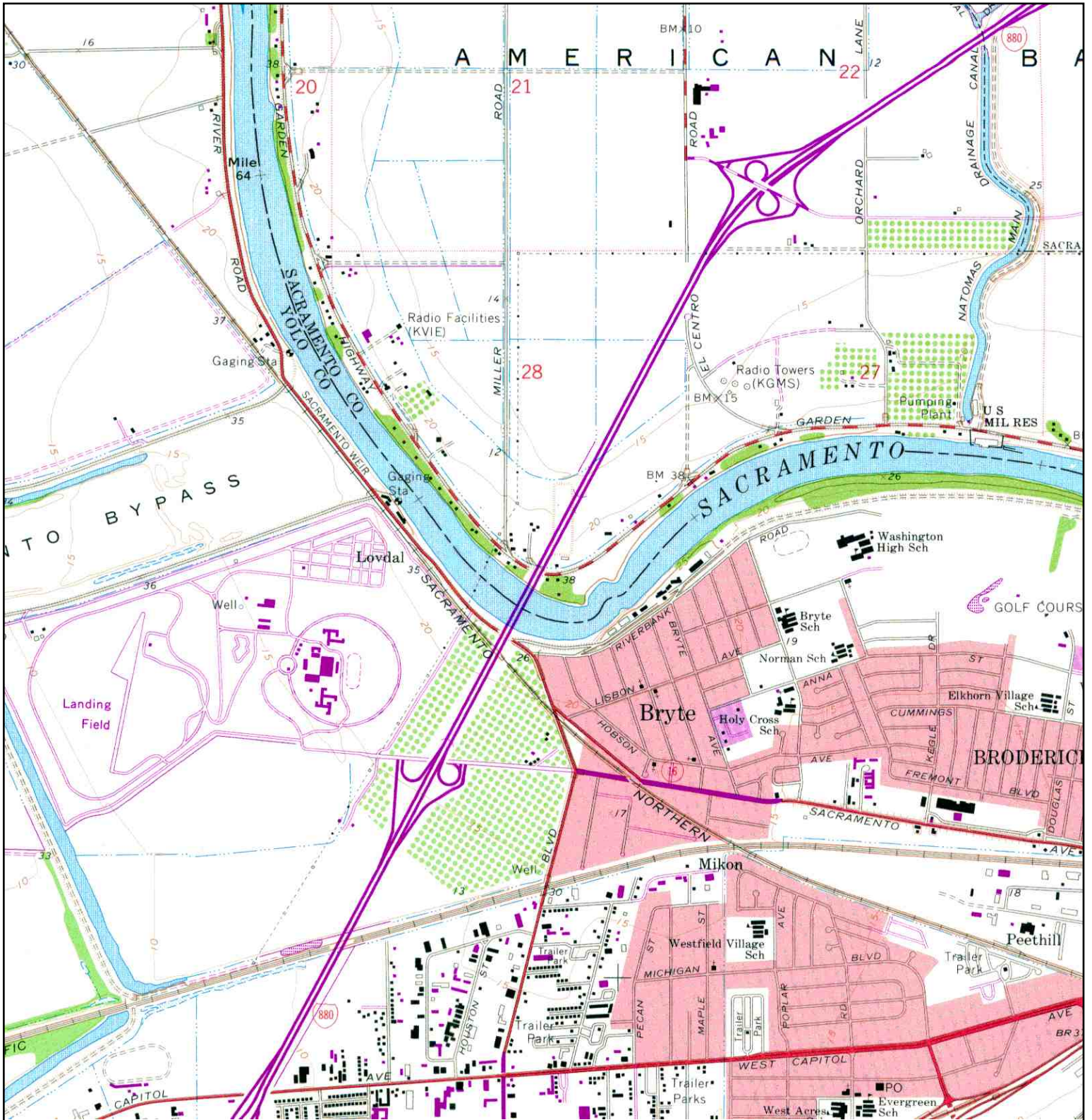
<p>N</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 62.5	CLIENT:	MECx
	NAME: DAVIS	ADDRESS:	RiverMile 62.5	CONTACT:	Robert Bell
	MAP YEAR: 1954		WEST SACRAMENTO, CA	INQUIRY#:	1790938.4
	SERIES: 15	LAT/LONG:	38.5974 / 121.5478	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500				

Historical Topographic Map



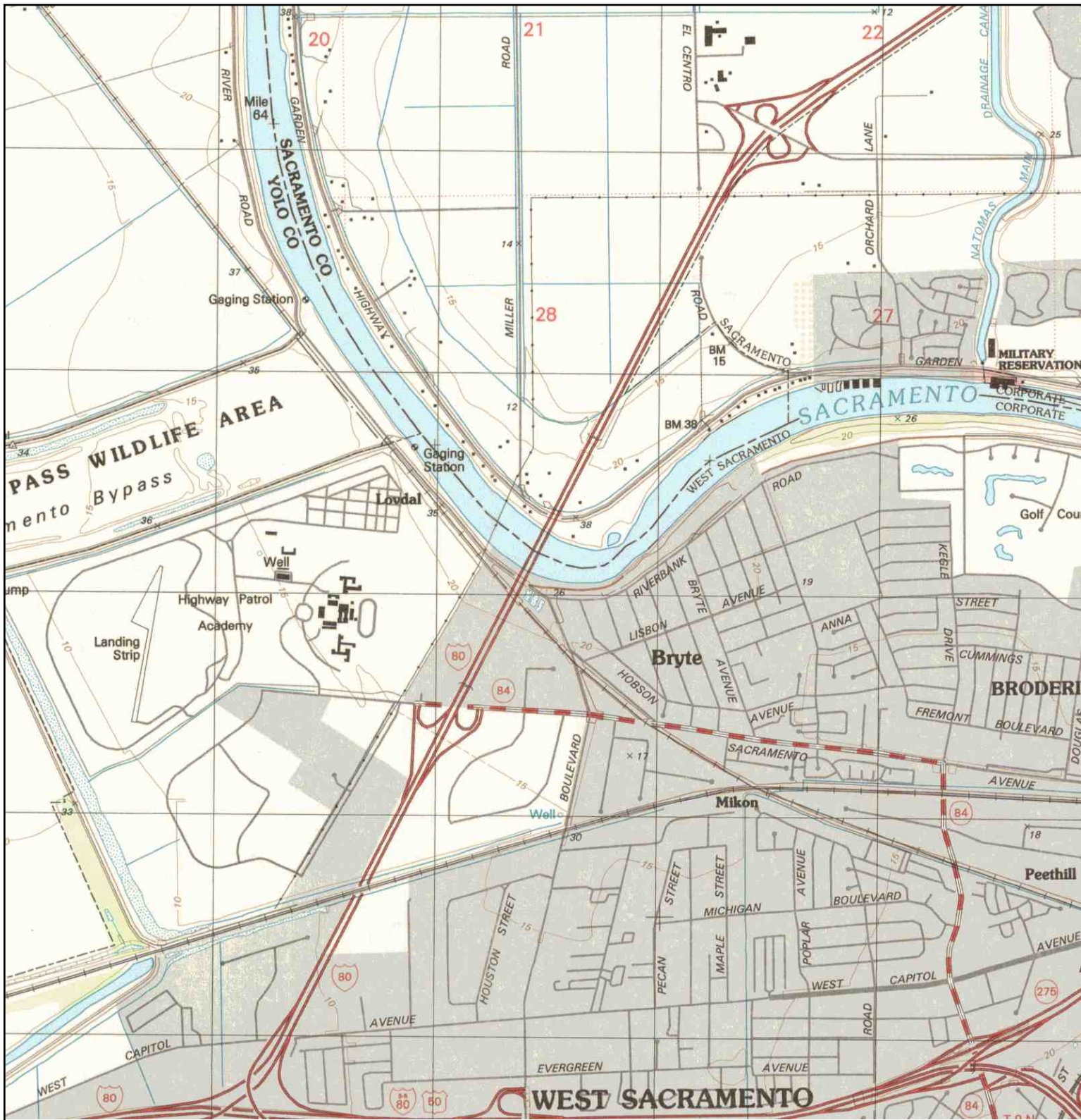
	TARGET QUAD	SITE NAME:	CLIENT:
	NAME: SACRAMENTO WEST	Address: Sacramento River RiverMile 62.5	MECx
	MAP YEAR: 1967	Address: RiverMile 62.5	CONTACT: Robert Bell
	SERIES: 7.5	Address: WEST SACRAMENTO, CA	INQUIRY#: 1790938.4
SCALE: 1:24000	LAT/LONG: 38.5974 / 121.5478	RESEARCH DATE: 11/07/2006	

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 62.5	CLIENT:	MECx
	NAME: SACRAMENTO WEST	ADDRESS:	RiverMile 62.5	CONTACT:	Robert Bell
	MAP YEAR: 1975		WEST SACRAMENTO, CA	INQUIRY#:	1790938.4
	PHOTOREVISED FROM: 1967	LAT/LONG:	38.5974 / 121.5478	RESEARCH DATE:	11/07/2006
	SERIES: 7.5				
	SCALE: 1:24000				

Historical Topographic Map



<p>N</p>	<p>TARGET QUAD NAME: SACRAMENTO WEST MAP YEAR: 1992</p>	<p>SITE NAME: Sacramento River RiverMile 62.5 ADDRESS: RiverMile 62.5 WEST SACRAMENTO, CA LAT/LONG: 38.5974 / 121.5478</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790938.4 RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

APPENDIX M

**EDR REPORT FOR SAC68.9L
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 68.9
RiverMile 68.9
SACRAMENTO, CA 95837**

Inquiry Number: 1790939.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 68.9
SACRAMENTO, CA 95837

COORDINATES

Latitude (North): 38.656700 - 38° 39' 24.1"
Longitude (West): 121.603800 - 121° 36' 13.7"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 621487.2
UTM Y (Meters): 4279399.0
Elevation: 0 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-F5 TAYLOR MONUMENT, CA
Most Recent Revision: 1980

West Map: 38121-F6 GRAYS BEND, CA
Most Recent Revision: 1980

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned

EXECUTIVE SUMMARY

CORRACTS	Corrective Action Report
RCRA-TSDF	Resource Conservation and Recovery Act Information
RCRA-LQG	Resource Conservation and Recovery Act Information
RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
SLIC	Statewide SLIC Cases
Sacramento Co. CS	CS - Contaminated Sites
UST	Active UST Facilities
AST	Aboveground Petroleum Storage Tank Facilities
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
----------------------------	---------------------

EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants
EDR Historical Auto StationsEDR Proprietary Historic Gas Stations
EDR Historical Cleaners..... EDR Proprietary Historic Dry Cleaners

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property. Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STATE AND LOCAL RECORDS

CA FID: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there is 1 CA FID UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>IHDE-L-ACRES</i>	<i>5870 GARDEN HWY</i>	<i>1/8 - 1/4 SE</i>	<i>A3</i>	<i>7</i>

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>IHDE-L-ACRES</i>	<i>5870 GARDEN HWY</i>	<i>1/8 - 1/4 SE</i>	<i>A2</i>	<i>6</i>

SWEEPS: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there is

EXECUTIVE SUMMARY

1 SWEEPS UST site within approximately 0.25 miles of the target property.

<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
<i>IHDE-L-ACRES</i>	<i>5870 GARDEN HWY</i>	<i>1/8 - 1/4SE</i>	<i>A3</i>	<i>7</i>

CA ML: Sacramento County Master List. Any business that has hazardous materials on site - hazardous materials storage sites, underground storage tanks, waste generators.

A review of the Sacramento Co. ML list, as provided by EDR, and dated 08/02/2006 has revealed that there is 1 Sacramento Co. ML site within approximately 0.25 miles of the target property.

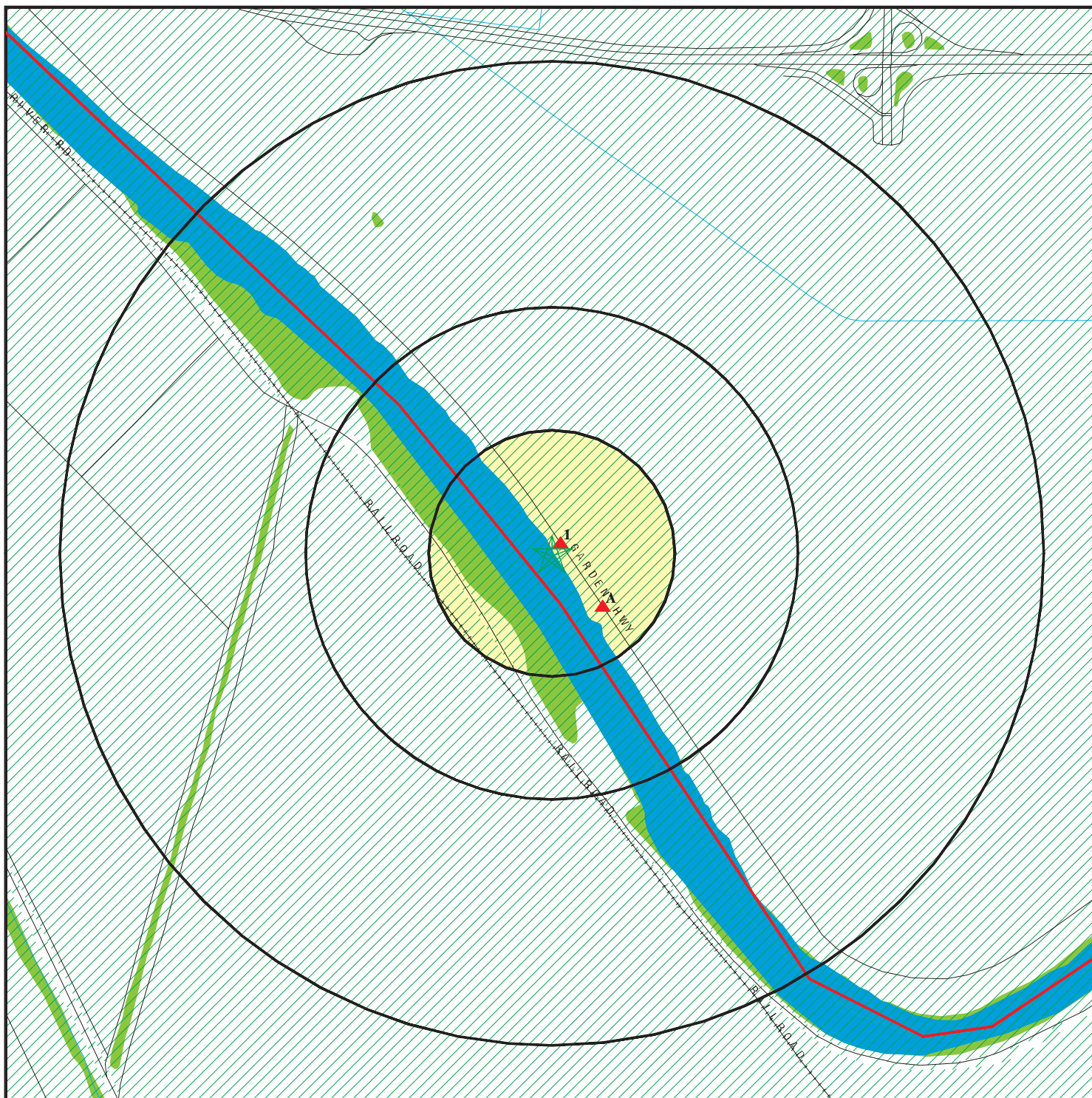
<u>Equal/Higher Elevation</u>	<u>Address</u>	<u>Dist / Dir</u>	<u>Map ID</u>	<u>Page</u>
ALAMAR MARINA	5999 GARDEN HWY	0 - 1/8 NE	1	6

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
H. ISHIMOTO FARMS	CA FID UST, SWEEPS UST
LIGHTHOUSE MARINA	UST
LIGHTHOUSE MARINA & RIVERBEND	UST
J R MCCRAY PLASTERING INC	UST
H. ISHIMOTO FARMS	HIST UST
FRANK L. LANG	HIST UST
CLARENCE MATTOS	HIST UST
JAY DEE TRANSPORT CO.	AST
SACRAMENTO CITY U.S.D. ALBERT EINS	HAZNET
SACRAMENTO COUNTY PUBLIC WORKS	HAZNET
AIR FORCE DOCK FACILITY ON SACRAME	ERNS
AMERICAN RIVER/N. OF: X SACRAMENTO	ERNS
IN AMERICAN RIVER NR:5TH ST	ERNS
AMERICAN RIVER FISH HATCHERY	ERNS
AMERICAN RIVER	ERNS
BERTH 1;PORT OF SACRAMENTO	ERNS
1570 SOUTH RIVER RD	ERNS
SACRAMENTO-YOLO MOSQUITO & VECTOR	SLIC
CITY OF SACRAMENTO	Sacramento Co. CS
CALTRANS	Sacramento Co. CS

OVERVIEW MAP - 1790939.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern

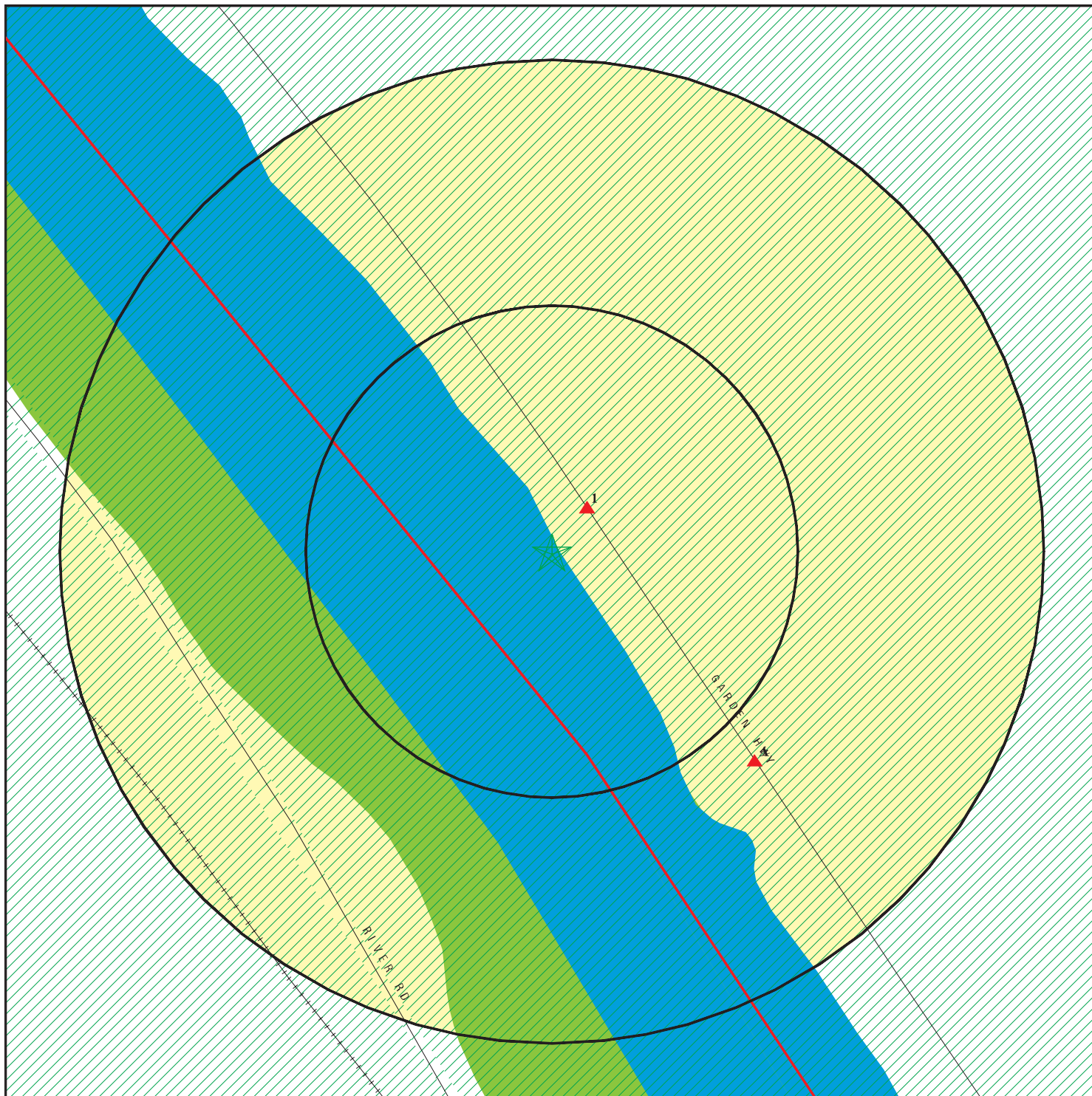


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 68.9
 ADDRESS: RiverMile 68.9
 SACRAMENTO CA 95837
 LAT/LONG: 38.6567 / 121.6038

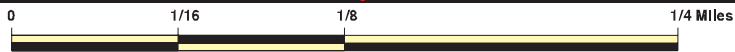
CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790939.2s
 DATE: November 07, 2006 10:46 am

DETAIL MAP - 1790939.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites

- Indian Reservations BIA
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 68.9
 ADDRESS: RiverMile 68.9
 SACRAMENTO CA 95837
 LAT/LONG: 38.6567 / 121.6038

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790939.2s
 DATE: November 07, 2006 10:46 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	1	NR	NR	NR	1
SLIC		0.500	0	0	0	NR	NR	0
Sacramento Co. CS		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
HIST UST		0.250	0	1	NR	NR	NR	1
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	1	NR	NR	NR	1
CHMIRS		TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
Sacramento Co. ML		0.250	1	0	NR	NR	NR	1
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0
EDR Historical Auto Stations		0.250	0	0	NR	NR	NR	0
EDR Historical Cleaners		0.250	0	0	NR	NR	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

1
NE
< 1/8
152 ft.

ALAMAR MARINA
5999 GARDEN HWY
SACRAMENTO, CA 95837

Sacramento Co. ML

S102315467
N/A

Relative:
Higher

Sacramento Co. ML:
 FD: Not reported
 Billing Codes BP: 5203
 Billing Codes UST: 5411
 WG Bill Code: 5411
 Target Property Bill Cod: Not reported
 Food Bill Code: Not reported
 CUPA Permit Date: Not reported
 HAZMAT Permit Date: Not reported
 HAZMAT Inspection Date: Not reported
 Hazmat Date BP Received: Not reported
 UST Permit Dt: Not reported
 UST Inspection Date: Not reported
 UST Tank Test Date: Not reported
 Number of Tanks: 1
 Facility Id: Not reported
 UST Tank Test Date: Not reported
 SIC Code: Not reported
 Tier Permitting: Not reported
 Risk Mgmt Protection Program: Not reported

Actual:
30 ft.

A2
SE
1/8-1/4
781 ft.

IHDE-L-ACRES
5870 GARDEN HWY
SACRAMENTO, CA 95837

HIST UST

U001615986
N/A

Site 1 of 2 in cluster A

Relative:
Higher

HIST UST:
 Region: STATE
 Facility ID: 00000038141
 Tank Num: 001
 Container Num: 1
 Year Installed: Not reported
 Tank Capacity: 00000100
 Facility Type: Other
 Other Type: FARM
 Total Tanks: 0001
 Tank Used for: PRODUCT
 Type of Fuel: DIESEL
 Tank Construction: Not reported
 Leak Detection: Visual, Stock Inventor
 Contact Name: Not reported
 Telephone: 9169252004
 Owner Name: WILLIAM C. IHDE
 Owner Address: 5870 GARDEN HWY.
 Owner City,St,Zip: SACRAMENTO, CA 95837

Actual:
28 ft.

MAP FINDINGS

Map ID
 Direction
 Distance
 Distance (ft.)
 Elevation

Site

Database(s)

EDR ID Number
 EPA ID Number

A3 **IHDE-L-ACRES**
SE **5870 GARDEN HWY**
1/8-1/4 **SACRAMENTO, CA 95837**
781 ft.

CA FID UST **S101628554**
SWEEPS UST **N/A**

Site 2 of 2 in cluster A

Relative:
Higher

CA FID UST:

Actual:
28 ft.

Facility ID: 34007094
 Regulated By: UTNKA
 Regulated ID: 00038141
 Cortese Code: Not reported
 SIC Code: Not reported
 Facility Phone: 9169252004
 Mail To: Not reported
 Mailing Address: 5870 GARDEN HWY
 Mailing Address 2: Not reported
 Mailing City,St,Zip: SACRAMENTO 95837
 Contact: Not reported
 Contact Phone: Not reported
 DUNS Number: Not reported
 NPDES Number: Not reported
 EPA ID: Not reported
 Comments: Not reported
 Status: Active

SWEEPS UST:

Status: A
 Comp Number: 38141
 Number: 9
 Board Of Equalization: Not reported
 Ref Date: 07-01-85
 Act Date: Not reported
 Created Date: 02-29-88
 Tank Status: A
 Owner Tank Id: 1
 Swrcb Tank Id: 34-000-038141-000001
 Actv Date: 07-01-85
 Capacity: 100
 Tank Use: M.V. FUEL
 Stg: P
 Content: DIESEL
 Number Of Tanks: 1

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LINCOLN	A100281853	JAY DEE TRANSPORT CO.	1445 HIGHWAY 65	95691	AST
SACRAMENTO	S101628062	H. ISHIMOTO FARMS	2645 HIGHWAY 16	95691	CA FID UST, SWEEPS UST
SACRAMENTO	S106486535	SACRAMENTO-YOLO MOSQUITO & VECTOR	EL CAMINO AVENUE / HIGHWAY B		SLIC
SACRAMENTO	S106599808	CALTRANS	FRUITRIDGE RD/HWY 99		Sacramento Co. CS
SACRAMENTO	S103675000	SACRAMENTO COUNTY PUBLIC WORKS	8805 HARDEN HWY	95837	HAZNET
SACRAMENTO	2005633875	1570 SOUTH RIVER RD	1570 SOUTH RIVER RD		ERNS
WEST SACRAMENTO	U001614191	FRANK L. LANG	HWY 16 BOX 2630	95691	HIST UST
WEST SACRAMENTO	U001614174	CLARENCE MATTOS	PO BOX 2535-HWY 16	95691	HIST UST
WEST SACRAMENTO	U003895156	LIGHTHOUSE MARINA	136 S RIVER RD	95691	UST
WEST SACRAMENTO	U004003775	LIGHTHOUSE MARINA & RIVERBEND	S RIVER RD & CR 136	95691	UST
WEST SACRAMENTO	U004003744	J R MCCRAY PLASTERING INC	S RIVER RD RT 85	95691	UST
SAC	U001614199	H. ISHIMOTO FARMS	2645 HWY 16	95691	HIST UST
SACRAMENTO	87946	AIR FORCE DOCK FACILITY ON SACRAME	AIR FORCE DOCK FACILITY ON SAC		ERNS
SACRAMENTO	S102803824	SACRAMENTO CITY U.S.D. ALBERT EINS	ALBERT EINSTIEN MIDDLE SCHOOL		HAZNET
SACRAMENTO	8716637	AMERICAN RIVER/N. OF: X SACRAMENTO	AMERICAN RIVER/N. OF: X SACRAM		ERNS
SACRAMENTO	8857124	IN AMERICAN RIVER NR:5TH ST	IN AMERICAN RIVER NR:5TH ST		ERNS
SACRAMENTO	93333011	AMERICAN RIVER FISH HATCHERY	AMERICAN RIVER FISH HATCHERY		ERNS
SACRAMENTO	2000540781	AMERICAN RIVER	AMERICAN RIVER		ERNS
SACRAMENTO	S106782284	CITY OF SACRAMENTO	I-5 AT SAN JUAN AVE		Sacramento Co. CS
SACRAMENTO	8863780	BERTH 1;PORT OF SACRAMENTO	BERTH 1;PORT OF SACRAMENTO		ERNS

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Historical Auto Stations: EDR Proprietary Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR Historical Cleaners: EDR Proprietary Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 30

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006	Source: Health Care Agency
Date Data Arrived at EDR: 09/20/2006	Telephone: 714-834-3446
Date Made Active in Reports: 10/20/2006	Last EDR Contact: 09/06/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 08/30/2006	Source: Placer County Health and Human Services
Date Data Arrived at EDR: 08/31/2006	Telephone: 530-889-7312
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/14/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/19/2006
	Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006	Source: Department of Public Health
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006	Source: Health Services Agency
Date Data Arrived at EDR: 08/08/2006	Telephone: 951-358-5055
Date Made Active in Reports: 09/18/2006	Last EDR Contact: 10/16/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006	Source: Sacramento County Environmental Management
Date Data Arrived at EDR: 08/18/2006	Telephone: 916-875-8406
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 11/03/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/05/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/25/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 09/22/2006	Telephone: 805-654-2813
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006	Source: Environmental Health Division
Date Data Arrived at EDR: 07/27/2006	Telephone: 805-654-2813
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 07/06/2006
Date Made Active in Reports: 08/01/2006
Number of Days to Update: 26

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/16/2006
Number of Days to Update: 47

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 06/06/2006
Number of Days to Update: 81

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005
Date Data Arrived at EDR: 05/09/2006
Date Made Active in Reports: 05/24/2006
Number of Days to Update: 15

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/18/2006
Data Release Frequency: Annually

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 03/17/2006
Date Made Active in Reports: 05/02/2006
Number of Days to Update: 46

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation
Telephone: (800) 823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.
Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 68.9
RIVERMILE 68.9
SACRAMENTO, CA 95837

TARGET PROPERTY COORDINATES

Latitude (North):	38.65670 - 38° 39' 24.1"
Longitude (West):	121.6038 - 121° 36' 13.7"
Universal Transverse Mercator:	Zone 10
UTM X (Meters):	621487.2
UTM Y (Meters):	4279399.0
Elevation:	0 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38121-F5 TAYLOR MONUMENT, CA
Most Recent Revision:	1980
West Map:	38121-F6 GRAYS BEND, CA
Most Recent Revision:	1980

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

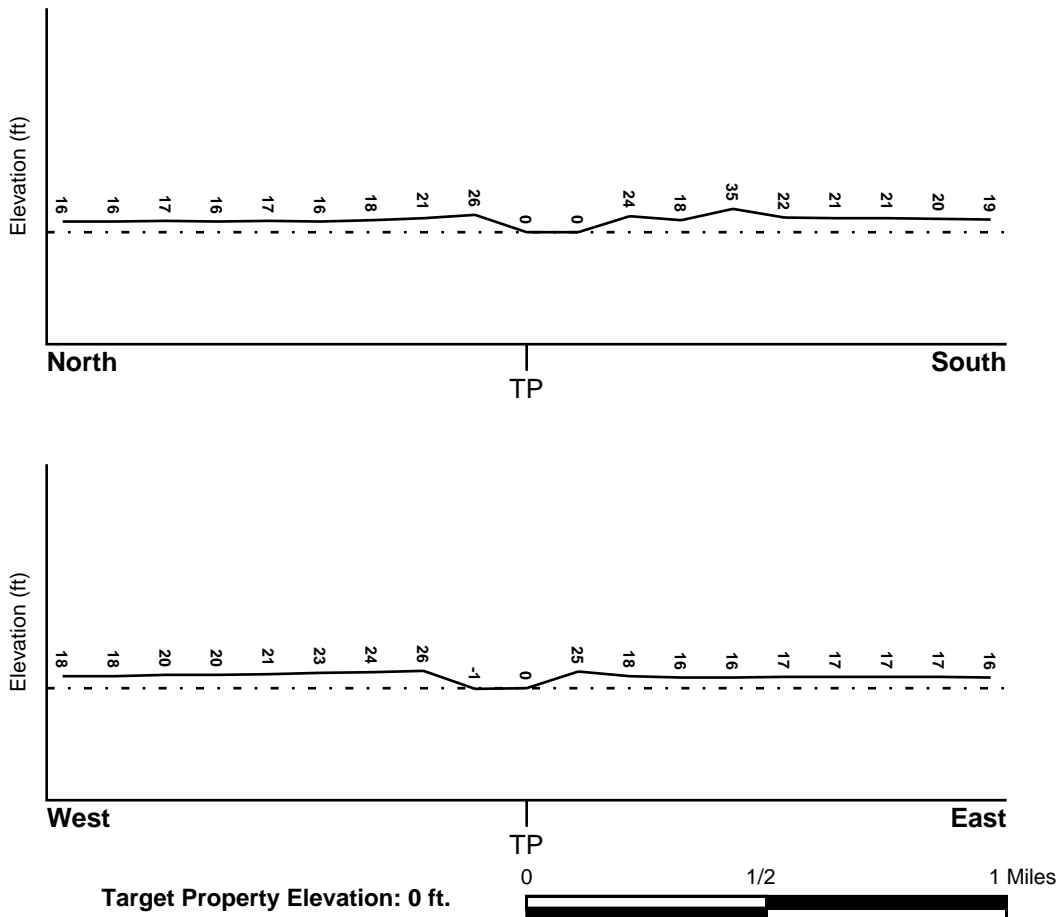
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General NE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SACRAMENTO, CA	<u>FEMA Flood Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0602620040D
Additional Panels in search area:	0604230475C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> TAYLOR MONUMENT	<u>NWI Electronic Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

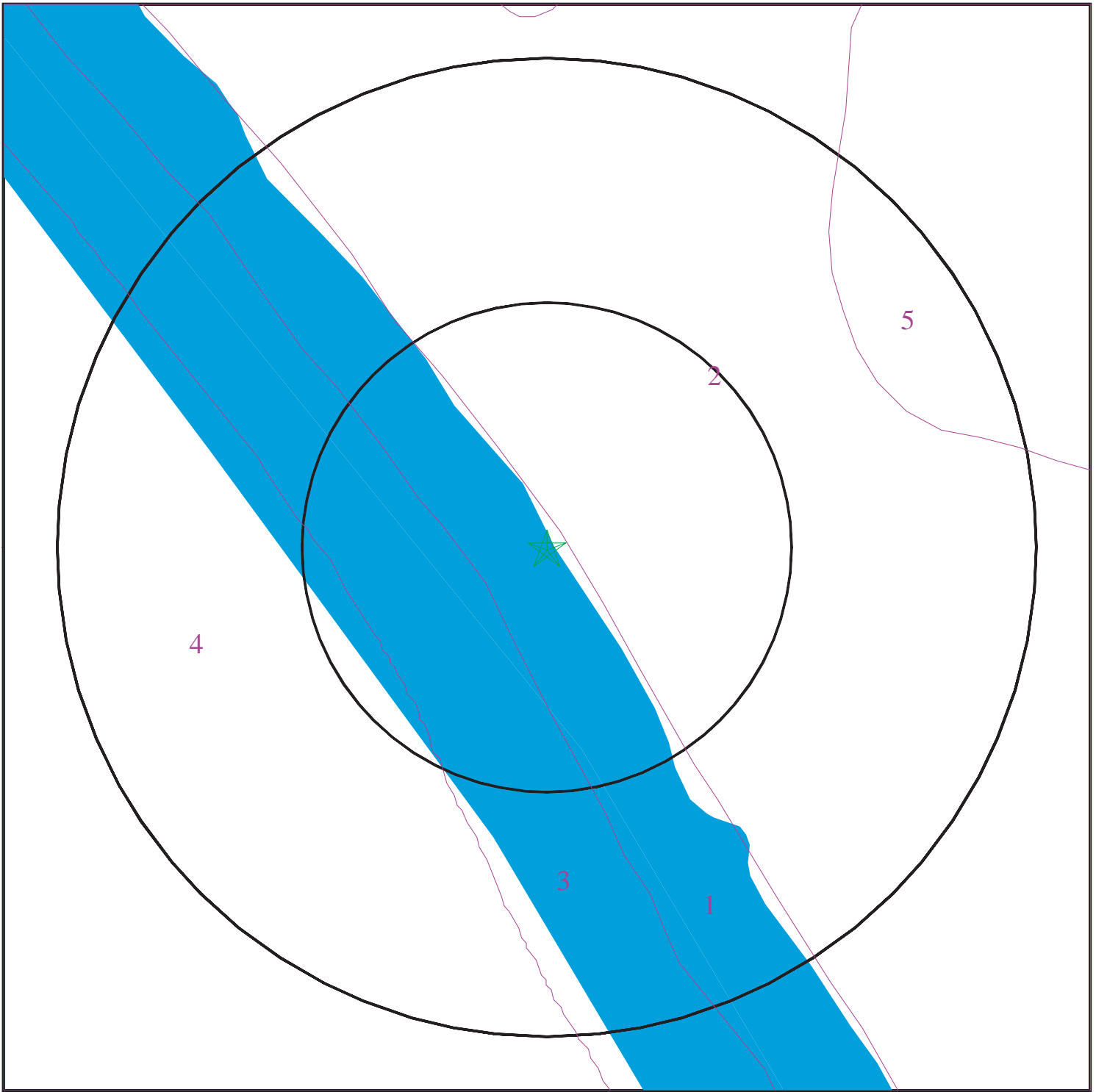
Era: Cenozoic
System: Quaternary
Series: Quaternary
Code: Q (*decoded above as Era, System & Series*)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790939.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sacramento River RiverMile 68.9
ADDRESS: RiverMile 68.9
SACRAMENTO CA 95837
LAT/LONG: 38.6567 / 121.6038

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790939.2s
DATE: November 07, 2006 10:47 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER
Soil Surface Texture: Not reported
Hydrologic Group: Not reported
Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: SAILBOAT
Soil Surface Texture: silt loam
Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.
Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.30 Min: 6.10
2	16 inches	28 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 7.80 Min: 6.60
3	28 inches	34 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.40
4	34 inches	62 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40

Soil Map ID: 3

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 4

Soil Component Name: VALDEZ

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Poorly. Soils may have a saturated zone, a layer of low hydraulic conductivity, or seepage. Depth to water table is less than 1 foot.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 5.60
2	14 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 7.30 Min: 5.60
3	40 inches	60 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.10

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 5

Soil Component Name: COSUMNES

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	8 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	8 inches	21 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 7.80 Min: 6.10
3	21 inches	43 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60
4	43 inches	60 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 8.40 Min: 6.60

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3225303	1/2 - 1 Mile West
2	USGS3225308	1/2 - 1 Mile West
3	USGS3225322	1/2 - 1 Mile WNW
4	USGS3225261	1/2 - 1 Mile SSE
5	USGS3225316	1/2 - 1 Mile WNW

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

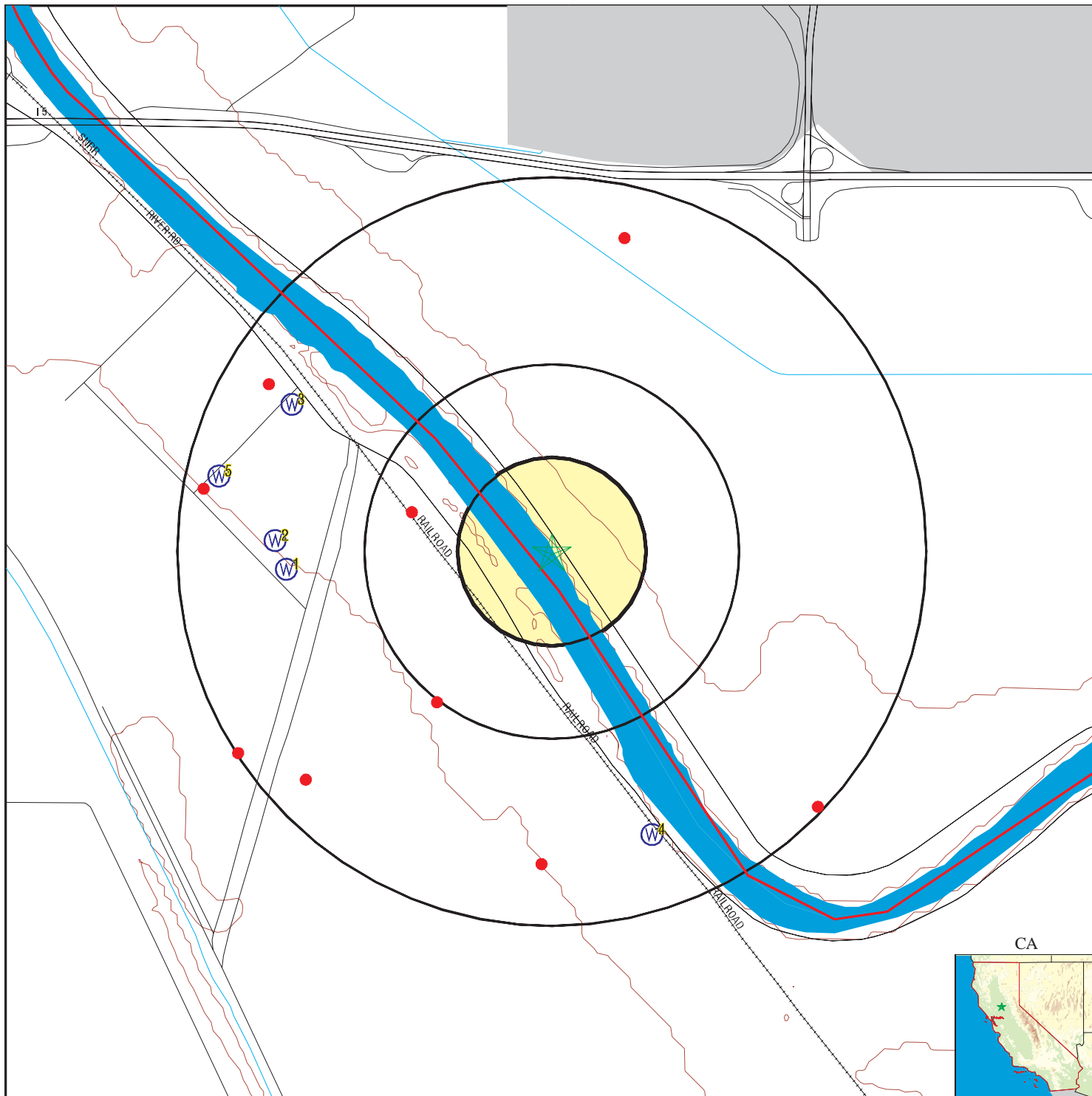
<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No Wells Found		

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

<u>DISTANCE FROM TP (Miles)</u>	<u>DISTANCE FROM TP (Miles)</u>
1/2 - 1 Mile NNE	1/2 - 1 Mile WNW
1/2 - 1 Mile West	1/4 - 1/2 Mile WNW
1/2 - 1 Mile SW	1/2 - 1 Mile WSW
1/2 - 1 Mile SW	1/2 - 1 Mile SE
1/2 - 1 Mile South	

PHYSICAL SETTING SOURCE MAP - 1790939.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons



- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Sacramento River RiverMile 68.9
 ADDRESS: RiverMile 68.9
 SACRAMENTO CA 95837
 LAT/LONG: 38.6567 / 121.6038

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790939.2s
 DATE: November 07, 2006 10:47 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

1
West
1/2 - 1 Mile
Higher

FED USGS USGS3225303

Agency cd:	USGS	Site no:	383922121365701
Site name:	009N003E02E002M		
Latitude:	383922		
Longitude:	1213657	Dec lat:	38.65601527
Dec lon:	-121.61690343	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	TAYLOR MONUMENT	Map scale:	24000
Altitude:	17.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19750430
Date inventoried:	19810713	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	273	Hole depth:	282
Source of depth data:	driller	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1975-04-30	Ground water data end date:	1975-04-30
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1975-04-30	11.40	

2
West
1/2 - 1 Mile
Higher

FED USGS USGS3225308

Agency cd:	USGS	Site no:	383926121365901
Site name:	009N003E02E001M		
Latitude:	383926		
Longitude:	1213659	Dec lat:	38.65712636
Dec lon:	-121.61745901	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	TAYLOR MONUMENT	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	17.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19630816
Date inventoried:	19810713	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	RIVER CHANNEL DEPOSITS		
Well depth:	140	Hole depth:	151
Source of depth data:	driller	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1981-09-01
Water quality data end date:	1981-09-01	Water quality data count:	1
Ground water data begin date:	1981-07-13	Ground water data end date:	1981-07-13
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1981-07-13	22.7	

3
WNW
1/2 - 1 Mile
Higher

FED USGS USGS3225322

Agency cd:	USGS	Site no:	383945121365601
Site name:	010N003E35N001M		
Latitude:	383945		
Longitude:	1213656	Dec lat:	38.66240404
Dec lon:	-121.61662569	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	TAYLOR MONUMENT	Map scale:	24000
Altitude:	18.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19610223
Date inventoried:	19810714	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	175	Hole depth:	175
Source of depth data:	driller	Project number:	8479423711
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

Database EDR ID Number

4
SSE
1/2 - 1 Mile
Higher

FED USGS USGS3225261

Agency cd:	USGS	Site no:	383845121355201
Site name:	009N003E12D001M		
Latitude:	383845		
Longitude:	1213552	Dec lat:	38.64573758
Dec lon:	-121.59884728	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	TAYLOR MONUMENT	Map scale:	24000
Altitude:	25.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19570628
Date inventoried:	19810714	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	100	Hole depth:	114
Source of depth data:	driller	Project number:	8479423711
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

5
WNW
1/2 - 1 Mile
Higher

FED USGS USGS3225316

Agency cd:	USGS	Site no:	383935121370901
Site name:	009N003E03A001M		
Latitude:	383935		
Longitude:	1213709	Dec lat:	38.65962634
Dec lon:	-121.62023689	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	TAYLOR MONUMENT	Map scale:	24000
Altitude:	17.00	Altitude method:	A
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19681021
Date inventoried:	19810714	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	160	Hole depth:	165
Source of depth data:	driller	Project number:	8479423711
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1968-10-21	Ground water data end date:	1968-10-21
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1968-10-21	10.00	

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NNE
1/2 - 1 Mile

OIL_GAS CA10182895

Apinumber:	06720233	Operator:	Venada National
Lease:	UC Regents	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.66894		
Longitude:	-121.59914		
Td:	3598	Sec:	1
Twn:	09N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

WNW
1/2 - 1 Mile

OIL_GAS CA10182878

Apinumber:	11320931	Operator:	Two Bay Petroleum
Lease:	Unit 1	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	024
Source:	hud		
Latitude:	38.66328		
Longitude:	-121.6167		
Td:	3708	Sec:	35
Twn:	10N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

West
1/2 - 1 Mile

OIL_GAS CA10182869

Apinumber:	11320309	Operator:	Atlantic Oil Co.
Lease:	Mattos	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	007
Source:	hud		
Latitude:	38.65923		
Longitude:	-121.61992		
Td:	4250	Sec:	3
Twn:	09N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

WNW
1/4 - 1/2 Mile

OIL_GAS CA10182862

Apinumber:	11320980	Operator:	Two Bay Petroleum
Lease:	Unit 2	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	007
Source:	hud		
Latitude:	38.65832		
Longitude:	-121.60964		
Td:	4060	Sec:	2
Twn:	09N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SW
1/2 - 1 Mile

OIL_GAS CA10182834

Apinumber:	11320161	Operator:	Natomas Co.
Lease:	Natomas-Tule Canal	Well no:	2-2
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	007
Source:	hud		
Latitude:	38.65096		
Longitude:	-121.6084		
Td:	4608	Sec:	2
Twn:	09N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

WSW
1/2 - 1 Mile

OIL_GAS CA10182828

Apinumber:	11320406	Operator:	Nahama & Weagant, Inc.
Lease:	Tule Canal	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.64899		
Longitude:	-121.61822		
Td:	4200	Sec:	3
Twn:	09N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

SW
1/2 - 1 Mile

OIL_GAS CA10182824

Apinumber:	11320226	Operator:	Atlantic Oil Co.
Lease:	Erwin	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	007
Source:	hud		
Latitude:	38.64796		
Longitude:	-121.61488		
Td:	4352	Sec:	2
Twn:	09N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

SE
1/2 - 1 Mile

OIL_GAS CA10182815

Apinumber:	06720047	Operator:	Mobil Expl. & Prod. N.A., Inc.
Lease:	A-H Fong	Well no:	1-7
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.64691		
Longitude:	-121.58959		
Td:	4500	Sec:	7
Twn:	09N	Rge:	04E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

South
1/2 - 1 Mile

OIL_GAS CA10182806

Apinumber:	11320430	Operator:	Nahama & Weagant, Inc.
Lease:	Transamerica	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.64469		
Longitude:	-121.60324		
Td:	4200	Sec:	11
Twn:	09N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SACRAMENTO County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SACRAMENTO COUNTY, CA

Number of sites tested: 52

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.665 pCi/L	100%	0%	0%
Living Area - 2nd Floor	0.200 pCi/L	100%	0%	0%
Basement	8.350 pCi/L	50%	50%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 68.9
RiverMile 68.9
SACRAMENTO, CA 95837**

Inquiry Number: 1790939.5

November 07, 2006



The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 68.9

SACRAMENTO, CA 95837

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1971	Aerial Photograph. Scale: 1"=333'	Flight Year: 1971	Cartwright
1981	Aerial Photograph. Scale: 1"=333'	Flight Year: 1981	Cartwright
1993	Aerial Photograph. Scale: 1"=666'	Flight Year: 1993	USGS
1999	Aerial Photograph. Scale: 1"=666'	Flight Year: 1999	USGS



INQUIRY #: 1790939.5

YEAR: 1952

| = 555'



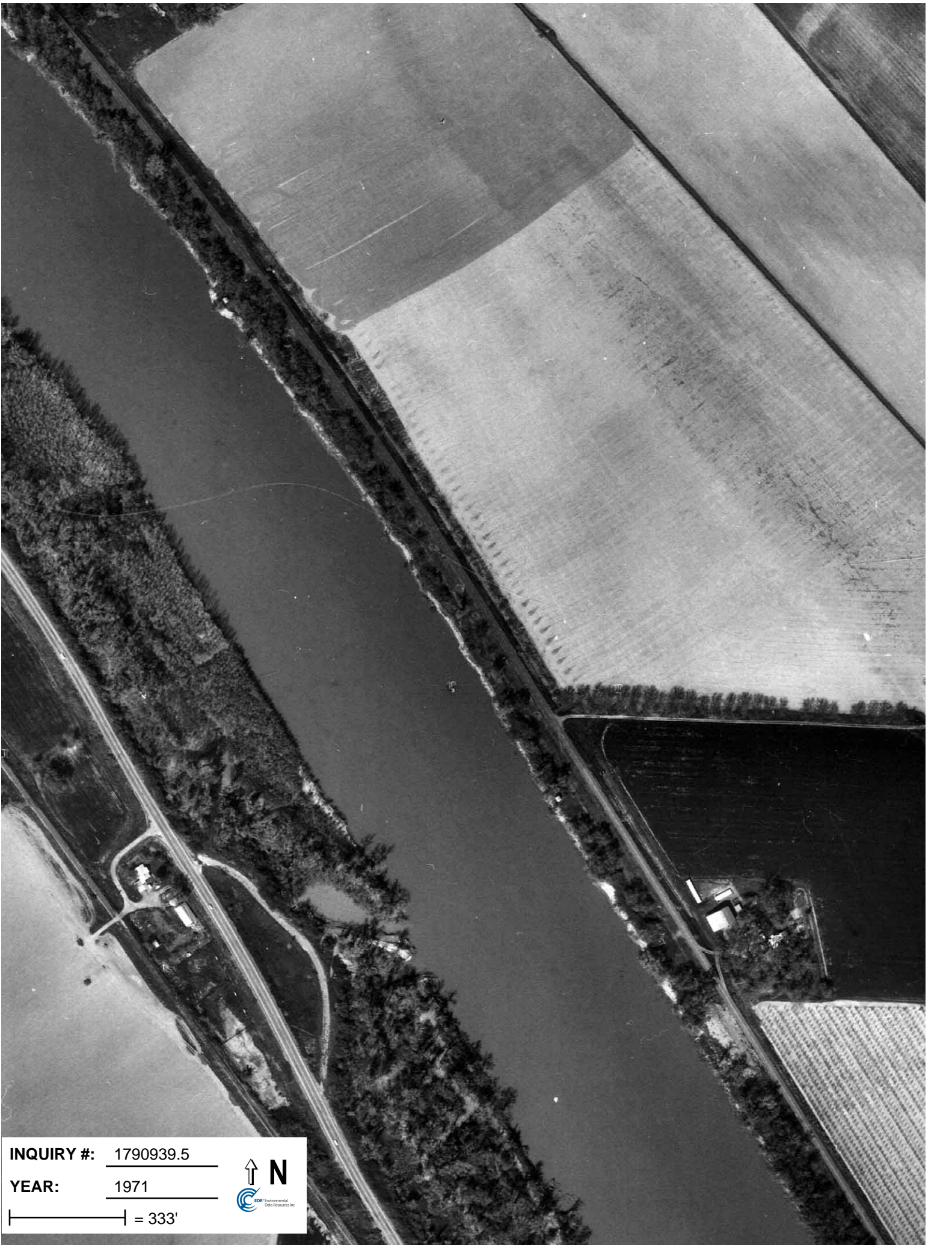


INQUIRY #: 1790939.5

YEAR: 1961

| = 555'





INQUIRY #: 1790939.5

YEAR: 1971

| = 333'





INQUIRY #: 1790939.5

YEAR: 1981

| = 333'





INQUIRY #: 1790939.5

YEAR: 1993

| = 666'





INQUIRY #: 1790939.5

YEAR: 1999

| = 666'



EDR Historical Topographic Map Report

**Sacramento River RiverMile 68.9
RiverMile 68.9
SACRAMENTO, CA 95837**

Inquiry Number: 1790939.4

November 07, 2006



EDR® Environmental
Data Resources Inc

The Standard in Environmental Risk Management Information

440 Wheelers Farms Rd
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

Thank you for your business.
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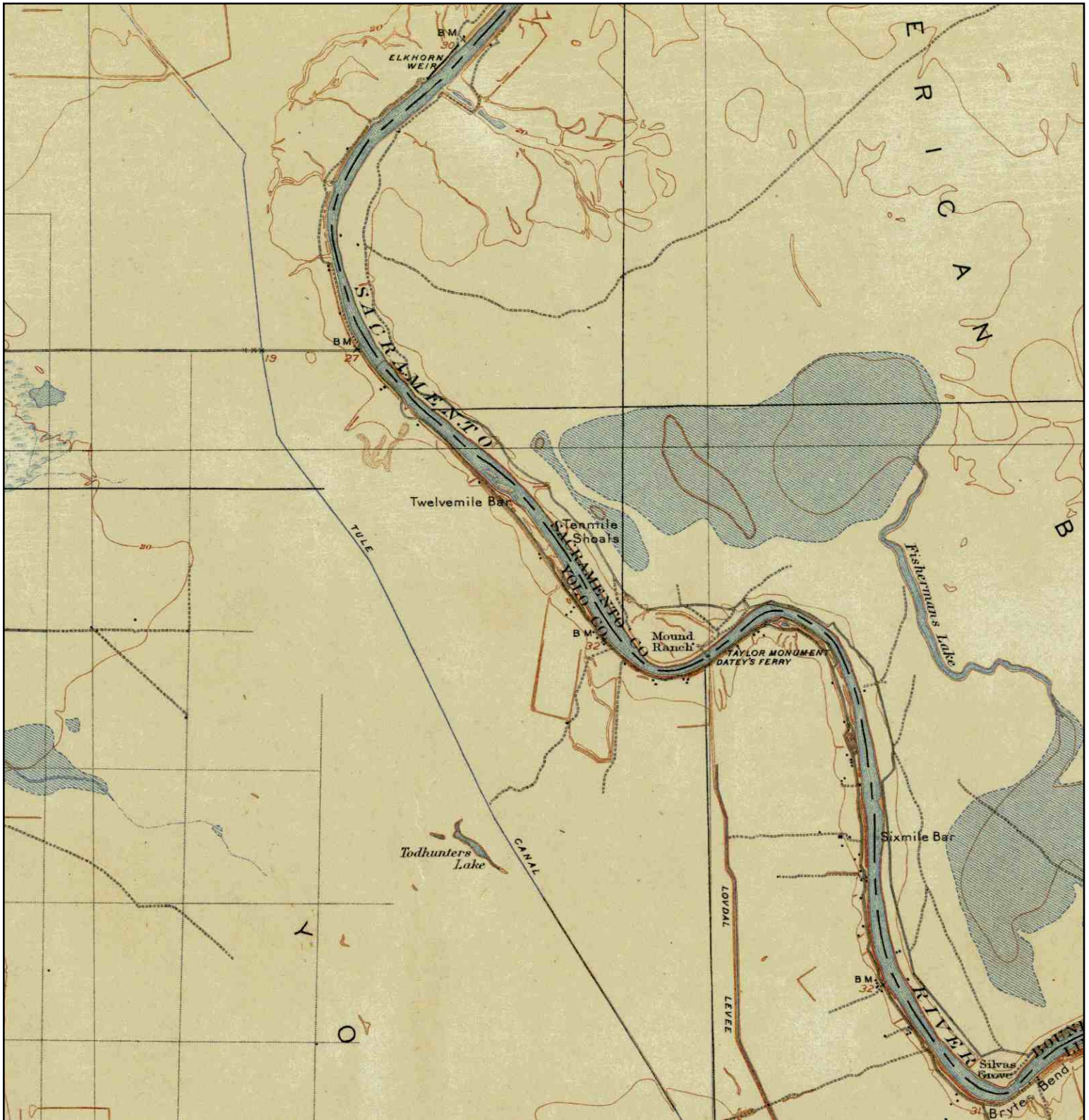
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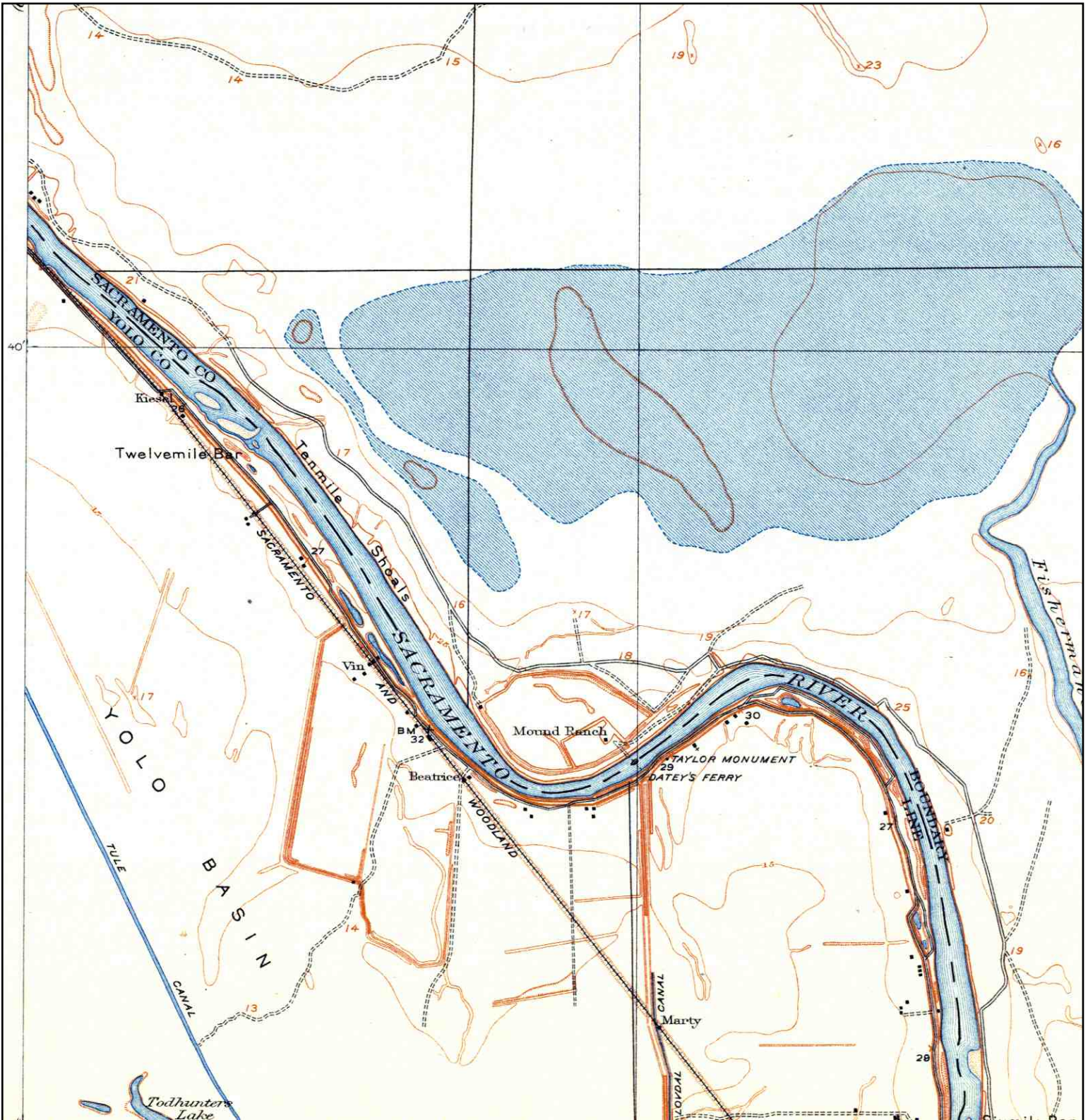
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Historical Topographic Map



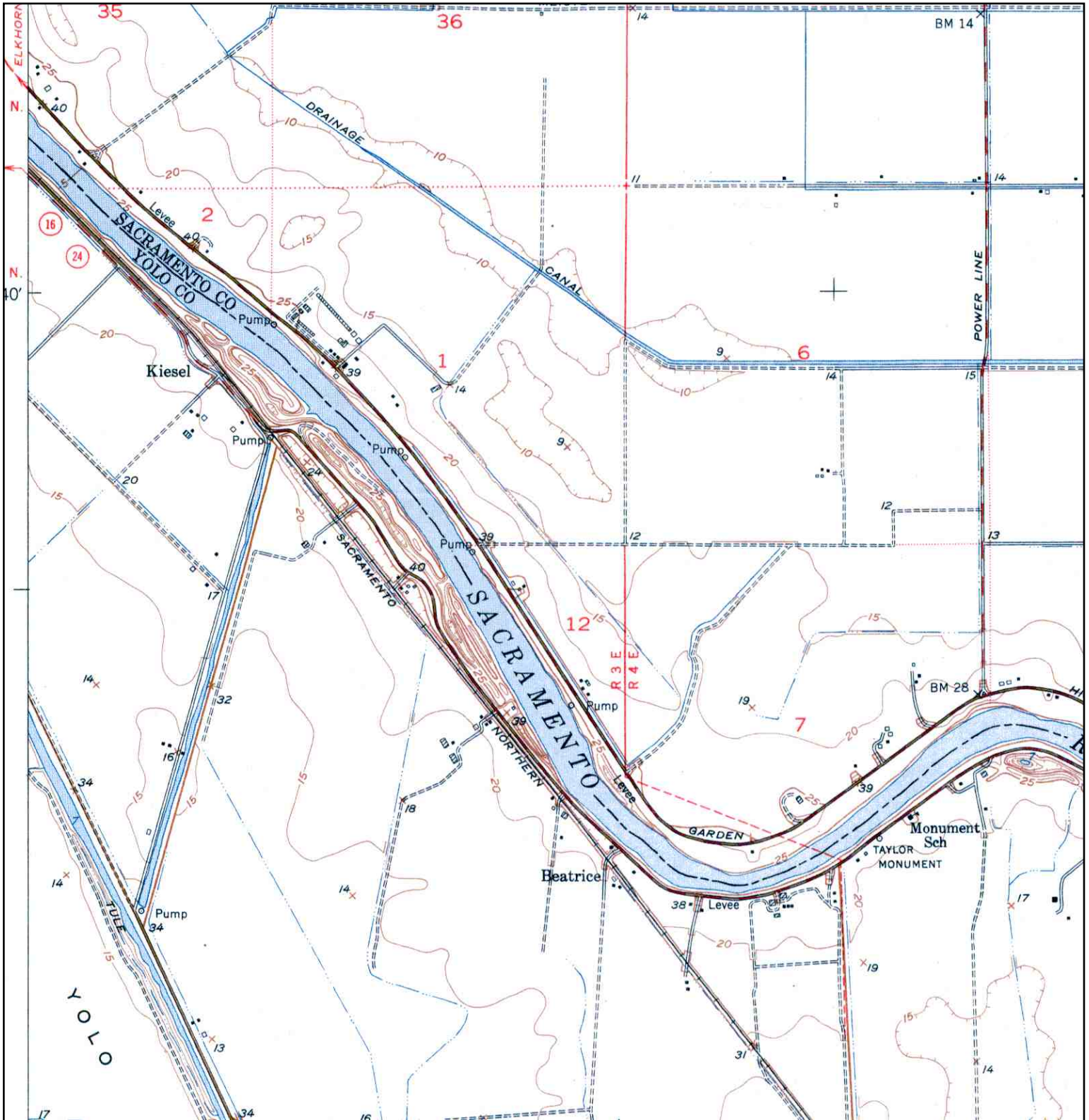
N 	TARGET QUAD NAME: DAVISVILLE MAP YEAR: 1907	SITE NAME: Sacramento River RiverMile 68.9 ADDRESS: RiverMile 68.9 SACRAMENTO, CA 95837	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790939.4 RESEARCH DATE: 11/07/2006
	SERIES: 15 SCALE: 1:62500	LAT/LONG: 38.6567 / 121.6038	

Historical Topographic Map



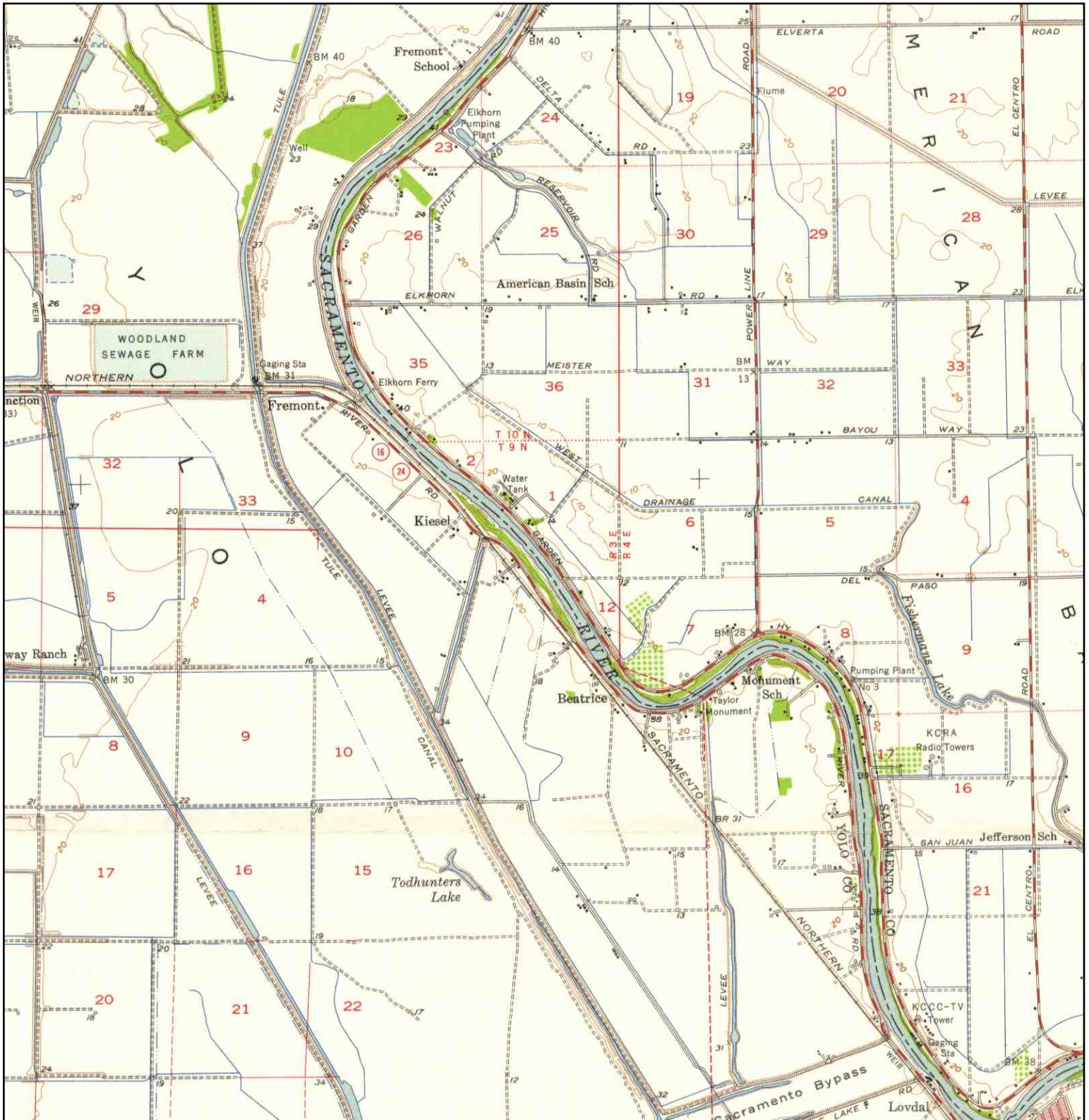
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 68.9	CLIENT:	MECx
	NAME: ELKHORN WEIR	ADDRESS:	RiverMile 68.9	CONTACT:	Robert Bell
	MAP YEAR: 1915		SACRAMENTO, CA 95837	INQUIRY#:	1790939.4
	SERIES: 7.5	LAT/LONG:	38.6567 / 121.6038	RESEARCH DATE:	11/07/2006
	SCALE: 1:31680				

Historical Topographic Map



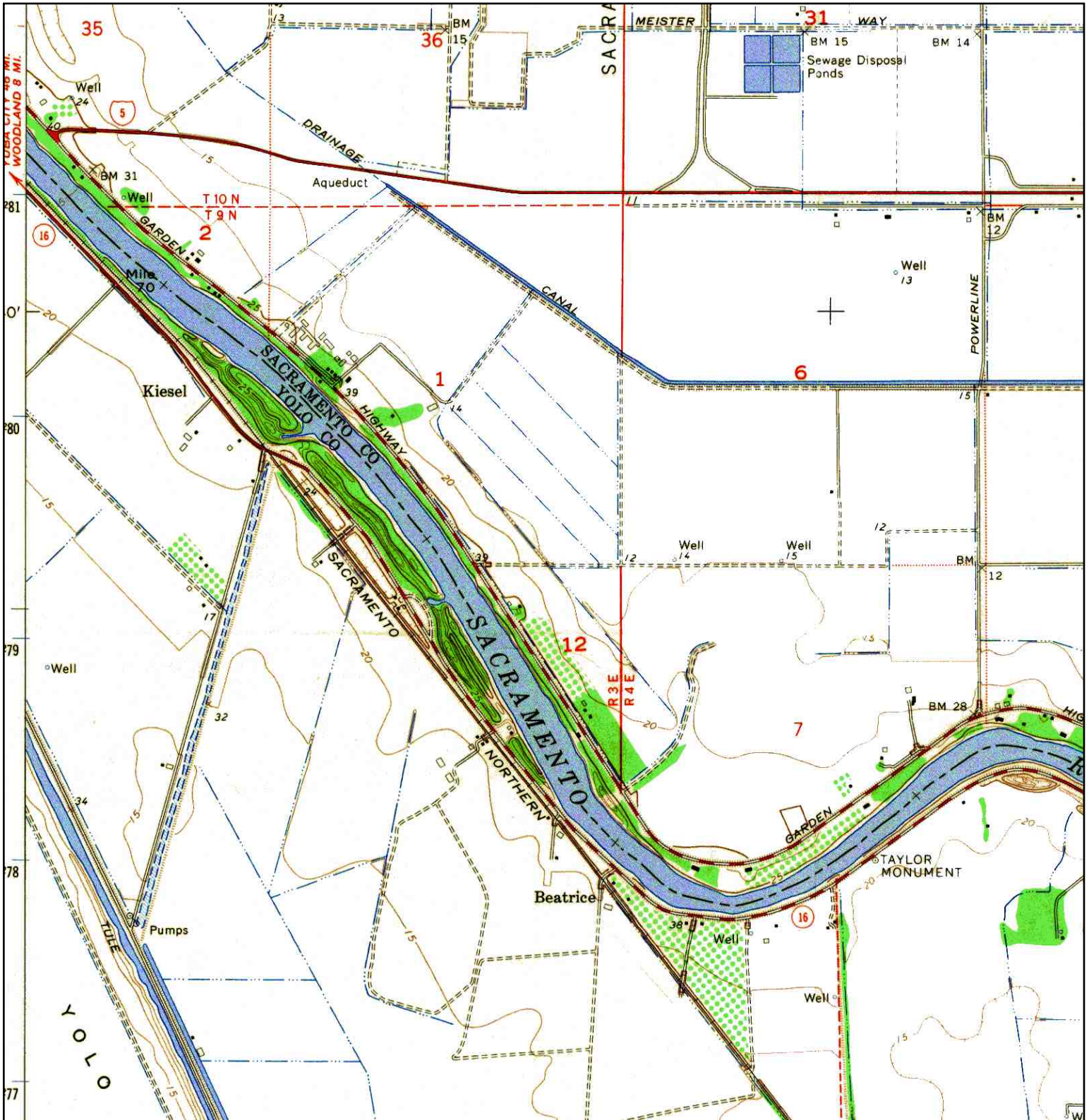
<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 68.9	CLIENT:	MECx	
	NAME:	TAYLOR MONUMENT	ADDRESS:	RiverMile 68.9	CONTACT:	Robert Bell
	MAP YEAR:	1951	SACRAMENTO, CA 95837	INQUIRY#:	1790939.4	
	SERIES:	7.5	LAT/LONG:	38.6567 / 121.6038	RESEARCH DATE:	11/07/2006
	SCALE:	1:24000				


Historical Topographic Map



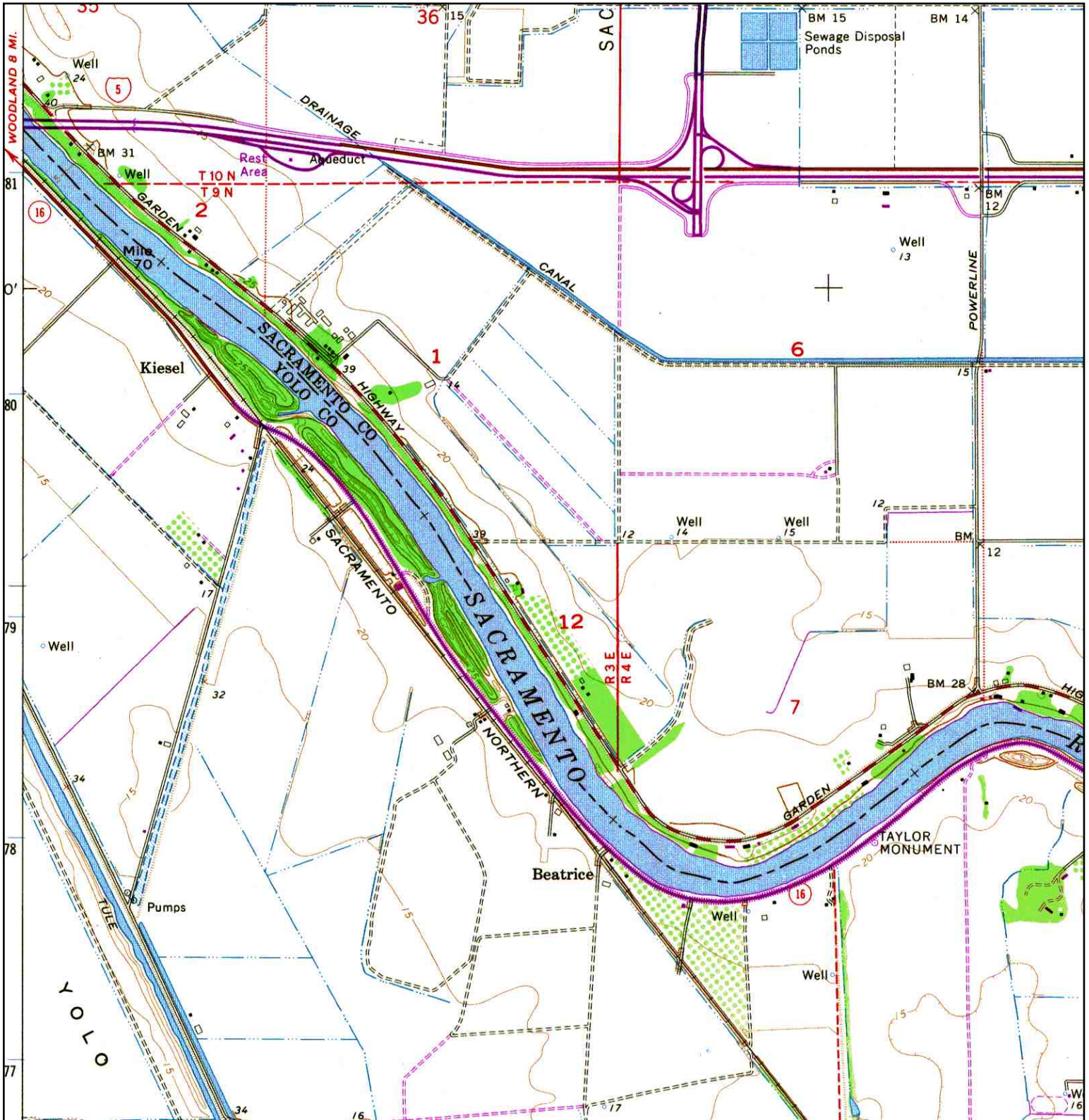
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile	CLIENT:	MECx	
	NAME: DAVIS	68.9	CONTACT:	Robert Bell		
	MAP YEAR: 1954	ADDRESS:	RiverMile 68.9	INQUIRY#:	1790939.4	
	SERIES: 15	SACRAMENTO, CA 95837	LAT/LONG:	38.6567 / 121.6038	RESEARCH DATE:	11/07/2006
	SCALE: 1:62500					

Historical Topographic Map



	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 68.9	CLIENT:	MECx
	NAME: TAYLOR MONUMENT	ADDRESS:	RiverMile 68.9	CONTACT:	Robert Bell
	MAP YEAR: 1967		SACRAMENTO, CA 95837	INQUIRY#:	1790939.4
	SERIES: 7.5	LAT/LONG:	38.6567 / 121.6038	RESEARCH DATE:	11/07/2006
	SCALE: 1:24000				

Historical Topographic Map



<p>N ↑</p>	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 68.9	CLIENT:	MECx	
	NAME:	TAYLOR MONUMENT	ADDRESS:	RiverMile 68.9	CONTACT:	Robert Bell
	MAP YEAR:	1975	SACRAMENTO, CA 95837	INQUIRY#:	1790939.4	
	PHOTOREVISED FROM:	1967	LAT/LONG:	38.6567 / 121.6038	RESEARCH DATE:	11/07/2006
	SERIES:	7.5				
	SCALE:	1:24000				

APPENDIX N

**EDR REPORT FOR SAC78.0L
AERIAL PHOTOGRAPHS
HISTORICAL TOPOGRAPHIC MAPS**



EDR® Environmental
Data Resources Inc

The EDR Radius Map with GeoCheck®

**Sacramento River RiverMile 78.0
RiverMile 78.0
PLEASANT GROVE, CA 95668**

Inquiry Number: 1790945.2s

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-05) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

RIVERMILE 78.0
PLEASANT GROVE, CA 95668

COORDINATES

Latitude (North): 38.769500 - 38° 46' 10.2"
Longitude (West): 121.595500 - 121° 35' 43.8"
Universal Transverse Mercator: Zone 10
UTM X (Meters): 622017.5
UTM Y (Meters): 4291927.5
Elevation: 12 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map: 38121-G5 VERONA, CA
Most Recent Revision: 1978

TARGET PROPERTY SEARCH RESULTS

The target property was not listed in any of the databases searched by EDR.

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

FEDERAL RECORDS

NPL..... National Priority List
Proposed NPL..... Proposed National Priority List Sites
Delisted NPL..... National Priority List Deletions
NPL RECOVERY..... Federal Superfund Liens
CERCLIS..... Comprehensive Environmental Response, Compensation, and Liability Information System
CERC-NFRAP..... CERCLIS No Further Remedial Action Planned
CORRACTS..... Corrective Action Report
RCRA-TSDF..... Resource Conservation and Recovery Act Information
RCRA-LQG..... Resource Conservation and Recovery Act Information

EXECUTIVE SUMMARY

RCRA-SQG	Resource Conservation and Recovery Act Information
ERNS	Emergency Response Notification System
HMIRS	Hazardous Materials Information Reporting System
US ENG CONTROLS	Engineering Controls Sites List
US INST CONTROL	Sites with Institutional Controls
DOD	Department of Defense Sites
FUDS	Formerly Used Defense Sites
US BROWNFIELDS	A Listing of Brownfields Sites
CONSENT	Superfund (CERCLA) Consent Decrees
ROD	Records Of Decision
UMTRA	Uranium Mill Tailings Sites
ODI	Open Dump Inventory
TRIS	Toxic Chemical Release Inventory System
TSCA	Toxic Substances Control Act
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
SSTS	Section 7 Tracking Systems
ICIS	Integrated Compliance Information System
PADS	PCB Activity Database System
MLTS	Material Licensing Tracking System
MINES	Mines Master Index File
FINDS	Facility Index System/Facility Registry System
RAATS	RCRA Administrative Action Tracking System

STATE AND LOCAL RECORDS

HIST Cal-Sites	Historical Calsites Database
CA BOND EXP. PLAN	Bond Expenditure Plan
SCH	School Property Evaluation Program
Toxic Pits	Toxic Pits Cleanup Act Sites
SWF/LF	Solid Waste Information System
CA WDS	Waste Discharge System
WMUDS/SWAT	Waste Management Unit Database
Cortese	"Cortese" Hazardous Waste & Substances Sites List
SWRCY	Recycler Database
LUST	Geotracker's Leaking Underground Fuel Tank Report
CA FID UST	Facility Inventory Database
SLIC	Statewide SLIC Cases
UST	Active UST Facilities
HIST UST	Hazardous Substance Storage Container Database
AST	Aboveground Petroleum Storage Tank Facilities
SWEEPS UST	SWEEPS UST Listing
CHMIRS	California Hazardous Material Incident Report System
Notify 65	Proposition 65 Records
DEED	Deed Restriction Listing
VCP	Voluntary Cleanup Program Properties
CLEANERS	Cleaner Facilities
WIP	Well Investigation Program Case List
CDL	Clandestine Drug Labs
RESPONSE	State Response Sites
HAZNET	Facility and Manifest Data
EMI	Emissions Inventory Data
ENVIROSTOR	EnviroStor Database

TRIBAL RECORDS

INDIAN RESERV	Indian Reservations
----------------------	---------------------

EXECUTIVE SUMMARY

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land
INDIAN UST..... Underground Storage Tanks on Indian Land

EDR PROPRIETARY RECORDS

Manufactured Gas Plants... EDR Proprietary Manufactured Gas Plants

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were not identified.

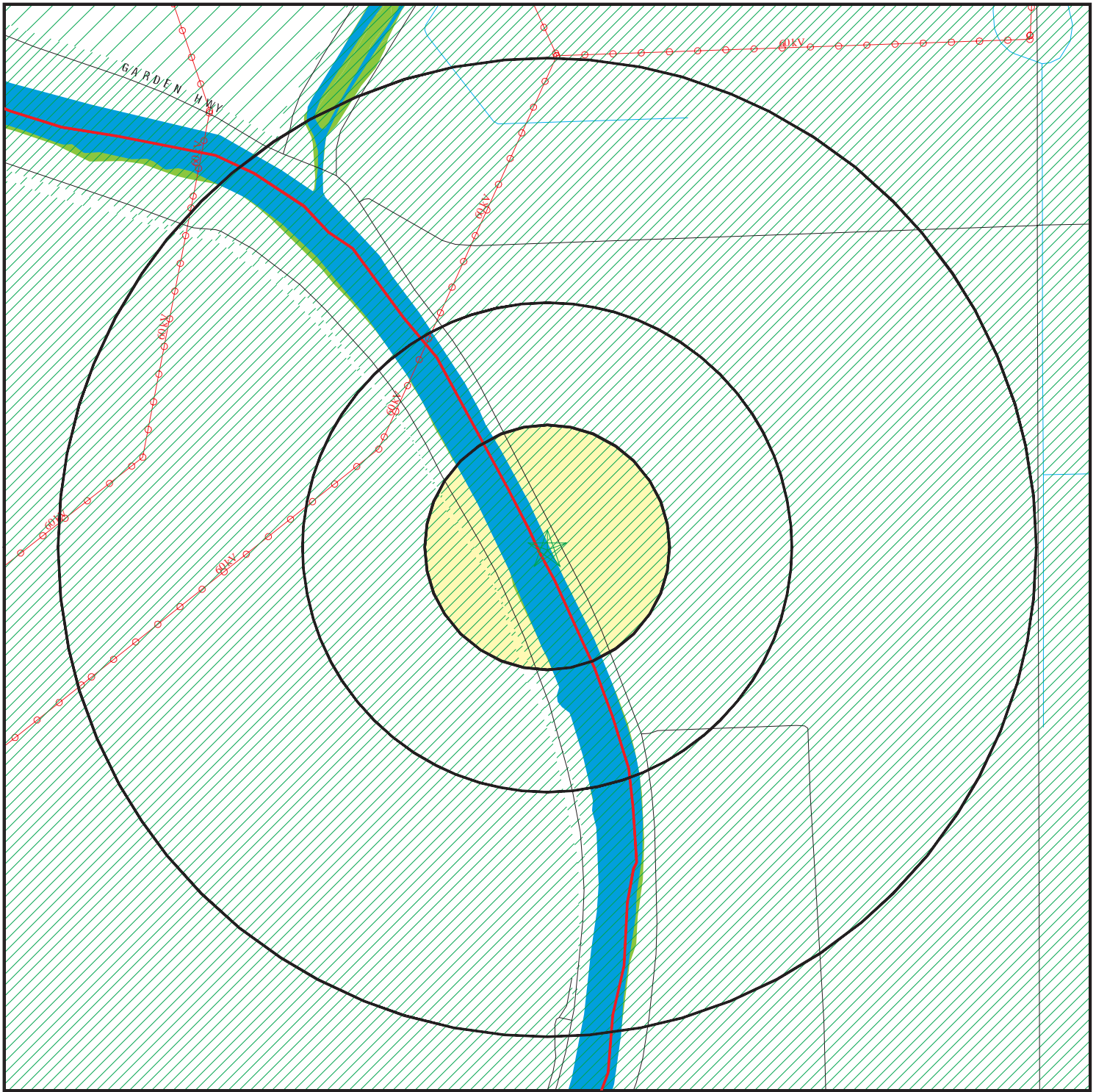
Unmappable (orphan) sites are not considered in the foregoing analysis.

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped:

<u>Site Name</u>	<u>Database(s)</u>
H. ISHIMOTO FARMS	CA FID UST, SWEEPS UST
TERMINIX INTERNATIONAL, INC.	UST
SACRAMENTO AUTO TRUCK CO	UST
J R MCCRAY PLASTERING INC	UST
H. ISHIMOTO FARMS	HIST UST
FRANK L. LANG	HIST UST
CLARENCE MATTOS	HIST UST
DESERET FARMS	HIST UST
JAY DEE TRANSPORT CO.	AST
RIAGO RD 0.8 MI W OF SR 99	ERNS
WEST SACRAMENTO DRAINAGE DITCH	US BROWNFIELDS
WEST SACRAMENTO LIBRARY	US BROWNFIELDS
ONSTOTT DUSTERS	ENVIROSTOR

OVERVIEW MAP - 1790945.2s



★ Target Property

▲ Sites at elevations higher than or equal to the target property

◆ Sites at elevations lower than the target property

▲ Manufactured Gas Plants

■ National Priority List Sites

■ Landfill Sites

■ Dept. Defense Sites

■ Indian Reservations BIA

— County Boundary

— Power transmission lines

— Oil & Gas pipelines

■ 100-year flood zone

■ 500-year flood zone

■ National Wetland Inventory

■ Areas of Concern

0 1/4 1/2 1 Miles

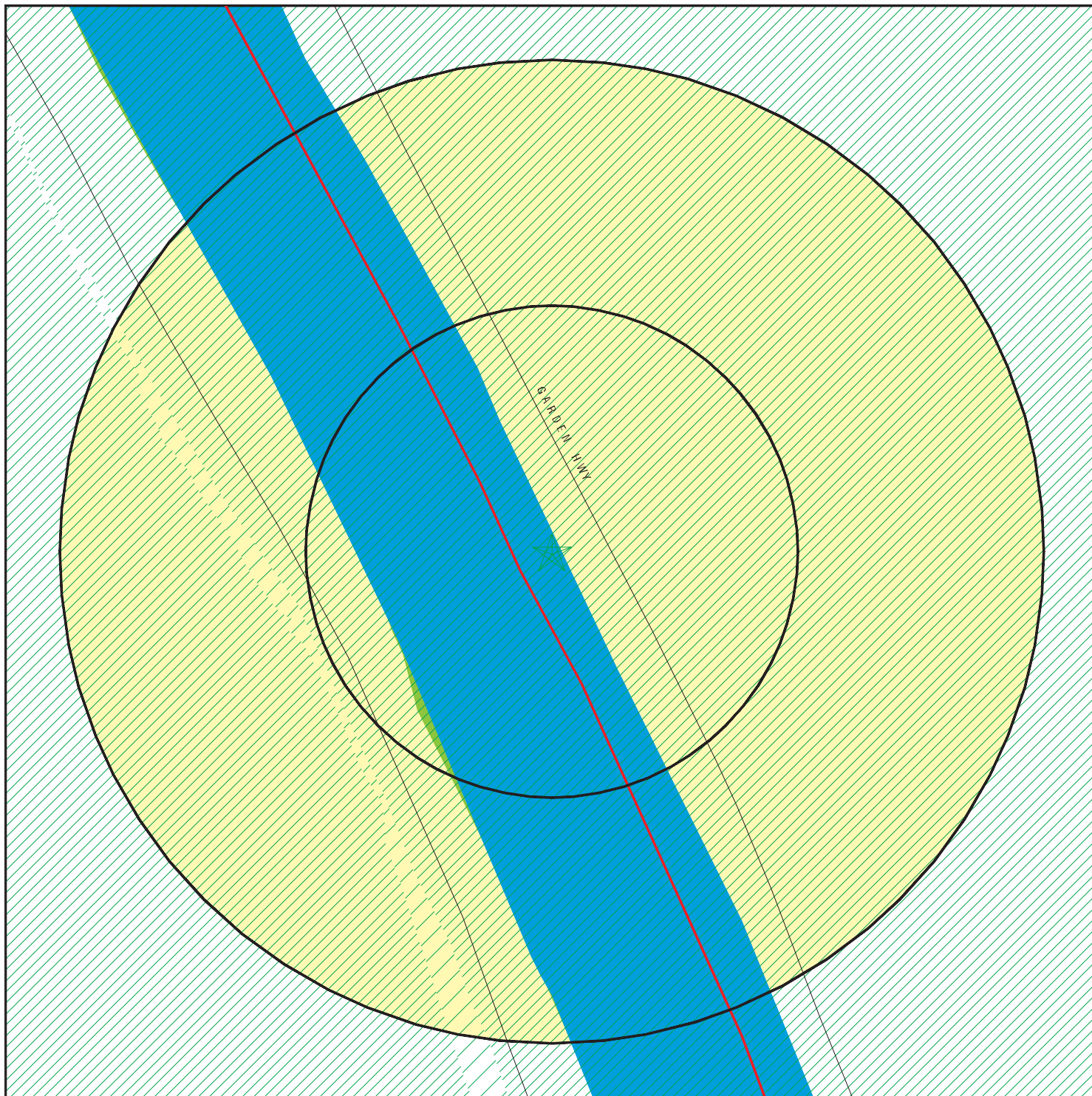


This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

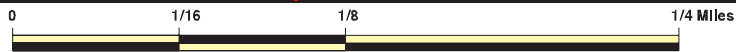
SITE NAME: Sacramento River RiverMile 78.0
 ADDRESS: RiverMile 78.0
 PLEASANT GROVE CA 95668
 LAT/LONG: 38.7695 / 121.5955

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790945.2s
 DATE: November 07, 2006 10:45 am

DETAIL MAP - 1790945.2s



- ★ Target Property
- ▲ Sites at elevations higher than or equal to the target property
- ◆ Sites at elevations lower than the target property
- ▲ Manufactured Gas Plants
- Sensitive Receptors
- National Priority List Sites
- Landfill Sites
- Dept. Defense Sites
- Indian Reservations BIA
- ▲ County Boundary
- ▲ Oil & Gas pipelines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- Areas of Concern



This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Sacramento River RiverMile 78.0
 ADDRESS: RiverMile 78.0
 PLEASANT GROVE CA 95668
 LAT/LONG: 38.7695 / 121.5955

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790945.2s
 DATE: November 07, 2006 10:45 am

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
<u>FEDERAL RECORDS</u>								
NPL		1.000	0	0	0	0	NR	0
Proposed NPL		1.000	0	0	0	0	NR	0
Delisted NPL		1.000	0	0	0	0	NR	0
NPL RECOVERY	TP		NR	NR	NR	NR	NR	0
CERCLIS		0.500	0	0	0	NR	NR	0
CERC-NFRAP		0.500	0	0	0	NR	NR	0
CORRACTS		1.000	0	0	0	0	NR	0
RCRA TSD		0.500	0	0	0	NR	NR	0
RCRA Lg. Quan. Gen.		0.250	0	0	NR	NR	NR	0
RCRA Sm. Quan. Gen.		0.250	0	0	NR	NR	NR	0
ERNS	TP		NR	NR	NR	NR	NR	0
HMIRS	TP		NR	NR	NR	NR	NR	0
US ENG CONTROLS		0.500	0	0	0	NR	NR	0
US INST CONTROL		0.500	0	0	0	NR	NR	0
DOD		1.000	0	0	0	0	NR	0
FUDS		1.000	0	0	0	0	NR	0
US BROWNFIELDS		0.500	0	0	0	NR	NR	0
CONSENT		1.000	0	0	0	0	NR	0
ROD		1.000	0	0	0	0	NR	0
UMTRA		0.500	0	0	0	NR	NR	0
ODI		0.500	0	0	0	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
MINES		0.250	0	0	NR	NR	NR	0
FINDS	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
<u>STATE AND LOCAL RECORDS</u>								
Hist Cal-Sites		1.000	0	0	0	0	NR	0
CA Bond Exp. Plan		1.000	0	0	0	0	NR	0
SCH		0.250	0	0	NR	NR	NR	0
Toxic Pits		1.000	0	0	0	0	NR	0
State Landfill		0.500	0	0	0	NR	NR	0
CA WDS	TP		NR	NR	NR	NR	NR	0
WMUDS/SWAT		0.500	0	0	0	NR	NR	0
Cortese		0.500	0	0	0	NR	NR	0
SWRCY		0.500	0	0	0	NR	NR	0
LUST		0.500	0	0	0	NR	NR	0
CA FID UST		0.250	0	0	NR	NR	NR	0
SLIC		0.500	0	0	0	NR	NR	0
UST		0.250	0	0	NR	NR	NR	0
HIST UST		0.250	0	0	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Target Property	Search Distance (Miles)	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
AST		0.250	0	0	NR	NR	NR	0
SWEEPS UST		0.250	0	0	NR	NR	NR	0
CHMIRS		TP	NR	NR	NR	NR	NR	0
Notify 65		1.000	0	0	0	0	NR	0
DEED		0.500	0	0	0	NR	NR	0
VCP		0.500	0	0	0	NR	NR	0
DRYCLEANERS		0.250	0	0	NR	NR	NR	0
WIP		0.250	0	0	NR	NR	NR	0
CDL		TP	NR	NR	NR	NR	NR	0
RESPONSE		1.000	0	0	0	0	NR	0
HAZNET		TP	NR	NR	NR	NR	NR	0
EMI		TP	NR	NR	NR	NR	NR	0
ENVIROSTOR		1.000	0	0	0	0	NR	0
<u>TRIBAL RECORDS</u>								
INDIAN RESERV		1.000	0	0	0	0	NR	0
INDIAN LUST		0.500	0	0	0	NR	NR	0
INDIAN UST		0.250	0	0	NR	NR	NR	0
<u>EDR PROPRIETARY RECORDS</u>								
Manufactured Gas Plants		1.000	0	0	0	0	NR	0

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

Map ID
Direction
Distance
Distance (ft.)
Elevation

MAP FINDINGS

Site

Database(s)

EDR ID Number
EPA ID Number

NO SITES FOUND

ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
LINCOLN	A100281853	JAY DEE TRANSPORT CO.	1445 HIGHWAY 65	95691	AST
NICOLAUS	1000418034	ONSTOTT DUSTERS	12755 HIGHWAY 99 (NORTH OF ADDRESS)	95659	ENVIROSTOR
PLEASANT GROVE	U003790413	TERMINIX INTERNATIONAL, INC.	GARDEN HWY, 370	95668	UST
PLEASANT GROVE	94376308	RIAGO RD 0.8 MI W OF SR 99	RIAGO RD 0.8 MI W OF SR 99	95668	ERNS
SAC	U001614199	H. ISHIMOTO FARMS	2645 HWY 16	95691	HIST UST
SACRAMENTO	S101628062	H. ISHIMOTO FARMS	2645 HIGHWAY 16	95691	CA FID UST, SWEEPS UST
W SACRAMENTO	U003966385	SACRAMENTO AUTO TRUCK CO	525 GALVESTON ST	95691	UST
WEST SACRAMENTO	U001614191	FRANK L. LANG	HWY 16 BOX 2630	95691	HIST UST
WEST SACRAMENTO	U001614174	CLARENCE MATTOS	PO BOX 2535-HWY 16	95691	HIST UST
WEST SACRAMENTO	U001614181	DESERET FARMS	2518 COUNTY ROAD 117	95691	HIST UST
WEST SACRAMENTO	1009311588	WEST SACRAMENTO DRAINAGE DITCH	EASEMENT AT END OF PARCELS ALONG MAPLE	95691	US BROWNFIELDS
WEST SACRAMENTO	1009311589	WEST SACRAMENTO LIBRARY	1212 MERKLEY AVENUE (OR 1271 WEST CAPITOL AVENUE)	95691	US BROWNFIELDS
WEST SACRAMENTO	U004003744	J R MCCRAY PLASTERING INC	S RIVER RD RT 85	95691	UST

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

FEDERAL RECORDS

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

DELISTED NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 07/05/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: N/A
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 11/01/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

NPL RECOVERY: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991	Source: EPA
Date Data Arrived at EDR: 02/02/1994	Telephone: 202-564-4267
Date Made Active in Reports: 03/30/1994	Last EDR Contact: 08/21/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

CERCLIS: Comprehensive Environmental Response, Compensation, and Liability Information System

CERCLIS contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). CERCLIS contains sites which are either proposed to or on the National Priorities List (NPL) and sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 06/19/2006	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 703-603-8960
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CERCLIS-NFRAP: CERCLIS No Further Remedial Action Planned

Archived sites are sites that have been removed and archived from the inventory of CERCLIS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list this site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. This decision does not necessarily mean that there is no hazard associated with a given site; it only means that, based upon available information, the location is not judged to be a potential NPL site.

Date of Government Version: 07/17/2006	Source: EPA
Date Data Arrived at EDR: 08/02/2006	Telephone: 703-603-8960
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 41	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 03/15/2006	Source: EPA
Date Data Arrived at EDR: 03/17/2006	Telephone: 800-424-9346
Date Made Active in Reports: 04/13/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

RCRA: Resource Conservation and Recovery Act Information

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. RCRAInfo replaces the data recording and reporting abilities of the Resource Conservation and Recovery Information System (RCRIS). The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month. Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month. Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month. Transporters are individuals or entities that move hazardous waste from the generator off-site to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 06/13/2006	Source: EPA
Date Data Arrived at EDR: 06/28/2006	Telephone: 800-424-9346
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/28/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 12/31/2005	Source: National Response Center, United States Coast Guard
Date Data Arrived at EDR: 01/12/2006	Telephone: 202-260-2342
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 10/24/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Annually

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 07/03/2006	Source: U.S. Department of Transportation
Date Data Arrived at EDR: 07/19/2006	Telephone: 202-366-4555
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 03/21/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 03/27/2006	Telephone: 703-603-8905
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 09/07/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 10/02/2006
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2004	Source: USGS
Date Data Arrived at EDR: 02/08/2005	Telephone: 703-692-8801
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 08/11/2006
Number of Days to Update: 177	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Semi-Annually

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 12/05/2005	Source: U.S. Army Corps of Engineers
Date Data Arrived at EDR: 01/19/2006	Telephone: 202-528-4285
Date Made Active in Reports: 02/21/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 33	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Varies

US BROWNFIELDS: A Listing of Brownfields Sites

Included in the listing are brownfields properties addresses by Cooperative Agreement Recipients and brownfields properties addressed by Targeted Brownfields Assessments. Targeted Brownfields Assessments-EPA's Targeted Brownfields Assessments (TBA) program is designed to help states, tribes, and municipalities--especially those without EPA Brownfields Assessment Demonstration Pilots--minimize the uncertainties of contamination often associated with brownfields. Under the TBA program, EPA provides funding and/or technical assistance for environmental assessments at brownfields sites throughout the country. Targeted Brownfields Assessments supplement and work with other efforts under EPA's Brownfields Initiative to promote cleanup and redevelopment of brownfields. Cooperative Agreement Recipients--States, political subdivisions, territories, and Indian tribes become Brownfields Cleanup Revolving Loan Fund (BCRLF) cooperative agreement recipients when they enter into BCRLF cooperative agreements with the U.S. EPA. EPA selects BCRLF cooperative agreement recipients based on a proposal and application process. BCRLF cooperative agreement recipients must use EPA funds provided through BCRLF cooperative agreement for specified brownfields-related cleanup activities.

Date of Government Version: 07/10/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 07/13/2006	Telephone: 202-566-2777
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 55	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Semi-Annually

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 12/14/2004	Source: Department of Justice, Consent Decree Library
Date Data Arrived at EDR: 02/15/2005	Telephone: Varies
Date Made Active in Reports: 04/25/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 69	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 07/10/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 703-416-0223
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 11/04/2005	Source: Department of Energy
Date Data Arrived at EDR: 11/28/2005	Telephone: 505-845-0011
Date Made Active in Reports: 01/30/2006	Last EDR Contact: 09/05/2006
Number of Days to Update: 63	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Varies

ODI: Open Dump Inventory

An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985	Source: Environmental Protection Agency
Date Data Arrived at EDR: 08/09/2004	Telephone: 800-424-9346
Date Made Active in Reports: 09/17/2004	Last EDR Contact: 06/09/2004
Number of Days to Update: 39	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties

A listing of verified Potentially Responsible Parties

Date of Government Version: 07/20/2006	Source: EPA
Date Data Arrived at EDR: 07/21/2006	Telephone: 202-564-6064
Date Made Active in Reports: 08/22/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 32	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 06/22/2006	Telephone: 202-566-0250
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/22/2006
Number of Days to Update: 62	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2002	Source: EPA
Date Data Arrived at EDR: 04/14/2006	Telephone: 202-260-5521
Date Made Active in Reports: 05/30/2006	Last EDR Contact: 10/18/2006
Number of Days to Update: 46	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Every 4 Years

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/14/2006	Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)

Date of Government Version: 07/14/2006	Source: EPA
Date Data Arrived at EDR: 07/18/2006	Telephone: 202-566-1667
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2004	Source: EPA
Date Data Arrived at EDR: 05/11/2006	Telephone: 202-564-4203
Date Made Active in Reports: 05/22/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 11	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

ICIS: Integrated Compliance Information System

The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 02/13/2006	Source: Environmental Protection Agency
Date Data Arrived at EDR: 04/21/2006	Telephone: 202-564-5088
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 07/17/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 10/16/2006
	Data Release Frequency: Quarterly

PADS: PCB Activity Database System

PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 07/07/2006	Source: EPA
Date Data Arrived at EDR: 08/09/2006	Telephone: 202-566-0500
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 08/09/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

MLTS: Material Licensing Tracking System

MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 07/10/2006	Source: Nuclear Regulatory Commission
Date Data Arrived at EDR: 07/20/2006	Telephone: 301-415-7169
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 05/16/2006	Source: Department of Labor, Mine Safety and Health Administration
Date Data Arrived at EDR: 06/28/2006	Telephone: 303-231-5959
Date Made Active in Reports: 08/23/2006	Last EDR Contact: 09/27/2006
Number of Days to Update: 56	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 07/21/2006	Source: EPA
Date Data Arrived at EDR: 07/25/2006	Telephone: N/A
Date Made Active in Reports: 09/06/2006	Last EDR Contact: 10/02/2006
Number of Days to Update: 43	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Quarterly

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995	Source: EPA
Date Data Arrived at EDR: 07/03/1995	Telephone: 202-564-4104
Date Made Active in Reports: 08/07/1995	Last EDR Contact: 09/05/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2003	Source: EPA/NTIS
Date Data Arrived at EDR: 06/17/2005	Telephone: 800-424-9346
Date Made Active in Reports: 08/04/2005	Last EDR Contact: 10/20/2006
Number of Days to Update: 48	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Biennially

STATE AND LOCAL RECORDS

HIST CAL-SITES: Calsites Database

The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 08/03/2006	Telephone: 916-323-3400
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 08/28/2006
Number of Days to Update: 21	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: No Update Planned

CA BOND EXP. PLAN: Bond Expenditure Plan

Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989	Source: Department of Health Services
Date Data Arrived at EDR: 07/27/1994	Telephone: 916-255-2118
Date Made Active in Reports: 08/02/1994	Last EDR Contact: 05/31/1994
Number of Days to Update: 6	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995	Source: State Water Resources Control Board
Date Data Arrived at EDR: 08/30/1995	Telephone: 916-227-4364
Date Made Active in Reports: 09/26/1995	Last EDR Contact: 10/30/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/29/2007
	Data Release Frequency: No Update Planned

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inventory of solid waste disposal facilities or landfills. These may be active or inactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 09/13/2006	Source: Integrated Waste Management Board
Date Data Arrived at EDR: 09/13/2006	Telephone: 916-341-6320
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 09/13/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Quarterly

CA WDS: Waste Discharge System

Sites which have been issued waste discharge requirements.

Date of Government Version: 09/20/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 09/21/2006	Telephone: 916-341-5227
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 09/21/2006
Number of Days to Update: 34	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Quarterly

WMUDS/SWAT: Waste Management Unit Database

Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000	Source: State Water Resources Control Board
Date Data Arrived at EDR: 04/10/2000	Telephone: 916-227-4448
Date Made Active in Reports: 05/10/2000	Last EDR Contact: 09/05/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: Quarterly

CORTESE: "Cortese" Hazardous Waste & Substances Sites List

The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites). This listing is no longer updated by the state agency.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 05/29/2001
Date Made Active in Reports: 07/26/2001
Number of Days to Update: 58

Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: No Update Planned

SWRCY: Recycler Database

A listing of recycling facilities in California.

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST: Geotracker's Leaking Underground Fuel Tank Report

Leaking Underground Storage Tank Incident Reports. LUST records contain an inventory of reported leaking underground storage tank incidents. Not all states maintain these records, and the information stored varies by state.

Date of Government Version: 10/11/2006
Date Data Arrived at EDR: 10/12/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 13

Source: State Water Resources Control Board
Telephone: 916-341-5752
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

LUST REG 5: Leaking Underground Storage Tank Database

Date of Government Version: 07/01/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 10/25/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-346-7491
Last EDR Contact: 10/02/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-4130
Last EDR Contact: 08/07/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 10/17/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

LUST REG 7: Leaking Underground Storage Tank Case Listing

Date of Government Version: 02/26/2004	Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Date Data Arrived at EDR: 02/26/2004	Telephone: 760-346-7491
Date Made Active in Reports: 03/24/2004	Last EDR Contact: 08/21/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003	Source: California Regional Water Quality Control Board Lahontan Region (6)
Date Data Arrived at EDR: 09/10/2003	Telephone: 916-542-5424
Date Made Active in Reports: 10/07/2003	Last EDR Contact: 09/05/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 12/04/2006
	Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004	Source: California Regional Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 09/07/2004	Telephone: 213-576-6600
Date Made Active in Reports: 10/12/2004	Last EDR Contact: 09/25/2006
Number of Days to Update: 35	Next Scheduled EDR Contact: 12/25/2006
	Data Release Frequency: No Update Planned

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001	Source: California Regional Water Quality Control Board North Coast (1)
Date Data Arrived at EDR: 02/28/2001	Telephone: 707-576-2220
Date Made Active in Reports: 03/29/2001	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Date of Government Version: 09/30/2004	Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

LUST REG 3: Leaking Underground Storage Tank Database

Date of Government Version: 05/19/2003	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/19/2003	Telephone: 805-549-3147
Date Made Active in Reports: 06/02/2003	Last EDR Contact: 08/15/2006
Number of Days to Update: 14	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database

The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 09/05/1995	Telephone: 916-341-5851
Date Made Active in Reports: 09/29/1995	Last EDR Contact: 12/28/1998
Number of Days to Update: 24	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC: Statewide SLIC Cases

The Spills, Leaks, Investigations, and Cleanups (SLIC) listings includes unauthorized discharges from spills and leaks, other than from underground storage tanks or other regulated sites.

Date of Government Version: 10/11/2006	Source: State Water Resources Control Board
Date Data Arrived at EDR: 10/12/2006	Telephone: 916-341-5752
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/12/2006
Number of Days to Update: 13	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

Date of Government Version: 04/03/2003	Source: California Regional Water Quality Control Board, North Coast Region (1)
Date Data Arrived at EDR: 04/07/2003	Telephone: 707-576-2220
Date Made Active in Reports: 04/25/2003	Last EDR Contact: 08/21/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 09/30/2004	Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Date Data Arrived at EDR: 10/20/2004	Telephone: 510-286-0457
Date Made Active in Reports: 11/19/2004	Last EDR Contact: 10/09/2006
Number of Days to Update: 30	Next Scheduled EDR Contact: 01/08/2007
	Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 05/18/2006	Source: California Regional Water Quality Control Board Central Coast Region (3)
Date Data Arrived at EDR: 05/18/2006	Telephone: 805-549-3147
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 08/15/2006
Number of Days to Update: 28	Next Scheduled EDR Contact: 11/13/2006
	Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Any contaminated site that impacts groundwater or has the potential to impact groundwater.

Date of Government Version: 11/17/2004	Source: Region Water Quality Control Board Los Angeles Region (4)
Date Data Arrived at EDR: 11/18/2004	Telephone: 213-576-6600
Date Made Active in Reports: 01/04/2005	Last EDR Contact: 10/23/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Unregulated sites that impact groundwater or have the potential to impact groundwater.

Date of Government Version: 04/01/2005	Source: Regional Water Quality Control Board Central Valley Region (5)
Date Data Arrived at EDR: 04/05/2005	Telephone: 916-464-3291
Date Made Active in Reports: 04/21/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 16	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 05/24/2005	Source: Regional Water Quality Control Board, Victorville Branch
Date Data Arrived at EDR: 05/25/2005	Telephone: 619-241-6583
Date Made Active in Reports: 06/16/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 22	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SLIC REG 6L: SLIC Sites

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36

Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 04/06/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 10/05/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Annually

UST: Active UST Facilities

Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/26/2006
Number of Days to Update: 14

Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

HIST UST: Hazardous Substance Storage Container Database

The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

AST: Aboveground Petroleum Storage Tank Facilities

Registered Aboveground Storage Tanks.

Date of Government Version: 01/30/2006
Date Data Arrived at EDR: 01/30/2006
Date Made Active in Reports: 02/17/2006
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5712
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1980's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994	Source: State Water Resources Control Board
Date Data Arrived at EDR: 07/07/2005	Telephone: N/A
Date Made Active in Reports: 08/11/2005	Last EDR Contact: 06/03/2005
Number of Days to Update: 35	Next Scheduled EDR Contact: N/A
	Data Release Frequency: No Update Planned

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/31/2004	Source: Office of Emergency Services
Date Data Arrived at EDR: 11/30/2005	Telephone: 916-845-8400
Date Made Active in Reports: 01/19/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 50	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

NOTIFY 65: Proposition 65 Records

Proposition 65 Notification Records. NOTIFY 65 contains facility notifications about any release which could impact drinking water and thereby expose the public to a potential health risk.

Date of Government Version: 10/21/1993	Source: State Water Resources Control Board
Date Data Arrived at EDR: 11/01/1993	Telephone: 916-445-3846
Date Made Active in Reports: 11/19/1993	Last EDR Contact: 10/16/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: No Update Planned

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 10/04/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 10/05/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/25/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Semi-Annually

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DRYCLEANERS: Cleaner Facilities

A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 04/18/2005	Source: Department of Toxic Substance Control
Date Data Arrived at EDR: 04/18/2005	Telephone: 916-327-4498
Date Made Active in Reports: 05/06/2005	Last EDR Contact: 10/02/2006
Number of Days to Update: 18	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

WIP: Well Investigation Program Case List

Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/25/2006	Source: Los Angeles Water Quality Control Board
Date Data Arrived at EDR: 07/26/2006	Telephone: 213-576-6726
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 05/17/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 05/17/2006	Telephone: 916-255-6504
Date Made Active in Reports: 06/15/2006	Last EDR Contact: 10/23/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 01/22/2007
	Data Release Frequency: Varies

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 08/29/2006	Source: Department of Toxic Substances Control
Date Data Arrived at EDR: 08/30/2006	Telephone: 916-323-3400
Date Made Active in Reports: 10/05/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 36	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Quarterly

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method.

Date of Government Version: 12/31/2003	Source: California Environmental Protection Agency
Date Data Arrived at EDR: 10/11/2005	Telephone: 916-255-1136
Date Made Active in Reports: 10/31/2005	Last EDR Contact: 09/14/2006
Number of Days to Update: 20	Next Scheduled EDR Contact: 11/06/2006
	Data Release Frequency: Annually

EMI: Emissions Inventory Data

Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2004	Source: California Air Resources Board
Date Data Arrived at EDR: 04/14/2006	Telephone: 916-322-2990
Date Made Active in Reports: 05/11/2006	Last EDR Contact: 10/20/2006
Number of Days to Update: 27	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifies sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 08/29/2006
Date Data Arrived at EDR: 08/30/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 36

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 08/30/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Quarterly

TRIBAL RECORDS

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2004
Date Data Arrived at EDR: 02/08/2005
Date Made Active in Reports: 08/04/2005
Number of Days to Update: 177

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 08/11/2006
Next Scheduled EDR Contact: 11/06/2006
Data Release Frequency: Semi-Annually

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/28/2006
Number of Days to Update: 19

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 06/01/2006
Date Data Arrived at EDR: 06/23/2006
Date Made Active in Reports: 08/02/2006
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 06/06/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 01/04/2005	Source: EPA Region 6
Date Data Arrived at EDR: 01/21/2005	Telephone: 214-665-6597
Date Made Active in Reports: 02/28/2005	Last EDR Contact: 08/21/2006
Number of Days to Update: 38	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Florida, Minnesota, Mississippi and North Carolina.

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-8677
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R4: Underground Storage Tanks on Indian Land

Date of Government Version: 01/01/2006	Source: EPA Region 4
Date Data Arrived at EDR: 02/27/2006	Telephone: 404-562-9424
Date Made Active in Reports: 03/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 29	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Semi-Annually

INDIAN UST R9: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 9
Date Data Arrived at EDR: 06/23/2006	Telephone: 415-972-3368
Date Made Active in Reports: 08/02/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 40	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R7: Underground Storage Tanks on Indian Land

Date of Government Version: 06/01/2006	Source: EPA Region 7
Date Data Arrived at EDR: 07/10/2006	Telephone: 913-551-7003
Date Made Active in Reports: 09/12/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 64	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land

Date of Government Version: 06/06/2006	Source: EPA Region 8
Date Data Arrived at EDR: 06/09/2006	Telephone: 303-312-6137
Date Made Active in Reports: 07/28/2006	Last EDR Contact: 08/21/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 11/20/2006
	Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 12/02/2004
Date Data Arrived at EDR: 12/29/2004
Date Made Active in Reports: 02/04/2005
Number of Days to Update: 37

Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R10: Underground Storage Tanks on Indian Land

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 07/28/2006
Number of Days to Update: 49

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

A listing of underground storage tank locations on Indian Land.

Date of Government Version: 06/08/2006
Date Data Arrived at EDR: 06/09/2006
Date Made Active in Reports: 06/30/2006
Number of Days to Update: 21

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land

Date of Government Version: 06/30/2006
Date Data Arrived at EDR: 07/03/2006
Date Made Active in Reports: 09/06/2006
Number of Days to Update: 65

Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Semi-Annually

EDR PROPRIETARY RECORDS

Manufactured Gas Plants: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 14

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Tanks

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Semi-Annually

CONTRA COSTA COUNTY:

Site List

List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 08/28/2006
Next Scheduled EDR Contact: 11/27/2006
Data Release Frequency: Semi-Annually

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 07/11/2006
Date Data Arrived at EDR: 07/12/2006
Date Made Active in Reports: 07/27/2006
Number of Days to Update: 15

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 11/06/2006
Next Scheduled EDR Contact: 02/05/2007
Data Release Frequency: Semi-Annually

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing

Kern County Sites and Tanks Listing.

Date of Government Version: 09/05/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 13

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern

San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 07/07/1999
Date Made Active in Reports: N/A
Number of Days to Update: 0

Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 05/16/2006
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HMS: Street Number List

Industrial Waste and Underground Storage Tank Sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 05/31/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 08/16/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Varies

City of Los Angeles Landfills

Date of Government Version: 03/01/2006
Date Data Arrived at EDR: 04/06/2006
Date Made Active in Reports: 05/11/2006
Number of Days to Update: 35

Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Varies

Site Mitigation List

Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 01/05/2006
Date Data Arrived at EDR: 02/16/2006
Date Made Active in Reports: 03/13/2006
Number of Days to Update: 25

Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank

Date of Government Version: 09/11/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 45

Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 09/11/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank

Date of Government Version: 03/28/2003
Date Data Arrived at EDR: 10/23/2003
Date Made Active in Reports: 11/26/2003
Number of Days to Update: 34

Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 08/23/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

City of Torrance Underground Storage Tank

Date of Government Version: 08/15/2006
Date Data Arrived at EDR: 08/17/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 32

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 11/13/2006
Data Release Frequency: Semi-Annually

MARIN COUNTY:

Underground Storage Tank Sites

Currently permitted USTs in Marin County.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/29/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 20

Source: Public Works Department Waste Management
Telephone: 415-499-6647
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Semi-Annually

NAPA COUNTY:

Sites With Reported Contamination

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 16

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Semi-Annually

Closed and Operating Underground Storage Tank Sites

Date of Government Version: 10/09/2006
Date Data Arrived at EDR: 10/09/2006
Date Made Active in Reports: 11/06/2006
Number of Days to Update: 28

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Annually

ORANGE COUNTY:

List of Industrial Site Cleanups

Petroleum and non-petroleum spills.

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/18/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 37

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups

Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

List of Underground Storage Tank Facilities

Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 09/01/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 09/06/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities

List includes aboveground tanks, underground tanks and cleanup sites.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/30/2006
Date Data Arrived at EDR: 08/31/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 35

Source: Placer County Health and Human Services
Telephone: 530-889-7312
Last EDR Contact: 08/14/2006
Next Scheduled EDR Contact: 12/19/2006
Data Release Frequency: Semi-Annually

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites

Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/08/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 16

Source: Department of Public Health
Telephone: 951-358-5055
Last EDR Contact: 10/16/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Quarterly

Underground Storage Tank Tank List

Date of Government Version: 08/08/2006
Date Data Arrived at EDR: 08/08/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 41

Source: Health Services Agency
Telephone: 951-358-5055
Last EDR Contact: 10/16/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Contaminated Sites

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/18/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 48

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

ML - Regulatory Compliance Master List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 08/02/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 11/03/2006
Next Scheduled EDR Contact: 01/29/2007
Data Release Frequency: Quarterly

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 09/26/2006
Date Data Arrived at EDR: 10/17/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 8

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 05/16/2005
Date Data Arrived at EDR: 05/18/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 29

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 10/20/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Quarterly

Solid Waste Facilities

San Diego County Solid Waste Facilities.

Date of Government Version: 11/01/2005
Date Data Arrived at EDR: 12/29/2005
Date Made Active in Reports: 01/19/2006
Number of Days to Update: 21

Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 08/21/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Varies

SAN FRANCISCO COUNTY:

Local Oversight Facilities

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 35

Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

Underground Storage Tank Information

Date of Government Version: 09/18/2006
Date Data Arrived at EDR: 09/20/2006
Date Made Active in Reports: 10/20/2006
Number of Days to Update: 30

Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 09/18/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST

A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 07/25/2006
Date Data Arrived at EDR: 08/10/2006
Date Made Active in Reports: 09/18/2006
Number of Days to Update: 39

Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 10/30/2006
Next Scheduled EDR Contact: 01/15/2007
Data Release Frequency: Semi-Annually

SAN MATEO COUNTY:

Business Inventory

List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Date of Government Version: 08/25/2006
Date Data Arrived at EDR: 08/25/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 41

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Annually

Fuel Leak List

Date of Government Version: 10/10/2006
Date Data Arrived at EDR: 10/11/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 14

Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 10/09/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Semi-Annually

SANTA CLARA COUNTY:

HIST LUST - Fuel Leak Site Activity Report

A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22

Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: No Update Planned

LOP Listing

A listing of open leaking underground storage tanks.

Date of Government Version: 09/29/2006
Date Data Arrived at EDR: 10/02/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 23

Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 09/25/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Varies

Hazardous Material Facilities

Date of Government Version: 09/07/2006
Date Data Arrived at EDR: 09/08/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 27

Source: City of San Jose Fire Department
Telephone: 408-277-4659
Last EDR Contact: 09/05/2006
Next Scheduled EDR Contact: 12/04/2006
Data Release Frequency: Annually

SOLANO COUNTY:

Leaking Underground Storage Tanks

Date of Government Version: 07/05/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

Underground Storage Tanks

Date of Government Version: 07/03/2006
Date Data Arrived at EDR: 07/26/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 29

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 10/18/2006
Next Scheduled EDR Contact: 12/25/2006
Data Release Frequency: Quarterly

SONOMA COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Leaking Underground Storage Tank Sites

Date of Government Version: 07/24/2006
Date Data Arrived at EDR: 07/25/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 30

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 10/23/2006
Next Scheduled EDR Contact: 01/22/2007
Data Release Frequency: Quarterly

SUTTER COUNTY:

Underground Storage Tanks

Date of Government Version: 12/31/0005
Date Data Arrived at EDR: 01/05/2006
Date Made Active in Reports: 01/31/2006
Number of Days to Update: 26

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 10/27/2006
Next Scheduled EDR Contact: 01/01/2007
Data Release Frequency: Semi-Annually

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks

The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/26/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 29

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites

Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 08/01/2006
Date Data Arrived at EDR: 09/05/2006
Date Made Active in Reports: 10/05/2006
Number of Days to Update: 30

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 08/25/2006
Next Scheduled EDR Contact: 11/20/2006
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites

Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 08/28/2006
Date Data Arrived at EDR: 09/22/2006
Date Made Active in Reports: 10/25/2006
Number of Days to Update: 33

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 09/13/2006
Next Scheduled EDR Contact: 12/11/2006
Data Release Frequency: Quarterly

Underground Tank Closed Sites List

Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 06/28/2006
Date Data Arrived at EDR: 07/27/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 28

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 10/12/2006
Next Scheduled EDR Contact: 01/08/2007
Data Release Frequency: Quarterly

YOLO COUNTY:

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Underground Storage Tank Comprehensive Facility Report

Date of Government Version: 07/19/2006	Source: Yolo County Department of Health
Date Data Arrived at EDR: 08/01/2006	Telephone: 530-666-8646
Date Made Active in Reports: 08/24/2006	Last EDR Contact: 10/30/2006
Number of Days to Update: 23	Next Scheduled EDR Contact: 01/15/2007
	Data Release Frequency: Annually

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data

Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 12/31/2004	Source: Department of Environmental Protection
Date Data Arrived at EDR: 02/17/2006	Telephone: 860-424-3375
Date Made Active in Reports: 04/07/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 49	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

NJ MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 06/01/2006	Source: Department of Environmental Protection
Date Data Arrived at EDR: 07/06/2006	Telephone: N/A
Date Made Active in Reports: 08/01/2006	Last EDR Contact: 10/05/2006
Number of Days to Update: 26	Next Scheduled EDR Contact: 01/01/2007
	Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data

Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 08/01/2006	Source: Department of Environmental Conservation
Date Data Arrived at EDR: 08/30/2006	Telephone: 518-402-8651
Date Made Active in Reports: 10/16/2006	Last EDR Contact: 08/30/2006
Number of Days to Update: 47	Next Scheduled EDR Contact: 11/27/2006
	Data Release Frequency: Annually

PA MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005	Source: Department of Environmental Protection
Date Data Arrived at EDR: 03/17/2006	Telephone: N/A
Date Made Active in Reports: 06/06/2006	Last EDR Contact: 09/11/2006
Number of Days to Update: 81	Next Scheduled EDR Contact: 12/11/2006
	Data Release Frequency: Annually

RI MANIFEST: Manifest information

Hazardous waste manifest information

Date of Government Version: 09/30/2005	Source: Department of Environmental Management
Date Data Arrived at EDR: 05/09/2006	Telephone: 401-222-2797
Date Made Active in Reports: 05/24/2006	Last EDR Contact: 09/18/2006
Number of Days to Update: 15	Next Scheduled EDR Contact: 12/18/2006
	Data Release Frequency: Annually

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

WI MANIFEST: Manifest Information

Hazardous waste manifest information.

Date of Government Version: 12/31/2005

Date Data Arrived at EDR: 03/17/2006

Date Made Active in Reports: 05/02/2006

Number of Days to Update: 46

Source: Department of Natural Resources

Telephone: N/A

Last EDR Contact: 10/23/2006

Next Scheduled EDR Contact: 01/08/2007

Data Release Frequency: Annually

Oil/Gas Pipelines: This data was obtained by EDR from the USGS in 1994. It is referred to by USGS as GeoData Digital Line Graphs from 1:100,000-Scale Maps. It was extracted from the transportation category including some oil, but primarily gas pipelines.

Electric Power Transmission Line Data

Source: PennWell Corporation

Telephone: (800) 823-6277

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Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:

Source: American Hospital Association, Inc.

Telephone: 312-280-5991

The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing

Source: Centers for Medicare & Medicaid Services

Telephone: 410-786-3000

A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

Nursing Homes

Source: National Institutes of Health

Telephone: 301-594-6248

Information on Medicare and Medicaid certified nursing homes in the United States.

Public Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.

Private Schools

Source: National Center for Education Statistics

Telephone: 202-502-7300

The National Center for Education Statistics' primary database on private school locations in the United States.

Daycare Centers: Licensed Facilities

Source: Department of Social Services

Telephone: 916-657-4041

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

STREET AND ADDRESS INFORMATION

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GEOCHECK[®] - PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

SACRAMENTO RIVER RIVERMILE 78.0
RIVERMILE 78.0
PLEASANT GROVE, CA 95668

TARGET PROPERTY COORDINATES

Latitude (North):	38.76950 - 38° 46' 10.2"
Longitude (West):	121.5955 - 121° 35' 43.8"
Universal Tranverse Mercator:	Zone 10
UTM X (Meters):	622017.5
UTM Y (Meters):	4291927.5
Elevation:	12 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	38121-G5 VERONA, CA
Most Recent Revision:	1978

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principle investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

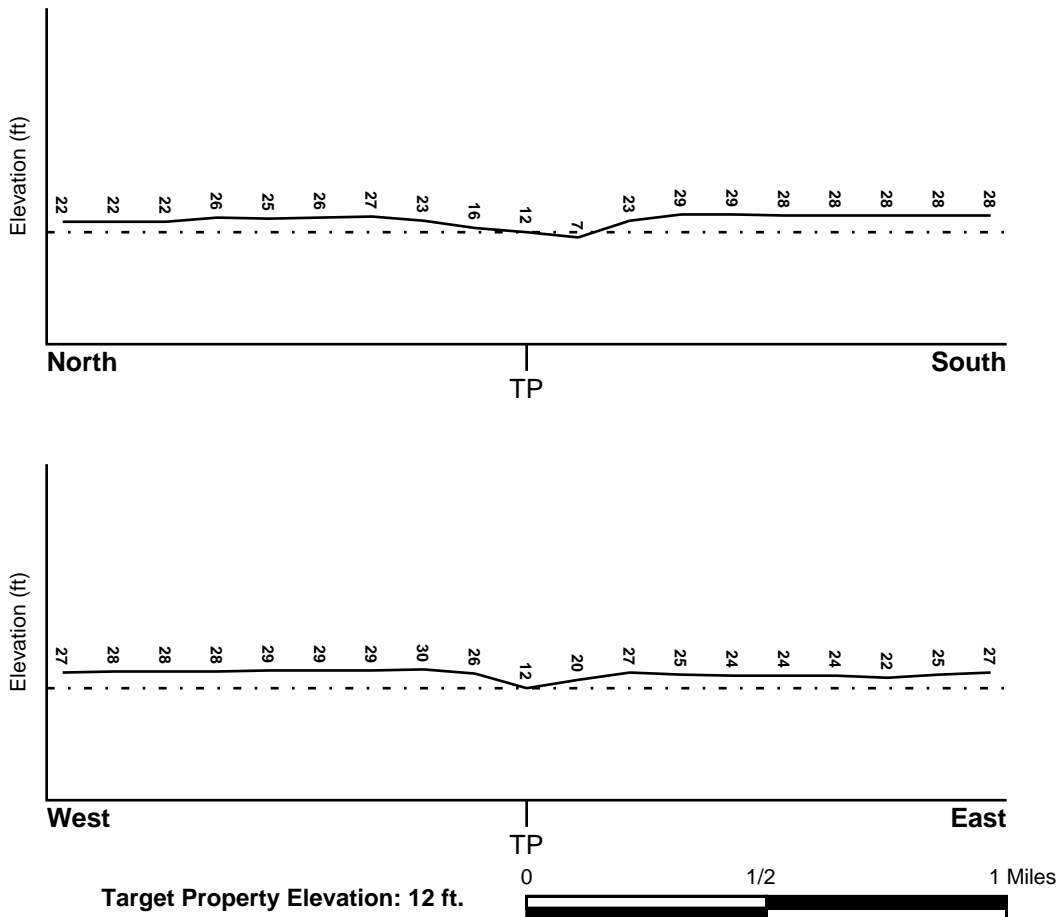
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSE

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

<u>Target Property County</u> SUTTER, CA	FEMA Flood <u>Electronic Data</u> YES - refer to the Overview Map and Detail Map
Flood Plain Panel at Target Property:	0603940285C
Additional Panels in search area:	0604230475C

NATIONAL WETLAND INVENTORY

<u>NWI Quad at Target Property</u> VERONA	NWI Electronic <u>Data Coverage</u> YES - refer to the Overview Map and Detail Map
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HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data:*

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

<u>MAP ID</u>	<u>LOCATION FROM TP</u>	<u>GENERAL DIRECTION GROUNDWATER FLOW</u>
Not Reported		

* ©1996 Site-specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

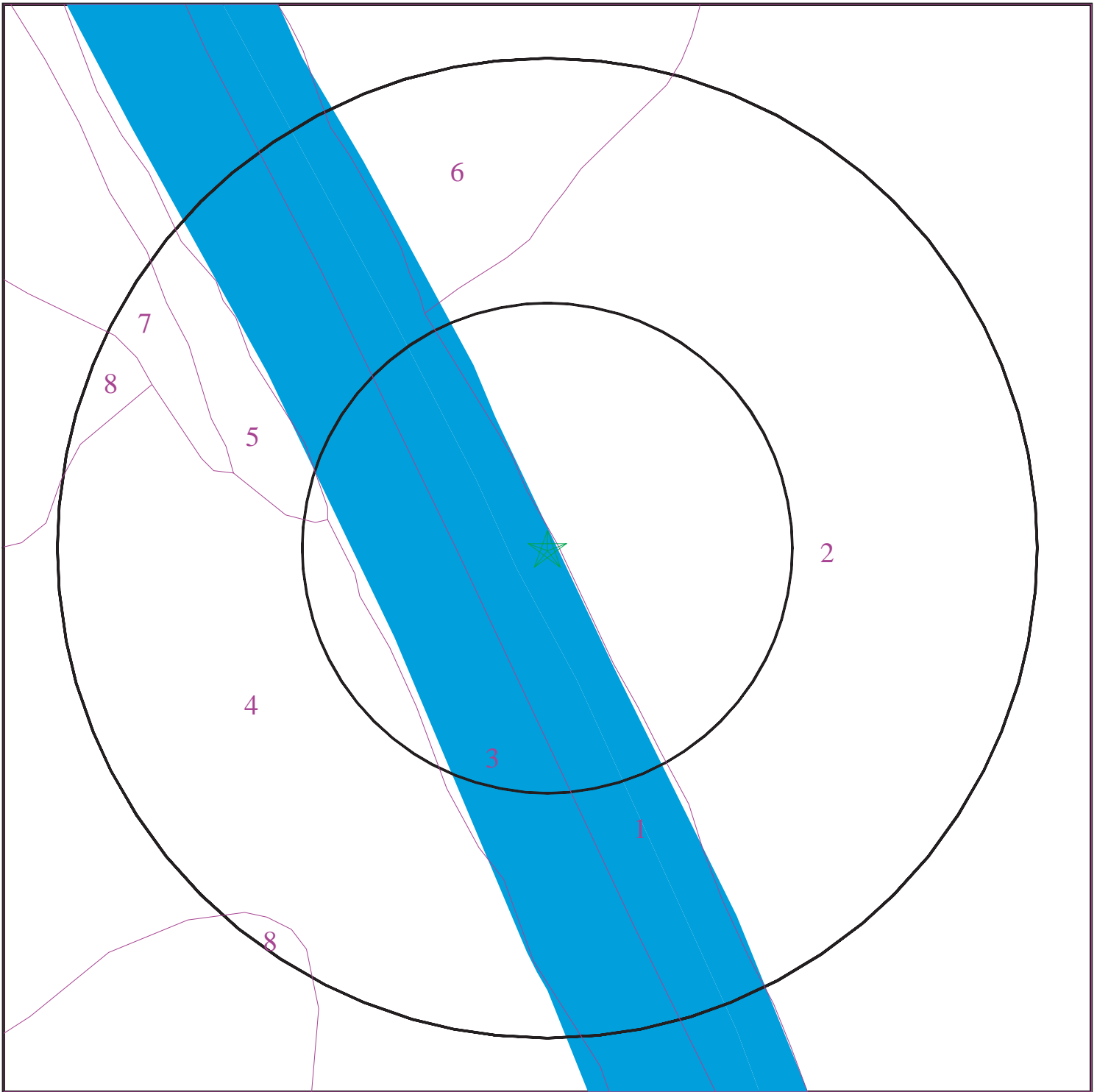
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q (<i>decoded above as Era, System & Series</i>)

GEOLOGIC AGE IDENTIFICATION

Category: Stratified Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 1790945.2s



- ★ Target Property
- ∩ SSURGO Soil
- ∩ Water



SITE NAME: Sacramento River RiverMile 78.0
ADDRESS: RiverMile 78.0
PLEASANT GROVE CA 95668
LAT/LONG: 38.7695 / 121.5955

CLIENT: MECx
CONTACT: Robert Bell
INQUIRY #: 1790945.2s
DATE: November 07, 2006 10:45 am

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Not reported

Soil Drainage Class: Not reported

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

Soil Map ID: 2

Soil Component Name: NUEVA

Soil Surface Texture: loam

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	17 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.60
2	17 inches	42 inches	stratified	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay. FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 7.40
3	42 inches	60 inches	clay loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 0.60 Min: 0.20	Max: 8.40 Min: 7.90

Soil Map ID: 3

Soil Component Name: WATER

Soil Surface Texture: Not reported

Hydrologic Group: Class B - Moderate infiltration rates. Deep and moderately deep, moderately well and well drained soils with moderately coarse textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: Not Reported

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

No Layer Information available.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Map ID: 4

Soil Component Name: TYNDALL

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40
2	16 inches	40 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 9.00 Min: 7.40
3	40 inches	60 inches	clay	Silt-Clay Materials (more than 35 pct. passing No. 200), Clayey Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit 50% or more), Fat Clay.	Max: 0.20 Min: 0.06	Max: 9.00 Min: 7.90

Soil Map ID: 5

Soil Component Name: SYCAMORE

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	14 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

Soil Map ID: 6

Soil Component Name: COLUMBIA

Soil Surface Texture: fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: MODERATE

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60
2	14 inches	60 inches	fine sandy loam	Granular materials (35 pct. or less passing No. 200), Silty, or Clayey Gravel and Sand.	COARSE-GRAINED SOILS, Sands, Sands with fines, Clayey sand. COARSE-GRAINED SOILS, Sands, Sands with fines, Silty Sand.	Max: 6.00 Min: 2.00	Max: 7.80 Min: 6.60

Soil Map ID: 7

Soil Component Name: SYCAMORE

Soil Surface Texture: silt loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil meets the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	14 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 2.00 Min: 0.60	Max: 7.80 Min: 6.10
2	14 inches	60 inches	silt loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay Soils.	Max: 2.00 Min: 0.60	Max: 8.40 Min: 6.60

Soil Map ID: 8

Soil Component Name: TYNDALL

Soil Surface Texture: very fine sandy loam

Hydrologic Group: Class C - Slow infiltration rates. Soils with layers impeding downward movement of water, or soils with moderately fine or fine textures.

Soil Drainage Class: Somewhat poorly. Soils commonly have a layer with low hydraulic conductivity, wet state high in profile, etc. Depth to water table is 1 to 3 feet.

Hydric Status: Soil does not meet the requirements for a hydric soil.

Corrosion Potential - Uncoated Steel: HIGH

Depth to Bedrock Min: > 0 inches

Depth to Bedrock Max: > 0 inches

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
1	0 inches	16 inches	very fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 8.40 Min: 7.40

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

Soil Layer Information							
Layer	Boundary		Soil Texture Class	Classification		Permeability Rate (in/hr)	Soil Reaction (pH)
	Upper	Lower		AASHTO Group	Unified Soil		
2	16 inches	60 inches	fine sandy loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), silt.	Max: 6.00 Min: 2.00	Max: 9.00 Min: 7.40

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

WELL SEARCH DISTANCE INFORMATION

<u>DATABASE</u>	<u>SEARCH DISTANCE (miles)</u>
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
1	USGS3224923	1/4 - 1/2 Mile NW
A2	USGS3224891	1/2 - 1 Mile SSE
3	USGS3224957	1/2 - 1 Mile NNW
4	USGS3224937	1/2 - 1 Mile NW
A5	USGS3224889	1/2 - 1 Mile SSE

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

<u>MAP ID</u>	<u>WELL ID</u>	<u>LOCATION FROM TP</u>

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

STATE DATABASE WELL INFORMATION

MAP ID

WELL ID

LOCATION
FROM TP

No Wells Found

OTHER STATE DATABASE INFORMATION

STATE OIL/GAS WELL INFORMATION

DISTANCE
FROM TP (Miles)

1/2 - 1 Mile NNW

DISTANCE
FROM TP (Miles)

0 - 1/8 Mile ENE

PHYSICAL SETTING SOURCE MAP - 1790945.2s



- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Airports
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- Indeterminate Groundwater Flow at Location
- Groundwater Flow Varies at Location
- Closest Hydrogeological Data
- Oil, gas or related wells



SITE NAME: Sacramento River RiverMile 78.0
 ADDRESS: RiverMile 78.0
 PLEASANT GROVE CA 95668
 LAT/LONG: 38.7695 / 121.5955

CLIENT: MECx
 CONTACT: Robert Bell
 INQUIRY #: 1790945.2s
 DATE: November 07, 2006 10:45 am

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
 Direction
 Distance
 Elevation

Database EDR ID Number

1
NW
1/4 - 1/2 Mile
Higher

FED USGS USGS3224923

Agency cd:	USGS	Site no:	384623121360001
Site name:	011N003E26H002M		
Latitude:	384623		
Longitude:	1213600	Dec lat:	38.77295702
Dec lon:	-121.6010706	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	VERONA	Map scale:	24000
Altitude:	28.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19710625
Date inventoried:	19810716	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	96.0	Hole depth:	110
Source of depth data:	driller	Project number:	8479423711
Real time data flag:	Not Reported	Daily flow data begin date:	Not Reported
Daily flow data end date:	Not Reported	Daily flow data count:	Not Reported
Peak flow data begin date:	Not Reported	Peak flow data end date:	Not Reported
Peak flow data count:	Not Reported	Water quality data begin date:	Not Reported
Water quality data end date:	Not Reported	Water quality data count:	Not Reported
Ground water data begin date:	Not Reported	Ground water data end date:	Not Reported
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

A2
SSE
1/2 - 1 Mile
Higher

FED USGS USGS3224891

Agency cd:	USGS	Site no:	384528121352701
Site name:	011N003E36F001M		
Latitude:	384528		
Longitude:	1213527	Dec lat:	38.75767965
Dec lon:	-121.59190341	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	101
Country:	US	Land net:	SESENWT11NR03EM
Location map:	VERONA	Map scale:	24000
Altitude:	25.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19660212
Date inventoried:	19760212	Mean greenwich time offset:	PST

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	171	Hole depth:	176
Source of depth data:	driller	Project number:	6479423709
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	0000-00-00
Water quality data end date:	0000-00-00	Water quality data count:	0
Ground water data begin date:	1966-02-12	Ground water data end date:	1966-02-12
Ground water data count:	1		

Ground-water levels, Number of Measurements: 1

Date	Feet below Surface	Feet to Sealevel

1966-02-12	21.00	

3
NNW
1/2 - 1 Mile
Higher

FED USGS USGS3224957

Agency cd:	USGS	Site no:	384648121360901
Site name:	011N003E23R002M		
Latitude:	384648		
Longitude:	1213609	Dec lat:	38.77990127
Dec lon:	-121.60357079	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	101
Country:	US	Land net:	NWSESES23T11NR03EM
Location map:	VERONA	Map scale:	24000
Altitude:	20.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19700520
Date inventoried:	19760211	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	180	Hole depth:	195
Source of depth data:	driller	Project number:	6479423709
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1976-08-02
Water quality data end date:	1976-08-02	Water quality data count:	1
Ground water data begin date:	1970-05-20	Ground water data end date:	1977-09-12
Ground water data count:	3		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Ground-water levels, Number of Measurements: 3

Date	Feet below Surface	Feet to Sealevel	Date	Feet below Surface	Feet to Sealevel
1977-09-12	10.90		1977-08-15	13.20	
1970-05-20	30.00				

**4
NW
1/2 - 1 Mile
Higher**

FED USGS USGS3224937

Agency cd:	USGS	Site no:	384642121362301
Site name:	011N003E23Q003M		
Latitude:	384642		
Longitude:	1213623	Dec lat:	38.77823469
Dec lon:	-121.60745978	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	113
Country:	US	Land net:	Not Reported
Location map:	VERONA	Map scale:	24000
Altitude:	30.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19790410
Date inventoried:	19810716	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	131	Hole depth:	204
Source of depth data:	driller	Project number:	8479423711
Real time data flag:	Not Reported		
Daily flow data end date:	Not Reported		
Daily flow data begin date:	Not Reported		
Daily flow data count:	Not Reported		
Peak flow data begin date:	Not Reported		
Peak flow data end date:	Not Reported		
Peak flow data count:	Not Reported		
Water quality data end date:	Not Reported		
Water quality data count:	Not Reported		
Ground water data begin date:	Not Reported		
Ground water data end date:	Not Reported		
Ground water data count:	Not Reported		

Ground-water levels, Number of Measurements: 0

**A5
SSE
1/2 - 1 Mile
Higher**

FED USGS USGS3224889

Agency cd:	USGS	Site no:	384525121352501
Site name:	011N003E36L001M		
Latitude:	384525		
Longitude:	1213525	Dec lat:	38.75684634
Dec lon:	-121.59134782	Coor meth:	M
Coor accr:	S	Latlong datum:	NAD27
Dec latlong datum:	NAD83	District:	06
State:	06	County:	101
Country:	US	Land net:	NENESWS36T11NR03EM
Location map:	VERONA	Map scale:	24000

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Altitude:	27.00	Altitude method:	M
Altitude accuracy:	2.5	Altitude datum:	NGVD29
Hydrologic:	Lower Sacramento. California. Area = 1720 sq.mi.		
Topographic:	Valley flat		
Site type:	Ground-water other than Spring	Date construction:	19630605
Date inventoried:	19760212	Mean greenwich time offset:	PST
Local standard time flag:	Y		
Type of ground water site:	Single well, other than collector or Ranney type		
Aquifer Type:	Not Reported		
Aquifer:	Not Reported		
Well depth:	300	Hole depth:	319
Source of depth data:	driller	Project number:	6479423709
Real time data flag:	0	Daily flow data begin date:	0000-00-00
Daily flow data end date:	0000-00-00	Daily flow data count:	0
Peak flow data begin date:	0000-00-00	Peak flow data end date:	0000-00-00
Peak flow data count:	0	Water quality data begin date:	1976-08-02
Water quality data end date:	1976-08-02	Water quality data count:	1
Ground water data begin date:	0000-00-00	Ground water data end date:	0000-00-00
Ground water data count:	0		

Ground-water levels, Number of Measurements: 0

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Direction _____ Database _____ EDR ID Number _____
 Distance _____

NNW
1/2 - 1 Mile

OIL_GAS CA10183252

Apinumber:	10120092	Operator:	B. Pete Jackson
Lease:	Drown	Well no:	1-A
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.78265		
Longitude:	-121.60187		
Td:	4350	Sec:	23
Twn:	11N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

ENE
0 - 1/8 Mile

OIL_GAS CA10183206

Apinumber:	10120075	Operator:	B. Pete Jackson
Lease:	Lauppe	Well no:	1
Field:	Not Reported	Cagaso m3 area:	Not Reported
Map:	614	Status cod:	006
Source:	hud		
Latitude:	38.7698		
Longitude:	-121.59357		
Td:	4371	Sec:	25
Twn:	11N	Rge:	03E
Bm:	MD	X coord:	0
Y coord:	0	Zone:	Not Reported
Spupdate:	Not Reported	Abanddate:	Not Reported
Comments:	Not Reported	District:	6

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS RADON

AREA RADON INFORMATION

Federal EPA Radon Zone for SUTTER County: 3

- Note: Zone 1 indoor average level > 4 pCi/L.
 : Zone 2 indoor average level \geq 2 pCi/L and \leq 4 pCi/L.
 : Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for SUTTER COUNTY, CA

Number of sites tested: 15

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	1.107 pCi/L	93%	7%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	Not Reported	Not Reported	Not Reported	Not Reported

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)

Source: United States Geologic Survey

EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Scanned Digital USGS 7.5' Topographic Map (DRG)

Source: United States Geologic Survey

A digital raster graphic (DRG) is a scanned image of a U.S. Geological Survey topographic map. The map images are made by scanning published paper maps on high-resolution scanners. The raster image is georeferenced and fit to the Universal Transverse Mercator (UTM) projection.

HYDROLOGIC INFORMATION

Flood Zone Data: This data, available in select counties across the country, was obtained by EDR in 1999 from the Federal Emergency Management Agency (FEMA). Data depicts 100-year and 500-year flood zones as defined by FEMA.

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002 and 2005 from the U.S. Fish and Wildlife Service.

HYDROGEOLOGIC INFORMATION

AQUIFLOW^R Information System

Source: EDR proprietary database of groundwater flow information

EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit

Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services

The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database

Source: Department of Agriculture, Natural Resources Conservation Services (NRCS)

Telephone: 800-672-5559

SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Services, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data

Source: EPA/Office of Drinking Water

Telephone: 202-564-3750

Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)

This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

California Drinking Water Quality Database

Source: Department of Health Services

Telephone: 916-324-2319

The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations

Source: Department of Conservation

Telephone: 916-323-1779

RADON

State Database: CA Radon

Source: Department of Health Services

Telephone: 916-324-2208

Radon Database for California

Area Radon Information

Source: USGS

Telephone: 703-356-4020

The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones

Source: EPA

Telephone: 703-356-4020

Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

OTHER

Airport Landing Facilities: Private and public use landing facilities

Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater

Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

STREET AND ADDRESS INFORMATION

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EDR[®] Environmental
Data Resources Inc

The EDR Aerial Photo Decade Package

**Sacramento River RiverMile 78.0
RiverMile 78.0
PLEASANT GROVE, CA 95668**

Inquiry Number: 1790945.5

November 07, 2006

The Standard in Environmental Risk Management Information

440 Wheelers Farms Road
Milford, Connecticut 06461

Nationwide Customer Service

Telephone: 1-800-352-0050
Fax: 1-800-231-6802
Internet: www.edrnet.com

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Date EDR Searched Historical Sources:

Aerial Photography November 07, 2006

Target Property:

RiverMile 78.0

PLEASANT GROVE, CA 95668

<u>Year</u>	<u>Scale</u>	<u>Details</u>	<u>Source</u>
1952	Aerial Photograph. Scale: 1"=555'	Flight Year: 1952	PacificAir
1961	Aerial Photograph. Scale: 1"=555'	Flight Year: 1961	Cartwright
1972	Aerial Photograph. Scale: 1"=666'	Flight Year: 1972	Cartwright
1987	Aerial Photograph. Scale: 1"=666'	Flight Year: 1987	USGS
1987	Aerial Photograph. Scale: 1"=666'	Flight Year: 1987	USGS
1998	Aerial Photograph. Scale: 1"=666'	Flight Year: 1998	USGS



INQUIRY #: 1790945.5

YEAR: 1952

| = 555'





INQUIRY #: 1790945.5

YEAR: 1961

| = 555'





INQUIRY #: 1790945.5

YEAR: 1972

| = 666'





INQUIRY #: 1790945.5

YEAR: 1987

| = 666'





INQUIRY #: 1790945.5

YEAR: 1987

| = 666'





INQUIRY #: 1790945.5

YEAR: 1998

| = 666'





EDR® Environmental
Data Resources Inc

EDR Historical Topographic Map Report

**Sacramento River RiverMile 78.0
RiverMile 78.0
PLEASANT GROVE, CA 95668**

Inquiry Number: 1790945.4

November 07, 2006

**The Standard in
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Internet: www.edrnet.com

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with any questions or comments.

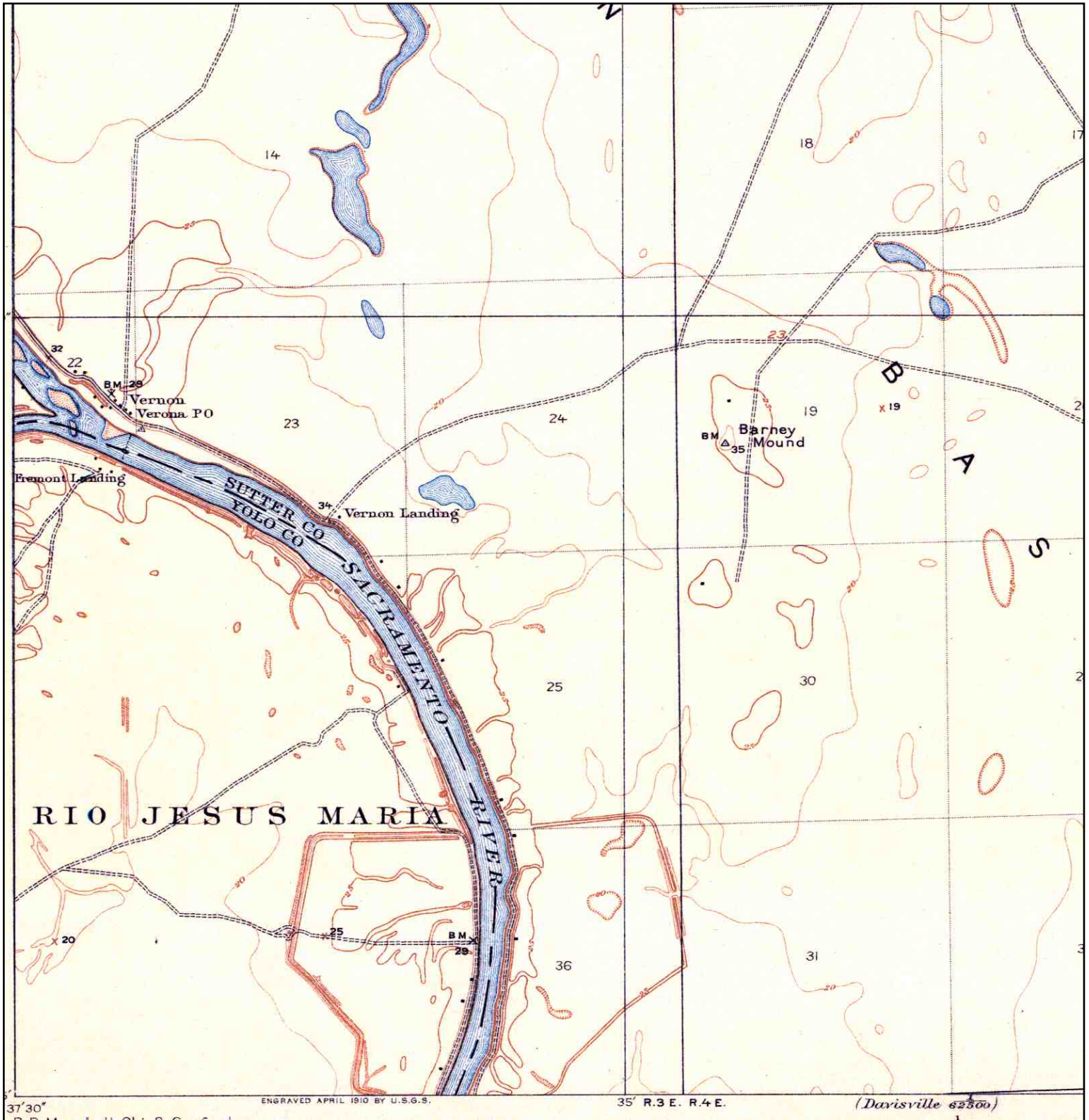
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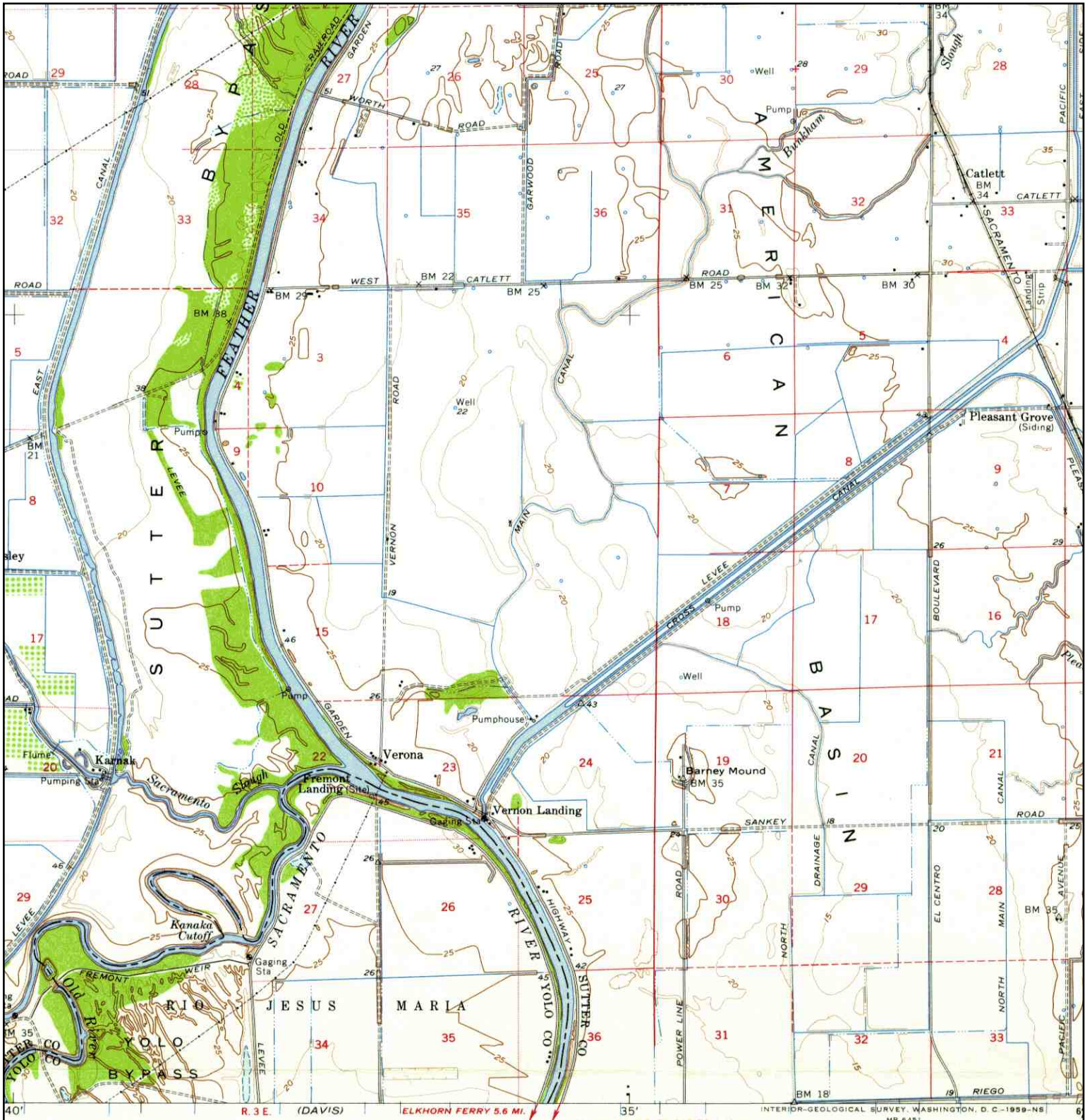
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Historical Topographic Map



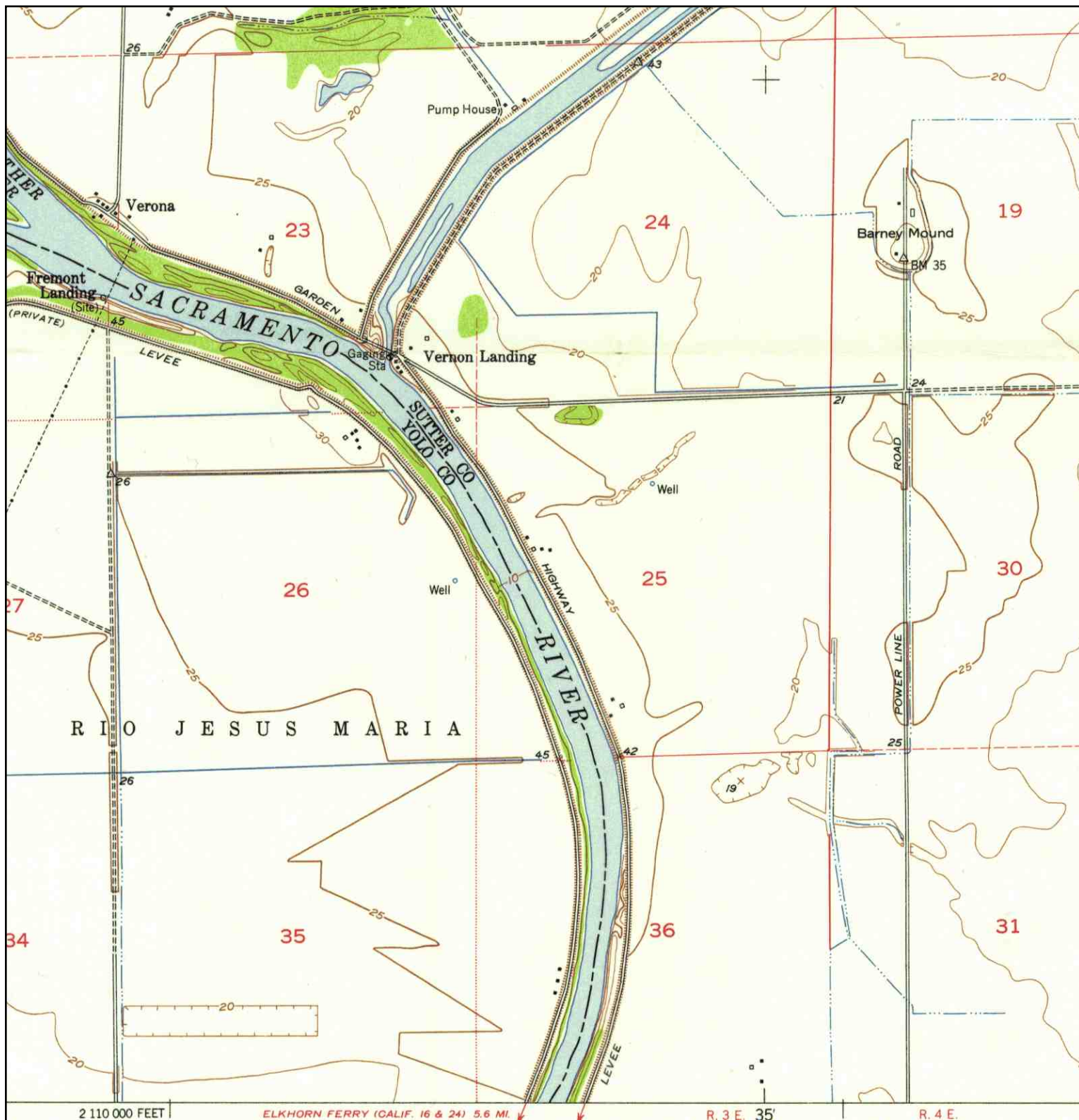
<p>N ↑</p>	<p>TARGET QUAD NAME: VERNON MAP YEAR: 1910</p>	<p>SITE NAME: Sacramento River RiverMile 78.0 ADDRESS: RiverMile 78.0 PLEASANT GROVE, CA</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790945.4</p>
	<p>SERIES: 7.5 SCALE: 1:31680</p>	<p>LAT/LONG: 38.7695 / 121.5955</p>	<p>RESEARCH DATE: 11/07/2006</p>

Historical Topographic Map



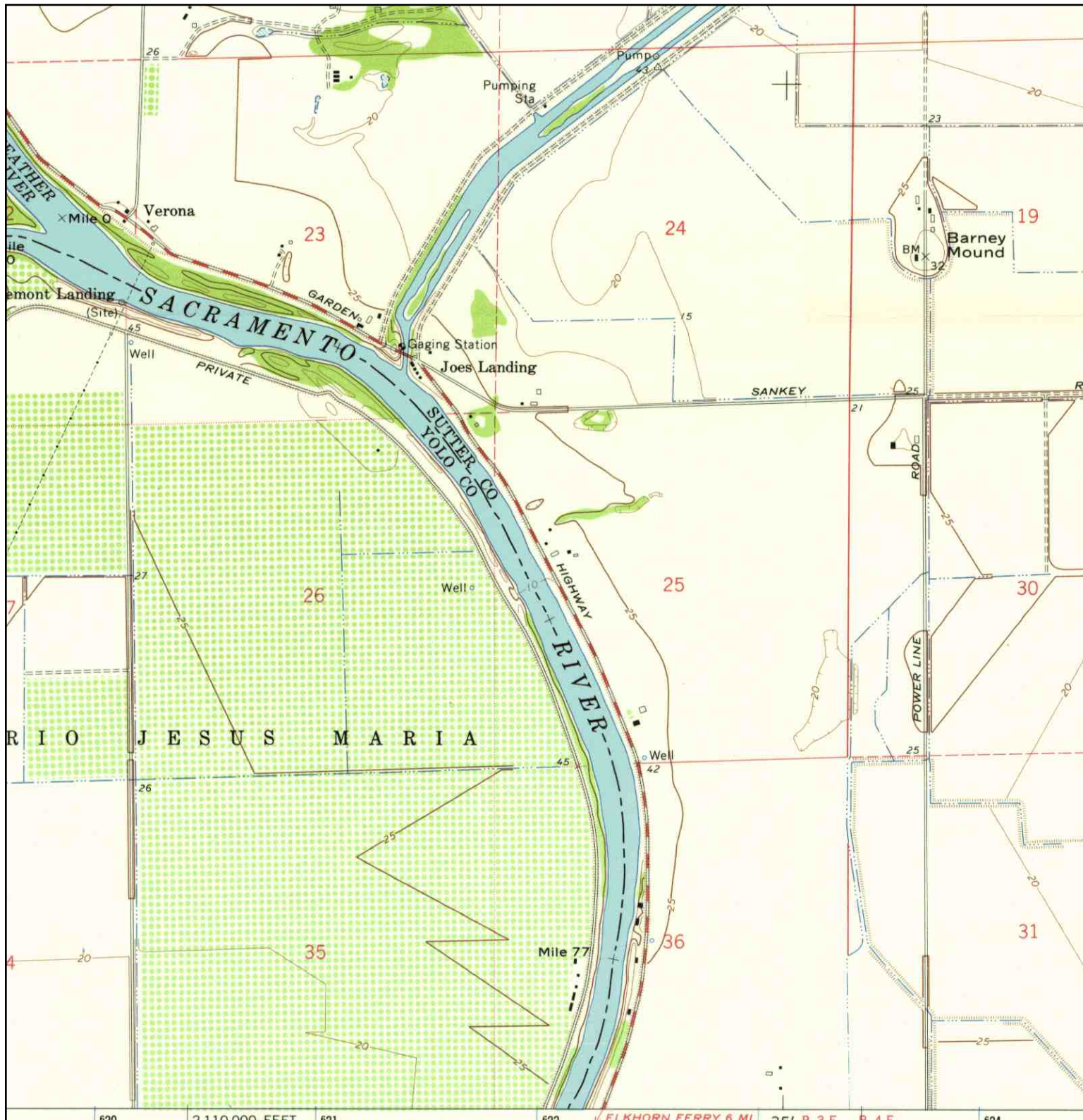
	TARGET QUAD	SITE NAME:	Sacramento River RiverMile 78.0	CLIENT:	MECx	
	NAME:	KNIGHTS LANDING	ADDRESS:	RiverMile 78.0	CONTACT:	Robert Bell
	MAP YEAR:	1952		PLEASANT GROVE, CA	INQUIRY#:	1790945.4
	SERIES:	15	LAT/LONG:	38.7695 / 121.5955	RESEARCH DATE:	11/07/2006
	SCALE:	1:62500				


Historical Topographic Map



<p>N ↑</p>	<p>TARGET QUAD NAME: VERONA MAP YEAR: 1952</p>	<p>SITE NAME: Sacramento River RiverMile 78.0 ADDRESS: RiverMile 78.0 PLEASANT GROVE, CA LAT/LONG: 38.7695 / 121.5955</p>	<p>CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790945.4 RESEARCH DATE: 11/07/2006</p>
	<p>SERIES: 7.5 SCALE: 1:24000</p>		

Historical Topographic Map



	TARGET QUAD NAME: VERONA MAP YEAR: 1967	SITE NAME: Sacramento River RiverMile 78.0 ADDRESS: RiverMile 78.0 PLEASANT GROVE, CA LAT/LONG: 38.7695 / 121.5955	CLIENT: MECx CONTACT: Robert Bell INQUIRY#: 1790945.4 RESEARCH DATE: 11/07/2006
	SERIES: 7.5 SCALE: 1:24000		

Appendix I

Standard Assessment Methodology (SAM) Data and Results

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- Figure I-25 SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at site RM 47.0L.
- Figure I-26 SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at site RM 47.0L.
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- Figure I-29 SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at site RM 47.9L.
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- Figure I-31 SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at site RM 48.2R.
- Figure I-32 SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at site RM 48.2R.
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- Figure I-34 SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at site RM 62.5R.

- Figure I-35 SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at site RM 62.5R.
- Figure I-36 SAM results showing bank-line weighted relative response (feet) for Delta smelt at site RM 62.5R.
- Figure I-37 SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at site RM 68.9L.
- Figure I-38 SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at site RM 68.9L.
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Wetted-Area Weighted Results Showing Relative Comparisons of With-Project Alternative Scenarios to Environmental Baseline

- Figure I-43 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 16.9L.
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- Figure I-46 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 19.0R.
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- Figure I-49 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 19.4R.
- Figure I-50 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 19.4R.
- Figure I-51 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 19.4R.
- Figure I-52 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 22.7R.
- Figure I-53 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 22.7R.
- Figure I-54 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 22.7R.
- Figure I-55 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 33.0R.

- Figure I-56 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 33.0R.
- Figure I-57 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 33.0R.
- Figure I-58 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 33.3R.
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- Figure I-61 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 43.7R.
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- Figure I-63 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 43.7R.
- Figure I-64 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 44.7R.
- Figure I-65 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 44.7R.
- Figure I-66 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 44.7R.
- Figure I-67 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 47.0L.
- Figure I-68 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 47.0L.
- Figure I-69 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 47.0L.
- Figure I-70 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 47.9R.
- Figure I-71 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 47.9R.
- Figure I-72 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 47.9R.
- Figure I-73 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 48.2R.
- Figure I-74 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 48.2R.
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- Figure I-76 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 62.5R.
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- Figure I-79 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 68.9L.
- Figure I-80 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 68.9L.
- Figure I-81 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 68.9L.
- Figure I-82 SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at site RM 78.0L.
- Figure I-83 SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at site RM 78.0L.
- Figure I-84 SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at site RM 78.0L.

1 INTRODUCTION

This Appendix provides the background data, assumptions, analyses and assessment of habitat compensation requirements of this Project for the benefit of the following special status fish species considered by the Standardized Assessment Methodology (SAM) for the Sacramento River Bank Protection Project (SRBPP):

Chinook salmon (<i>Oncorhynchus tshawytscha</i>)	
Central Valley spring-run	ESA Threatened
Central Valley fall-run	ESA Candidate
Central Valley late fall-run	ESA Candidate
Sacramento River winter-run	ESA Endangered
Central Valley steelhead (<i>Oncorhynchus mykiss</i>)	ESA Threatened
Delta smelt (<i>Hypomesus transpacificus</i>)	ESA Threatened

1.1 Background

The SAM (USACE 2004) was developed by the Corps, in consultation with an interagency working group (IWG) that included representatives from state and federal resource agencies (CDFG, NMFS, USFWS), the California State Reclamation Board and the California Department of Water Resources. The SAM is intended to address specific habitat assessment and regulatory needs to ensure adequate habitat loss mitigation and compensation measures are adopted for ongoing and future bank protection actions in the SRBPP planning area (USACE 2004). The SAM was designed to address a number of limitations associated with previous habitat assessment approaches and provide a tool to systematically evaluate the impacts and compensation requirements of bank protection projects based on the needs of listed SPECIAL STATUS fish species, as well as those listed under the Pacific Fishery Management Council's Salmon Fishery Management Plan.

1.2 SAM Modeling Approach

In general, the SAM quantifies habitat values in terms of bank line- or area-weighted species responses that are calculated by combining indices of habitat quality (i.e., fish response indices) with quantity (bank length or wetted area) for each season, target year, and relevant species/life stage. The SAM employs six habitat variables to characterize nearshore and floodplain habitats of listed fish species:

- **bank slope**—average bank slope along each average seasonal water surface elevation;
- **floodplain availability**—ratio of wetted channel and floodplain area during the 2-year flood to the wetted channel area during average winter and spring flows;

- **bank substrate size**—the median particle diameter of the bank (i.e., D50) along each average seasonal water surface elevation;
- **instream structure**—percent of shoreline coverage of instream woody material along each average seasonal water surface elevation;
- **aquatic vegetation**—percent of shoreline coverage of aquatic or riparian vegetation along each average seasonal water surface elevation; and
- **overhanging shade**—percent of the shoreline coverage of shade along each average seasonal water surface elevation.

A major advantage of the SAM over prior assessment methodologies is that it integrates species life history (life stage occurrence by reach and month) with flow-related variability in habitat quality and availability. The SAM does not directly model changes in the above variables. Instead habitat changes are entered by the user into an input data file to an electronic calculation template (ECT) that tracks species responses to Project actions over time. Changes in habitat variables may be fixed in time, such as installation of revetment at a particular slope and substrate size. In other circumstances, habitat evolution over time may be represented by more gradual changes in variables such as changes in floodplain inundation due to meander migration or changes in shade due to growth of planted vegetation. Typically, habitat evolution modeling is restricted to riparian growth models.

Once a particular time series of habitat variable estimates are developed and entered into an input file to the ECT, fish responses are calculated from previously developed relationships between habitat variables and species/life stage responses (USACE 2004). The response indices vary from 0 to 1, with 0 representing unsuitable conditions and 1 representing optimal conditions for survival, growth, and/or reproduction. For a given site and scenario (e.g., with or without Project), the SAM uses these relationships to determine the response of individual species and life stages to the measured or predicted values of each variable for each season and target year, and then multiplies these values together to generate an overall species response index. This index is then multiplied by the linear ft or area of bank to which it applies to generate a weighted species response index (expressed as ft or square ft). The species response index provides a common metric that can be used to quantify habitat values over time, compare Project alternatives to existing conditions, and evaluate the effectiveness of on-site and off-site mitigation actions.

2 HABITAT ANALYSIS

Following procedures described in the SAM (USACE 2004), planned construction activities at each site were translated into habitat variables for existing and with-Project conditions in each of four seasons using available data sources. The relevant habitat conditions to encode the conceptual response models for the focus fish species from the present to the future ($t = 0, 1, 5, 15, 25,$ and 50 yrs), and under with-Project and without-Project conditions are described below.

2.1 Habitat Unit Assignment and Study Reach Extent

Habitat units were assigned for each study reach that extend from the channel centerline to both left and right banks up to the Project levees. The delineated units encompass the adjacent floodplain and extend along the main channel following the procedures described in the SAM Users Manual (USACE 2006). Visible bank types were delineated using a GIS implementation of the USACE riprap database (USFWS 2002, USACE 2003), which was queried directly to indicate the presence of natural or revetted banks.

2.2 Hydraulic Data Analysis

2.2.1 Water surface elevations

Average fall, winter, spring, and summer water surface elevations (seasonal shoreline elevations) for the Project sites were estimated by USACE (B. Whitin 2006, pers. comm.) using U-Net (Barkau 1992, USACE 1997) modeling from daily flow data measured in the Sacramento River at the USGS gage locations listed below for the period 1967–2005:

- RM 78.5 (USGS 11425500 at Verona)
- RM 48 (USGS 11447650 at Freeport)

Because near Delta sites are strongly affected by tidal variations, water surface slope downstream of the Freeport gage were adjusted using linear regression on the distributary flow splits using the USACE (1997) Comprehensive Study UNET model results to estimate loss of flow between Freeport and downstream sites. Seasonal water surface elevations at Delta sites (downstream of RM 30) were assumed to be the same in all but 2-year storm flow conditions (Tables I-4 through I-31).

2.2.2 Wetted areas

Wetted area estimates for each Project site (Tables I-4 through I-31) were obtained from site descriptions provided by the Corps and represent the total planform area of the Project footprint. For the purposes of determination of the Floodplain Inundation ratio (discussed below), however, GIS software was used with average

shoreline elevations determined by U-Net to estimate wetted surface areas of the river (measured from the centerline of the river) to the bank-line intersection of a digital elevation model of the site topography.

2.2.3 Shoreline length

Shoreline lengths within the Project limits at each site (Tables I-4 through I-31) were defined as the total length of continuous shoreline (defined by the water's edge or corresponding contour line) corresponding to each average seasonal flow (USACE 2004). For areas away from the immediate vicinity of the Project sites, GIS software was used to estimate the wetted bank-line length at the intersection of the seasonal shoreline elevations described above. Bank lengths within the Action area of each Project site were obtained from the Ayres (2006a) SRBPP erosion inventory report. Based on the Project descriptions, no significant changes in shoreline length are expected under with-Project conditions.

2.3 Present Day and Future Habitat Variable Estimates

With habitat units for each Project site represented by its size (i.e., bank line length, wetted area), habitat variables may be estimated by a number of methods. Although initially collected to determine specific location and extent of bank revetment, a subsequent use of the riprap data (USFWS 2002) in the SAM was to establish habitat variable estimates. Tables I-4 through I-31 summarize the SAM input data that were used to characterize existing and with-Project conditions at each site. Data from the above sources are discussed further below as they are applied in the estimation of present-day and future habitat conditions in the SAM.

2.3.1 Bank slope

In the SAM, bank slope serves as an indicator of the availability of shallow-water habitat and is obtained from point estimates of bank slope (horizontal change to vertical change) along each seasonal shoreline (i.e., the line where the water surface intersects the bank on average in fall, winter, spring, and summer). For the purposes of this assessment, the bank slope extending from each seasonal shoreline to a depth of 3 ft was used to characterize shallow water habitat. For pre-Project conditions and at locations away from the immediate vicinity of the Project sites, GIS software was used with the DEM of topography at each site to estimate the bank slope corresponding to each seasonal shoreline elevation described above. Bank slope within the Action area of each Project site were obtained from preliminary design drawings (Ayres 2006b) and assumed to be 2:1 at all sites.

2.3.2 Floodplain inundation ratio

In the SAM, floodplain habitat is defined by areas that are flooded by the 2-year flood event (Q2) and measured by dividing the wetted channel and inundated floodplain areas during the 2-year flood event by the wetted channel area during average winter and spring flows. GIS software was used to estimate the wetted surface areas corresponding

to each seasonal shoreline elevation described above. Using the wetted areas estimated for the 2-year recurrence interval flows (B. Whitin 2006, pers. comm.). Tables I-4 through I-31 show the floodplain inundation ratio for all sites was on the order of 1–1.2 corresponding to a narrowly confined channel between the levees. No changes in the estimated inundation ratio and habitat values under with-Project conditions were applied in the assessment.

2.3.3 Bank substrate size

Bank substrate size was measured as the median particle size (D_{50} in inches) within the submerged portion of the bank immediately below (0–3 ft) the average seasonal water surface level. For pre-Project conditions, bank-length weighted estimates of substrate size were determined from prior survey data with a value of 0.25 inch assigned to natural bank areas with fine sediment and the D_{50} of the dominant substrate in other bank segments dependent on practices at the time of construction. Bank substrate size within the Action area of each Project site was estimated from existing designs for similar bank protection projects. During Phase 1 of the Project (Winter 2007/07) bank substrate at all sites is assumed to be similar to pre-Project conditions. In Phase 2, from summer 2007 through Year 50 of the analysis, substrate size was assumed to average 4-inches (D_{50}) for the soil-filled rock at the summer/fall water line and 0.25 inches at the winter/spring water line.

2.3.4 Instream structure

Instream structure is defined as instream woody material (excluding live bank vegetation) that is partially or fully submerged during average seasonal flows. This variable was measured by estimating the percent of shoreline at each site that is occupied by instream woody material within the inundation zone associated with each average seasonal flow under existing and with-Project conditions. Prior visual survey estimates of the linear extent of existing instream woody material along the summer-fall and winter-spring shoreline were queried from the USACE riprap data base (USFWS 2002) to estimate bank line coverage within the Project site. Instream structure estimates within the Action area of each Project site were obtained from preliminary design drawings (Ayres 2006b) and presented in Tables I-4 through I-31. For the purposes of the assessment, initial losses in instream woody material from winter 2006/07 work (Phase 1) would be replaced following Phase 2 of the proposed Project in the fall of Year 1 of the assessment. Although the longevity of these features has not been validated through extensive monitoring, the assessment assumes the amount of instream woody material present after construction would not change significantly during the 50-year Project planning period.

2.3.5 Aquatic vegetation

Aquatic vegetation is defined as aquatic or live riparian vegetation that is partially or fully submerged during average seasonal flows. This variable was measured by estimating the percent of shoreline that is occupied by vegetation within the inundation zone associated with each average seasonal flow under existing and with-Project

conditions. Measurements of the linear extent of existing vegetation along the summer-fall and winter-spring shoreline were queried from the USACE riprap data base (USFWS 2002) to estimate bank line coverage within the Project site with an assumption that submerged bank vegetation at winter and spring river stages provides a similar cover function as aquatic vegetation (USACE 2006). In addition to the planned wetland enhancements at five sites (RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R), similar assumptions were applied to bank revegetation plans within the Action area of each Project site obtained from preliminary design drawings (Ayres 2006b) and presented in Tables I-4 through I-31.

2.3.6 Shade

Shade was measured by estimating the percent of shoreline in which riparian vegetation extends over the water during average seasonal flows. Prior visual estimates of the linear extent of shade along the summer-fall and winter-spring shoreline were queried from the USACE riprap data base (USFWS 2002) to estimate bank line coverage within the Project site. Overhanging shade estimates within the Action area of each Project site were obtained from preliminary design drawings (Ayres 2006b) and presented in Tables I-4 through I-31. A time series of overhanging shade was estimated for the Project sites using riparian growth modeling of restricted and unrestricted planting plans (Tables I-2 and I-3) and riparian growth models presented in the SAM document (USACE 2004). Published data from floodplain restoration sites in California indicate that a reasonable survival rate after 3 years is 65 percent (Alpert et al. 1999; Morris 1993). Tree density and cover was adjusted for expected mortality due to inter-specific competition and other factors.

Based on the Project descriptions and general planting plans, it was assumed that all mature trees that currently shade the winter-spring shoreline at each site would be maintained under with-Project conditions. Initial (Year 0) shade values were conservatively estimated at 25% of existing conditions due to a combination of two factors. First, the bank fill Projects serve to shift the bank line intersection of the seasonal water surfaces towards the channel centerline and away from the existing vegetation. Second, riprap placement will remove all mid- and low-canopy shade that remains with some losses to mature trees as well. Table I-3 shows the shade evolution for the proposed planting plans on the riparian benches for the Project sites. Even with these plantings, the combined shade of existing and planted trees means that little or no riparian shade be present for several years (i.e., 3–5) following Project implementation, since it is unlikely that plantings will reach minimum canopy diameters required to achieve shading benefits of rearing juveniles along the riverbank. In the longer-term, expected increases in canopy widths of both existing trees as well as trees and shrubs planted on the constructed berms and upper slopes would eventually result in nearly 100% shading of the summer-fall shoreline (Tables I-4 though I-31).

3 BIOLOGICAL SIMULATION AND ASSESSMENT

Following the procedures outlined in the SAM Users Manual (USACE 2006), the ECT (version 2.6) was used to quantify the responses of the target fish species and life stages to with-Project conditions over a 50-year Project period relative to the species and life stage responses under without-Project (existing) conditions. As described above, modified conceptual response models were updated within the ECT and used to calculate a time series of the relative response indices for each alternative scenario developed above. Biological responses of each focus fish species life stage were predicted within each habitat unit and for each time step based on habitat variable values and fish residency determined from reach specific timing tables (USACE 2004). Based upon the locations of the proposed Project sites, the following focus fish species were considered in subsequent analyses using the species life-history timing tables developed for the SAM (USACE 2004):

- Chinook salmon
 - Central Valley spring-run
 - Central Valley fall-run
 - Central Valley late fall-run
 - Sacramento River winter-run
- Central Valley steelhead
- Delta smelt

The ECT automatically includes or excludes particular life stages of the focus fish from analysis by assessing the river mile locations of the modeled habitat units with the encoded timing tables. Although RM 20 is considered the upstream extent of the salt and freshwater mixing zone (X2) which is preferred habitat of delta smelt (USFWS 2002a), critical habitat for delta smelt extend to RM 60, just above the confluence of the American River. For this reason, the SAM assesses the potential for occurrence of delta smelt from RM 0 to 80 (USACE 2004).

3.1 Modifications to Parameters and Species Response Curve

3.1.1 Modifications of delta smelt response curves to bank cover parameters

Following a recent review and evaluation of the SAM results for delta smelt at other bank protection sites (JSA 2005) presented several recommendations to the IWG to improve the accuracy of the SAM in characterizing the habitat values for delta smelt within their designated critical habitat (RM 0–80). In particular, the results of the USACE (2004) SAM ECT (v2.5) assumed decreasing habitat values for juvenile rearing and adult life stages in response to bank cover attributes as these provide greater habitat suitability for ambush predators (USACE 2004). However, recent discussions within the IWG indicate that due to their generally pelagic life history strategy, only spawning and the earliest early larval life stages of delta smelt would be sensitive to changes in bank-line habitat attributes. Accordingly, ECT v2.5 response curves for juvenile smelt were changed in a recent (v2.6) update to the ECT to match those for spawning and adult

responses were set equal to one to indicate no sensitivity to bank line cover attributes (IWM %, Aquatic Vegetation %, or Shade %).

3.1.2 Modeling and exchange of excess wood placed upstream of RM 30

Initial consultation regarding habitat features to be included in the current Project re-elevated prior concerns raised during the SAM development regarding the conflicts between beneficial effects of instream woody material for salmonids and adverse effects upon delta smelt due to increased habitat suitability for ambush predators.

USFWS representatives requested that no anchored instream woody material would be included in the Project designs downstream of RM 30, including sites RM 16.9L, 19.0R, 19.4R, and 22.7R. Because this decision constrained the ability for these sites to be constructed in a self-mitigating design for various salmonid life stages at these sites, an agreement was reached at a design review meeting on 11/16/06 to allow excess anchored wood placed at sites in Reach 1B upstream of RM 30 (including sites RM 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R) to be used as an off-site mitigation for the Delta sites.

The final design implementation for sites upstream of RM 30 will include 80% bank line cover of IWM. However, SAM analyses for these sites used 40% cover because the species response curves show no further gains above 40% cover. Accordingly, the difference in actual (80%) and modeled (40%) cover was credited from the near Delta sites above RM 30 to those downstream of RM 30 (Tables I-5, I-7, I-9, and I-11) show instream woody material at a 40-percent cover.

Total bank cover of IWM at the sites above RM 30 (sites RM 33.0R, 33.3R, 43.7R, 44.7R, 47.0L, 47.9R, and 48.2R) is planned to be 80% of the site lengths or 5,170 ft. Of the 40% bank cover not accounted within the SAM analysis (2,585 ft), some 500 ft is assumed to have been applied to the 4 sites downstream of RM 30 in the SAM analysis (40% of the total length of 1,256 for sites RM 16.9L, 19.0R, 19.4R, and 22.7R). By the rationale in the above discussion, the remaining 2,085 ft will be available for use in off-site mitigation at other Project sites downstream of RM 30.

3.2 Comparisons of Relative Responses to With- and Without-Project Conditions

Assessment of the implemented actions at the Project sites requires a comparison of the with-Project scenario results discussed above to the pre-existing environmental baseline. The results represent habitat preferences of the focus fish species and their modeled responses (USACE 2004) to 1) construction modifications (e.g., riprap, rock clusters, IWM, vegetation) to the environmental baseline, and 2) longer term changes in cover values from growth of the riparian and aquatic plant communities.

Relative response comparisons are presented in Tables 32–45 and Figures 1–42 on a bank-line weighted basis, with wetted-area weighted results presented in Tables 46–59 and Figures 43–84. Cumulative relative response comparisons for sites within RM 0–

20 and 20–80 are presented in Tables 60–63. In general, positive differences between the with- and without-Project responses are assessed as a net benefit for the focus fish species (i.e., the proposed action produces superior conditions than the environmental baseline). Negative differences indicate conditions producing inferior conditions as compared to the environmental baseline and generally require additional habitat compensation.

3.3 Results Summary by Planned On-site Mitigation Features Group

The changes in habitat values to salmonids and delta smelt resulting from Project construction impacts and proposed mitigation features were modeled using the SAM. Although the analysis will be repeated during or following construction to more accurately reflect as-built conditions, results using the initial site designs indicate initial deficits in habitat for salmonids and delta smelt at many sites, followed by recovery and net positive responses for most salmonid and delta smelt life stages at most sites over the modeled 50-year period.

For the following summary of SAM model results, the 14 Project sites have been separated into three distinct groups based on the planned on-site mitigation features. A summary of those features at each Project site is in Table I-1 and the three groups are defined as follows:

- **Group 1:** Planted wetland and riparian benches and restricted planting plans (sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7L)
- **Group 2:** Planted riparian benches and restricted planting plans (sites RM 33.0R, 43.7R, 44.7R, 47.9R, and 48.2R)
- **Group 3:** Planted riparian benches and unrestricted planting plans (RM 47.0R, 62.5R, 68.9L, and 78.0L)

Group 1: Five sites with planted wetland and riparian benches and restricted planting plans (sites RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R)

3.3.1 Salmon and steelhead

Implementation of the Project within the five sites with planted wetland and riparian benches and restricted planting plans (sites RM 16.9L, 19.0R, 19.4R and 22.7R, and 43.7R) would result in a long-term decrease of bank slope and temporary losses of aquatic and riparian vegetation and IWM along the affected shorelines. The decrease of bank slope would present a long-term benefit to juvenile and smolt salmonid life-stages. The temporary losses of aquatic and riparian vegetation and IWM would initially reduce year-round habitat value for most salmonid life stages at many sites, and would contribute to longer-term summer and fall habitat deficits for adults at most sites where they are seasonally present. These cover losses, however, would occur concurrently with construction of planted wetland and riparian benches at sites (RM 16.9L, 19.0R, 19.4R, 22.7R, and 43.7R). The constructed wetland benches are expected to increase the availability of valuable shallow-water rearing habitat for juvenile salmonids, resulting in net increases in habitat for juveniles and smolts at these sites. The typically high density of planted wetland vegetation would minimize the wetland bench area available to large

predators such as largemouth bass, and predation rates in the constructed wetland habitat would therefore not be expected to exceed predation rates that normally occur in other seasonally flooded off-channel habitats where salmon and steelhead may rear.

Anchored IWM, placed on the riparian bench at site RM 43.7R and IWM credited towards the sites downstream of RM 30 (sites RM 16.9L, 19.0R, 19.4R, and 22.7R) would result in a net increase in IWM at winter and spring water levels. The modeled increase in winter and spring instream structure at these sites would contribute to wet season gains in habitat value for all species and life stages present. In summer and fall, however, anchored IWM would not be usable at the sites because IWM would be placed above the mean summer water line and would therefore not be inundated during typical summer and fall (i.e., low) flows. The loss of IWM cover during summer and fall would also result in long-term reductions in summer and fall habitat value at the site for migrating adult salmon and steelhead and for resident adult steelhead.

In winter and spring, the SAM model results indicate potential short-term habitat deficits with recovery to pre-Project conditions by Year 5, and potential long-term habitat deficits in summer and fall. Adult steelhead are particularly susceptible to reductions in summer and fall IWM due to the potential importance of instream cover for adults that may be resident or migrating upstream. The initial habitat deficit for juveniles and smolts modeled by the SAM at the five sites is driven by the loss of instream and overhead cover during Project construction. At site RM 43.7R, the addition of anchored IWM would compensate for initial winter and spring losses of juvenile, smolt, and adult habitat modeled, with net increases in winter and spring habitat for these life stages occurring no later than Year 5. At Delta sites, using the excess wood from upstream sites as design inputs to the SAM model at the Delta sites, habitat responses show a net increase in winter and spring habitat by Year 5 (site RM 16.9L, 19.4R, and 22.7R) or Year 15 (RM 19.0R). At sites RM 16.9L, 19.4R, 22.7R, and 43.7R, the nearshore habitat created by vegetated wetland benches would produce a relatively rapid positive habitat response for salmonid juveniles and smolts. This positive habitat response would be more gradual, however, at site RM 19.0R, due to a more pronounced initial loss of instream structure and subsequent slower recovery of nearshore cover for juveniles and smolts. Initial winter and spring deficits in juvenile and/or smolt habitat would be relieved by Year 5 at RM 16.9L, 19.4R, 22.7R, and 43.7R, and by Year 15 at site RM 19.0R.

In summer and fall, when IWM added would be above the mean water line and not available as habitat, the SAM model results indicate that initial juvenile and smolt habitat deficits at most sites would be gradually compensated by increasing riparian shade. SAM model results indicate immediate summer and fall habitat increases for salmonid juveniles and smolts at site RM 19.4R, and a net increase in summer and/or fall habitat for juveniles by Year 5 at sites RM 16.9L, 22.7R, and 43.7R and by Year 25 at site RM 19.0R.

A reduction in shade as a consequence of the temporary loss of riparian canopy cover would lessen the habitat value for adult salmonids due to reduced cover available for potential resting and holding habitat during upstream migration (Chinook salmon and

steelhead) and residence (steelhead). However, over time the increasing shade value of planted riparian vegetation would result in eventual net increases in juvenile and smolt habitat in summer and fall at the five sites.

In summary, for adult salmon and steelhead, initial losses of summer and fall habitat for upstream migration (both species) and resident fish (steelhead) caused by reductions in available IWM would persist through Year 50 at the five sites despite gradual improvements during the modeled time period. The observed discrepancy between adult Chinook salmon and steelhead response is driven by the greater sensitivity of steelhead to reduced instream structure and overhanging shade. It is possible, however, that recovery may occur more rapidly, since the SAM model was run assuming worst-case scenarios in terms of loss of existing IWM and riparian shade values due to construction impacts (Tables I-4 through I-31). The establishment and growth of riparian vegetation on the riparian benches and emergent aquatic vegetation on the wetland benches at the five sites is expected to increase habitat values by increasing the extent of instream and overhead cover available to juvenile salmonids.

3.3.2 Delta smelt

Delta smelt may be present at any of the Project sites throughout their life cycle, especially within the five sites closest to the Delta (sites RM 16.9L, 19.0R, 19.4R, and 22.7R). Within this reach, areas downstream of RM 20 are likely to be the most used by delta smelt (Moyle 2002). Short-term construction-related effects include removal of riparian vegetation and IWM from the streambank that may result in the loss of overhead and instream cover. The wetland benches, planted with emergent aquatic vegetation, are expected to provide suitable spawning and rearing habitat for delta smelt at these sites, resulting in relatively rapid recovery from initial deficits in spawning and incubation and juvenile rearing habitat caused primarily by removal of existing aquatic vegetation during Project construction. Proposed planting of emergent vegetation at these sites would enhance habitat complexity by providing cover, incubation habitat, and possibly spawning habitat, especially during high winter and spring flows. The on-site mitigation Project effects at these sites would be beneficial to all delta smelt life stages.

The SAM model results indicate initial reductions in habitat values for delta smelt spawning and incubation and juvenile rearing life stages at all five sites, with rapid recovery and long-term habitat benefits in all seasons where they are present (i.e., Winter, Spring, and Fall). Model results indicate immediate gains in summer habitat for spawning and incubation and juvenile rearing at sites RM 19.4R and 43.7R. At sites RM 16.9L, 19.0R, and 22.7R, excess IWM wood credited at 40% bank line cover from nearby sites upstream of RM 30 was not credited during summer because the anchored wood would normally be above the summer water surfaces. Nevertheless, the SAM modeling indicates positive summer habitat responses for spawning, incubation, and juvenile rearing by Year 5. This is primarily the results of increased cover values provided by planted wetland benches at these sites.

Group 2: Five sites with planted riparian benches and restricted planting plans (sites RM 33.0R, 33.3R, 44.7R, 47.9R, and 48.2R)

3.3.3 Salmon and steelhead

Similar to the effects of construction incurred at the Group 1 sites, the implementation of the Project within the five sites of Group 2—with planted wetland and riparian benches and restricted planting plans (sites RM 33.0R, 33.3R, 44.7R, 47.9R, and 48.2R)—would result in temporary losses of aquatic and riparian vegetation and IWM along the affected shorelines.

The SAM model results indicate potential short-term habitat deficits in winter and spring, with recovery to pre-Project conditions by Year 5, and potential long-term habitat deficits in summer and fall, with recovery to pre-Project conditions of juvenile and smolt life-stages occurring at sites RM 33.0R and 33.3R by Year 25. Initial habitat losses occur for most salmonid life stages at all sites, and would contribute to longer-term summer and fall habitat deficits for adults at sites where they are seasonally present. These cover losses, however, would occur concurrently with construction of planted riparian benches at the five sites that serve to enhance habitat value to juvenile and smolt life-stages during winter and spring high flows.

Changes in bank slope and substrate size will also occur due to construction activities. All sites within this Project design group will have a long-term decrease in bank slope during winter and spring seasons resulting in positive habitat value for juvenile and smolt life-stages. These life-stages are expected to additionally benefit from the long-term decrease in substrate sizes at the five sites during winter and spring.

Anchored IWM, placed on the banks at the five Sacramento River sites would result in a net increase in IWM at winter and spring water levels. The immediate increase in winter and spring instream structure at the five sites contributes to wet season gains in habitat value for all species and life stages present. In summer and fall, however, anchored IWM would not be usable at the site because IWM would be placed above the mean summer water line and would therefore not be inundated during typical summer and fall (i.e., low) flows. This effective seasonal reduction in IWM, an important structural habitat component for salmonid juveniles and smolts, would result in long-term deficits in summer and fall habitat for juveniles and smolts at sites where increases in riparian shade are not sufficient to compensate for the loss of instream structure (i.e., sites RM 44.7R, 47.9R, and 48.2R). The loss of IWM cover during summer and fall would also result in long-term reductions in summer and fall habitat value at the site for migrating adult salmon and steelhead and for resident adult steelhead. Adult steelhead are particularly susceptible to reductions in summer and fall IWM due to the potential importance of instream cover for adults that may be resident or migrating upstream. The initial habitat deficit for juveniles and smolts modeled by the SAM at the five sites is driven by the loss of instream and overhead cover during Project construction.

The addition of anchored IWM at these sites would compensate for initial winter and spring losses of juvenile, smolt, and adult habitat modeled at many of these upstream sites, with net increases in winter and spring habitat for these life stages occurring no later than Year 5. In summer and fall, when added IWM would be above the mean water

line and not available as habitat, initial juvenile and smolt habitat deficits at most sites would be gradually compensated by increasing riparian shade. SAM model results indicate a net increase in summer and fall habitat by Year 15 at site RM 33.3R and by Year 25 at site RM 33.0R.

A reduction in shade as a consequence of the temporary loss of riparian canopy cover would lessen the habitat value for adult salmonids due to reduced cover available for potential resting and holding habitat during upstream migration (Chinook salmon and steelhead) and residence (steelhead). Over time, the increasing shade value of planted riparian vegetation would result in eventual net increases in juvenile and smolt habitat in summer and fall at the five sites. However, at sites RM 44.7R, 47.9R, and 48.2R, increased riparian shade is not sufficient to compensate for summer and fall reductions in juvenile and smolt cover caused by the permanent losses of IWM and the initial and continued lack of aquatic vegetation.

In summary, summer and fall rearing habitat for salmonid juveniles and smolts would not recover to pre-Project conditions over the 50-year planning period at sites RM 44.7R, 47.9R, and 48.2R. The lasting habitat deficits modeled by the SAM are attributable to unrecovered losses of instream structure under summer and fall flow conditions at all sites, and a slight steepening of the banks at the summer and fall waterline at sites RM 44.7R and 48.2R. For adult salmon and steelhead, initial losses of summer and fall habitat for upstream migration (both species) and resident fish (steelhead) caused by reductions in available IWM would persist through Year 50 at all five sites, although small increases in summer and fall habitat occur over this time period. The observed discrepancy between adult Chinook salmon and steelhead response is driven by the greater sensitivity of steelhead to reduced instream structure and overhanging shade. It is possible, however, that recovery may occur more rapidly, since the SAM model was run for a worst-case scenario in terms of loss of existing IWM and riparian shade values due to construction impacts (Tables I-4 through I-31). The establishment and growth of riparian vegetation on the riparian benches at all five sites is expected to increase habitat values by increasing the extent of instream and overhead cover available to juvenile salmonids.

3.3.4 Delta smelt

Delta smelt may be present at any of the Project sites throughout their life cycle. The loss of overhead and instream cover may occur as a result of riparian vegetation and IWM removal from the streambank during Project construction. At the five sites, the Project design includes placement of anchored IWM above the mean summer water line, but no wetland habitat would be created. Although planted riparian vegetation would result in a long-term net increase in shade at these sites, the added IWM at these sites would not provide usable habitat during summer and no increase in summer availability of aquatic vegetation is expected to occur. Initial losses of instream and overhead cover during summer would therefore not be compensated by Project design features and summer habitat for the spawning and incubation and juvenile rearing life stages is not expected to recover to pre-Project conditions. Because none of these Project design features would fully compensate for long-term reductions in nearshore summer habitat

values at these sites, the Project would adversely affect summer spawning and incubation and juvenile rearing habitat for delta smelt. In winter and spring, the seasonal inundation of anchored IWM at these Sacramento River sites is expected to provide cover and may provide necessary submerged substrates for delta smelt spawning. Winter and spring inundation of shoreline vegetation at these sites would also increase seasonal availability of complex habitat for rearing larvae and juveniles. These features would result in rapid recovery of initial habitat deficits for spawning and incubation and juvenile rearing, and net benefits for these life stages.

Although the proposed Project would result in summer losses of shade and complex shoreline habitat at nearly all sites upstream and inclusive of RM 33, the actual effect of these losses on delta smelt is unlikely to be substantial because delta smelt do not typically occur upstream of RM 20 (Moyle 2002). Even during periods of low Sacramento River outflow, when delta smelt distribution is at its farthest upstream extent, the highest delta smelt abundance consistently occurs near Decker Island (RM 8) (Bennett 2000).

The SAM model results of changes in habitat values to delta smelt affected by Project construction impacts and proposed mitigation features indicate initial reductions in habitat for spawning, incubation, and juvenile rearing life stages at sites RM 33.0R, 44.7R, 47.9R, and 48.2R, with rapid recovery and long-term habitat benefits in winter and spring by Year 5. Model results indicate immediate gains in winter and spring habitat for these life-stages at site RM 33.3R. Deficits in summer spawning, incubation, and rearing habitat would persist through the modeled 50-year period at all five sites. Long-term deficits in summer habitat for spawning, incubation, and rearing are greatest at site RM 44.7R due primarily to large losses of existing riparian shade and un-recovered losses of instream structure under summer and fall flow conditions. However, while the proposed Project would result in summer losses of shade and complex shoreline habitat at nearly all five sites in this group, the actual effect of these losses on delta smelt is unlikely to be substantial because delta smelt do not typically occur upstream of RM 20 (Moyle 2002). Even during periods of low Sacramento River outflow, when delta smelt distribution is at its farthest upstream extent, the highest delta smelt abundance consistently occurs near Decker Island (RM 8) (Bennett 2000). Although these impacts are not expected to be significant at these five sites due to the typical restricted downstream distribution of delta smelt, SAM results indicate that off-site mitigation would be required to offset potentially significant long-term impacts on spawning and incubation and juvenile rearing habitat.

Group 3: *Four sites with planted riparian benches and unrestricted planting plans (sites RM 47.0L, 62.5R, 68.9L, and 78.0L)*

3.3.5 Salmon and steelhead

Similar to the effects of construction incurred at the Groups 1 and 2 sites, the implementation of the Project within the four sites of Group 2—with planted riparian benches and unrestricted planting plans (sites RM 47.0L, 62.5R, 68.9L, and 78.0L)—would result in temporary losses of aquatic and riparian vegetation and IWM along the

affected shorelines. The SAM model results indicate potential short-term habitat deficits in winter and spring, with recovery to pre-Project conditions by Year 5, and potential long-term habitat deficits in summer and fall, with recovery to pre-Project conditions of juvenile and smolt life-stages occurring at sites RM 68.9L and 78.0L by Year 50. Initial habitat losses occur for most salmonid life stages at all sites, and would contribute to longer-term summer and fall habitat deficits for adults at sites where they are seasonally present. These cover losses, however, would occur concurrently with construction of planted riparian benches at the five sites that serve to enhance habitat value to juvenile and smolt life-stages during winter and spring high flows.

Changes in bank slope and substrate size will also occur due to construction activities. All sites within this Project design group will have a long-term decrease in bank slope during winter and spring seasons resulting in positive habitat value for juvenile and smolt life-stages. These life-stages are expected to additionally benefit from the long-term decrease in substrate sizes at the five sites during winter and spring.

Anchored IWM, placed on the riparian benches at the four sites would result in a net increase in IWM at winter and spring water levels. The immediate increase in winter and spring instream structure at the four sites contributes to wet season gains in habitat value for all species and life stages present. In summer and fall, however, anchored IWM would not be usable at the site because IWM would be placed above the mean summer water line and would therefore not be inundated during typical summer and fall (i.e., low) flows. This effective seasonal reduction in IWM, an important structural habitat component for salmonid juveniles and smolts, would result in long-term deficits in summer and fall habitat for juveniles and smolts at sites where increases in riparian shade are not sufficient to compensate for the loss of instream structure at sites RM 68.9L and 78.0L. The loss of IWM cover during summer and fall would also result in long-term reductions in summer and fall habitat value at the site for migrating adult salmon and steelhead and for resident adult steelhead. Only at sites RM 68.9L and 78.0L would the eventual increase in summer and fall overhead cover be sufficient to compensate for the loss of habitat and produce habitat gains sufficient to approach or exceed pre-Project conditions for adults of both species.

In summer and fall, when IWM added would be above the mean water line and not available as habitat, initial juvenile and smolt habitat deficits at most sites would be gradually compensated by increasing riparian shade. SAM model results indicate a net increase in summer and/or fall habitat for juveniles by Year 25 at sites RM 47.0L and 68.9L and by Year 50 (in fall only) at site RM 78.0L.

A reduction in shade as a consequence of the temporary loss of riparian canopy cover would lessen the habitat value for adult salmonids due to reduced cover available for potential resting and holding habitat during upstream migration (Chinook salmon and steelhead) and residence (steelhead). Over time, the increasing shade value of planted riparian vegetation would result in eventual net increases in juvenile and smolt habitat in summer and fall at the four sites. However, at sites RM 47.0L, 68.9L and 78.0L, increased riparian shade is not sufficient to compensate for summer and fall reductions in

juvenile and smolt cover caused by the permanent losses of IWM and the initial and continued lack of aquatic vegetation. Differences in life stage-specific SAM response curves for shoreline cover variables and discrepancies in initial (pre-Project) shade values between summer and fall at some sites result in modeled differences in recovery rates between juveniles and smolts and between seasons at various sites. For example, at site RM 47.0L, increasing riparian shade would relieve initial habitat deficits for juvenile spring-run Chinook salmon and create net increases in fall habitat by Year 25, but at the same site summer habitat for this species and life stage would not recover until Year 50.

In summary, summer and fall rearing habitat for salmonid juveniles and smolts would not recover to pre-Project conditions at site RM 62.5R over the 50-year period modeled by the SAM. At site RM 78.0L, losses of summer and fall habitat for Chinook salmon smolts would also fail to recover during the modeled 50-year period. The lasting habitat deficits modeled by the SAM are attributable to un-recovered losses of instream structure under summer and fall flow conditions at all sites, and a slight steepening of the banks at the summer and fall waterline at sites RM 62.5R, 68.9L, and 78.0L. At sites RM 68.9L and 78.0L, small increases in summer and fall habitat for upstream migrating adult Chinook salmon would be realized in Year 50 due to increases in overhead cover provided by maturing riparian vegetation. Fall habitat value for adult migrant and resident steelhead would return to pre-Project conditions by Year 50 at Sacramento River sites RM 68.9L and 78.0L, as would summer habitat value at site RM 68.9L. At site RM 78.0L, however, the summer habitat deficit for adult migrant and resident steelhead would persist through the modeled 50-year period. The observed discrepancy between adult Chinook salmon and steelhead response is driven by the greater sensitivity of steelhead to reduced instream structure and overhanging shade. It is possible, however, that recovery may occur more rapidly, since the SAM model was run for assuming worst-case scenario in terms of loss of existing IWM and riparian shade values due to construction impacts (Tables I-4 through I-31). The establishment and growth of riparian vegetation on the riparian benches at all sites is expected to increase habitat values by increasing the extent of instream and overhead cover available to juvenile salmonids.

3.3.6 Delta smelt

Delta smelt may be present at any of the Project sites throughout their life cycle, however delta smelt do not typically occur upstream of RM 20 (Moyle 2002). The loss of overhead and instream cover may occur as a result of riparian vegetation and IWM removal from the streambank during Project construction. At the four sites, the Project design includes placement of anchored IWM above the mean summer water line, but no wetland habitat would be created. Although planted riparian vegetation would result in a long-term net increase in shade at these sites, the added IWM at these sites would not provide usable habitat during summer and no increase in summer availability of aquatic vegetation is expected to occur. Initial losses of instream and overhead cover during summer would therefore not be compensated by Project design features and summer habitat for the spawning and incubation and juvenile rearing life stages is not expected to recover to pre-Project conditions. Because none of these Project design features would fully compensate for long-term reductions in nearshore summer habitat values at these sites, the Project would adversely affect summer spawning and incubation and juvenile

rearing habitat for delta smelt. In winter and spring, the seasonal inundation of anchored IWM at these Sacramento River sites is expected to provide cover and may provide necessary submerged substrates for delta smelt spawning. Winter and spring inundation of shoreline vegetation at these sites would also increase seasonal availability of complex habitat for rearing larvae and juveniles. These features would result in rapid recovery of initial habitat deficits for spawning and incubation and juvenile rearing, and net benefits for these life stages.

The SAM model results of changes in habitat values to delta smelt affected by Project construction impacts and proposed mitigation features indicate initial reductions in habitat for spawning, incubation, and juvenile rearing life stages at sites RM 47.0L, 62.5R, and 68.9L, with rapid recovery and long-term habitat benefits in winter and spring where by Year 5. Model results indicate immediate gains in winter and spring habitat for these life-stages at site RM 78.0L. Deficits in summer spawning, incubation, and rearing habitat would persist through the modeled 50-year period at all four sites. These deficits indicate that off-site mitigation would be required to offset the potentially significant long-term impacts to habitat quality, despite that these impacts are not expected to be significant due to the typical restricted downstream distribution of delta smelt.

4 DISCUSSION

4.1 Salmon and steelhead

SAM results indicate that there are no long-term effects on winter and spring habitat upon any life stage of special-status salmon and steelhead (Tables I-60 through I-63). During winter and spring the Project is expected to provide long-term increases in habitat for Sacramento River winter-run Chinook salmon, Central Valley spring-run Chinook salmon, and Central Valley steelhead.

In summer and fall when river stage is lowest, mitigation features included in the Project design would not compensate for potentially significant long-term impacts on habitat at the majority of sites for upstream migrating adult salmon and steelhead and resident steelhead (Tables I-60 and I-61). Potentially significant long-term impacts on habitat for rearing juveniles and outmigrating smolts at sites RM 44.7R, 47.0L, 47.9R, 48.2R, 62.5R and 78.0L are not mitigated by Project design features. Off-site mitigation would be required to mitigate these impacts to less than significant levels. Because the species timing tables developed for the SAM (USACE 2004) indicate that juvenile rearing and smolt outmigration occur at similar times of year at other locations within the SRBPP (RM 0–194), mitigation sites may potentially be considered in other reaches of the Sacramento River. NMFS (2001) guidance on the maximum distance between impact and mitigation sites (< 50 miles) and the availability of other suitable habitat in the vicinity of these upstream Sacramento River sites would be considered in developing proposed off-site mitigation sites.

4.2 Delta smelt

Potential long-term adverse impacts on delta smelt and their critical habitat are expected to occur only under summer flow conditions at sites RM 33.0R, 33.3 R, 44.7R, 47.0L, 47.9R, 48.2R, 62.5R, 68.9L, and 78.0L (Tables I-32 through I-63). Although these impacts are not expected to be significant due to the typical restricted downstream distribution of delta smelt, SAM results indicate that off-site mitigation would be required to offset potentially significant long-term impacts on spawning and incubation and juvenile rearing habitat. Because delta smelt are restricted to waters with suitable salinity, prior USFWS (2001) recommendations indicate that potential mitigation sites should be located within the lower reaches of the SRBPP (RM 0–80). Within this reach, areas downstream of RM 20 are likely to be the most used by delta smelt (Moyle 2002).

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Appendix I

Tables

Table I-1
Summary of planned on-site mitigation features at project sites

Site	Wetland Bench	Anchored Wood	Riparian Bench	Planting Plan
RM 16.9L	Yes		Yes	Restricted
RM 19.0R	Yes		Yes	Restricted
RM 19.4R	Yes		Yes	Restricted
RM 22.7R	Yes		Yes	Restricted
RM 33.0R		Yes	Yes	Restricted
RM 33.3R		Yes	Yes	Restricted
RM 43.7R	Yes	Yes	Yes	Restricted
RM 44.7R		Yes	Yes	Restricted
RM 47.0L		Yes	Yes	Restricted
RM 47.9R		Yes	Yes	Un-restricted
RM 48.2R		Yes	Yes	Restricted
RM 62.5R		Yes	Yes	Un-restricted
RM 68.9L		Yes	Yes	Un-restricted
RM 78.0L		Yes	Yes	Un-restricted

Table I-2
Generalized planting plan used for shade modeling for 14 winter 2006 priority sites

Species	Common Name	Restricted	Unrestricted
<i>Acer negundo</i>	box elder		23
<i>Alnus rhombifolia</i>	white alder		23
<i>Fraxinus latifolia</i>	Oregon ash		23
<i>Platanus racemosa</i>	Western sycamore		23
<i>Populus fremontii</i>	Fremont cottonwood		115
<i>Quercus lobata</i>	Valley oak		46
<i>Salix gooddingii</i>	Goodding's willow		46
<i>Salix laevigata</i>	red willow	427	46
<i>Salix lasiolepis</i>	arroyo willow		46
<i>Rosa californica</i>	California wild rose		23
<i>Salix exigua</i>	Narrowleaf willow	860	46
	Total per ha (hex)	1,283	462

Table I-3

Modeled shade evolution for 14 winter 2006 priority sites

a) Shade estimates for restricted planting plan at:

Sacramento RMs: 16.9L, 33.0R, 33.3R, 43.7R, 44.7R, 47.9R, 48.2R

Steamboat Slough RMs: 19.0R, 19.4R, 22.7R

Year	Fall	Winter	Spring	Summer
Setback from water (ft)	5	0	0	5
Year				
0	0%	0%	0%	0%
1	0%	0%	1%	0%
5	0%	1%	11%	0%
15	61%	5%	42%	61%
25	97%	7%	62%	97%
50	99%	7%	63%	99%

b) Shade estimates for unrestricted planting plan at:

Sacramento RMs: 47.0L, 62.5R, 68.9L, 78.0L

Year	Fall	Winter	Spring	Summer
Setback from water (ft)	25	15	15	25
Year				
0	0%	0%	0%	0%
1	0%	0%	1%	0%
5	0%	1%	11%	0%
15	74%	5%	49%	74%
25	100%	12%	75%	100%
50	100%	25%	75%	100%

**Table I-4
SAM Data Summary for Existing Conditions at Sacramento River Site RM 16.9L**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	1.9	2.9	2.6	2.1
Wetted Area (square feet)	187,489	191,499	190,749	188,837
Shoreline Length (feet)	655	588	598	672
Bank Slope (dW:dH)	6.8	4.4	4.8	6.2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.02	1.02	1
Bank Substrate Size (D50 in inches)	20	20	20	20
Instream Structure (% shoreline)	14	14	14	14
Vegetation (% shoreline)	0	88	88	0
Shade (% shoreline)	64	16	49	65

Table I-5

SAM Data Summary of Project Conditions for Sacramento River Site RM 16.9L

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	1.9	2.9	2.6	2.1
Wetted Area (square feet)	187,489	191,499	190,749	188,837
Shoreline Length (feet)	655	588	598	672
Bank Slope (dW:dH)	10	4	4	10
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.02	1.02	1
Bank Substrate Size (D50 in inches)				
Year 0	20	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	50	50	50	50
Year 5	90	90	90	90
Year 15	100	100	100	100
Year 25	100	100	100	100
Year 50	100	100	100	100
Shade (% shoreline)				
Year 0	16	4	12	16
Year 1	16	4	13	16
Year 5	16	9	27	16
Year 15	77	23	68	77
Year 25	100	32	95	100
Year 50	100	32	96	100

**Table I-6
SAM Data Summary for Existing Conditions at Steamboat Slough Site RM 19.0R**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	1.9	2.9	2.6	2.1
Wetted Area (square feet)	219,954	223,582	223,157	221,078
Shoreline Length (feet)	792	791	791	793
Bank Slope (dW:dH)	6.9	4.6	5.0	6.0
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.03	1.03	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	18	18	18	18
Vegetation (% shoreline)	0	86	86	0
Shade (% shoreline)	54	16	49	63

Table I-7

SAM Data Summary of Project Conditions for Steamboat Slough Site RM 19.0R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	1.9	2.9	2.6	2.1
Wetted Area (square feet)	219,954	223,582	223,157	221,078
Shoreline Length (feet)	792	791	791	793
Bank Slope (dW:dH)	10	5	5	10
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.03	1.03	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	50	50	50	50
Year 5	90	90	90	90
Year 15	100	100	100	100
Year 25	100	100	100	100
Year 50	100	100	100	100
Shade (% shoreline)				
Year 0	14	4	12	16
Year 1	14	4	13	16
Year 5	14	9	27	16
Year 15	74	23	68	77
Year 25	100	32	95	100
Year 50	100	32	96	100

**Table I-8
SAM Data Summary for Existing Conditions at Steamboat Slough Site RM 19.4R**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	1.9	2.9	2.6	2.1
Wetted Area (square feet)	91,310	92,070	91,920	91,595
Shoreline Length (feet)	359	367	357	357
Bank Slope (dW:dH)	4.0	3.2	3.3	3.6
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.02	1.02	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	4	4	4	4
Vegetation (% shoreline)	0	63	63	0
Shade (% shoreline)	86	24	73	97

Table I-9

SAM Data Summary of Project Conditions for Steamboat Slough Site RM 19.4R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	1.9	2.9	2.6	2.1
Wetted Area (square feet)	91,310	92,070	91,920	91,595
Shoreline Length (feet)	359	367	357	357
Bank Slope (dW:dH)	10	4	4	10
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.02	1.02	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	50	50	50	50
Year 5	90	90	90	90
Year 15	100	100	100	100
Year 25	100	100	100	100
Year 50	100	100	100	100
Shade (% shoreline)				
Year 0	21	6	18	24
Year 1	21	6	19	24
Year 5	21	11	33	24
Year 15	82	25	74	85
Year 25	100	34	100	100
Year 50	100	34	100	100

**Table I-10
SAM Data Summary for Existing Conditions at Steamboat Slough Site RM 22.7R**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	1.9	2.9	2.6	2.1
Wetted Area (square feet)	33,698	34,470	34,248	33,848
Shoreline Length (feet)	254	259	254	254
Bank Slope (dW:dH)	3.0	2.3	2.5	2.6
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.04	1.04	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	16	16	16	16
Vegetation (% shoreline)	0	88	88	0
Shade (% shoreline)	98	25	73	98

Table I-11

SAM Data Summary of Project Conditions for Steamboat Slough Site RM 22.7R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	1.9	2.9	2.6	2.1
Wetted Area (square feet)	33,698	34,470	34,248	33,848
Shoreline Length (feet)	254	259	254	254
Bank Slope (dW:dH)	10	4	4	10
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.04	1.04	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	50	50	50	50
Year 5	90	90	90	90
Year 15	100	100	100	100
Year 25	100	100	100	100
Year 50	100	100	100	100
Shade (% shoreline)				
Year 0	24	6	18	24
Year 1	24	6	19	24
Year 5	24	11	33	24
Year 15	85	25	74	85
Year 25	100	34	100	100
Year 50	100	34	100	100

**Table I-12
SAM Data Summary for Existing Conditions at Sacramento River Site RM 33.0R**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	2.3	3.7	3.2	2.6
Wetted Area (square feet)	105,150	106,481	106,095	105,425
Shoreline Length (feet)	389	386	389	389
Bank Slope (dW:dH)	2.8	2.6	2.7	2.8
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.03	1.04	1
Bank Substrate Size (D50 in inches)	20	20	20	20
Instream Structure (% shoreline)	8	8	8	8
Vegetation (% shoreline)	0	88	88	0
Shade (% shoreline)	34	9	26	34

Table I-13

SAM Data Summary of Project Conditions for Sacramento River Site RM 33.0R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	2.3	3.7	3.2	2.6
Wetted Area (square feet)	105,150	106,481	106,095	105,425
Shoreline Length (feet)	389	386	389	389
Bank Slope (dW:dH)	2	10	10	2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.03	1.04	1
Bank Substrate Size (D50 in inches)				
Year 0	20	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	8	2	7	9
Year 1	8	3	8	9
Year 5	8	7	21	9
Year 15	69	21	62	69
Year 25	100	30	89	100
Year 50	100	30	91	100

**Table I-14
SAM Data Summary for Existing Conditions at Sacramento River Site RM 33.3R**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	2.3	3.7	3.3	2.6
Wetted Area (square feet)	72,433	73,069	72,919	72,633
Shoreline Length (feet)	268	263	263	268
Bank Slope (dW:dH)	1.9	1.9	1.9	2.0
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.03	1.04	1
Bank Substrate Size (D50 in inches)	20	20	20	20
Instream Structure (% shoreline)	6	6	6	6
Vegetation (% shoreline)	0	88	88	0
Shade (% shoreline)	61	16	47	15

Table I-15

SAM Data Summary of Project Conditions for Sacramento River Site RM 33.3R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	2.3	3.7	3.3	2.6
Wetted Area (square feet)	72,433	73,069	72,919	72,633
Shoreline Length (feet)	268	263	263	268
Bank Slope (dW:dH)	2	10	10	2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.03	1.04	1
Bank Substrate Size (D50 in inches)				
Year 0	20	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	15	4	12	15
Year 1	15	4	13	15
Year 5	15	9	26	15
Year 15	76	23	68	76
Year 25	100	32	95	100
Year 50	100	32	96	100

**Table I-16
SAM Data Summary for Existing Conditions at Sacramento River Site RM 43.7R**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	3.6	6.0	5.1	4.1
Wetted Area (square feet)	321,970	332,516	328,884	324,320
Shoreline Length (feet)	1,221	1,202	1,207	1,201
Bank Slope (dW:dH)	2.1	2.1	2.1	2.1
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.06	1.07	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	6	6	6	6
Vegetation (% shoreline)	0	65	65	0
Shade (% shoreline)	60	20	54	65

Table I-17

SAM Data Summary of Project Conditions for Sacramento River Site RM 43.7R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	3.6	6.0	5.1	4.1
Wetted Area (square feet)	321,970	332,516	328,884	324,320
Shoreline Length (feet)	1,221	1,202	1,207	1,201
Bank Slope (dW:dH)	10	5	5	10
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.06	1.07	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	50	50	50	50
Year 5	90	90	90	90
Year 15	100	100	100	100
Year 25	100	100	100	100
Year 50	100	100	100	100
Shade (% shoreline)				
Year 0	15	5	14	16
Year 1	15	5	15	16
Year 5	15	10	28	16
Year 15	76	24	69	77
Year 25	100	33	96	100
Year 50	100	33	98	100

Table I-18
SAM Data Summary for Existing Conditions at Sacramento River Site RM 44.7R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	3.7	6.2	5.3	4.3
Wetted Area (square feet)	530,252	540,512	537,052	532,526
Shoreline Length (feet)	2,159	2,153	2,156	2,158
Bank Slope (dW:dH)	2.5	2.5	2.5	2.5
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.06	1.07	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	15	15	15	15
Vegetation (% shoreline)	0	80	80	0
Shade (% shoreline)	92	24	71	93

Table I-19

SAM Data Summary of Project Conditions for Sacramento River Site RM 44.7R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	3.7	6.2	5.3	4.3
Wetted Area (square feet)	530,252	540,512	537,052	532,526
Shoreline Length (feet)	2,159	2,153	2,156	2,158
Bank Slope (dW:dH)	2	10	10	2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.06	1.07	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	23	6	18	23
Year 1	23	6	19	23
Year 5	23	11	32	23
Year 15	84	25	74	84
Year 25	100	34	100	100
Year 50	100	34	100	100

**Table I-20
SAM Data Summary for Existing Conditions at Sacramento River Site RM 47.0L**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	4.0	6.7	5.8	4.6
Wetted Area (square feet)	312,175	339,699	330,023	318,437
Shoreline Length (feet)	1,665	1,592	1,618	1,659
Bank Slope (dW:dH)	7.8	6.3	7.2	7.5
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.10	1.14	1
Bank Substrate Size (D50 in inches)	1	1	1	1
Instream Structure (% shoreline)	6	6	6	6
Vegetation (% shoreline)	0	88	88	0
Shade (% shoreline)	11	10	18	15

Table I-21

SAM Data Summary of Project Conditions for Sacramento River Site RM 47.0L

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	4.0	6.7	5.8	4.6
Wetted Area (square feet)	312,175	339,699	330,023	318,437
Shoreline Length (feet)	1,665	1,592	1,618	1,659
Bank Slope (dW:dH)	10	4	4	10
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.10	1.14	1
Bank Substrate Size (D50 in inches)				
Year 0	1	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	3	2	5	4
Year 1	3	3	6	4
Year 5	3	7	19	4
Year 15	76	24	70	77
Year 25	100	50	100	100
Year 50	100	100	100	100

**Table I-22
SAM Data Summary for Existing Conditions at Sacramento River Site RM 47.9R**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	4.1	6.9	5.9	4.8
Wetted Area (square feet)	362,322	372,388	368,908	364,822
Shoreline Length (feet)	1,237	1,172	1,237	1,277
Bank Slope (dW:dH)	3.1	2.8	3.1	3.1
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.07	1.08	1
Bank Substrate Size (D50 in inches)	7	7	7	7
Instream Structure (% shoreline)	14	14	14	14
Vegetation (% shoreline)	0	79	79	0
Shade (% shoreline)	45	17	46	53

Table I-23

SAM Data Summary of Project Conditions for Sacramento River Site RM 47.9R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	4.1	6.9	5.9	4.8
Wetted Area (square feet)	362,322	372,388	368,908	364,822
Shoreline Length (feet)	1,237	1,172	1,237	1,277
Bank Slope (dW:dH)	10	8	8	10
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.07	1.08	1
Bank Substrate Size (D50 in inches)				
Year 0	7	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	11	4	12	13
Year 1	11	5	13	13
Year 5	11	9	26	13
Year 15	72	23	67	74
Year 25	100	32	94	100
Year 50	100	32	96	100

Table I-24

SAM Data Summary for Existing Conditions at Sacramento River Site RM 48.2R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	4.2	7.0	6.0	4.8
Wetted Area (square feet)	272,953	281,403	278,119	274,453
Shoreline Length (feet)	1,132	1,137	1,127	1,152
Bank Slope (dW:dH)	2.8	2.7	2.9	2.8
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.09	1.11	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	10	10	10	10
Vegetation (% shoreline)	0	63	63	0
Shade (% shoreline)	40	17	41	45

Table I-25

SAM Data Summary of Project Conditions for Sacramento River Site RM 48.2R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	4.2	7.0	6.0	4.8
Wetted Area (square feet)	272,953	281,403	278,119	274,453
Shoreline Length (feet)	1,132	1,137	1,127	1,152
Bank Slope (dW:dH)	2	10	10	2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.09	1.11	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	10	4	10	11
Year 1	10	5	11	11
Year 5	10	9	25	11
Year 15	71	23	66	72
Year 25	100	32	93	100
Year 50	100	32	94	100

Table I-26

SAM Data Summary for Existing Conditions at Sacramento River Site RM 62.5R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	6.0	10.2	8.7	7.0
Wetted Area (square feet)	68,106	72,748	71,235	69,454
Shoreline Length (feet)	343	346	348	342
Bank Slope (dW:dH)	4.4	2.6	3.5	4.2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.07	1.10	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	16	16	16	16
Vegetation (% shoreline)	0	63	63	0
Shade (% shoreline)	19	15	41	29

Table I-27

SAM Data Summary of Project Conditions for Sacramento River Site RM 62.5R

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	6.0	10.2	8.7	7.0
Wetted Area (square feet)	68,106	72,748	71,235	69,454
Shoreline Length (feet)	343	346	348	342
Bank Slope (dW:dH)	2	10	10	2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.07	1.10	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	5	4	10	7
Year 1	5	4	11	7
Year 5	5	9	25	7
Year 15	78	26	76	81
Year 25	100	52	100	100
Year 50	100	100	100	100

Table I-28
SAM Data Summary for Existing Conditions at Sacramento River Site RM 68.9L

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	6.9	11.7	9.9	8.0
Wetted Area (square feet)	193,640	208,041	202,523	196,755
Shoreline Length (feet)	1,090	1,089	1,089	1,088
Bank Slope (dW:dH)	3.4	3.5	3.6	3.6
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.13	1.16	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	6	6	6	6
Vegetation (% shoreline)	0	88	88	0
Shade (% shoreline)	0	1	0	0

Table I-29

SAM Data Summary of Project Conditions for Sacramento River Site RM 68.9L

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	6.9	11.7	9.9	8.0
Wetted Area (square feet)	193,640	208,041	202,523	196,755
Shoreline Length (feet)	1,090	1,089	1,089	1,088
Bank Slope (dW:dH)	2	10	10	2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.13	1.16	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	0	0	0	0
Year 1	0	1	1	0
Year 5	0	5	14	0
Year 15	74	22	65	74
Year 25	100	48	100	100
Year 50	100	100	100	100

**Table I-30
SAM Data Summary for Existing Conditions at Sacramento River Site RM 78.0L**

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	8.1	13.7	11.6	9.4
Wetted Area (square feet)	267,087	281,825	276,249	270,379
Shoreline Length (feet)	1,405	1,411	1,410	1,408
Bank Slope (dW:dH)	2.4	2.5	2.4	2.4
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.14	1.16	1
Bank Substrate Size (D50 in inches)	0.25	0.25	0.25	0.25
Instream Structure (% shoreline)	2	2	2	2
Vegetation (% shoreline)	0	87	87	0
Shade (% shoreline)	25	13	30	32

Table I-31

SAM Data Summary of Project Conditions for Sacramento River Site RM 78.0L

	Seasonal Values			
	Fall	Winter	Spring	Summer
Water Surface Elevation (feet)	8.1	13.7	11.6	9.4
Wetted Area (square feet)	267,087	281,825	276,249	270,379
Shoreline Length (feet)	1,405	1,411	1,410	1,408
Bank Slope (dW:dH)	2	10	10	2
Floodplain Inundation Ratio (AQ2:AQavg)	1	1.14	1.16	1
Bank Substrate Size (D50 in inches)				
Year 0	0.25	8	8	8
Years 1-50	4	0.25	0.25	4
Instream Structure (% shoreline)				
Year 0	0	0	0	0
Years 1-50	0	40	40	0
Vegetation (% shoreline)				
Year 0	0	0	0	0
Year 1	0	50	50	0
Year 5	0	85	85	0
Year 15	0	85	85	0
Year 25	0	85	85	0
Year 50	0	85	85	0
Shade (% shoreline)				
Year 0	6	3	8	8
Year 1	6	4	9	8
Year 5	6	8	22	8
Year 15	80	25	73	82
Year 25	100	51	100	100
Year 50	100	100	100	100

Table I-32
SAM results showing bank-line weighted relative response (feet) at Site RM 16.9L

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-58		-3	17		-16		0	-14		-25		-6	-14		-59		1	38	
Year 5	-58		7	70		6		16	58		0		19	67		-59		8	77	
Year 15	-51		15	88		13		27	86		11		35	94		-52		16	93	
Year 25	-45		21	96		17		35	100		17		43	102		-46		22	101	
Year 50	-39		25	103		22		42	112		22		49	107		-40		26	107	
Central Valley fall-run chinook salmon																				
Year 0	0		0	0				0	0		0			0		0			0	
Year 1	-58		-3	17				0	-14		-25			-14		-59			38	
Year 5	-58		7	70				16	58		0			67		-59			77	
Year 15	-51		15	88				27	86		11			94		-52			93	
Year 25	-45		21	96				35	100		17			102		-46			101	
Year 50	-39		25	103				42	112		22			107		-40			107	
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0	0					0	
Year 1	-58			17		-16			-14		-25		-6	-14					38	
Year 5	-58			70		6			58		0		19	67					77	
Year 15	-51			88		13			86		11		35	94					93	
Year 25	-45			96		17			100		17		43	102					101	
Year 50	-39			103		22			112		22		49	107					107	
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-58		-3	17		-16		0	-14		-25		-6	-14		-59		1		
Year 5	-58		7	70		6		16	58		0		19	67		-59		8		
Year 15	-51		15	88		13		27	86		11		35	94		-52		16		
Year 25	-45		21	96		17		35	100		17		43	102		-46		22		
Year 50	-39		25	103		22		42	112		22		49	107		-40		26		
Central Valley steelhead																				
Year 0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0
Year 1	-105		-4	-1	-105	-30		1	-21	-41	-41		-7	-28	-41	-107		3	18	-107
Year 5	-105		12	42	-105	14		26	35	8	8		28	36	8	-107		14	48	-107
Year 15	-95		24	58	-95	30		41	56	28	28		49	57	28	-98		25	62	-98
Year 25	-87		32	66	-87	37		50	66	36	36		59	64	36	-90		33	70	-90
Year 50	-81		38	73	-81	45		60	76	43	43		67	69	43	-83		40	76	-83
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-92	-92		0	0	-98	-98		0	0	-28	-28		0
Year 5	0				0	0	-2	-2		0	0	-6	-6		0	0	17	17		0
Year 15	0				0	0	14	14		0	0	10	10		0	0	24	24		0
Year 25	0				0	0	17	17		0	0	13	13		0	0	26	26		0
Year 50	0				0	0	19	19		0	0	15	15		0	0	27	27		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-33
SAM results showing bank-line weighted relative response (feet) at Site RM 19.0R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-75		-23	-32		-28		-28	-110		-39		-49	-115		-76		-22	-26	
Year 5	-75		-16	12		1		-4	-11		-7		-14	-6		-76		-14	19	
Year 15	-66		-6	33		12		11	28		8		9	31		-68		-5	39	
Year 25	-58		1	44		17		22	47		16		20	41		-60		2	48	
Year 50	-51		7	52		23		33	63		23		29	49		-54		7	55	
Central Valley fall-run chinook salmon																				
Year 0	0		0	0				0	0		0			0		0			0	
Year 1	-75		-23	-32				-28	-110		-39			-115		-76			-26	
Year 5	-75		-16	12				-4	-11		-7			-6		-76			19	
Year 15	-66		-6	33				11	28		8			31		-68			39	
Year 25	-58		1	44				22	47		16			41		-60			48	
Year 50	-51		7	52				33	63		23			49		-54			55	
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0	0					0	
Year 1	-75			-32		-28			-110		-39		-49	-115					-26	
Year 5	-75			12		1			-11		-7		-14	-6					19	
Year 15	-66			33		12			28		8		9	31					39	
Year 25	-58			44		17			47		16		20	41					48	
Year 50	-51			52		23			63		23		29	49					55	
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-75		-23	-32		-28		-28	-110		-39		-49	-115		-76		-22		
Year 5	-75		-16	12		1		-4	-11		-7		-14	-6		-76		-14		
Year 15	-66		-6	33		12		11	28		8		9	31		-68		-5		
Year 25	-58		1	44		17		22	47		16		20	41		-60		2		
Year 50	-51		7	52		23		33	63		23		29	49		-54		7		
Central Valley steelhead																				
Year 0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0
Year 1	-141		-37	-44	-141	-54		-42	-94	-69	-69		-67	-105	-69	-141		-35	-38	-141
Year 5	-141		-24	-9	-141	5		-6	-16	-4	-4		-17	-19	-4	-141		-22	-3	-141
Year 15	-129		-10	9	-129	26		15	12	22	22		12	9	22	-130		-8	14	-130
Year 25	-118		0	20	-118	36		28	26	33	33		25	19	33	-120		1	23	-120
Year 50	-110		8	28	-110	47		42	39	42	42		36	26	42	-112		9	31	-112
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-131	-131		0	0	-135	-135		0	0	-42	-42		0
Year 5	0				0	0	-6	-6		0	0	-10	-10		0	0	12	12		0
Year 15	0				0	0	15	15		0	0	11	11		0	0	21	21		0
Year 25	0				0	0	19	19		0	0	15	15		0	0	22	22		0
Year 50	0				0	0	22	22		0	0	18	18		0	0	24	24		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-34
 SAM results showing bank-line weighted relative response (feet) at Site RM 19.4R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-19		1	17		1		-3	-20		-3		-4	-12		-19		2	19	
Year 5	-19		5	38		14		7	26		11		11	36		-19		6	40	
Year 15	-16		8	45		19		14	43		17		20	50		-16		9	47	
Year 25	-13		11	48		22		19	50		20		24	54		-13		12	50	
Year 50	-10		13	51		24		23	57		23		27	56		-11		13	52	
Central Valley fall-run chinook salmon																				
Year 0	0		0	0				0	0		0			0		0			0	
Year 1	-19		1	17				-3	-20		-3			-12		-19			19	
Year 5	-19		5	38				7	26		11			36		-19			40	
Year 15	-16		8	45				14	43		17			50		-16			47	
Year 25	-13		11	48				19	50		20			54		-13			50	
Year 50	-10		13	51				23	57		23			56		-11			52	
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0	0					0	
Year 1	-19			17		1			-20		-3		-4	-12					19	
Year 5	-19			38		14			26		11		11	36					40	
Year 15	-16			45		19			43		17		20	50					47	
Year 25	-13			48		22			50		20		24	54					50	
Year 50	-10			51		24			57		23		27	56					52	
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-19		1	17		1		-3	-20		-3		-4	-12		-19		2	19	
Year 5	-19		5	38		14		7	26		11		11	36		-19		6	40	
Year 15	-16		8	45		19		14	43		17		20	50		-16		9	47	
Year 25	-13		11	48		22		19	50		20		24	54		-13		12	50	
Year 50	-10		13	51		24		23	57		23		27	56		-11		13	52	
Central Valley steelhead																				
Year 0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0
Year 1	-29		0	11	-29	5		-6	-19	3	3		-7	-15	3	-28		2	14	-28
Year 5	-29		7	27	-29	33		11	17	32	32		14	22	32	-28		9	30	-28
Year 15	-25		12	33	-25	42		20	29	42	42		25	33	42	-24		13	36	-24
Year 25	-21		15	37	-21	47		25	35	47	47		30	36	47	-21		16	39	-21
Year 50	-18		18	39	-18	52		31	41	50	50		34	39	50	-18		19	41	-18
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-12	-12		0	0	-13	-13		0	0	19	19		0
Year 5	0				0	0	45	45		0	0	42	42		0	0	43	43		0
Year 15	0				0	0	54	54		0	0	51	51		0	0	47	47		0
Year 25	0				0	0	56	56		0	0	53	53		0	0	48	48		0
Year 50	0				0	0	57	57		0	0	55	55		0	0	48	48		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-35
SAM results showing bank-line weighted relative response (feet) at Site RM 22.7R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-24		-2	4		-9		-6	-27		-12		-8	-22		-24		-1	5	
Year 5	-24		1	19		0		2	5		-2		3	12		-24		2	20	
Year 15	-21		4	24		4		7	17		2		9	22		-21		4	25	
Year 25	-19		5	25		5		10	22		4		12	24		-19		6	27	
Year 50	-18		6	27		7		13	27		6		14	26		-18		7	28	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-24		-2					-6	-27		-12			-22		-24				
Year 5	-24		1					2	5		-2			12		-24				
Year 15	-21		4					7	17		2			22		-21				
Year 25	-19		5					10	22		4			24		-19				
Year 50	-18		6					13	27		6			26		-18				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0									
Year 1	-24			4		-9			-27		-12			-8						
Year 5	-24			19		0			5		-2			3						
Year 15	-21			24		4			17		2			9						
Year 25	-19			25		5			22		4			12						
Year 50	-18			27		7			27		6			14						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-24		-2	4		-9		-6	-27		-12		-8	-22		-24		-1		
Year 5	-24		1	19		0		2	5		-2		3	12		-24		2		
Year 15	-21		4	24		4		7	17		2		9	22		-21		4		
Year 25	-19		5	25		5		10	22		4		12	24		-19		6		
Year 50	-18		6	27		7		13	27		6		14	26		-18		7		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0	0		0	0	0	0		0		0
Year 1	-42		-4		-42	-17		-10	-24	-19	-19		-12	-22	-19	-42		-3		-42
Year 5	-42		1		-42	2		2	1	1	1		4	5	1	-42		2		-42
Year 15	-39		4		-39	9		9	10	9	9		11	13	9	-39		5		-39
Year 25	-37		6		-37	12		13	14	12	12		15	15	12	-37		8		-37
Year 50	-35		8		-35	15		17	18	14	14		17	17	14	-35		9		-35
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-29	-29		0	0	-30	-30		0	0	-1	-1		0
Year 5	0				0	0	11	11		0	0	10	10		0	0	16	16		0
Year 15	0				0	0	18	18		0	0	16	16		0	0	19	19		0
Year 25	0				0	0	19	19		0	0	17	17		0	0	20	20		0
Year 50	0				0	0	20	20		0	0	18	18		0	0	20	20		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-36
SAM results showing bank-line weighted relative response (feet) at Site RM 33.0R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-23		-4	-15		-1		10	25		-5		8	19		-23		-3	-5	
Year 5	-23		-3	-7		14		22	74		11		26	75		-23		-3	-5	
Year 15	-18		-1	-2		19		30	94		19		40	98		-18		-1	-1	
Year 25	-14		0	2		22		36	104		23		47	104		-14		0	3	
Year 50	-10		1	5		25		42	113		27		53	110		-10		1	5	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-23		-4					10	25		-5			19		-23				
Year 5	-23		-3					22	74		11			75		-23				
Year 15	-18		-1					30	94		19			98		-18				
Year 25	-14		0					36	104		23			104		-14				
Year 50	-10		1					42	113		27			110		-10				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0			0						
Year 1	-23			-15		-1			25		-5			8						
Year 5	-23			-7		14			74		11			26						
Year 15	-18			-2		19			94		19			40						
Year 25	-14			2		22			104		23			47						
Year 50	-10			5		25			113		27			53						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-23		-4	-15		-1		10	25		-5		8	19		-23		-3		
Year 5	-23		-3	-7		14		22	74		11		26	75		-23		-3		
Year 15	-18		-1	-2		19		30	94		19		40	98		-18		-1		
Year 25	-14		0	2		22		36	104		23		47	104		-14		0		
Year 50	-10		1	5		25		42	113		27		53	110		-10		1		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0	0		0	0	0	0		0		0
Year 1	-42		-7		-42	2		15	19	-5	-5		13	13	-5	-42		-4		-42
Year 5	-42		-5		-42	31		34	58	27	27		38	56	27	-42		-4		-42
Year 15	-35		-1		-35	41		45	73	41	41		55	74	41	-35		-1		-35
Year 25	-29		1		-29	46		52	80	48	48		64	80	48	-29		1		-29
Year 50	-24		3		-24	52		60	88	53	53		71	85	53	-24		3		-24
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-11	-11		0	0	-12	-12		0	0	-39	-39		0
Year 5	0				0	0	52	52		0	0	51	51		0	0	-39	-39		0
Year 15	0				0	0	63	63		0	0	62	62		0	0	-39	-39		0
Year 25	0				0	0	65	65		0	0	64	64		0	0	-39	-39		0
Year 50	0				0	0	67	67		0	0	66	66		0	0	-39	-39		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-38
SAM results showing bank-line weighted relative response (feet) at Site RM 43.7R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-73		-4	37		-3		-12	-74		-17		-23	-63		-72		-4	39	
Year 5	-73		8	106		42		26	77		32		33	105		-72		9	108	
Year 15	-59		23	137		57		50	137		54		68	159		-59		23	137	
Year 25	-47		33	152		66		66	163		65		84	174		-48		33	151	
Year 50	-37		41	163		74		84	188		76		98	185		-38		41	161	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-73		-4					-12	-74		-17			-63		-72				
Year 5	-73		8					26	77		32			105		-72				
Year 15	-59		23					50	137		54			159		-59				
Year 25	-47		33					66	163		65			174		-48				
Year 50	-37		41					84	188		76			185		-38				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0									
Year 1	-73			37		-3			-74		-17			-23						
Year 5	-73			106		42			77		32			33						
Year 15	-59			137		57			137		54			68						
Year 25	-47			152		66			163		65			84						
Year 50	-37			163		74			188		76			98						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-73		-4	37		-3		-12	-74		-17		-23	-63		-72		-4		
Year 5	-73		8	106		42		26	77		32		33	105		-72		9		
Year 15	-59		23	137		57		50	137		54		68	159		-59		23		
Year 25	-47		33	152		66		66	163		65		84	174		-48		33		
Year 50	-37		41	163		74		84	188		76		98	185		-38		41		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0	0		0	0	0	0		0		0
Year 1	-119		-9		-119	6		-22	-68	-9	-9		-36	-69	-9	-117		-8		-117
Year 5	-119		11		-119	96		36	51	90	90		41	61	90	-117		12		-117
Year 15	-101		32		-101	127		67	94	128	128		85	104	128	-100		32		-100
Year 25	-86		47		-86	143		88	114	145	145		105	117	145	-86		46		-86
Year 50	-74		58		-74	158		109	133	159	159		121	128	159	-74		57		-74
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-66	-66		0	0	-67	-67		0	0	42	42		0
Year 5	0				0	0	125	125		0	0	126	126		0	0	123	123		0
Year 15	0				0	0	157	157		0	0	158	158		0	0	136	136		0
Year 25	0				0	0	164	164		0	0	164	164		0	0	139	139		0
Year 50	0				0	0	168	168		0	0	169	169		0	0	141	141		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-37
SAM results showing bank-line weighted relative response (feet) at Site RM 33.3R

Focus Fish Species and Scenario	Fall (September–November)						Winter (December–February)						Spring (March–May)						Summer (June–August)					
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat				
Central Valley spring-run chinook salmon																								
Year 0	0		0	0		0		0	0		0		0	0		0		0	0					
Year 1	-16		-2	-4		0		7	19		-4		8	22		-16		-1	3					
Year 5	-16		-1	2		9		16	53		7		21	59		-16		-1	3					
Year 15	-14		0	5		13		22	67		12		29	72		-14		0	5					
Year 25	-11		1	6		15		26	73		14		33	76		-11		1	7					
Year 50	-9		1	8		16		30	78		17		37	78		-9		1	8					
Central Valley fall-run chinook salmon																								
Year 0	0		0					0	0		0		0		0									
Year 1	-16		-2					7	19		-4		22		-16									
Year 5	-16		-1					16	53		7		59		-16									
Year 15	-14		0					22	67		12		72		-14									
Year 25	-11		1					26	73		14		76		-11									
Year 50	-9		1					30	78		17		78		-9									
Central Valley late fall-run chinook salmon																								
Year 0	0			0		0				0		0												
Year 1	-16			-4		0			19		-4		8											
Year 5	-16			2		9			53		7		21											
Year 15	-14			5		13			67		12		29											
Year 25	-11			6		15			73		14		33											
Year 50	-9			8		16			78		17		37											
Sacramento River winter-run chinook salmon																								
Year 0	0		0	0		0		0	0		0		0	0		0		0						
Year 1	-16		-2	-4		0		7	19		-4		8	22		-16		-1						
Year 5	-16		-1	2		9		16	53		7		21	59		-16		-1						
Year 15	-14		0	5		13		22	67		12		29	72		-14		0						
Year 25	-11		1	6		15		26	73		14		33	76		-11		1						
Year 50	-9		1	8		16		30	78		17		37	78		-9		1						
Central Valley steelhead																								
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0				
Year 1	-27		-3		-27	1		11	15	-3	-3		12	15	-3	-27		-1		-27				
Year 5	-27		-1		-27	21		24	42	19	19		29	44	19	-27		-1		-27				
Year 15	-23		1		-23	28		32	52	27	27		40	54	27	-23		1		-23				
Year 25	-20		2		-20	31		37	57	31	31		45	58	31	-20		2		-20				
Year 50	-17		3		-17	35		42	61	34	34		49	60	34	-17		3		-17				
Delta Smelt																								
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0				
Year 1	0				0	0	3	3		0	0	3	3		0	0	-19	-19		0				
Year 5	0				0	0	46	46		0	0	46	46		0	0	-19	-19		0				
Year 15	0				0	0	53	53		0	0	53	53		0	0	-19	-19		0				
Year 25	0				0	0	54	54		0	0	54	54		0	0	-19	-19		0				
Year 50	0				0	0	56	56		0	0	55	55		0	0	-19	-19		0				

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-39
SAM results showing bank-line weighted relative response (feet) at Site RM 44.7R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-199		-64	-187		-75		-35	-181		-101		-44	-133		-199		-64	-187	
Year 5	-199		-64	-187		5		41	101		-15		70	175		-199		-64	-186	
Year 15	-179		-59	-179		32		88	207		23		131	263		-179		-59	-178	
Year 25	-162		-55	-172		47		119	254		41		159	286		-162		-54	-171	
Year 50	-148		-51	-167		62		152	295		58		181	303		-148		-51	-167	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-199		-64					-35	-181		-101			-133		-199				
Year 5	-199		-64					41	101		-15			175		-199				
Year 15	-179		-59					88	207		23			263		-179				
Year 25	-162		-55					119	254		41			286		-162				
Year 50	-148		-51					152	295		58			303		-148				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0							
Year 1	-199			-187		-75			-181		-101			-44						
Year 5	-199			-187		5			101		-15			70						
Year 15	-179			-179		32			207		23			131						
Year 25	-162			-172		47			254		41			159						
Year 50	-148			-167		62			295		58			181						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-199		-64	-187		-75		-35	-181		-101		-44	-133		-199		-64		
Year 5	-199		-64	-187		5		41	101		-15		70	175		-199		-64		
Year 15	-179		-59	-179		32		88	207		23		131	263		-179		-59		
Year 25	-162		-55	-172		47		119	254		41		159	286		-162		-54		
Year 50	-148		-51	-167		62		152	295		58		181	303		-148		-51		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-350		-110		-350	-139		-58	-151	-159		-70	-129	-159	-350		-110		-350	
Year 5	-350		-110		-350	23		54	69	16	16		82	108	16	-350		-110		-350
Year 15	-326		-100		-326	77		114	145	78	78		157	178	78	-326		-100		-326
Year 25	-305		-92		-305	105		152	182	105	105		189	199	105	-305		-92		-305
Year 50	-289		-86		-289	132		192	216	127	127		216	215	127	-289		-86		-289
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-181	-181		0	0	-181	-181		0	0	-291	-291		0
Year 5	0				0	0	173	173		0	0	173	173		0	0	-291	-291		0
Year 15	0				0	0	232	232		0	0	233	233		0	0	-291	-291		0
Year 25	0				0	0	244	244		0	0	244	244		0	0	-291	-291		0
Year 50	0				0	0	253	253		0	0	253	253		0	0	-291	-291		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-40
SAM results showing bank-line weighted relative response (feet) at Site RM 47.0L

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-68		-19	-88		5		-21	-127		-3		-38	-160		-73		-23	-97	
Year 5	-68		-19	-88		64		23	66		64		25	63		-73		-23	-96	
Year 15	-43		-7	-57		87		57	150		99		81	157		-48		-11	-67	
Year 25	-20		4	-32		103		86	193		118		110	187		-26		-1	-44	
Year 50	-2		11	-14		127		125	234		135		133	210		-9		7	-26	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-68		-19					-21	-127		-3			-160		-73				
Year 5	-68		-19					23	66		64			63		-73				
Year 15	-43		-7					57	150		99			157		-48				
Year 25	-20		4					86	193		118			187		-26				
Year 50	-2		11					125	234		135			210		-9				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0							
Year 1	-68			-88		5			-127		-3			-38						
Year 5	-68			-88		64			66		64			25						
Year 15	-43			-57		87			150		99			81						
Year 25	-20			-32		103			193		118			110						
Year 50	-2			-14		127			234		135			133						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-68		-19	-88		5		-21	-127		-3		-38	-160		-73		-23		
Year 5	-68		-19	-88		64		23	66		64		25	63		-73		-23		
Year 15	-43		-7	-57		87		57	150		99		81	157		-48		-11		
Year 25	-20		4	-32		103		86	193		118		110	187		-26		-1		
Year 50	-2		11	-14		127		125	234		135		133	210		-9		7		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0	0		0	0	0	0		0		0
Year 1	-125		-35		-125	22		-36	-115	8	8		-59	-145	8	-134		-41		-134
Year 5	-125		-35		-125	142		34	38	143	143		34	31	143	-134		-41		-134
Year 15	-87		-13		-87	187		79	100	207	207		105	105	207	-96		-20		-96
Year 25	-55		5		-55	216		115	135	236	236		141	132	236	-66		-2		-66
Year 50	-30		18		-30	254		164	171	260	260		170	153	260	-41		11		-41
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-161	-161		0	0	-174	-174		0	0	-127	-127		0
Year 5	0				0	0	87	87		0	0	80	80		0	0	-127	-127		0
Year 15	0				0	0	129	129		0	0	123	123		0	0	-127	-127		0
Year 25	0				0	0	137	137		0	0	131	131		0	0	-127	-127		0
Year 50	0				0	0	143	143		0	0	137	137		0	0	-127	-127		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-41
 SAM results showing bank-line weighted relative response (feet) at Site RM 47.9R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-102		-28	-81		-31		-14	-93		-48		-34	-103		-108		-30	-80	
Year 5	-102		-28	-81		13		26	58		2		26	74		-108		-29	-79	
Year 15	-88		-21	-68		28		51	118		26		67	134		-93		-22	-67	
Year 25	-74		-15	-57		36		69	145		38		86	151		-81		-17	-58	
Year 50	-63		-10	-49		44		87	170		49		102	164		-69		-12	-51	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-102		-28					-14	-93		-48			-103		-108				
Year 5	-102		-28					26	58		2			74		-108				
Year 15	-88		-21					51	118		26			134		-93				
Year 25	-74		-15					69	145		38			151		-81				
Year 50	-63		-10					87	170		49			164		-69				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0				0			0							
Year 1	-102			-81		-31			-93		-48			-34						
Year 5	-102			-81		13			58		2			26						
Year 15	-88			-68		28			118		26			67						
Year 25	-74			-57		36			145		38			86						
Year 50	-63			-49		44			170		49			102						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-102		-28	-81		-31		-14	-93		-48		-34	-103		-108		-30		
Year 5	-102		-28	-81		13		26	58		2		26	74		-108		-29		
Year 15	-88		-21	-68		28		51	118		26		67	134		-93		-22		
Year 25	-74		-15	-57		36		69	145		38		86	151		-81		-17		
Year 50	-63		-10	-49		44		87	170		49		102	164		-69		-12		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-190		-47		-190	-56		-25	-77	-79		-52	-96	-79	-198		-50		-198	
Year 5	-190		-47		-190	32		34	41	23	23		31	41	23	-198		-50		-198
Year 15	-170		-35		-170	62		67	84	63	63		81	88	63	-178		-38		-178
Year 25	-152		-25		-152	78		88	105	81	81		104	104	81	-161		-28		-161
Year 50	-137		-17		-137	94		111	125	97	97		123	116	97	-147		-21		-147
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-105	-105		0	0	-119	-119		0	0	-113	-113		0
Year 5	0				0	0	87	87		0	0	84	84		0	0	-113	-113		0
Year 15	0				0	0	119	119		0	0	117	117		0	0	-113	-113		0
Year 25	0				0	0	125	125		0	0	124	124		0	0	-113	-113		0
Year 50	0				0	0	130	130		0	0	129	129		0	0	-113	-113		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-42
 SAM results showing bank-line weighted relative response (feet) at Site RM 48.2R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-81		-28	-99		-19		-5	-60		-31		-18	-64		-84		-30	-100	
Year 5	-81		-28	-99		23		34	87		15		37	100		-84		-29	-100	
Year 15	-67		-24	-88		38		59	146		37		76	157		-70		-25	-89	
Year 25	-55		-20	-79		46		76	173		48		95	174		-58		-21	-81	
Year 50	-44		-17	-72		54		95	197		58		111	186		-47		-19	-74	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-81		-28					-5	-60		-31			-64		-84				
Year 5	-81		-28					34	87		15			100		-84				
Year 15	-67		-24					59	146		37			157		-70				
Year 25	-55		-20					76	173		48			174		-58				
Year 50	-44		-17					95	197		58			186		-47				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0				0			0							
Year 1	-81			-99		-19			-60		-31			-18						
Year 5	-81			-99		23			87		15			37						
Year 15	-67			-88		38			146		37			76						
Year 25	-55			-79		46			173		48			95						
Year 50	-44			-72		54			197		58			111						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-81		-28	-99		-19		-5	-60		-31		-18	-64		-84		-30		
Year 5	-81		-28	-99		23		34	87		15		37	100		-84		-29		
Year 15	-67		-24	-88		38		59	146		37		76	157		-70		-25		
Year 25	-55		-20	-79		46		76	173		48		95	174		-58		-21		
Year 50	-44		-17	-72		54		95	197		58		111	186		-47		-19		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-148		-50		-148	-30		-12	-52	-46		-46		-30	-63		-46		-152	-152
Year 5	-148		-50		-148	56		46	64	47		47		47	64		47		-152	-152
Year 15	-128		-41		-128	85		79	106	85		85		94	109		85		-133	-133
Year 25	-112		-35		-112	100		100	126	102		102		117	124		102		-116	-116
Year 50	-98		-29		-98	116		122	146	116		116		136	136		116		-103	-103
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-67	-67		0	0	-70	-70		0	0	-136	-136		0
Year 5	0				0	0	120	120		0	0	116	116		0	0	-136	-136		0
Year 15	0				0	0	151	151		0	0	147	147		0	0	-136	-136		0
Year 25	0				0	0	158	158		0	0	153	153		0	0	-136	-136		0
Year 50	0				0	0	162	162		0	0	158	158		0	0	-136	-136		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-43
SAM results showing bank-line weighted relative response (feet) at Site RM 62.5R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-26		-10	-42		-10		-4	-26		-15		-13	-35		-28		-12	-44	
Year 5	-26		-10	-42		2		8	19		-1		4	15		-28		-12	-43	
Year 15	-21		-8	-37		7		16	37		6		16	33		-23		-10	-39	
Year 25	-17		-7	-33		11		23	47		10		22	38		-19		-9	-36	
Year 50	-13		-6	-30		16		33	55		13		27	42		-16		-8	-33	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-26		-10					-4	-26		-15			-35		-28				
Year 5	-26		-10					8	19		-1			15		-28				
Year 15	-21		-8					16	37		6			33		-23				
Year 25	-17		-7					23	47		10			38		-19				
Year 50	-13		-6					33	55		13			42		-16				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0							
Year 1	-26			-42		-10			-26		-15		-13							
Year 5	-26			-42		2			19		-1		4							
Year 15	-21			-37		7			37		6		16							
Year 25	-17			-33		11			47		10		22							
Year 50	-13			-30		16			55		13		27							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-26		-10	-42		-10		-4	-26		-15		-13	-35		-28		-12		
Year 5	-26		-10	-42		2		8	19		-1		4	15		-28		-12		
Year 15	-21		-8	-37		7		16	37		6		16	33		-23		-10		
Year 25	-17		-7	-33		11		23	47		10		22	38		-19		-9		
Year 50	-13		-6	-30		16		33	55		13		27	42		-16		-8		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-51		-18		-51	-20		-7	-22	-26		-19	-32	-26	-54		-20		-54	
Year 5	-51		-18		-51	6		11	13	3	3		5	7	3	-54		-20		-54
Year 15	-44		-15		-44	16		21	27	15	15		20	21	15	-47		-17		-47
Year 25	-38		-12		-38	22		30	34	20	20		27	26	20	-42		-15		-42
Year 50	-33		-10		-33	30		41	42	24	24		33	29	24	-37		-13		-37
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-31	-31		0	0	-40	-40		0	0	-57	-57		0
Year 5	0				0	0	26	26		0	0	17	17		0	0	-57	-57		0
Year 15	0				0	0	35	35		0	0	27	27		0	0	-57	-57		0
Year 25	0				0	0	37	37		0	0	28	28		0	0	-57	-57		0
Year 50	0				0	0	39	39		0	0	30	30		0	0	-57	-57		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-44
SAM results showing bank-line weighted relative response (feet) at Site RM 68.9L

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-34		-7	-46		12		12	-6		14		14	-1		-34		-8	-47	
Year 5	-34		-7	-46		52		46	131		59		60	159		-34		-7	-47	
Year 15	-16		-1	-25		68		73	196		85		108	237		-16		-2	-26	
Year 25	-1		3	-9		79		98	230		99		135	264		-1		3	-10	
Year 50	12		7	4		97		132	264		112		157	284		12		6	2	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-34		-7					12	-6		14			-1		-34				
Year 5	-34		-7					46	131		59			159		-34				
Year 15	-16		-1					73	196		85			237		-16				
Year 25	-1		3					98	230		99			264		-1				
Year 50	12		7					132	264		112			284		12				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0									
Year 1	-34			-46		12			-6		14			14						
Year 5	-34			-46		52			131		59			60						
Year 15	-16			-25		68			196		85			108						
Year 25	-1			-9		79			230		99			135						
Year 50	12			4		97			264		112			157						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-34		-7	-46		12		12	-6		14		14	-1		-34		-8		
Year 5	-34		-7	-46		52		46	131		59		60	159		-34		-7		
Year 15	-16		-1	-25		68		73	196		85		108	237		-16		-2		
Year 25	-1		3	-9		79		98	230		99		135	264		-1		3		
Year 50	12		7	4		97		132	264		112		157	284		12		6		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-61		-15		-61	31		15	-4	35	35		18	1	35	-61		-15		-61
Year 5	-61		-15		-61	112		67	105	126	126		86	126	126	-61		-15		-61
Year 15	-33		-3		-33	144		103	152	174	174		145	186	174	-33		-4		-33
Year 25	-10		6		-10	165		133	179	196	196		177	209	196	-10		5		-10
Year 50	8		13		8	194		173	209	215	215		203	227	215	8		12		8
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-40	-40		0	0	-42	-42		0	0	-111	-111		0
Year 5	0				0	0	141	141		0	0	139	139		0	0	-111	-111		0
Year 15	0				0	0	171	171		0	0	169	169		0	0	-111	-111		0
Year 25	0				0	0	177	177		0	0	175	175		0	0	-111	-111		0
Year 50	0				0	0	182	182		0	0	180	180		0	0	-111	-111		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-45
 SAM results showing bank-line weighted relative response (feet) at Site RM 78.0L

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-41		-14	-65		30		21	10		18		15	2		-45		-17	-65	
Year 5	-41		-14	-65		83		69	193		67		62	177		-45		-16	-64	
Year 15	-20		-8	-46		102		105	271		95		112	250		-26		-10	-48	
Year 25	-3		-3	-32		116		135	310		115		150	289		-9		-6	-35	
Year 50	11		1	-20		138		175	347		131		179	318		4		-2	-25	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-41		-14					21	10		18			2		-45				
Year 5	-41		-14					69	193		67			177		-45				
Year 15	-20		-8					105	271		95			250		-26				
Year 25	-3		-3					135	310		115			289		-9				
Year 50	11		1					175	347		131			318		4				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0					0		0							
Year 1	-41			-65		30			10		18		15							
Year 5	-41			-65		83			193		67		62							
Year 15	-20			-46		102			271		95		112							
Year 25	-3			-32		116			310		115		150							
Year 50	11			-20		138			347		131		179							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-41		-14	-65		30		21	10		18		15	2		-45		-17		
Year 5	-41		-14	-65		83		69	193		67		62	177		-45		-16		
Year 15	-20		-8	-46		102		105	271		95		112	250		-26		-10		
Year 25	-3		-3	-32		116		135	310		115		150	289		-9		-6		
Year 50	11		1	-20		138		175	347		131		179	318		4		-2		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-70		-28		-70	68		28	18	51	51		17	4	51	-76		-31		-76
Year 5	-70		-28		-70	174		99	161	151	151		85	140	151	-76		-31		-76
Year 15	-41		-16		-41	214		145	218	200	200		147	198	200	-49		-20		-49
Year 25	-17		-6		-17	239		181	249	231	231		191	231	231	-26		-10		-26
Year 50	2		2		2	272		229	282	256	256		226	256	256	-8		-3		-8
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	88	88		0	0	90	90		0	0	-46	-46		0
Year 5	0				0	0	322	322		0	0	325	325		0	0	-46	-46		0
Year 15	0				0	0	361	361		0	0	364	364		0	0	-46	-46		0
Year 25	0				0	0	369	369		0	0	372	372		0	0	-46	-46		0
Year 50	0				0	0	375	375		0	0	378	378		0	0	-46	-46		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-46
SAM results showing wetted-area weighted relative response (square feet) at Site RM 16.9L

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-16,541		-745	4,790		-5,274		-75	-4,548		-7,877		-1,935	-4,577		-16,675		269	10,790	
Year 5	-16,541		2,011	19,982		1,824		5,305	18,743		-125		5,980	21,319		-16,675		2,327	21,624	
Year 15	-14,520		4,289	25,272		4,304		8,823	28,170		3,443		11,183	29,967		-14,647		4,491	26,182	
Year 25	-12,756		5,875	27,596		5,647		11,258	32,471		5,286		13,657	32,425		-12,878		6,055	28,352	
Year 50	-11,251		7,114	29,345		7,027		13,832	36,375		6,997		15,687	34,288		-11,369		7,278	29,986	
Central Valley fall-run chinook salmon																				
Year 0	0		0	0				0	0		0		0		0				0	
Year 1	-16,541		-745	4,790				-75	-4,548		-7,877		-4,577		-16,675				10,790	
Year 5	-16,541		2,011	19,982				5,305	18,743		-125		21,319		-16,675				21,624	
Year 15	-14,520		4,289	25,272				8,823	28,170		3,443		29,967		-14,647				26,182	
Year 25	-12,756		5,875	27,596				11,258	32,471		5,286		32,425		-12,878				28,352	
Year 50	-11,251		7,114	29,345				13,832	36,375		6,997		34,288		-11,369				29,986	
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0						0	
Year 1	-16,541			4,790		-5,274			-4,548		-7,877		-1,935	-4,577					10,790	
Year 5	-16,541			19,982		1,824			18,743		-125		5,980	21,319					21,624	
Year 15	-14,520			25,272		4,304			28,170		3,443		11,183	29,967					26,182	
Year 25	-12,756			27,596		5,647			32,471		5,286		13,657	32,425					28,352	
Year 50	-11,251			29,345		7,027			36,375		6,997		15,687	34,288					29,986	
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-16,541		-745	4,790		-5,274		-75	-4,548		-7,877		-1,935	-4,577		-16,675		269		
Year 5	-16,541		2,011	19,982		1,824		5,305	18,743		-125		5,980	21,319		-16,675		2,327		
Year 15	-14,520		4,289	25,272		4,304		8,823	28,170		3,443		11,183	29,967		-14,647		4,491		
Year 25	-12,756		5,875	27,596		5,647		11,258	32,471		5,286		13,657	32,425		-12,878		6,055		
Year 50	-11,251		7,114	29,345		7,027		13,832	36,375		6,997		15,687	34,288		-11,369		7,278		
Central Valley steelhead																				
Year 0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0
Year 1	-29,965		-1,280	-370	-29,965	-9,711		184	-6,979	-13,056	-13,056		-2,278	-8,903	-13,056	-30,177		873	5,087	-30,177
Year 5	-29,965		3,446	12,072	-29,965	4,660		8,554	11,450	2,592	2,592		9,019	11,335	2,592	-30,177		4,058	13,613	-30,177
Year 15	-27,278		6,800	16,632	-27,278	9,639		13,305	18,227	8,776	8,776		15,620	18,146	8,776	-27,485		7,159	17,514	-27,485
Year 25	-25,006		9,079	18,981	-25,006	12,213		16,400	21,541	11,470	11,470		18,683	20,396	11,470	-25,210		9,388	19,728	-25,210
Year 50	-23,150		10,875	20,768	-23,150	14,779		19,617	24,681	13,790	13,790		21,216	22,143	13,790	-23,352		11,146	21,414	-23,352
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-30,084	-30,084		0	0	-31,322	-31,322		0	0	-8,001	-8,001		0
Year 5	0				0	0	-526	-526		0	0	-1,864	-1,864		0	0	4,705	4,705		0
Year 15	0				0	0	4,409	4,409		0	0	3,055	3,055		0	0	6,828	6,828		0
Year 25	0				0	0	5,396	5,396		0	0	4,038	4,038		0	0	7,253	7,253		0
Year 50	0				0	0	6,136	6,136		0	0	4,776	4,776		0	0	7,572	7,572		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-47
SAM results showing wetted-area weighted relative response (square feet) at Site RM 19.0R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-20,819		-6,526	-8,832		-7,911		-8,012	-31,025		-10,998		-13,865	-32,532		-21,240		-6,266	-7,256	
Year 5	-20,819		-4,342	3,470		375		-1,258	-3,204		-1,931		-3,923	-1,557		-21,240		-3,878	5,396	
Year 15	-18,316		-1,653	9,244		3,271		3,151	8,042		2,240		2,597	8,768		-18,843		-1,316	10,805	
Year 25	-16,115		337	12,185		4,837		6,203	13,169		4,393		5,695	11,700		-16,749		543	13,410	
Year 50	-14,214		1,899	14,400		6,447		9,427	17,821		6,392		8,238	13,923		-14,960		1,998	15,370	
Central Valley fall-run chinook salmon																				
Year 0	0		0	0				0	0		0		0		0				0	
Year 1	-20,819		-6,526	-8,832				-8,012	-31,025		-10,998		-32,532	-21,240					-7,256	
Year 5	-20,819		-4,342	3,470				-1,258	-3,204		-1,931		-1,557	-21,240					5,396	
Year 15	-18,316		-1,653	9,244				3,151	8,042		2,240		8,768	-18,843					10,805	
Year 25	-16,115		337	12,185				6,203	13,169		4,393		11,700	-16,749					13,410	
Year 50	-14,214		1,899	14,400				9,427	17,821		6,392		13,923	-14,960					15,370	
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0	0					0	
Year 1	-20,819			-8,832		-7,911			-31,025		-10,998		-13,865	-32,532					-7,256	
Year 5	-20,819			3,470		375			-3,204		-1,931		-3,923	-1,557					5,396	
Year 15	-18,316			9,244		3,271			8,042		2,240		2,597	8,768					10,805	
Year 25	-16,115			12,185		4,837			13,169		4,393		5,695	11,700					13,410	
Year 50	-14,214			14,400		6,447			17,821		6,392		8,238	13,923					15,370	
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-20,819		-6,526	-8,832		-7,911		-8,012	-31,025		-10,998		-13,865	-32,532		-21,240		-6,266		
Year 5	-20,819		-4,342	3,470		375		-1,258	-3,204		-1,931		-3,923	-1,557		-21,240		-3,878		
Year 15	-18,316		-1,653	9,244		3,271		3,151	8,042		2,240		2,597	8,768		-18,843		-1,316		
Year 25	-16,115		337	12,185		4,837		6,203	13,169		4,393		5,695	11,700		-16,749		543		
Year 50	-14,214		1,899	14,400		6,447		9,427	17,821		6,392		8,238	13,923		-14,960		1,998		
Central Valley steelhead																				
Year 0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0
Year 1	-39,174		-10,214	-12,196	-39,174	-15,335		-11,929	-26,434	-19,398	-19,398		-18,767	-29,496	-19,398	-39,448		-9,744	-10,710	-39,448
Year 5	-39,174		-6,726	-2,439	-39,174	1,445		-1,625	-4,540	-1,093	-1,093		-4,847	-5,415	-1,093	-39,448		-6,041	-746	-39,448
Year 15	-35,752		-2,852	2,529	-35,752	7,254		4,218	3,503	6,132	6,132		3,272	2,675	6,132	-36,251		-2,367	3,889	-36,251
Year 25	-32,848		-7	5,471	-32,848	10,255		8,022	7,433	9,278	9,278		7,036	5,345	9,278	-33,548		284	6,537	-33,548
Year 50	-30,462		2,246	7,714	-30,462	13,249		11,975	11,157	11,987	11,987		10,148	7,419	11,987	-31,338		2,375	8,554	-31,338
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0		0	0	0	0	0		0
Year 1	0				0	0	-36,926	-36,926		0	0	-37,975	-37,975		0	0	-11,607	-11,607		0
Year 5	0				0	0	-1,623	-1,623		0	0	-2,730	-2,730		0	0	3,269	3,269		0
Year 15	0				0	0	4,271	4,271		0	0	3,155	3,155		0	0	5,755	5,755		0
Year 25	0				0	0	5,450	5,450		0	0	4,331	4,331		0	0	6,253	6,253		0
Year 50	0				0	0	6,334	6,334		0	0	5,214	5,214		0	0	6,626	6,626		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-48
SAM results showing wetted-area weighted relative response (square feet) at Site RM 19.4R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-4,910		139	4,276		201		-845	-4,896		-821		-1,096	-3,072		-4,887		410	4,933	
Year 5	-4,910		1,204	9,599		3,614		1,872	6,442		2,875		2,939	9,292		-4,887		1,568	10,374	
Year 15	-4,037		2,101	11,483		4,781		3,548	10,773		4,455		5,121	12,851		-4,063		2,404	12,148	
Year 25	-3,290		2,725	12,262		5,405		4,678	12,659		5,233		6,083	13,778		-3,367		2,966	12,824	
Year 50	-2,670		3,208	12,848		6,045		5,861	14,351		5,935		6,864	14,480		-2,799		3,400	13,332	
Central Valley fall-run chinook salmon																				
Year 0	0		0	0				0	0		0			0					0	
Year 1	-4,910		139	4,276				-845	-4,896		-821			-3,072		-4,887			4,933	
Year 5	-4,910		1,204	9,599				1,872	6,442		2,875			9,292		-4,887			10,374	
Year 15	-4,037		2,101	11,483				3,548	10,773		4,455			12,851		-4,063			12,148	
Year 25	-3,290		2,725	12,262				4,678	12,659		5,233			13,778		-3,367			12,824	
Year 50	-2,670		3,208	12,848				5,861	14,351		5,935			14,480		-2,799			13,332	
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0	0					0	
Year 1	-4,910			4,276		201			-4,896		-821			-1,096					4,933	
Year 5	-4,910			9,599		3,614			6,442		2,875			2,939					10,374	
Year 15	-4,037			11,483		4,781			10,773		4,455			5,121					12,148	
Year 25	-3,290			12,262		5,405			12,659		5,233			6,083					12,824	
Year 50	-2,670			12,848		6,045			14,351		5,935			6,864					13,332	
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-4,910		139	4,276		201		-845	-4,896		-821		-1,096	-3,072		-4,887		410		
Year 5	-4,910		1,204	9,599		3,614		1,872	6,442		2,875		2,939	9,292		-4,887		1,568		
Year 15	-4,037		2,101	11,483		4,781		3,548	10,773		4,455		5,121	12,851		-4,063		2,404		
Year 25	-3,290		2,725	12,262		5,405		4,678	12,659		5,233		6,083	13,778		-3,367		2,966		
Year 50	-2,670		3,208	12,848		6,045		5,861	14,351		5,935		6,864	14,480		-2,799		3,400		
Central Valley steelhead																				
Year 0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0
Year 1	-7,356		32	2,758	-7,356	1,373		-1,511	-4,677	811	811		-1,916	-3,895	811	-7,174		467	3,487	-7,174
Year 5	-7,356		1,663	6,932	-7,356	8,295		2,657	4,240	8,272	8,272		3,722	5,736	8,272	-7,174		2,191	7,732	-7,174
Year 15	-6,266		2,948	8,516	-6,266	10,617		4,899	7,362	10,931	10,931		6,487	8,532	10,931	-6,180		3,384	9,198	-6,180
Year 25	-5,353		3,835	9,335	-5,353	11,794		6,324	8,837	12,033	12,033		7,689	9,383	12,033	-5,353		4,184	9,913	-5,353
Year 50	-4,619		4,529	9,957	-4,619	12,963		7,794	10,223	12,971	12,971		8,676	10,040	12,971	-4,692		4,807	10,455	-4,692
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-3,026	-3,026		0	0	-3,314	-3,314		0	0	4,806	4,806		0
Year 5	0				0	0	11,177	11,177		0	0	10,869	10,869		0	0	10,969	10,969		0
Year 15	0				0	0	13,548	13,548		0	0	13,237	13,237		0	0	11,999	11,999		0
Year 25	0				0	0	14,023	14,023		0	0	13,711	13,711		0	0	12,205	12,205		0
Year 50	0				0	0	14,378	14,378		0	0	14,066	14,066		0	0	12,360	12,360		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-49
 SAM results showing wetted-area weighted relative response (square feet) at Site RM 22.7R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-3,123		-252	495		-1,245		-784	-3,596		-1,649		-1,073	-3,029		-3,135		-175	676	
Year 5	-3,123		161	2,480		32		245	660		-273		450	1,589		-3,135		255	2,688	
Year 15	-2,821		464	3,128		469		879	2,282		315		1,269	2,913		-2,832		562	3,340	
Year 25	-2,566		670	3,374		702		1,305	2,987		603		1,630	3,257		-2,576		767	3,587	
Year 50	-2,358		828	3,559		941		1,752	3,620		863		1,922	3,518		-2,368		926	3,773	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0		0		0					
Year 1	-3,123		-252					-784	-3,596		-1,649		-3,029		-3,135					
Year 5	-3,123		161					245	660		-273		1,589		-3,135					
Year 15	-2,821		464					879	2,282		315		2,913		-2,832					
Year 25	-2,566		670					1,305	2,987		603		3,257		-2,576					
Year 50	-2,358		828					1,752	3,620		863		3,518		-2,368					
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0									
Year 1	-3,123			495		-1,245			-3,596		-1,649		-1,073							
Year 5	-3,123			2,480		32			660		-273		450							
Year 15	-2,821			3,128		469			2,282		315		1,269							
Year 25	-2,566			3,374		702			2,987		603		1,630							
Year 50	-2,358			3,559		941			3,620		863		1,922							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-3,123		-252	495		-1,245		-784	-3,596		-1,649		-1,073	-3,029		-3,135		-175		
Year 5	-3,123		161	2,480		32		245	660		-273		450	1,589		-3,135		255		
Year 15	-2,821		464	3,128		469		879	2,282		315		1,269	2,913		-2,832		562		
Year 25	-2,566		670	3,374		702		1,305	2,987		603		1,630	3,257		-2,576		767		
Year 50	-2,358		828	3,559		941		1,752	3,620		863		1,922	3,518		-2,368		926		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-5,513		-491		-5,513	-2,313		-1,271	-3,146	-2,604		-2,604		-1,640	-2,943		-2,604		-5,535	-370
Year 5	-5,513		133		-5,513	278		303	199	175		175		482	652		175		-5,535	269
Year 15	-5,149		569		-5,149	1,147		1,149	1,368	1,162		1,162		1,518	1,691		1,162		-5,170	707
Year 25	-4,846		861		-4,846	1,587		1,685	1,919	1,571		1,571		1,967	2,007		1,571		-4,867	1,000
Year 50	-4,605		1,088		-4,605	2,024		2,239	2,437	1,918		1,918		2,336	2,250		1,918		-4,626	1,227
Delta Smelt																				
Year 0	0				0	0		0	0	0		0	0		0	0		0	0	0
Year 1	0				0	0		-3,818	-3,818		0	0		-4,020	-4,020		0	0	-131	-131
Year 5	0				0	0		1,515	1,515		0	0		1,283	1,283		0	0	2,147	2,147
Year 15	0				0	0		2,405	2,405		0	0		2,168	2,168		0	0	2,528	2,528
Year 25	0				0	0		2,583	2,583		0	0		2,345	2,345		0	0	2,604	2,604
Year 50	0				0	0		2,717	2,717		0	0		2,478	2,478		0	0	2,661	2,661

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-50
SAM results showing wetted-area weighted relative response (square feet) at Site RM 33.0R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-6,300		-1,000	-4,059		-145		2,628	6,777		-1,302		2,272	5,234		-6,327		-728	-1,470	
Year 5	-6,300		-764	-1,967		3,802		5,974	20,286		3,060		7,076	20,587		-6,327		-708	-1,426	
Year 15	-4,965		-304	-436		5,210		8,287	26,019		5,220		10,920	26,620		-4,990		-283	-238	
Year 25	-3,771		53	584		5,981		9,930	28,747		6,366		12,884	28,489		-3,796		67	712	
Year 50	-2,720		336	1,353		6,776		11,683	31,260		7,437		14,515	29,911		-2,743		345	1,429	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-6,300		-1,000					2,628	6,777		-1,302			5,234		-6,327				
Year 5	-6,300		-764					5,974	20,286		3,060			20,587		-6,327				
Year 15	-4,965		-304					8,287	26,019		5,220			26,620		-4,990				
Year 25	-3,771		53					9,930	28,747		6,366			28,489		-3,796				
Year 50	-2,720		336					11,683	31,260		7,437			29,911		-2,743				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0				0			0							
Year 1	-6,300			-4,059		-145			6,777		-1,302		2,272							
Year 5	-6,300			-1,967		3,802			20,286		3,060		7,076							
Year 15	-4,965			-436		5,210			26,019		5,220		10,920							
Year 25	-3,771			584		5,981			28,747		6,366		12,884							
Year 50	-2,720			1,353		6,776			31,260		7,437		14,515							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-6,300		-1,000	-4,059		-145		2,628	6,777		-1,302		2,272	5,234		-6,327		-728		
Year 5	-6,300		-764	-1,967		3,802		5,974	20,286		3,060		7,076	20,587		-6,327		-708		
Year 15	-4,965		-304	-436		5,210		8,287	26,019		5,220		10,920	26,620		-4,990		-283		
Year 25	-3,771		53	584		5,981		9,930	28,747		6,366		12,884	28,489		-3,796		67	712	
Year 50	-2,720		336	1,353		6,776		11,683	31,260		7,437		14,515	29,911		-2,743		345	1,429	
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-11,323		-1,837		-11,323	459		4,206	5,347		-1,436	-1,436		3,473	3,429		-1,436	-11,366		-1,136
Year 5	-11,323		-1,261		-11,323	8,435		9,292	16,011		7,374	7,374		10,262	15,375		7,374	-11,366		-1,116
Year 15	-9,391		-351		-9,391	11,286		12,332	20,117		11,242	11,242		14,995	20,077		11,242	-9,432		-299
Year 25	-7,739		347		-7,739	12,788		14,361	22,193		13,002	13,002		17,338	21,760		13,002	-7,780		381
Year 50	-6,368		904		-6,368	14,292		16,486	24,178		14,525	14,525		19,294	23,073		14,525	-6,408		924
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-2,953	-2,953		0	0	-3,372	-3,372		0	0	-10,631	-10,631		0
Year 5	0				0	0	14,475	14,475		0	0	14,002	14,002		0	0	-10,631	-10,631		0
Year 15	0				0	0	17,385	17,385		0	0	16,902	16,902		0	0	-10,631	-10,631		0
Year 25	0				0	0	17,967	17,967		0	0	17,482	17,482		0	0	-10,631	-10,631		0
Year 50	0				0	0	18,403	18,403		0	0	17,917	17,917		0	0	-10,631	-10,631		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-51
 SAM results showing wetted-area weighted relative response (square feet) at Site RM 33.3R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-4,446		-452	-979		-124		2,014	5,312		-1,061		2,213	5,974		-4,458		-236	866	
Year 5	-4,446		-259	540		2,584		4,432	14,713		1,905		5,761	16,455		-4,458		-220	898	
Year 15	-3,655		4	1,286		3,531		6,015	18,492		3,278		8,127	19,961		-3,665		15	1,398	
Year 25	-2,963		201	1,732		4,044		7,112	20,214		3,988		9,257	20,954		-2,971		206	1,795	
Year 50	-2,370		355	2,068		4,571		8,272	21,779		4,648		10,186	21,707		-2,376		356	2,095	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-4,446		-452					2,014	5,312		-1,061			5,974		-4,458				
Year 5	-4,446		-259					4,432	14,713		1,905			16,455		-4,458				
Year 15	-3,655		4					6,015	18,492		3,278			19,961		-3,665				
Year 25	-2,963		201					7,112	20,214		3,988			20,954		-2,971				
Year 50	-2,370		355					8,272	21,779		4,648			21,707		-2,376				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0							
Year 1	-4,446			-979		-124			5,312		-1,061		2,213							
Year 5	-4,446			540		2,584			14,713		1,905		5,761							
Year 15	-3,655			1,286		3,531			18,492		3,278		8,127							
Year 25	-2,963			1,732		4,044			20,214		3,988		9,257							
Year 50	-2,370			2,068		4,571			21,779		4,648		10,186							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-4,446		-452	-979		-124		2,014	5,312		-1,061		2,213	5,974		-4,458		-236		
Year 5	-4,446		-259	540		2,584		4,432	14,713		1,905		5,761	16,455		-4,458		-220		
Year 15	-3,655		4	1,286		3,531		6,015	18,492		3,278		8,127	19,961		-3,665		15		
Year 25	-2,963		201	1,732		4,044		7,112	20,214		3,988		9,257	20,954		-2,971		206		
Year 50	-2,370		355	2,068		4,571		8,272	21,779		4,648		10,186	21,707		-2,376		356		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-7,354		-831		-7,354	368		3,166	4,292	-756		-756		3,233	4,152	-756		-7,374		-293
Year 5	-7,354		-379		-7,354	5,851		6,789	11,663	5,231		5,231		8,118	12,270	5,231		-7,374		-278
Year 15	-6,294		138		-6,294	7,753		8,849	14,376	7,615		7,615		11,009	15,031	7,615		-6,312		167
Year 25	-5,398		518		-5,398	8,736		10,192	15,703	8,657		8,657		12,358	15,948	8,657		-5,412		534
Year 50	-4,664		819		-4,664	9,717		11,587	16,962	9,555		9,555		13,473	16,660	9,555		-4,677		825
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	783	783		0	0	726	726		0	0	-5,115	-5,115		0
Year 5	0				0	0	12,744	12,744		0	0	12,666	12,666		0	0	-5,115	-5,115		0
Year 15	0				0	0	14,741	14,741		0	0	14,659	14,659		0	0	-5,115	-5,115		0
Year 25	0				0	0	15,140	15,140		0	0	15,058	15,058		0	0	-5,115	-5,115		0
Year 50	0				0	0	15,440	15,440		0	0	15,357	15,357		0	0	-5,115	-5,115		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-52
SAM results showing wetted-area weighted relative response (square feet) at Site RM 43.7R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-19,123		-1,138	9,817		-756		-3,440	-20,482		-4,666		-6,356	-17,291		-19,460		-1,087	10,517	
Year 5	-19,123		2,171	28,005		11,567		7,068	21,361		8,667		8,930	28,575		-19,460		2,458	29,136	
Year 15	-15,579		5,954	36,030		15,833		13,760	37,852		14,698		18,523	43,318		-15,984		6,162	36,935	
Year 25	-12,476		8,723	39,968		18,128		18,343	45,223		17,783		23,006	47,421		-12,955		8,838	40,638	
Year 50	-9,814		10,892	42,933		20,486		23,170	51,888		20,634		26,678	50,529		-10,373		10,929	43,426	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0		0		0					
Year 1	-19,123		-1,138					-3,440	-20,482		-4,666		-17,291		-19,460					
Year 5	-19,123		2,171					7,068	21,361		8,667		28,575		-19,460					
Year 15	-15,579		5,954					13,760	37,852		14,698		43,318		-15,984					
Year 25	-12,476		8,723					18,343	45,223		17,783		47,421		-12,955					
Year 50	-9,814		10,892					23,170	51,888		20,634		50,529		-10,373					
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0			0						
Year 1	-19,123			9,817		-756			-20,482		-4,666		-6,356							
Year 5	-19,123			28,005		11,567			21,361		8,667		8,930							
Year 15	-15,579			36,030		15,833			37,852		14,698		18,523							
Year 25	-12,476			39,968		18,128			45,223		17,783		23,006							
Year 50	-9,814			42,933		20,486			51,888		20,634		26,678							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-19,123		-1,138	9,817		-756		-3,440	-20,482		-4,666		-6,356	-17,291		-19,460		-1,087		
Year 5	-19,123		2,171	28,005		11,567		7,068	21,361		8,667		8,930	28,575		-19,460		2,458		
Year 15	-15,579		5,954	36,030		15,833		13,760	37,852		14,698		18,523	43,318		-15,984		6,162		
Year 25	-12,476		8,723	39,968		18,128		18,343	45,223		17,783		23,006	47,421		-12,955		8,838		
Year 50	-9,814		10,892	42,933		20,486		23,170	51,888		20,634		26,678	50,529		-10,373		10,929		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0		0		0		0
Year 1	-31,504		-2,335		-31,504	1,618		-6,003	-18,721	-2,324		-9,939	-18,868	-2,324		-31,671		-2,179		-31,671
Year 5	-31,504		2,903		-31,504	26,591		9,858	14,077	24,589		24,589	11,234	16,712		24,589		3,302		-31,671
Year 15	-26,740		8,343		-26,740	35,116		18,644	25,870	34,963		34,963	23,100	28,256		34,963		8,609		-27,066
Year 25	-22,707		12,295		-22,707	39,484		24,310	31,550	39,435		39,435	28,521	31,998		39,435		12,423		-23,175
Year 50	-19,404		15,418		-19,404	43,838		30,182	36,919	43,280		43,280	32,996	34,900		43,280		15,429		-19,998
Delta Smelt																				
Year 0	0				0	0			0	0		0	0		0	0		0	0	
Year 1	0				0	0		-18,174	-18,174		0	0	-18,149	-18,149		0	0	11,322	11,322	
Year 5	0				0	0		34,694	34,694		0	0	34,226	34,226		0	0	33,144	33,144	
Year 15	0				0	0		43,521	43,521		0	0	42,970	42,970		0	0	36,792	36,792	
Year 25	0				0	0		45,286	45,286		0	0	44,719	44,719		0	0	37,521	37,521	
Year 50	0				0	0		46,610	46,610		0	0	46,030	46,030		0	0	38,068	38,068	

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-53
SAM results showing wetted-area weighted relative response (square feet) at Site RM 44.7R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-48,798		-15,727	-45,809		-18,865		-8,834	-45,328		-25,252		-10,847	-33,236		-49,000		-15,884	-46,068	
Year 5	-48,798		-15,728	-45,809		1,167		10,222	25,324		-3,648		17,326	43,521		-49,000		-15,741	-45,823	
Year 15	-43,897		-14,466	-43,858		8,024		21,980	52,080		5,623		32,704	65,491		-44,105		-14,463	-43,862	
Year 25	-39,735		-13,436	-42,293		11,687		29,913	63,699		10,200		39,515	71,157		-39,951		-13,434	-42,314	
Year 50	-36,310		-12,638	-41,115		15,444		38,223	74,149		14,333		45,046	75,440		-36,540		-12,638	-41,148	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0		0		0					
Year 1	-48,798		-15,727					-8,834	-45,328		-25,252		-33,236		-49,000					
Year 5	-48,798		-15,728					10,222	25,324		-3,648		43,521		-49,000					
Year 15	-43,897		-14,466					21,980	52,080		5,623		65,491		-44,105					
Year 25	-39,735		-13,436					29,913	63,699		10,200		71,157		-39,951					
Year 50	-36,310		-12,638					38,223	74,149		14,333		75,440		-36,540					
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0				0			0							
Year 1	-48,798			-45,809		-18,865			-45,328		-25,252		-10,847							
Year 5	-48,798			-45,809		1,167			25,324		-3,648		17,326							
Year 15	-43,897			-43,858		8,024			52,080		5,623		32,704							
Year 25	-39,735			-42,293		11,687			63,699		10,200		39,515							
Year 50	-36,310			-41,115		15,444			74,149		14,333		45,046							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-48,798		-15,727	-45,809		-18,865		-8,834	-45,328		-25,252		-10,847	-33,236		-49,000		-15,884		
Year 5	-48,798		-15,728	-45,809		1,167		10,222	25,324		-3,648		17,326	43,521		-49,000		-15,741		
Year 15	-43,897		-14,466	-43,858		8,024		21,980	52,080		5,623		32,704	65,491		-44,105		-14,463		
Year 25	-39,735		-13,436	-42,293		11,687		29,913	63,699		10,200		39,515	71,157		-39,951		-13,434		
Year 50	-36,310		-12,638	-41,115		15,444		38,223	74,149		14,333		45,046	75,440		-36,540		-12,638		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0	0		0
Year 1	-86,034		-27,082		-86,034	-34,834		-14,592	-37,799	-39,681		-39,681		-17,513	-32,177	-39,681		-86,306		-27,213
Year 5	-86,034		-27,083		-86,034	5,800		13,481	17,212	3,928		3,928		20,308	27,018	3,928		-86,306		-27,088
Year 15	-80,033		-24,678		-80,033	19,441		28,590	36,474	19,546		19,546		39,009	44,310	19,546		-80,328		-24,676
Year 25	-75,023		-22,704		-75,023	26,352		38,196	45,573	26,041		26,041		47,170	49,588	26,041		-75,342		-22,710
Year 50	-71,006		-21,160		-71,006	33,221		48,107	54,128	31,570		31,570		53,877	53,663	31,570		-71,347		-21,173
Delta Smelt																				
Year 0	0				0	0		0	0	0		0	0	0		0	0	0	0	0
Year 1	0				0	0		-45,361	-45,361		0	0	-45,120	-45,120		0	0	-71,820	-71,820	0
Year 5	0				0	0		43,419	43,419		0	0	43,174	43,174		0	0	-71,820	-71,820	0
Year 15	0				0	0		58,242	58,242		0	0	57,915	57,915		0	0	-71,820	-71,820	0
Year 25	0				0	0		61,206	61,206		0	0	60,864	60,864		0	0	-71,820	-71,820	0
Year 50	0				0	0		63,429	63,429		0	0	63,075	63,075		0	0	-71,820	-71,820	0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-54
SAM results showing wetted-area weighted relative response (square feet) at Site RM 47.0L

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-12,830		-3,584	-16,448		1,159		-4,530	-27,149		-663		-7,753	-32,701		-14,010		-4,451	-18,628	
Year 5	-12,830		-3,585	-16,448		13,749		4,960	13,986		12,961		5,173	12,939		-14,010		-4,368	-18,481	
Year 15	-7,976		-1,246	-10,677		18,554		12,166	32,049		20,256		16,560	32,083		-9,160		-2,029	-12,896	
Year 25	-3,841		659	-6,054		21,931		18,384	41,142		24,143		22,473	38,216		-5,039		-133	-8,437	
Year 50	-427		2,132	-2,579		27,174		26,758	49,881		27,585		27,204	42,846		-1,649		1,330	-5,086	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-12,830		-3,584					-4,530	-27,149		-663			-32,701		-14,010				
Year 5	-12,830		-3,585					4,960	13,986		12,961			12,939		-14,010				
Year 15	-7,976		-1,246					12,166	32,049		20,256			32,083		-9,160				
Year 25	-3,841		659					18,384	41,142		24,143			38,216		-5,039				
Year 50	-427		2,132					26,758	49,881		27,585			42,846		-1,649				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0			0						
Year 1	-12,830			-16,448		1,159			-27,149		-663			-7,753						
Year 5	-12,830			-16,448		13,749			13,986		12,961			5,173						
Year 15	-7,976			-10,677		18,554			32,049		20,256			16,560						
Year 25	-3,841			-6,054		21,931			41,142		24,143			22,473						
Year 50	-427			-2,579		27,174			49,881		27,585			27,204						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-12,830		-3,584	-16,448		1,159		-4,530	-27,149		-663		-7,753	-32,701		-14,010		-4,451		
Year 5	-12,830		-3,585	-16,448		13,749		4,960	13,986		12,961		5,173	12,939		-14,010		-4,368		
Year 15	-7,976		-1,246	-10,677		18,554		12,166	32,049		20,256		16,560	32,083		-9,160		-2,029		
Year 25	-3,841		659	-6,054		21,931		18,384	41,142		24,143		22,473	38,216		-5,039		-133		
Year 50	-427		2,132	-2,579		27,174		26,758	49,881		27,585		27,204	42,846		-1,649		1,330		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0	0	0	0
Year 1	-23,516		-6,546		-23,516	4,785		-7,660	-24,559	1,663	1,663		-12,024	-29,549	1,663	-25,640		-7,875		-25,640
Year 5	-23,516		-6,547		-23,516	30,238		7,171	8,161	29,184	29,184		6,957	6,353	29,184	-25,640		-7,802		-25,640
Year 15	-16,293		-2,468		-16,293	39,878		16,812	21,346	42,127	42,127		21,432	21,419	42,127	-18,497		-3,745		-18,497
Year 25	-10,306		866		-10,306	46,030		24,574	28,717	48,105	48,105		28,718	26,946	48,105	-12,583		-440		-12,583
Year 50	-5,555		3,455		-5,555	54,250		34,892	36,575	53,087	53,087		34,597	31,185	53,087	-7,899		2,124		-7,899
Delta Smelt																				
Year 0	0				0	0		0	0	0		0	0	0		0	0	0	0	0
Year 1	0				0	0		-34,403	-34,403		0	0	-35,391	-35,391		0	0	-24,403	-24,403	0
Year 5	0				0	0		18,625	18,625		0	0	16,350	16,350		0	0	-24,403	-24,403	0
Year 15	0				0	0		27,478	27,478		0	0	24,988	24,988		0	0	-24,403	-24,403	0
Year 25	0				0	0		29,249	29,249		0	0	26,716	26,716		0	0	-24,403	-24,403	0
Year 50	0				0	0		30,577	30,577		0	0	28,012	28,012		0	0	-24,403	-24,403	0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-55
 SAM results showing wetted-area weighted relative response (square feet) at Site RM 47.9R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-29,972		-8,174	-23,703		-9,803		-4,307	-29,422		-14,307		-10,143	-30,849		-30,877		-8,488	-22,745	
Year 5	-29,972		-8,140	-23,682		3,998		8,140	18,460		706		7,871	22,113		-30,877		-8,363	-22,561	
Year 15	-25,642		-6,071	-19,819		8,810		16,223	37,540		7,675		19,981	39,943		-26,704		-6,398	-19,178	
Year 25	-21,805		-4,364	-16,721		11,410		21,804	46,180		11,285		25,789	45,013		-23,029		-4,790	-16,481	
Year 50	-18,461		-3,016	-14,384		14,083		27,700	54,031		14,644		30,561	48,858		-19,853		-3,525	-14,447	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0		0		0					
Year 1	-29,972		-8,174					-4,307	-29,422		-14,307		-30,849		-30,877					
Year 5	-29,972		-8,140					8,140	18,460		706		22,113		-30,877					
Year 15	-25,642		-6,071					16,223	37,540		7,675		39,943		-26,704					
Year 25	-21,805		-4,364					21,804	46,180		11,285		45,013		-23,029					
Year 50	-18,461		-3,016					27,700	54,031		14,644		48,858		-19,853					
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0				0		0								
Year 1	-29,972			-23,703		-9,803			-29,422		-14,307		-10,143							
Year 5	-29,972			-23,682		3,998			18,460		706		7,871							
Year 15	-25,642			-19,819		8,810			37,540		7,675		19,981							
Year 25	-21,805			-16,721		11,410			46,180		11,285		25,789							
Year 50	-18,461			-14,384		14,083			54,031		14,644		30,561							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-29,972		-8,174	-23,703		-9,803		-4,307	-29,422		-14,307		-10,143	-30,849		-30,877		-8,488		
Year 5	-29,972		-8,140	-23,682		3,998		8,140	18,460		706		7,871	22,113		-30,877		-8,363		
Year 15	-25,642		-6,071	-19,819		8,810		16,223	37,540		7,675		19,981	39,943		-26,704		-6,398		
Year 25	-21,805		-4,364	-16,721		11,410		21,804	46,180		11,285		25,789	45,013		-23,029		-4,790		
Year 50	-18,461		-3,016	-14,384		14,083		27,700	54,031		14,644		30,561	48,858		-19,853		-3,525		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0	0	0	0
Year 1	-55,751		-13,896		-55,751	-17,741		-7,794	-24,607	-23,521		-23,521		-15,404	-28,740	-23,521		-56,622		-14,254
Year 5	-55,751		-13,869		-55,751	10,210		10,785	12,885	6,786		6,786		9,365	12,264	6,786		-56,622		-14,152
Year 15	-49,676		-10,346		-49,676	19,857		21,266	26,584	18,904		18,904		24,133	26,292	18,904		-50,899		-10,830
Year 25	-44,505		-7,420		-44,505	24,832		28,077	33,258	24,212		24,212		31,038	30,970	24,212		-46,040		-8,086
Year 50	-40,235		-5,091		-40,235	29,795		35,152	39,582	28,785		28,785		36,753	34,605	28,785		-42,047		-5,908
Delta Smelt																				
Year 0	0				0	0		0	0		0	0		0	0		0	0		0
Year 1	0				0	0		-33,225	-33,225		0	0		-35,427	-35,427		0	0		-32,351
Year 5	0				0	0		27,635	27,635		0	0		24,951	24,951		0	0		-32,351
Year 15	0				0	0		37,796	37,796		0	0		35,032	35,032		0	0		-32,351
Year 25	0				0	0		39,828	39,828		0	0		37,048	37,048		0	0		-32,351
Year 50	0				0	0		41,352	41,352		0	0		38,560	38,560		0	0		-32,351

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-56
 SAM results showing wetted-area weighted relative response (square feet) at Site RM 48.2R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-19,566		-6,720	-23,945		-4,664		-1,294	-14,889		-7,694		-4,540	-15,769		-20,034		-7,025	-23,919	
Year 5	-19,566		-6,720	-23,945		5,765		8,315	21,588		3,653		9,169	24,602		-20,034		-6,968	-23,801	
Year 15	-16,224		-5,682	-21,214		9,406		14,576	36,177		9,009		18,801	38,736		-16,750		-5,949	-21,231	
Year 25	-13,252		-4,823	-19,021		11,375		18,905	42,799		11,800		23,494	42,838		-13,839		-5,114	-19,181	
Year 50	-10,650		-4,143	-17,367		13,399		23,480	48,819		14,404		27,361	45,950		-11,302		-4,453	-17,634	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-19,566		-6,720					-1,294	-14,889		-7,694			-15,769		-20,034				
Year 5	-19,566		-6,720					8,315	21,588		3,653			24,602		-20,034				
Year 15	-16,224		-5,682					14,576	36,177		9,009			38,736		-16,750				
Year 25	-13,252		-4,823					18,905	42,799		11,800			42,838		-13,839				
Year 50	-10,650		-4,143					23,480	48,819		14,404			45,950		-11,302				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0				0			0							
Year 1	-19,566			-23,945		-4,664			-14,889		-7,694			-4,540						
Year 5	-19,566			-23,945		5,765			21,588		3,653			9,169						
Year 15	-16,224			-21,214		9,406			36,177		9,009			18,801						
Year 25	-13,252			-19,021		11,375			42,799		11,800			23,494						
Year 50	-10,650			-17,367		13,399			48,819		14,404			27,361						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-19,566		-6,720	-23,945		-4,664		-1,294	-14,889		-7,694		-4,540	-15,769		-20,034		-7,025		
Year 5	-19,566		-6,720	-23,945		5,765		8,315	21,588		3,653		9,169	24,602		-20,034		-6,968		
Year 15	-16,224		-5,682	-21,214		9,406		14,576	36,177		9,009		18,801	38,736		-16,750		-5,949		
Year 25	-13,252		-4,823	-19,021		11,375		18,905	42,799		11,800		23,494	42,838		-13,839		-5,114		
Year 50	-10,650		-4,143	-17,367		13,399		23,480	48,819		14,404		27,361	45,950		-11,302		-4,453		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0	0	0	0
Year 1	-35,669		-11,992		-35,669	-7,329		-2,882	-12,814	-11,340		-11,340	-7,291	-15,536	-11,340		-36,208		-12,404	-36,208
Year 5	-35,669		-11,992		-35,669	13,791		11,419	15,730	11,569		11,569	11,595	15,716	11,569		-36,208		-12,350	-36,208
Year 15	-30,922		-9,993		-30,922	21,095		19,514	26,192	20,952		20,952	23,314	26,801	20,952		-31,597		-10,402	-31,597
Year 25	-26,874		-8,329		-26,874	24,866		24,781	31,298	25,101		25,101	28,872	30,561	25,101		-27,672		-8,788	-27,672
Year 50	-23,523		-7,002		-23,523	28,627		30,253	36,137	28,681		28,681	33,483	33,486	28,681		-24,431		-7,503	-24,431
Delta Smelt																				
Year 0	0				0	0		0	0	0		0	0	0		0	0	0	0	0
Year 1	0				0	0		-16,702	-16,702		0	0	-17,356	-17,356		0	0	-32,331	-32,331	0
Year 5	0				0	0		29,735	29,735		0	0	28,620	28,620		0	0	-32,331	-32,331	0
Year 15	0				0	0		37,488	37,488		0	0	36,295	36,295		0	0	-32,331	-32,331	0
Year 25	0				0	0		39,039	39,039		0	0	37,831	37,831		0	0	-32,331	-32,331	0
Year 50	0				0	0		40,202	40,202		0	0	38,982	38,982		0	0	-32,331	-32,331	0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-57
 SAM results showing wetted-area weighted relative response (square feet) at Site RM 62.5R

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-5,192		-1,980	-8,394		-2,193		-791	-5,465		-3,028		-2,700	-7,166		-5,687		-2,394	-8,842	
Year 5	-5,192		-1,980	-8,394		504		1,647	3,921		-122		794	3,163		-5,687		-2,381	-8,813	
Year 15	-4,175		-1,668	-7,420		1,517		3,421	7,874		1,322		3,312	6,791		-4,705		-2,082	-7,960	
Year 25	-3,314		-1,414	-6,639		2,223		4,917	9,800		2,060		4,529	7,843		-3,878		-1,841	-7,280	
Year 50	-2,608		-1,218	-6,053		3,312		6,907	11,632		2,696		5,491	8,637		-3,207		-1,655	-6,769	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0		0		0					
Year 1	-5,192		-1,980					-791	-5,465		-3,028		-7,166		-5,687					
Year 5	-5,192		-1,980					1,647	3,921		-122		3,163		-5,687					
Year 15	-4,175		-1,668					3,421	7,874		1,322		6,791		-4,705					
Year 25	-3,314		-1,414					4,917	9,800		2,060		7,843		-3,878					
Year 50	-2,608		-1,218					6,907	11,632		2,696		8,637		-3,207					
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0				0		0								
Year 1	-5,192			-8,394		-2,193			-5,465		-3,028		-2,700							
Year 5	-5,192			-8,394		504			3,921		-122		794							
Year 15	-4,175			-7,420		1,517			7,874		1,322		3,312							
Year 25	-3,314			-6,639		2,223			9,800		2,060		4,529							
Year 50	-2,608			-6,053		3,312			11,632		2,696		5,491							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-5,192		-1,980	-8,394		-2,193		-791	-5,465		-3,028		-2,700	-7,166		-5,687		-2,394		
Year 5	-5,192		-1,980	-8,394		504		1,647	3,921		-122		794	3,163		-5,687		-2,381		
Year 15	-4,175		-1,668	-7,420		1,517		3,421	7,874		1,322		3,312	6,791		-4,705		-2,082		
Year 25	-3,314		-1,414	-6,639		2,223		4,917	9,800		2,060		4,529	7,843		-3,878		-1,841		
Year 50	-2,608		-1,218	-6,053		3,312		6,907	11,632		2,696		5,491	8,637		-3,207		-1,655		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0	0	0	0
Year 1	-10,177		-3,526		-10,177	-4,147		-1,424	-4,628	-5,319		-5,319	-3,821	-6,593	-5,319		-11,013		-4,124	-11,013
Year 5	-10,177		-3,526		-10,177	1,311		2,221	2,730	549		549	997	1,405	549		-11,013		-4,112	-11,013
Year 15	-8,696		-2,916		-8,696	3,331		4,500	5,593	3,026		3,026	4,065	4,264	3,026		-9,620		-3,533	-9,620
Year 25	-7,471		-2,418		-7,471	4,602		6,298	7,154	4,116		4,116	5,513	5,233	4,116		-8,471		-3,063	-8,471
Year 50	-6,502		-2,032		-6,502	6,291		8,663	8,804	5,012		5,012	6,668	5,973	5,012		-7,566		-2,700	-7,566
Delta Smelt																				
Year 0	0				0	0		0	0		0	0		0	0		0	0		0
Year 1	0				0	0		-6,530	-6,530		0	0		-8,284	-8,284		0	0		-11,542
Year 5	0				0	0		5,442	5,442		0	0		3,475	3,475		0	0		-11,542
Year 15	0				0	0		7,441	7,441		0	0		5,439	5,439		0	0		-11,542
Year 25	0				0	0		7,841	7,841		0	0		5,831	5,831		0	0		-11,542
Year 50	0				0	0		8,141	8,141		0	0		6,126	6,126		0	0		-11,542

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
 2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-58
SAM results showing wetted-area weighted relative response (square feet) at Site RM 68.9L

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-6,058		-1,265	-8,108		2,256		2,261	-1,195		2,522		2,566	-104		-6,156		-1,368	-8,550	
Year 5	-6,058		-1,265	-8,108		9,968		8,712	25,043		10,968		11,192	29,548		-6,156		-1,339	-8,474	
Year 15	-2,858		-263	-4,468		12,990		13,972	37,409		15,778		20,175	44,006		-2,904		-316	-4,763	
Year 25	-112		556	-1,552		15,146		18,691	43,985		18,422		25,116	49,047		-114		518	-1,797	
Year 50	2,177		1,192	641		18,527		25,191	50,418		20,807		29,114	52,857		2,212		1,164	433	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-6,058		-1,265					2,261	-1,195		2,522			-104		-6,156				
Year 5	-6,058		-1,265					8,712	25,043		10,968			29,548		-6,156				
Year 15	-2,858		-263					13,972	37,409		15,778			44,006		-2,904				
Year 25	-112		556					18,691	43,985		18,422			49,047		-114				
Year 50	2,177		1,192					25,191	50,418		20,807			52,857		2,212				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0				0			0							
Year 1	-6,058			-8,108		2,256			-1,195		2,522		2,566							
Year 5	-6,058			-8,108		9,968			25,043		10,968		11,192							
Year 15	-2,858			-4,468		12,990			37,409		15,778		20,175							
Year 25	-112			-1,552		15,146			43,985		18,422		25,116							
Year 50	2,177			641		18,527			50,418		20,807		29,114							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-6,058		-1,265	-8,108		2,256		2,261	-1,195		2,522		2,566	-104		-6,156		-1,368		
Year 5	-6,058		-1,265	-8,108		9,968		8,712	25,043		10,968		11,192	29,548		-6,156		-1,339		
Year 15	-2,858		-263	-4,468		12,990		13,972	37,409		15,778		20,175	44,006		-2,904		-316		
Year 25	-112		556	-1,552		15,146		18,691	43,985		18,422		25,116	49,047		-114		518		
Year 50	2,177		1,192	641		18,527		25,191	50,418		20,807		29,114	52,857		2,212		1,164		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0		0		0		0
Year 1	-10,832		-2,608		-10,832	5,914		2,926	-683	6,439	6,439		3,383	104	6,439	-11,007		-2,774		-11,007
Year 5	-10,832		-2,609		-10,832	21,469		12,803	20,150	23,512	23,512		15,931	23,379	23,512	-11,007		-2,744		-11,007
Year 15	-5,925		-620		-5,925	27,603		19,660	29,060	32,300	32,300		27,043	34,541	32,300	-6,020		-718		-6,020
Year 25	-1,844		1,010		-1,844	31,607		25,372	34,250	36,506	36,506		32,932	38,903	36,506	-1,874		938		-1,874
Year 50	1,408		2,280		1,408	37,006		33,105	39,865	40,049	40,049		37,733	42,260	40,049	1,431		2,230		1,431
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-7,587	-7,587		0	0	-7,888	-7,888		0	0	-20,037	-20,037		0
Year 5	0				0	0	26,908	26,908		0	0	25,830	25,830		0	0	-20,037	-20,037		0
Year 15	0				0	0	32,667	32,667		0	0	31,460	31,460		0	0	-20,037	-20,037		0
Year 25	0				0	0	33,819	33,819		0	0	32,586	32,586		0	0	-20,037	-20,037		0
Year 50	0				0	0	34,682	34,682		0	0	33,430	33,430		0	0	-20,037	-20,037		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-59
SAM results showing wetted-area weighted relative response (square feet) at Site RM 78.0L

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-7,730		-2,741	-12,280		6,057		4,210	2,093		3,483		2,950	377		-8,694		-3,199	-12,468	
Year 5	-7,730		-2,741	-12,280		16,503		13,815	38,590		13,138		12,099	34,709		-8,694		-3,147	-12,355	
Year 15	-3,867		-1,565	-8,790		20,451		20,916	54,201		18,686		22,022	49,092		-4,931		-2,008	-9,193	
Year 25	-606		-610	-5,994		23,210		26,950	61,894		22,506		29,351	56,632		-1,770		-1,090	-6,673	
Year 50	2,053		124	-3,894		27,473		35,007	69,232		25,746		35,086	62,307		789		-386	-4,779	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-7,730		-2,741					4,210	2,093		3,483			377		-8,694				
Year 5	-7,730		-2,741					13,815	38,590		13,138			34,709		-8,694				
Year 15	-3,867		-1,565					20,916	54,201		18,686			49,092		-4,931				
Year 25	-606		-610					26,950	61,894		22,506			56,632		-1,770				
Year 50	2,053		124					35,007	69,232		25,746			62,307		789				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0							
Year 1	-7,730			-12,280		6,057			2,093		3,483		2,950							
Year 5	-7,730			-12,280		16,503			38,590		13,138		12,099							
Year 15	-3,867			-8,790		20,451			54,201		18,686		22,022							
Year 25	-606			-5,994		23,210			61,894		22,506		29,351							
Year 50	2,053			-3,894		27,473			69,232		25,746		35,086							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-7,730		-2,741	-12,280		6,057		4,210	2,093		3,483		2,950	377		-8,694		-3,199		
Year 5	-7,730		-2,741	-12,280		16,503		13,815	38,590		13,138		12,099	34,709		-8,694		-3,147		
Year 15	-3,867		-1,565	-8,790		20,451		20,916	54,201		18,686		22,022	49,092		-4,931		-2,008		
Year 25	-606		-610	-5,994		23,210		26,950	61,894		22,506		29,351	56,632		-1,770		-1,090		
Year 50	2,053		124	-3,894		27,473		35,007	69,232		25,746		35,086	62,307		789		-386		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0	0		0	0	0	0		0		0
Year 1	-13,399		-5,304		-13,399	13,637		5,494	3,640	9,965	9,965		3,245	867	9,965	-14,679		-6,024		-14,679
Year 5	-13,399		-5,304		-13,399	34,773		19,823	32,254	29,566	29,566		16,752	27,539	29,566	-14,679		-5,974		-14,679
Year 15	-7,856		-3,015		-7,856	42,663		28,912	43,535	39,170	39,170		28,825	38,824	39,170	-9,386		-3,775		-9,386
Year 25	-3,280		-1,148		-3,280	47,651		36,132	49,740	45,272	45,272		37,537	45,256	45,272	-5,025		-1,990		-5,025
Year 50	330		295		330	54,290		45,661	56,313	50,201	50,201		44,398	50,145	50,201	-1,595		-612		-1,595
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	17,570	17,570		0	0	17,634	17,634		0	0	-8,833	-8,833		0
Year 5	0				0	0	64,371	64,371		0	0	63,651	63,651		0	0	-8,833	-8,833		0
Year 15	0				0	0	72,185	72,185		0	0	71,334	71,334		0	0	-8,833	-8,833		0
Year 25	0				0	0	73,748	73,748		0	0	72,870	72,870		0	0	-8,833	-8,833		0
Year 50	0				0	0	74,920	74,920		0	0	74,023	74,023		0	0	-8,833	-8,833		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-60
SAM results showing cumulative bank-line weighted relative response (feet) at sites within RM 0-20

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-152		-26	2		-43		-32	-143		-67		-59	-142		-155		-20	32	
Year 5	-152		-4	120		21		19	72		4		16	97		-155		0	137	
Year 15	-133		17	167		44		52	158		36		64	175		-136		21	179	
Year 25	-116		32	188		56		75	197		52		87	197		-119		35	199	
Year 50	-101		44	205		68		99	232		68		105	213		-105		46	214	
Central Valley fall-run chinook salmon																				
Year 0	0		0	0				0	0		0			0		0			0	
Year 1	-152		-26	2				-32	-143		-67			-142		-155			32	
Year 5	-152		-4	120				19	72		4			97		-155			137	
Year 15	-133		17	167				52	158		36			175		-136			179	
Year 25	-116		32	188				75	197		52			197		-119			199	
Year 50	-101		44	205				99	232		68			213		-105			214	
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0	0					0	
Year 1	-152			2		-43			-143		-67		-59	-142					32	
Year 5	-152			120		21			72		4		16	97					137	
Year 15	-133			167		44			158		36		64	175					179	
Year 25	-116			188		56			197		52		87	197					199	
Year 50	-101			205		68			232		68		105	213					214	
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-152		-26	2		-43		-32	-143		-67		-59	-142		-155		-20		
Year 5	-152		-4	120		21		19	72		4		16	97		-155		0		
Year 15	-133		17	167		44		52	158		36		64	175		-136		21		
Year 25	-116		32	188		56		75	197		52		87	197		-119		35		
Year 50	-101		44	205		68		99	232		68		105	213		-105		46		
Central Valley steelhead																				
Year 0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0
Year 1	-275		-41	-34	-275	-79		-48	-134	-107	-107		-81	-148	-107	-277		-30	-7	-277
Year 5	-275		-6	61	-275	52		31	36	36	36		26	39	36	-277		1	76	-277
Year 15	-249		25	101	-249	98		75	98	92	92		86	100	92	-252		30	112	-252
Year 25	-227		47	123	-227	121		104	128	116	116		113	119	116	-231		51	132	-231
Year 50	-209		64	139	-209	144		134	156	136	136		136	135	136	-214		67	148	-214
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-235	-235		0	0	-246	-246		0	0	-51	-51		0
Year 5	0				0	0	37	37		0	0	27	27		0	0	71	71		0
Year 15	0				0	0	83	83		0	0	72	72		0	0	92	92		0
Year 25	0				0	0	92	92		0	0	81	81		0	0	96	96		0
Year 50	0				0	0	99	99		0	0	88	88		0	0	99	99		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-61
SAM results showing cumulative bank-line weighted relative response (feet) at sites within RM 20-80

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-687		-182	-585		-101		-48	-540		-205		-133	-540		-707		-192	-578	
Year 5	-687		-165	-487		307		311	863		239		367	1,015		-707		-173	-489	
Year 15	-546		-103	-337		455		557	1,441		458		739	1,581		-568		-113	-348	
Year 25	-424		-54	-229		544		744	1,714		576		935	1,767		-448		-66	-247	
Year 50	-321		-16	-147		660		969	1,969		683		1,092	1,907		-348		-29	-171	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0			0		0				
Year 1	-687		-182					-48	-540		-205			-540		-707				
Year 5	-687		-165					311	863		239			1,015		-707				
Year 15	-546		-103					557	1,441		458			1,581		-568				
Year 25	-424		-54					744	1,714		576			1,767		-448				
Year 50	-321		-16					969	1,969		683			1,907		-348				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0							
Year 1	-687			-585		-101			-540		-205			-133						
Year 5	-687			-487		307			863		239			367						
Year 15	-546			-337		455			1,441		458			739						
Year 25	-424			-229		544			1,714		576			935						
Year 50	-321			-147		660			1,969		683			1,092						
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-687		-182	-585		-101		-48	-540		-205		-133	-540		-707		-192		
Year 5	-687		-165	-487		307		311	863		239		367	1,015		-707		-173		
Year 15	-546		-103	-337		455		557	1,441		458		739	1,581		-568		-113		
Year 25	-424		-54	-229		544		744	1,714		576		935	1,767		-448		-66		
Year 50	-321		-16	-147		660		969	1,969		683		1,092	1,907		-348		-29		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-1,227		-325		-1,227	-131		-99	-459	-252		-252		-219	-524	-252		-1,253		-336
Year 5	-1,227		-297		-1,227	695		440	643	646		646		482	684	646		-1,253		-309
Year 15	-1,027		-189		-1,027	990		760	1,060	1,027		1,027		940	1,128	1,027		-1,060		-205
Year 25	-860		-104		-860	1,158		989	1,275	1,206		1,206		1,174	1,294	1,206		-898		-123
Year 50	-726		-37		-726	1,352		1,259	1,491	1,356		1,356		1,365	1,422	1,356		-767		-58
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0		-599	-599		0	0		-643	-643		0	0		-898
Year 5	0				0	0		1,192	1,192		0	0		1,166	1,166		0	0		-800
Year 15	0				0	0		1,490	1,490		0	0		1,468	1,468		0	0		-784
Year 25	0				0	0		1,550	1,550		0	0		1,528	1,528		0	0		-780
Year 50	0				0	0		1,595	1,595		0	0		1,573	1,573		0	0		-778

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-62
SAM results showing cumulative wetted-area weighted relative response (acres) at sites within RM 0-20

Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-0.97		-0.16	0.01		-0.30		-0.21	-0.93		-0.45		-0.39	-0.92		-0.98		-0.13	0.19	
Year 5	-0.97		-0.03	0.76		0.13		0.14	0.50		0.02		0.11	0.67		-0.98		0.00	0.86	
Year 15	-0.85		0.11	1.06		0.28		0.36	1.08		0.23		0.43	1.18		-0.86		0.13	1.13	
Year 25	-0.74		0.21	1.19		0.36		0.51	1.34		0.34		0.58	1.33		-0.76		0.22	1.25	
Year 50	-0.65		0.28	1.30		0.45		0.67	1.57		0.44		0.71	1.44		-0.67		0.29	1.35	
Central Valley fall-run chinook salmon																				
Year 0	0		0	0				0	0		0		0		0				0	
Year 1	-0.97		-0.16	0.01				-0.21	-0.93		-0.45			-0.92		-0.98				0.19
Year 5	-0.97		-0.03	0.76				0.14	0.50		0.02			0.67		-0.98				0.86
Year 15	-0.85		0.11	1.06				0.36	1.08		0.23			1.18		-0.86				1.13
Year 25	-0.74		0.21	1.19				0.51	1.34		0.34			1.33		-0.76				1.25
Year 50	-0.65		0.28	1.30				0.67	1.57		0.44			1.44		-0.67				1.35
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0	0					0	
Year 1	-0.97			0.01		-0.30			-0.93		-0.45		-0.39	-0.92						0.19
Year 5	-0.97			0.76		0.13			0.50		0.02		0.11	0.67						0.86
Year 15	-0.85			1.06		0.28			1.08		0.23		0.43	1.18						1.13
Year 25	-0.74			1.19		0.36			1.34		0.34		0.58	1.33						1.25
Year 50	-0.65			1.30		0.45			1.57		0.44		0.71	1.44						1.35
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-0.97		-0.16	0.01		-0.30		-0.21	-0.93		-0.45		-0.39	-0.92		-0.98		-0.13		
Year 5	-0.97		-0.03	0.76		0.13		0.14	0.50		0.02		0.11	0.67		-0.98		0.00		
Year 15	-0.85		0.11	1.06		0.28		0.36	1.08		0.23		0.43	1.18		-0.86		0.13		
Year 25	-0.74		0.21	1.19		0.36		0.51	1.34		0.34		0.58	1.33		-0.76		0.22		
Year 50	-0.65		0.28	1.30		0.45		0.67	1.57		0.44		0.71	1.44		-0.67		0.29		
Central Valley steelhead																				
Year 0	0		0	0	0	0		0	0	0	0		0	0	0	0		0	0	0
Year 1	-1.76		-0.26	-0.23	-1.76	-0.54		-0.30	-0.87	-0.73	-0.73		-0.53	-0.97	-0.73	-1.76		-0.19	-0.05	-1.76
Year 5	-1.76		-0.04	0.38	-1.76	0.33		0.22	0.26	0.22	0.22		0.18	0.27	0.22	-1.76		0.00	0.47	-1.76
Year 15	-1.59		0.16	0.64	-1.59	0.63		0.51	0.67	0.59	0.59		0.58	0.67	0.59	-1.61		0.19	0.70	-1.61
Year 25	-1.45		0.30	0.78	-1.45	0.79		0.71	0.87	0.75	0.75		0.77	0.81	0.75	-1.47		0.32	0.83	-1.47
Year 50	-1.34		0.41	0.88	-1.34	0.94		0.90	1.06	0.89	0.89		0.92	0.91	0.89	-1.36		0.42	0.93	-1.36
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0	0		0	0	0	0		0
Year 1	0				0	0	-1.61	-1.61		0	0	-1.67	-1.67		0	0	-0.34	-0.34		0
Year 5	0				0	0	0.21	0.21		0	0	0.14	0.14		0	0	0.43	0.43		0
Year 15	0				0	0	0.51	0.51		0	0	0.45	0.45		0	0	0.56	0.56		0
Year 25	0				0	0	0.57	0.57		0	0	0.51	0.51		0	0	0.59	0.59		0
Year 50	0				0	0	0.62	0.62		0	0	0.55	0.55		0	0	0.61	0.61		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

Table I-63
SAM results showing cumulative wetted-area weighted relative response (acres) at sites within RM 20-80

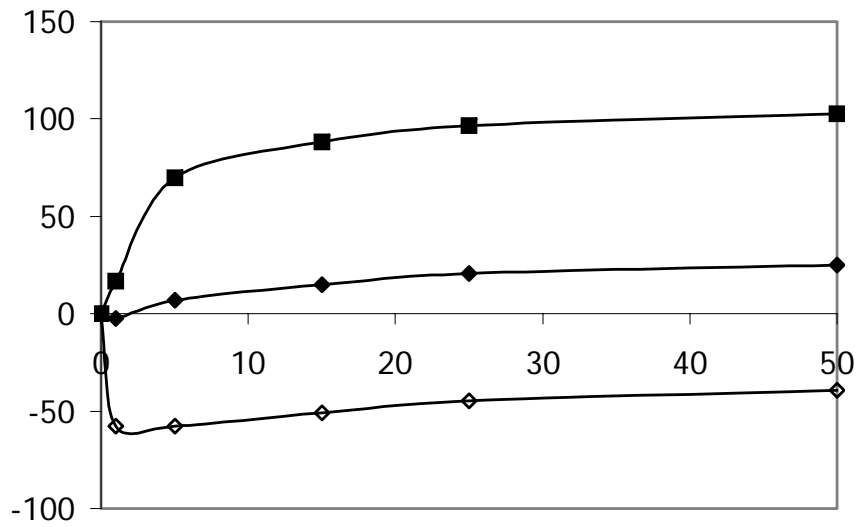
Focus Fish Species and Scenario	Fall (September–November)					Winter (December–February)					Spring (March–May)					Summer (June–August)				
	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat	Adult Upstream Migration	Spawning and Incubation	Juvenile Rearing	Smolt Outmigration	Adult Habitat
Central Valley spring-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0	0	
Year 1	-3.75		-0.99	-3.06		-0.65		-0.30	-3.06		-1.23		-0.77	-2.95		-3.85		-1.03	-3.00	
Year 5	-3.75		-0.89	-2.52		1.60		1.69	4.68		1.17		1.97	5.46		-3.85		-0.93	-2.50	
Year 15	-3.02		-0.57	-1.75		2.41		3.03	7.85		2.34		3.96	8.47		-3.14		-0.62	-1.78	
Year 25	-2.40		-0.32	-1.21		2.89		4.05	9.34		2.97		4.98	9.43		-2.52		-0.37	-1.27	
Year 50	-1.87		-0.12	-0.80		3.49		5.24	10.71		3.53		5.81	10.16		-2.01		-0.17	-0.89	
Central Valley fall-run chinook salmon																				
Year 0	0		0					0	0		0		0		0					
Year 1	-3.75		-0.99					-0.30	-3.06		-1.23			-2.95		-3.85				
Year 5	-3.75		-0.89					1.69	4.68		1.17			5.46		-3.85				
Year 15	-3.02		-0.57					3.03	7.85		2.34			8.47		-3.14				
Year 25	-2.40		-0.32					4.05	9.34		2.97			9.43		-2.52				
Year 50	-1.87		-0.12					5.24	10.71		3.53			10.16		-2.01				
Central Valley late fall-run chinook salmon																				
Year 0	0			0		0			0		0		0							
Year 1	-3.75			-3.06		-0.65			-3.06		-1.23		-0.77							
Year 5	-3.75			-2.52		1.60			4.68		1.17		1.97							
Year 15	-3.02			-1.75		2.41			7.85		2.34		3.96							
Year 25	-2.40			-1.21		2.89			9.34		2.97		4.98							
Year 50	-1.87			-0.80		3.49			10.71		3.53		5.81							
Sacramento River winter-run chinook salmon																				
Year 0	0		0	0		0		0	0		0		0	0		0		0		
Year 1	-3.75		-0.99	-3.06		-0.65		-0.30	-3.06		-1.23		-0.77	-2.95		-3.85		-1.03		
Year 5	-3.75		-0.89	-2.52		1.60		1.69	4.68		1.17		1.97	5.46		-3.85		-0.93		
Year 15	-3.02		-0.57	-1.75		2.41		3.03	7.85		2.34		3.96	8.47		-3.14		-0.62		
Year 25	-2.40		-0.32	-1.21		2.89		4.05	9.34		2.97		4.98	9.43		-2.52		-0.37		
Year 50	-1.87		-0.12	-0.80		3.49		5.24	10.71		3.53		5.81	10.16		-2.01		-0.17		
Central Valley steelhead																				
Year 0	0		0		0	0		0	0	0		0	0	0	0		0		0	0
Year 1	-6.68		-1.76		-6.68	-0.91		-0.59	-2.61	-1.58		-1.25	-2.89	-1.58		-6.83		-1.81		-6.83
Year 5	-6.68		-1.60		-6.68	3.64		2.39	3.47	3.27		2.57	3.64	3.27		-6.83		-1.65		-6.83
Year 15	-5.67		-1.04		-5.67	5.26		4.14	5.75	5.30		5.01	6.00	5.30		-5.84		-1.11		-5.84
Year 25	-4.82		-0.60		-4.82	6.16		5.37	6.92	6.24		6.24	6.87	6.24		-5.01		-0.68		-5.01
Year 50	-4.14		-0.25		-4.14	7.19		6.80	8.08	7.04		7.04	7.25	7.53		-4.34		-0.35		-4.34
Delta Smelt																				
Year 0	0				0	0	0	0		0	0	0		0	0	0	0			0
Year 1	0				0	0	-3.45	-3.45		0	0	-3.60	-3.60		0	0	-4.73	-4.73		0
Year 5	0				0	0	6.42	6.42		0	0	6.16	6.16		0	0	-4.17	-4.17		0
Year 15	0				0	0	8.07	8.07		0	0	7.79	7.79		0	0	-4.08	-4.08		0
Year 25	0				0	0	8.40	8.40		0	0	8.11	8.11		0	0	-4.06	-4.06		0
Year 50	0				0	0	8.64	8.64		0	0	8.36	8.36		0	0	-4.05	-4.05		0

Notes: 1 Dark shading represents seasons in which various life stages are not found in the modeled reach of the Sacramento River.
2 Results calculated from time-averaged relative responses (with minus without project) to changes in each of six habitat variables used in the SAM (Stillwater Sciences 2006).

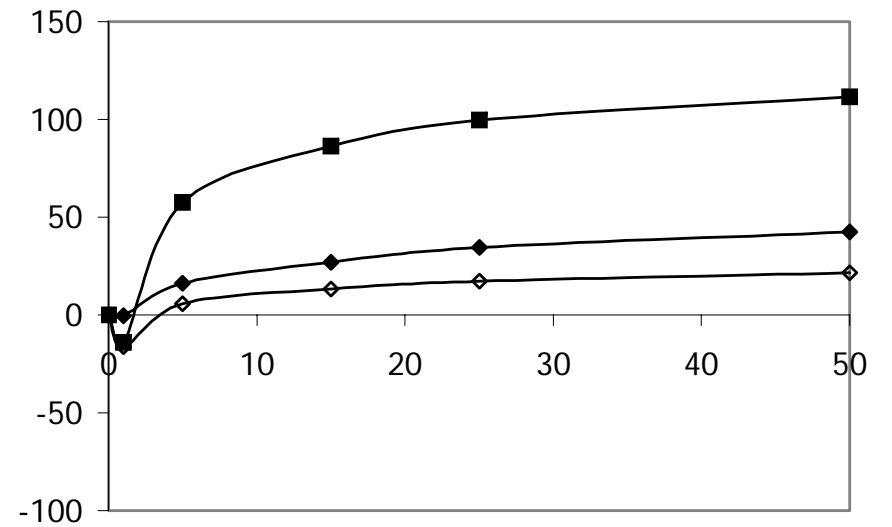
Appendix I

Figures

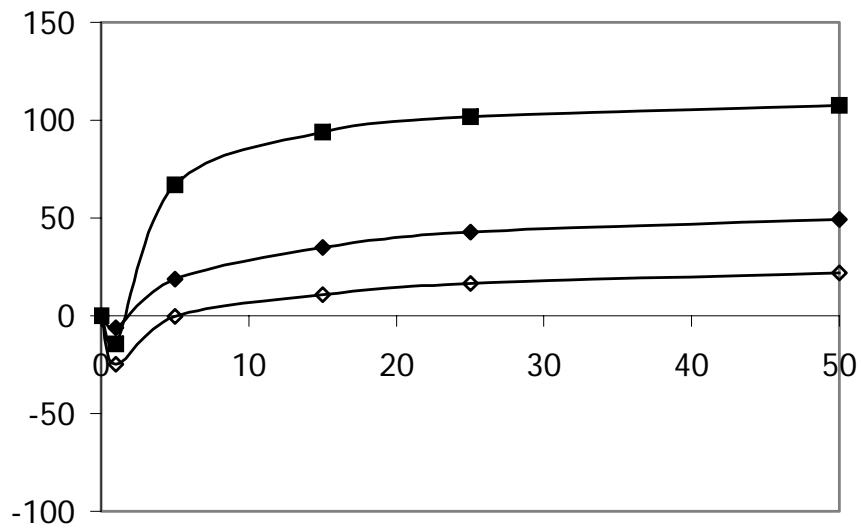
FALL



WINTER



SPRING



SUMMER

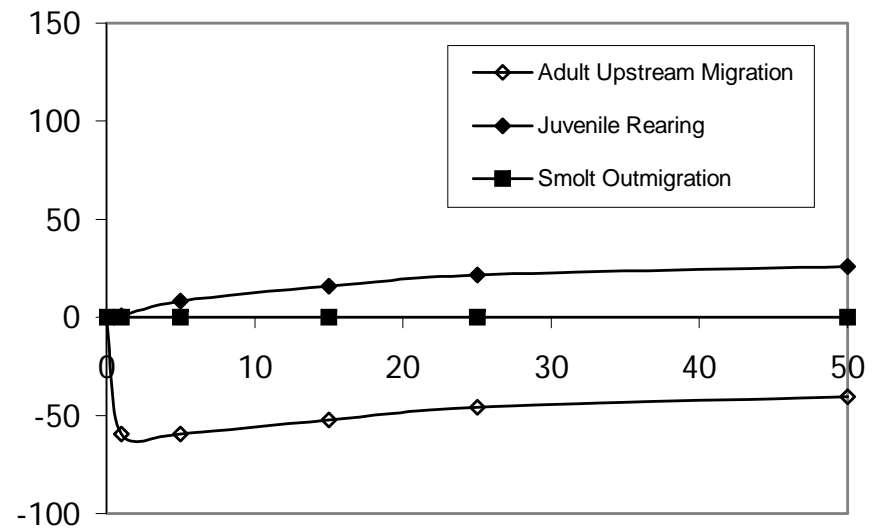
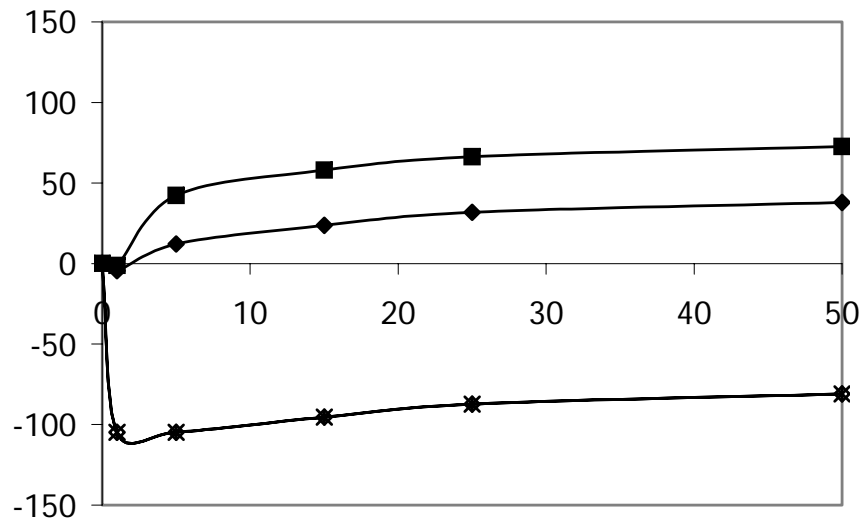
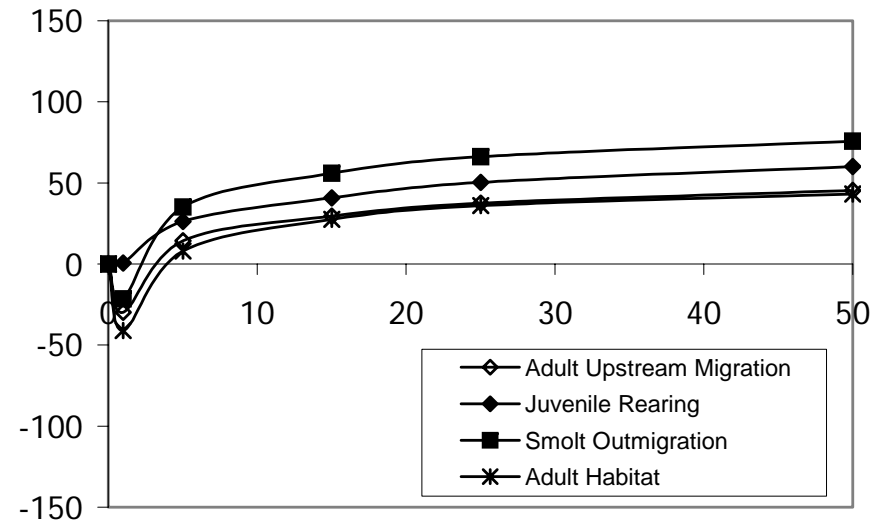


Figure I-1. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 16.9L.

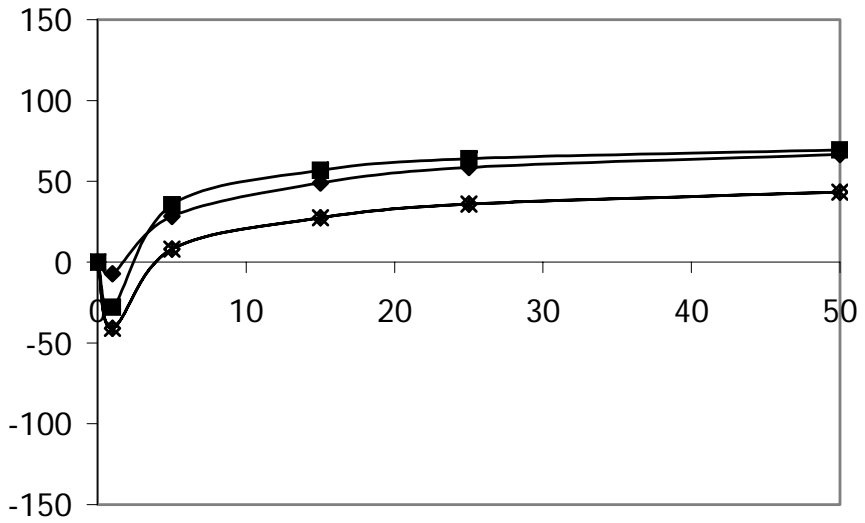
FALL



WINTER



SPRING



SUMMER

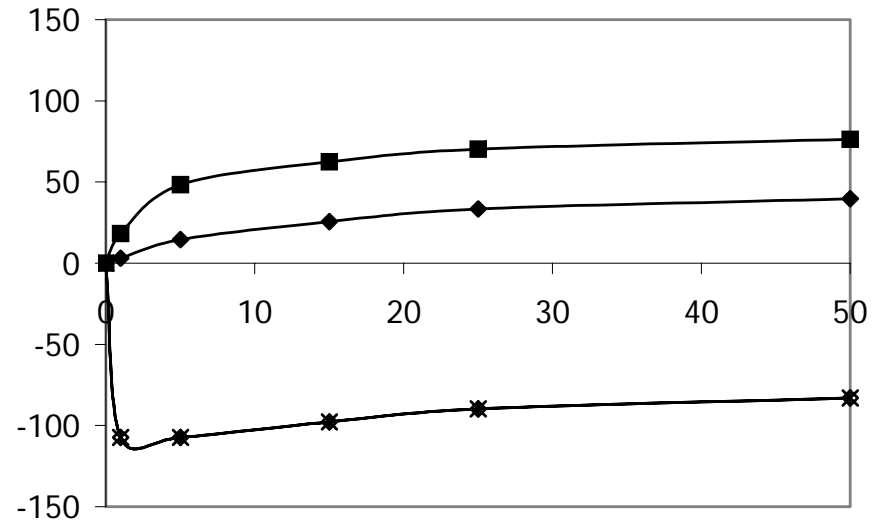
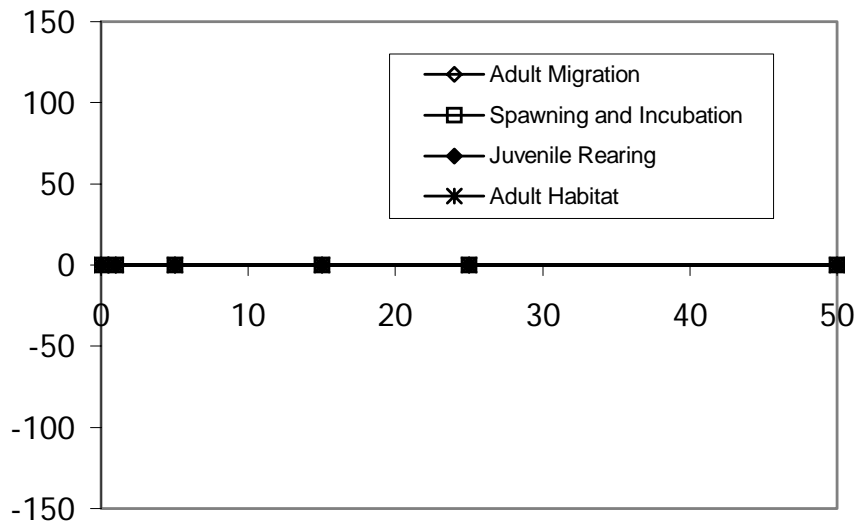
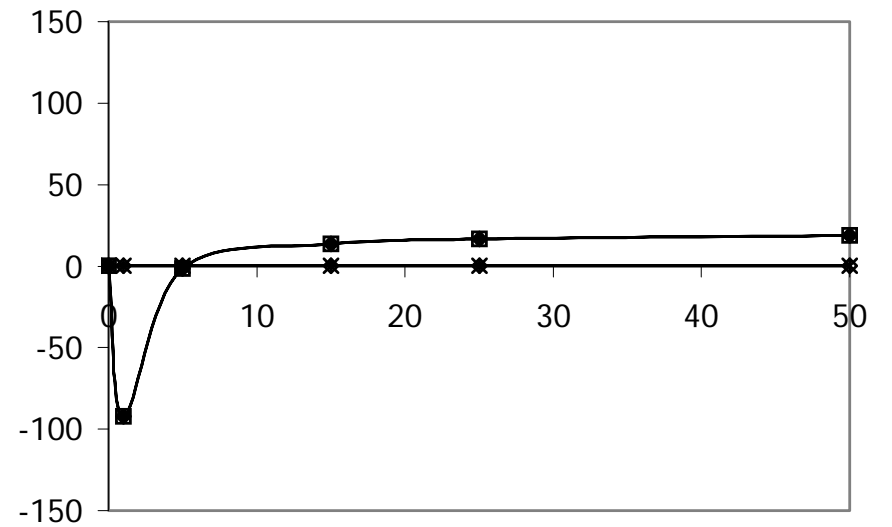


Figure I-2. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 16.9L.

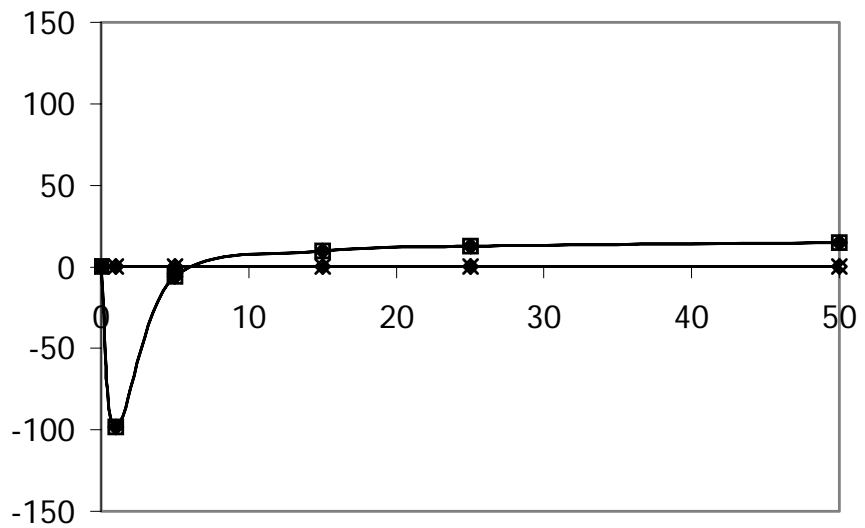
FALL



WINTER



SPRING



SUMMER

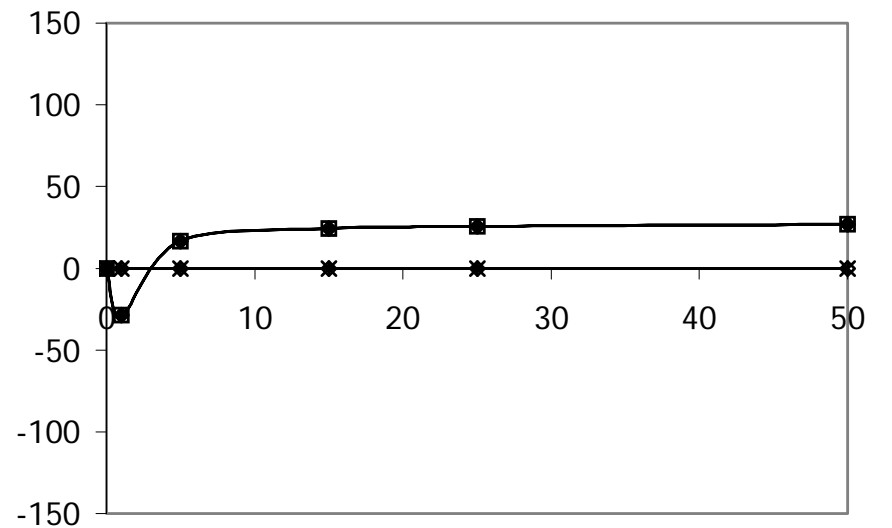
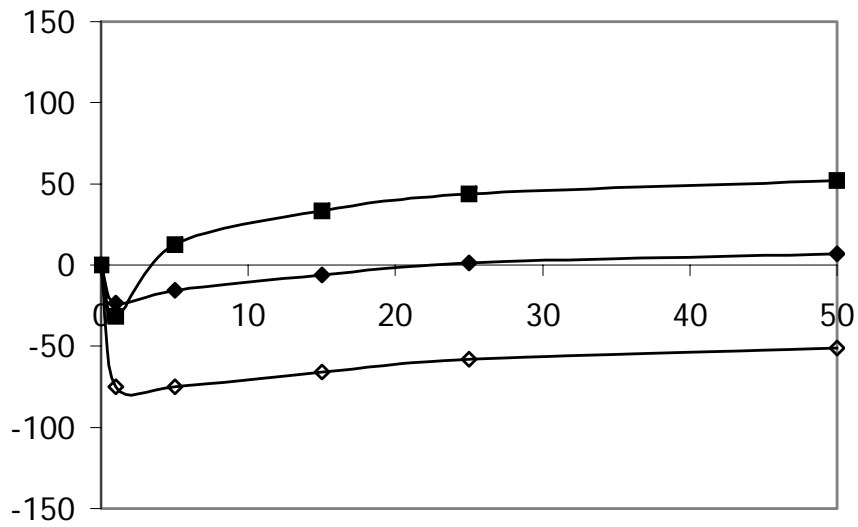
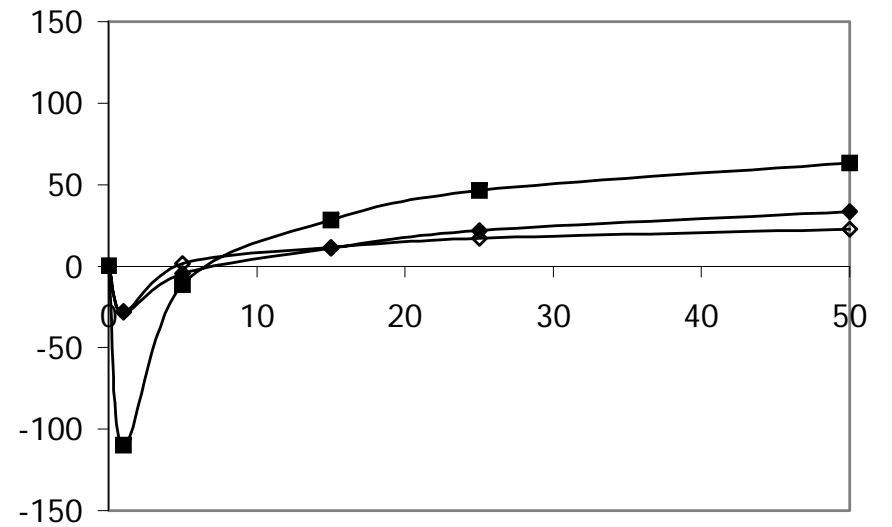


Figure I-3. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 16.9L.

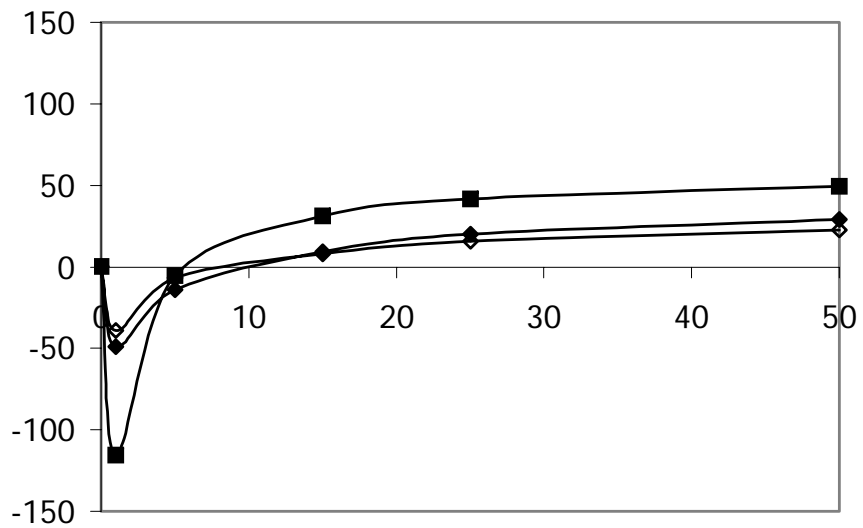
FALL



WINTER



SPRING



SUMMER

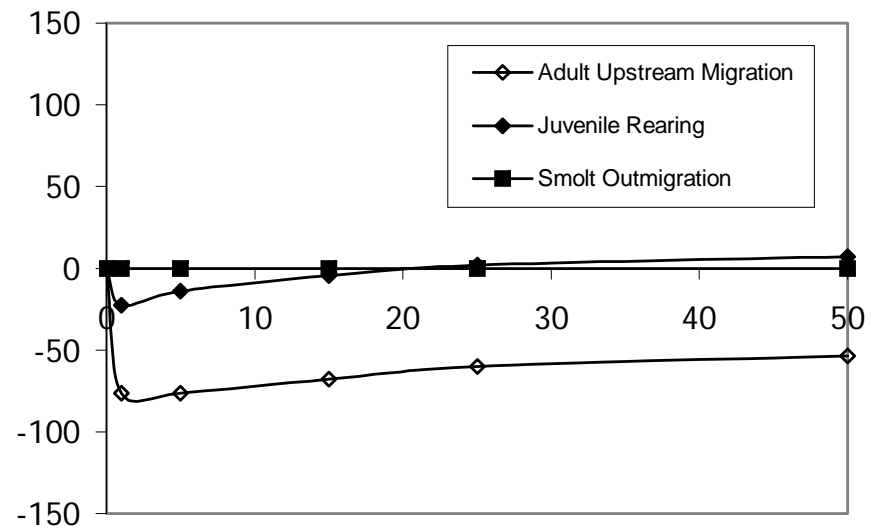
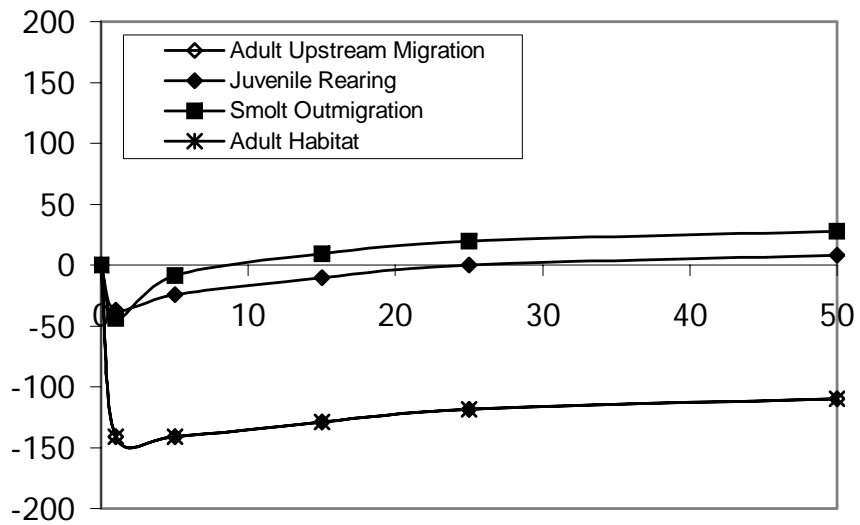
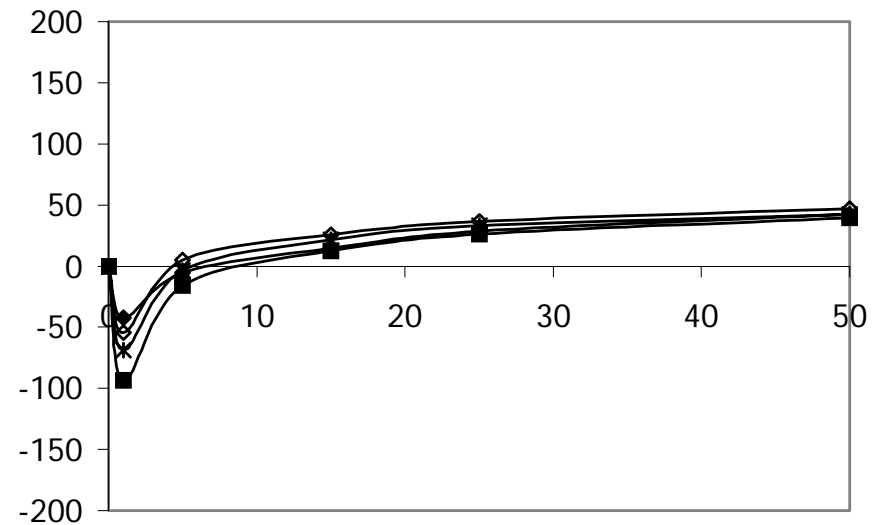


Figure I-4. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 19.0R.

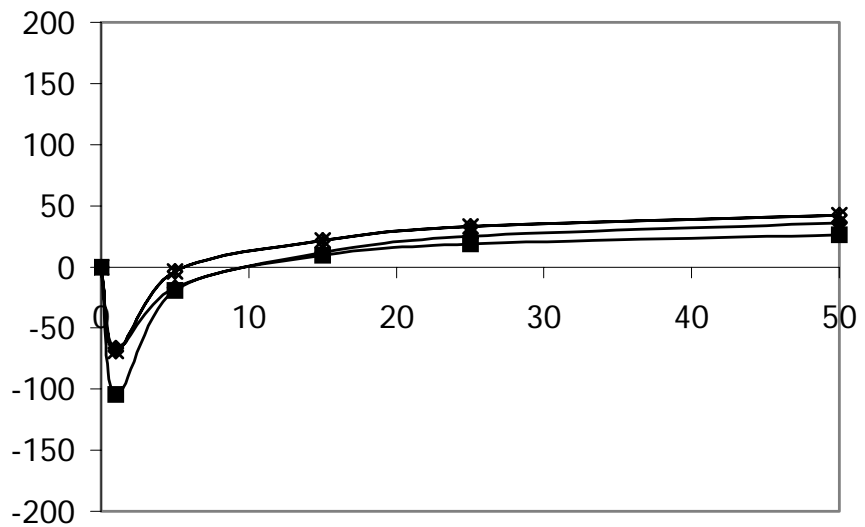
FALL



WINTER



SPRING



SUMMER

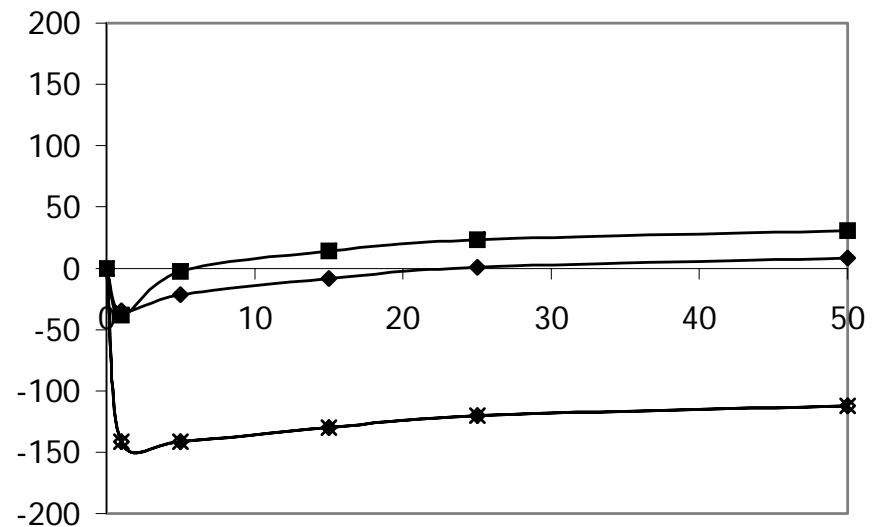
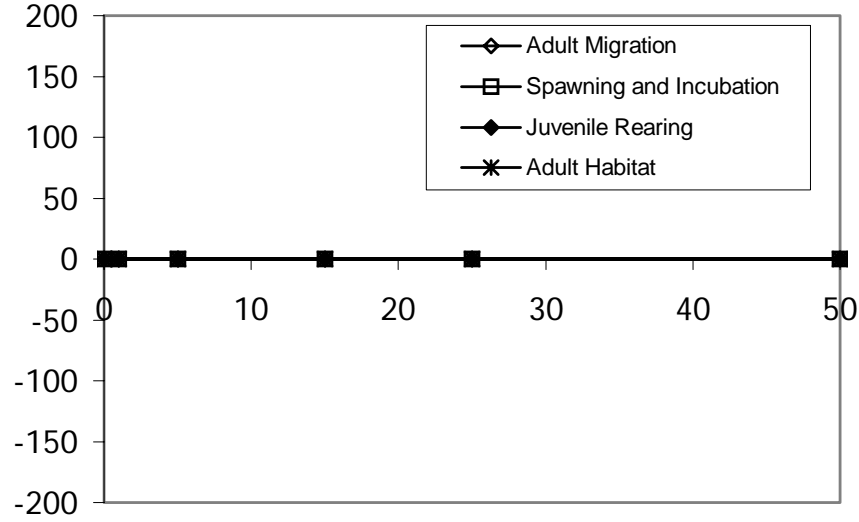
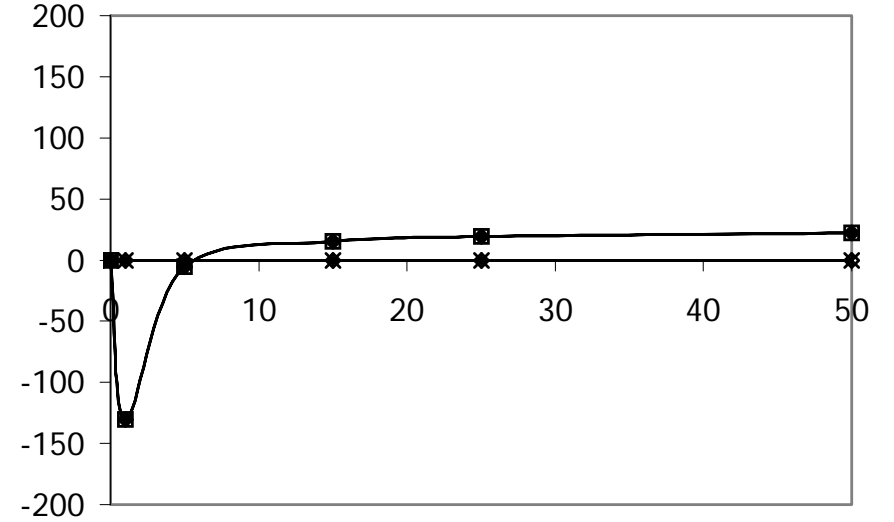


Figure I-5. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 19.0R.

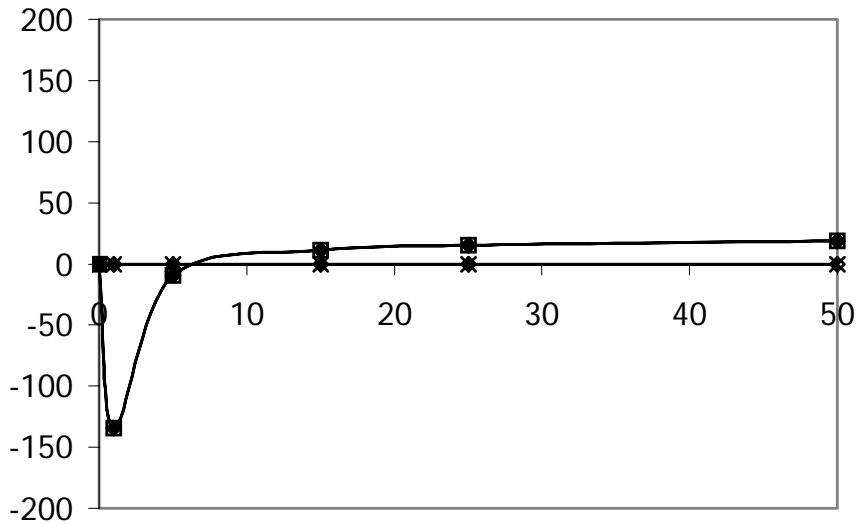
FALL



WINTER



SPRING



SUMMER

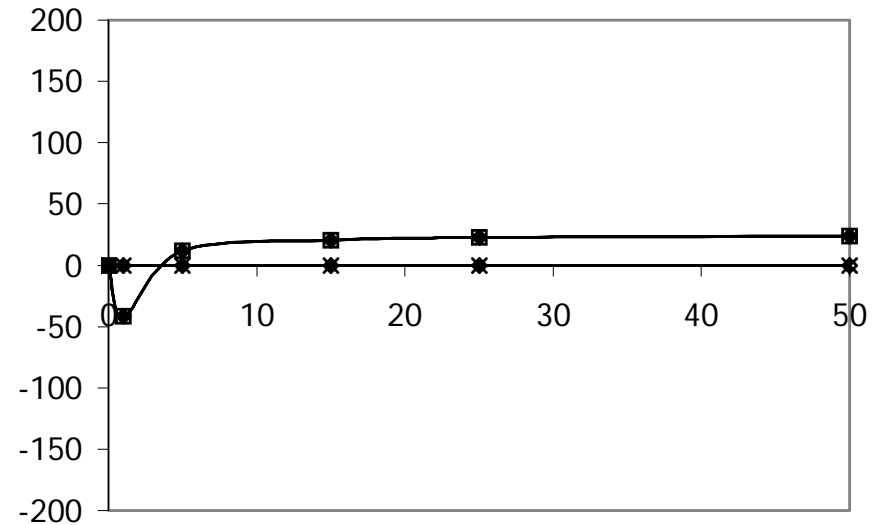
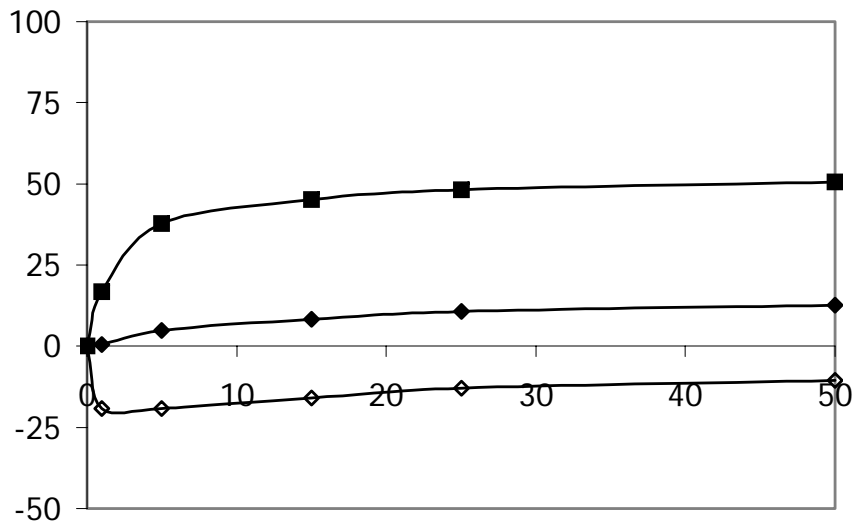
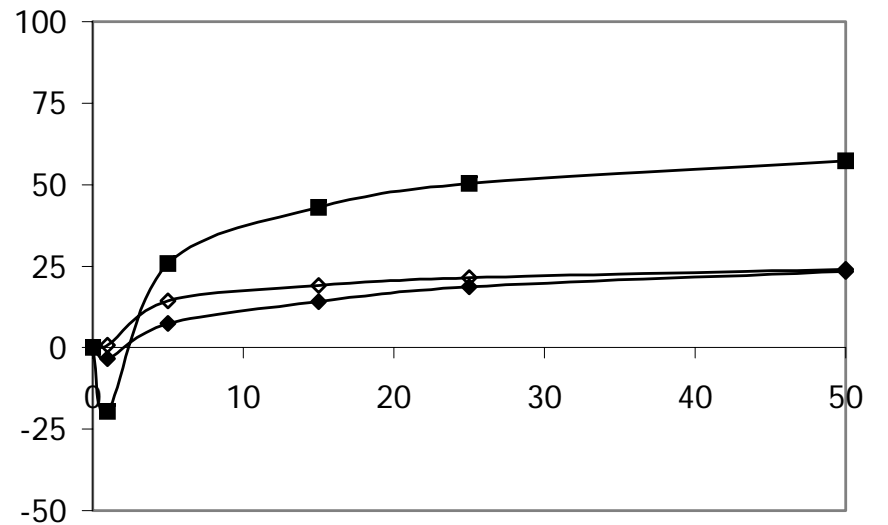


Figure I-6. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 19.0R.

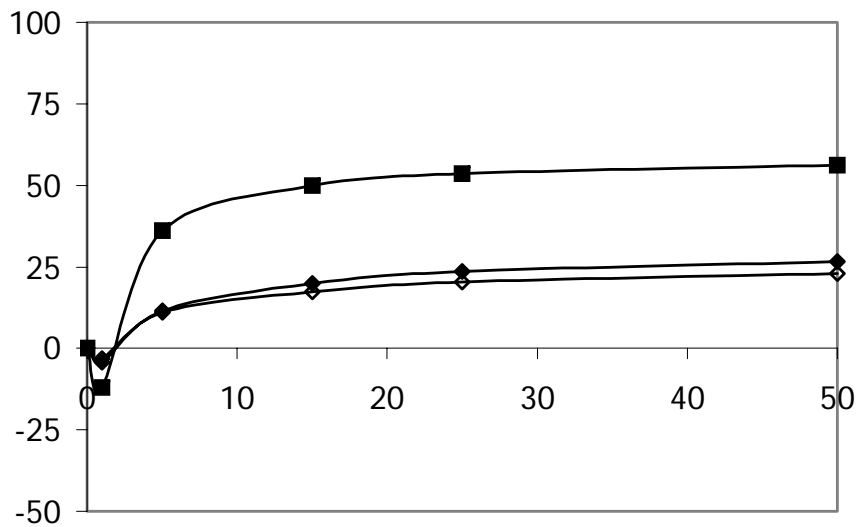
FALL



WINTER



SPRING



SUMMER

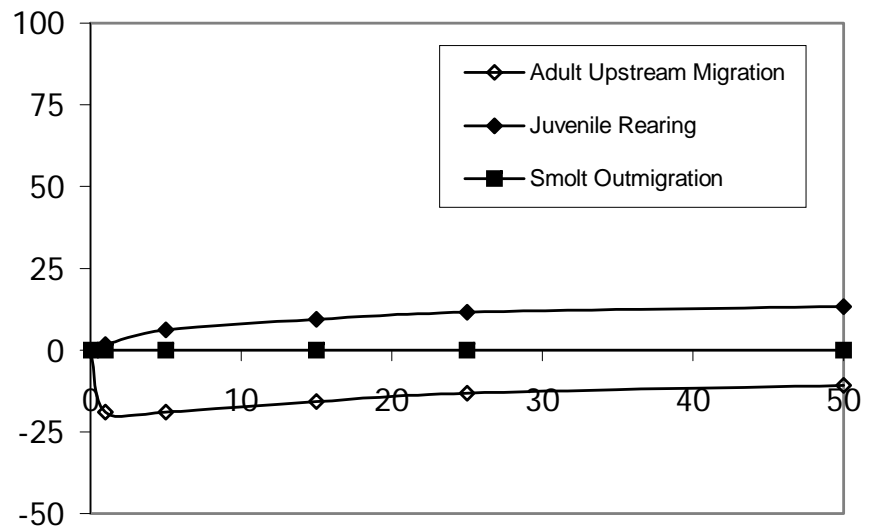
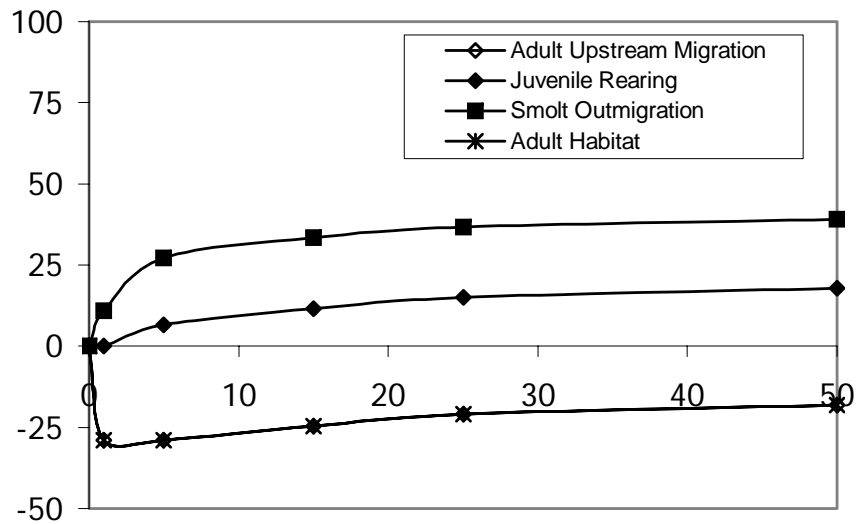
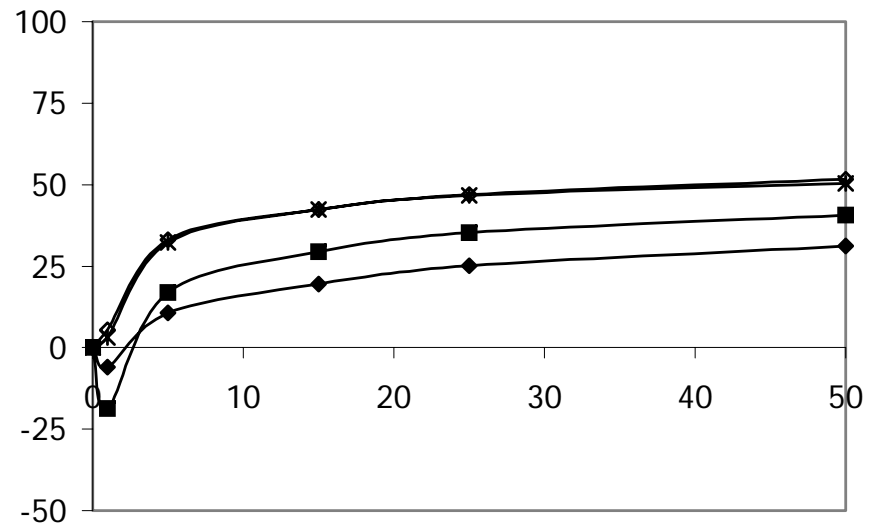


Figure I-7. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 19.4R.

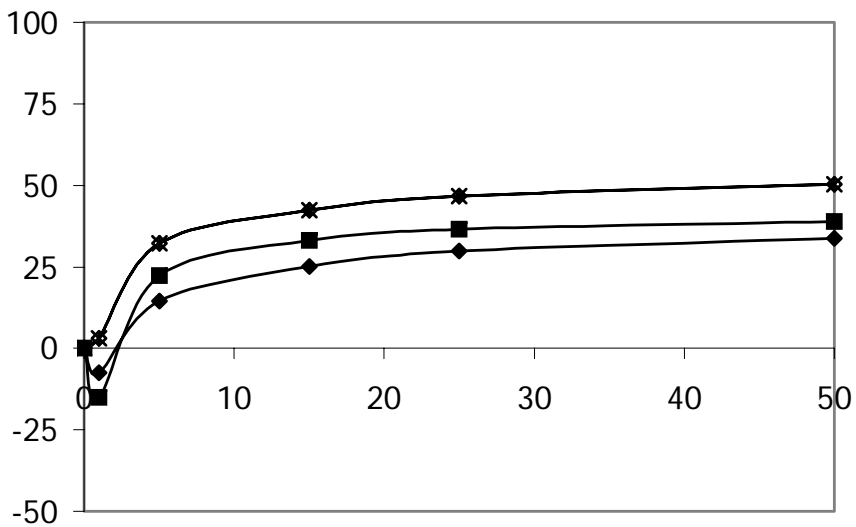
FALL



WINTER



SPRING



SUMMER

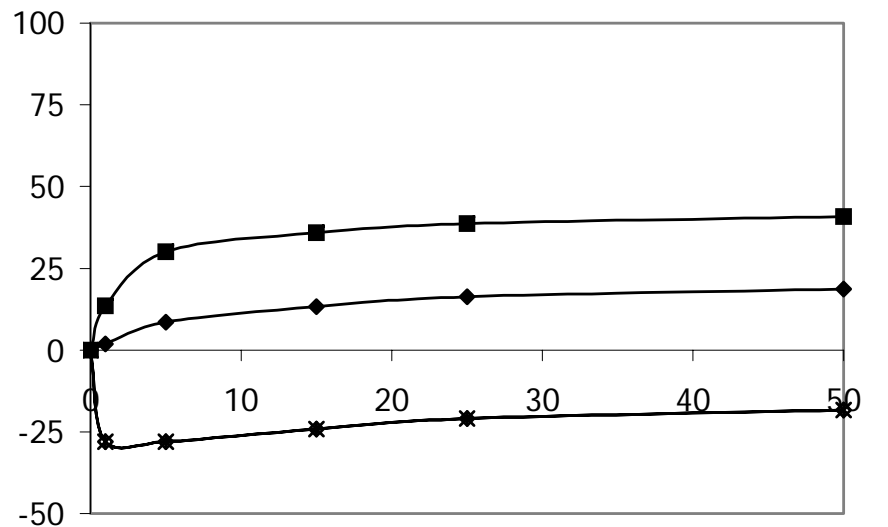
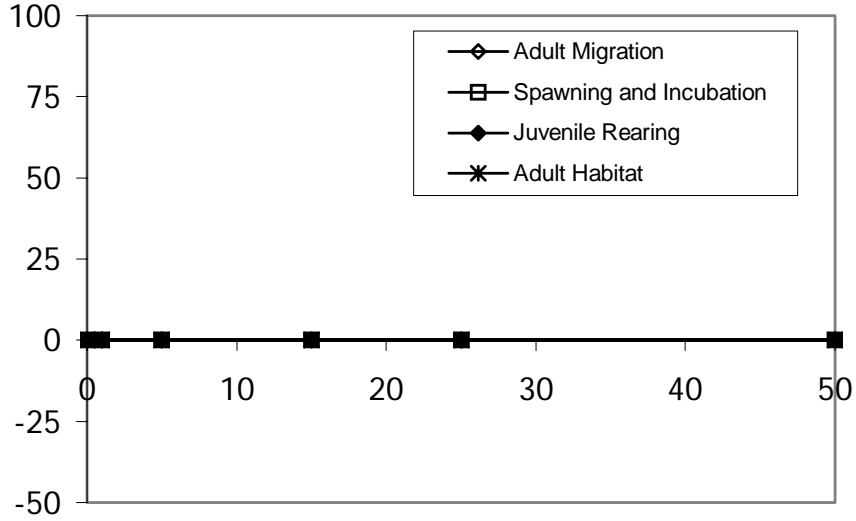
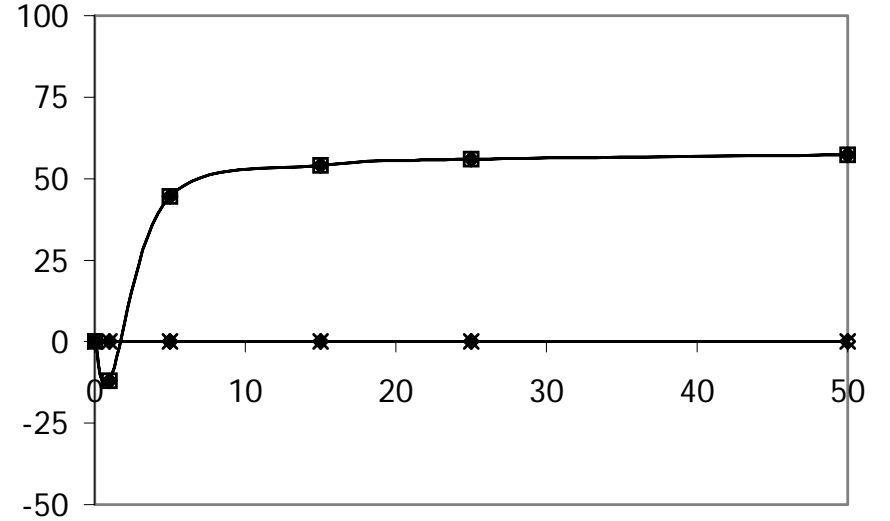


Figure I-8. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 19.4R.

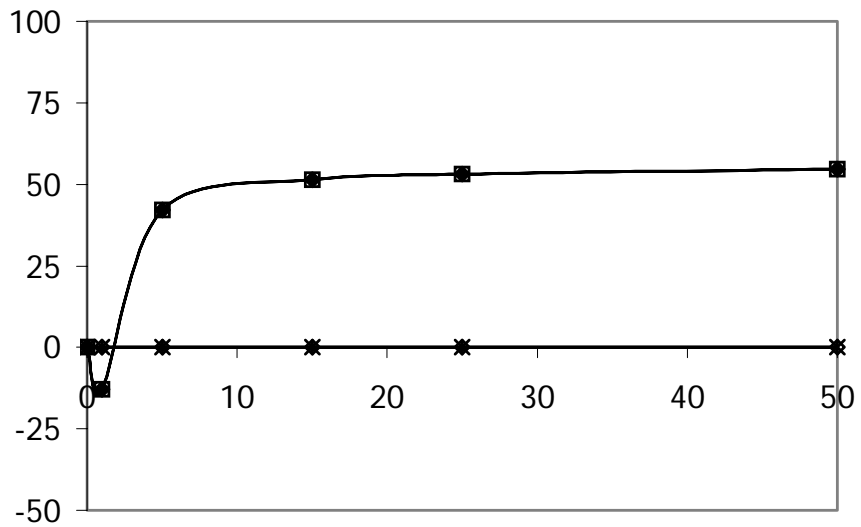
FALL



WINTER



SPRING



SUMMER

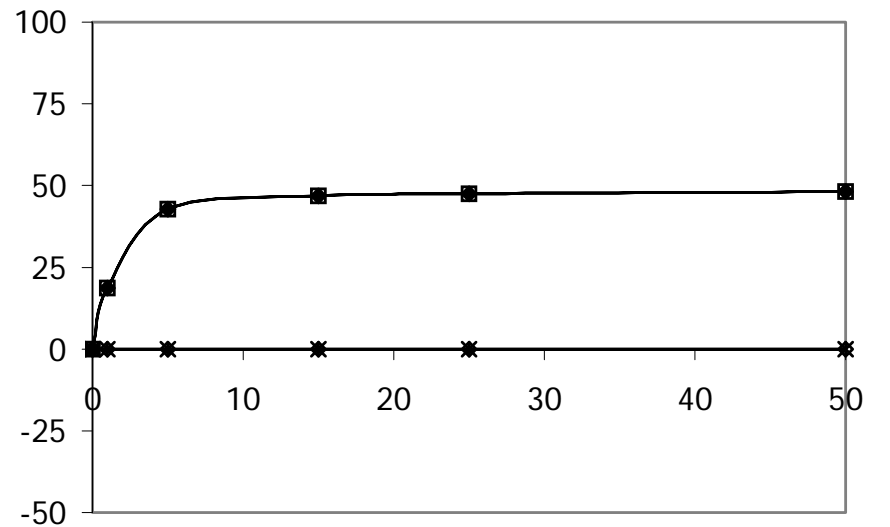
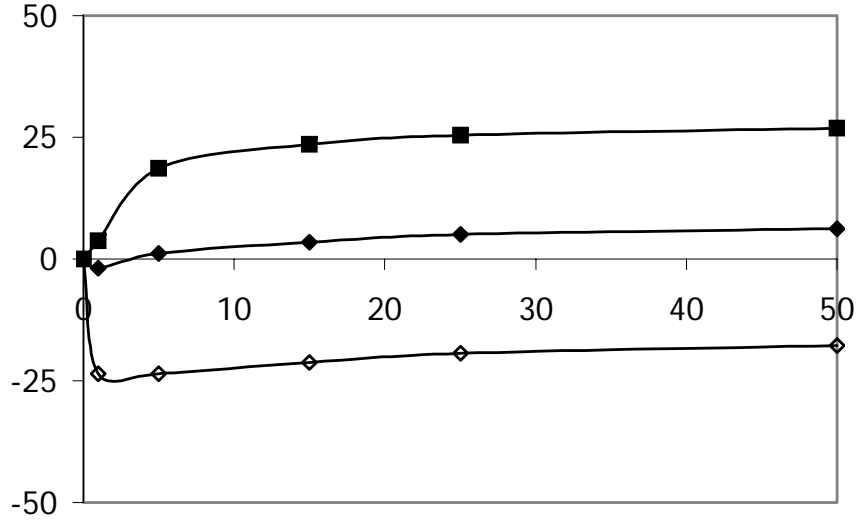
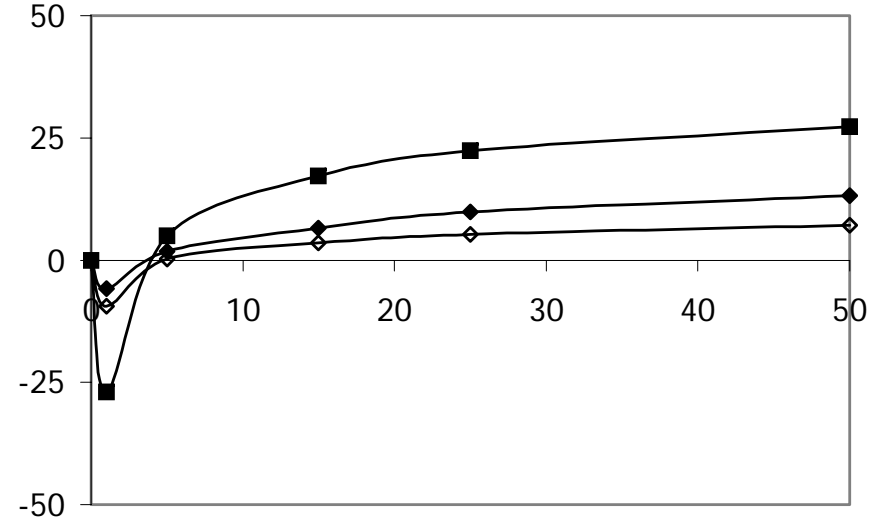


Figure I-9. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 19.4R.

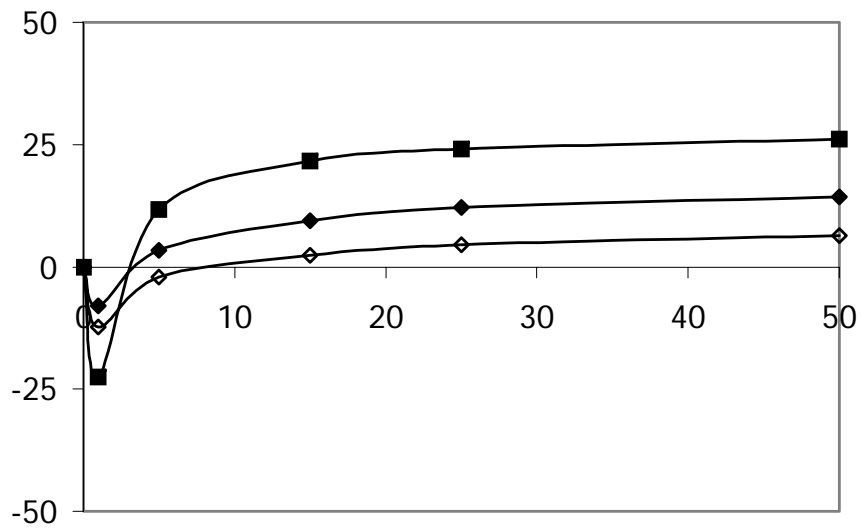
FALL



WINTER



SPRING



SUMMER

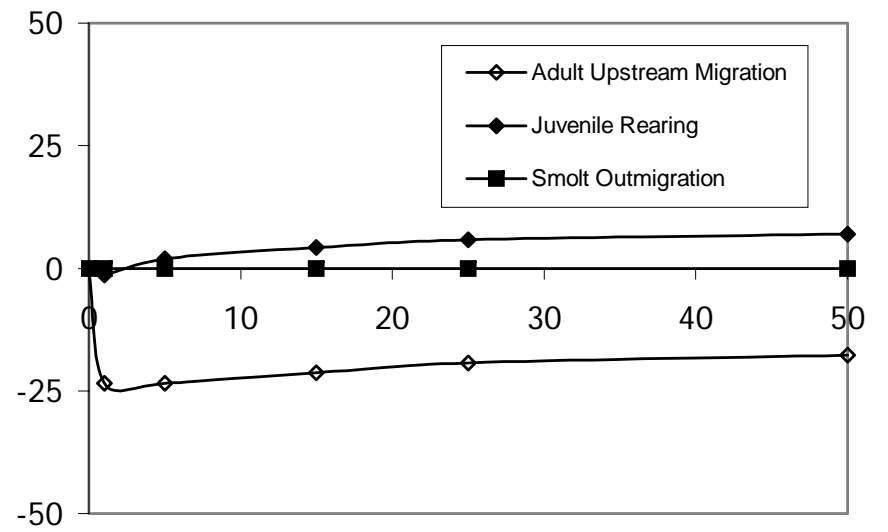
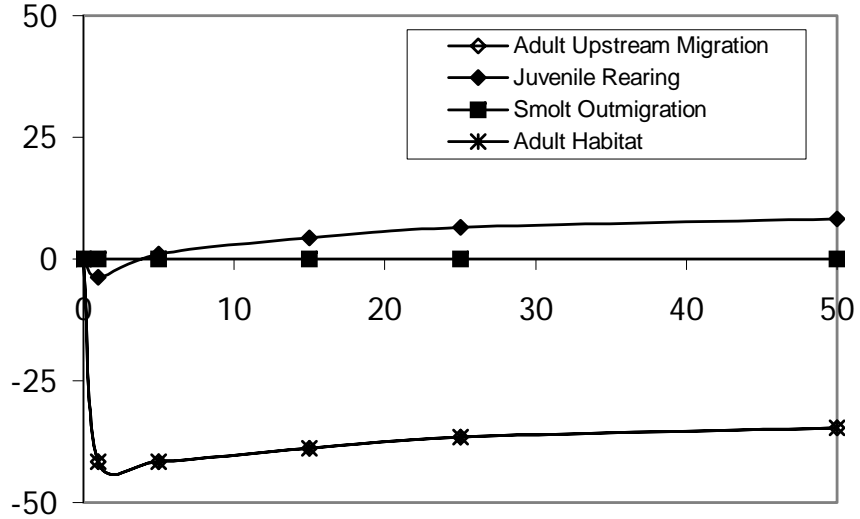
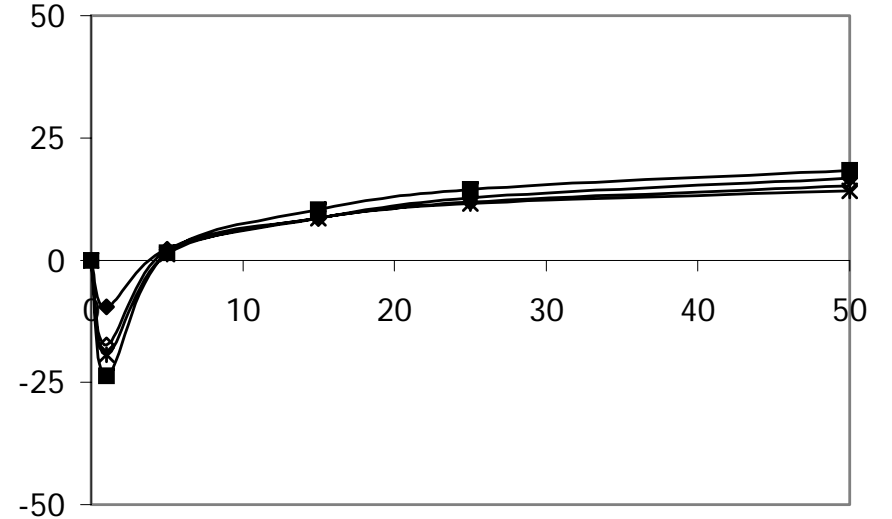


Figure I-10. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 22.7R.

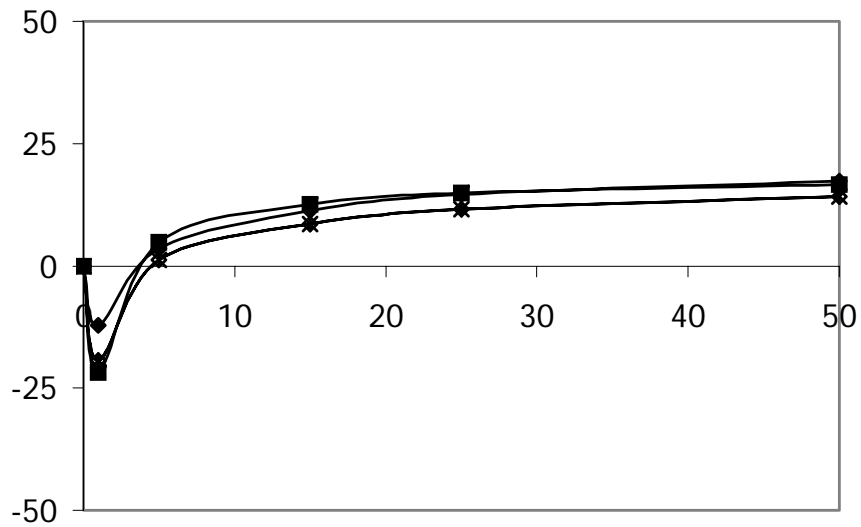
FALL



WINTER



SPRING



SUMMER

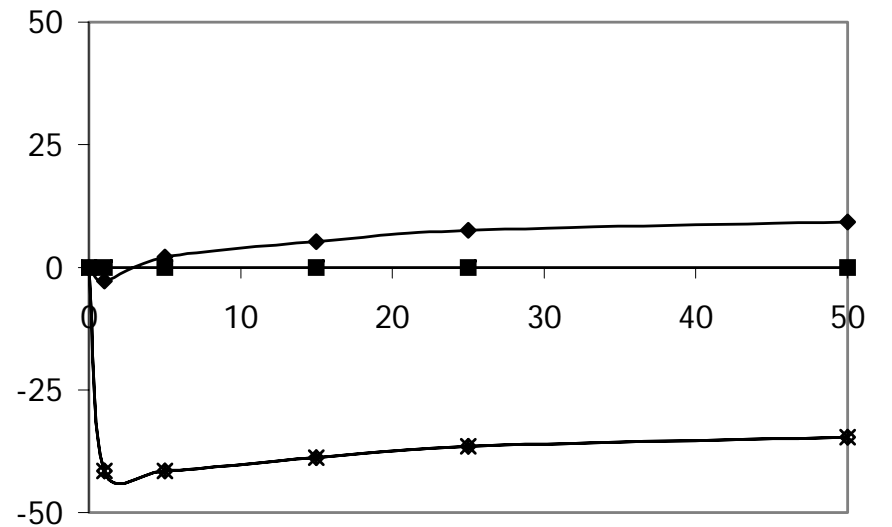
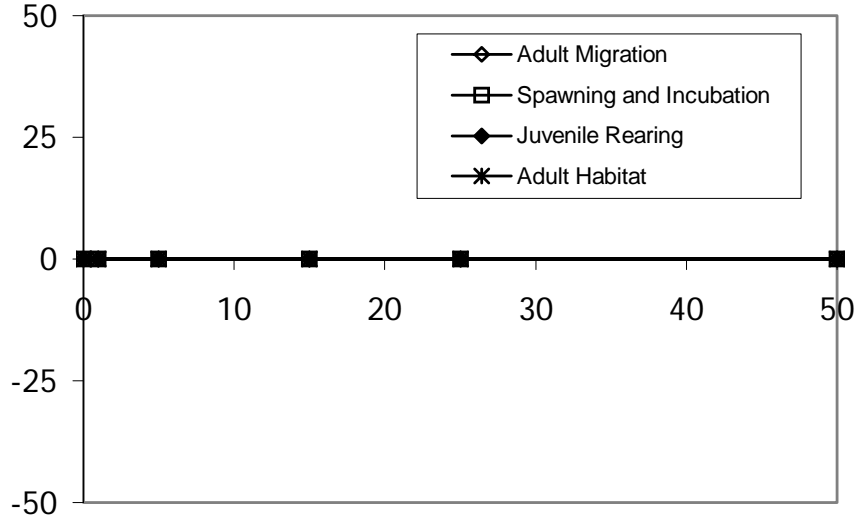
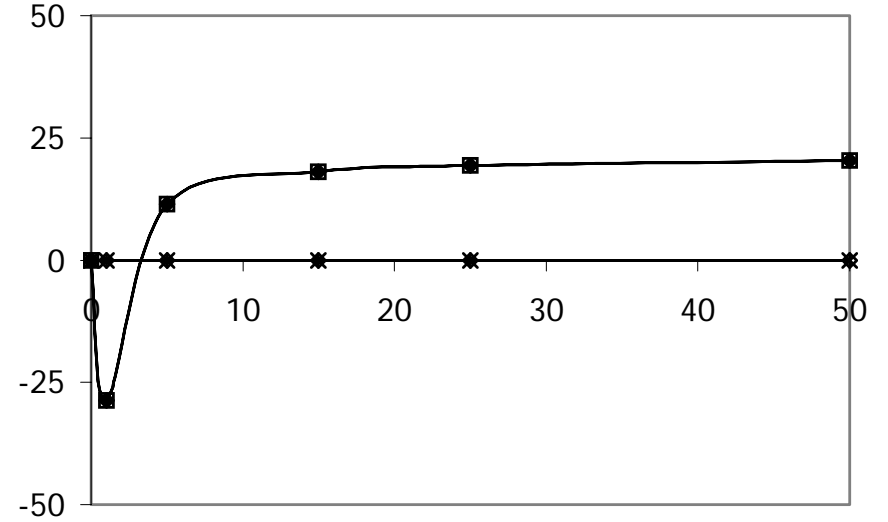


Figure I-11. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 22.7R.

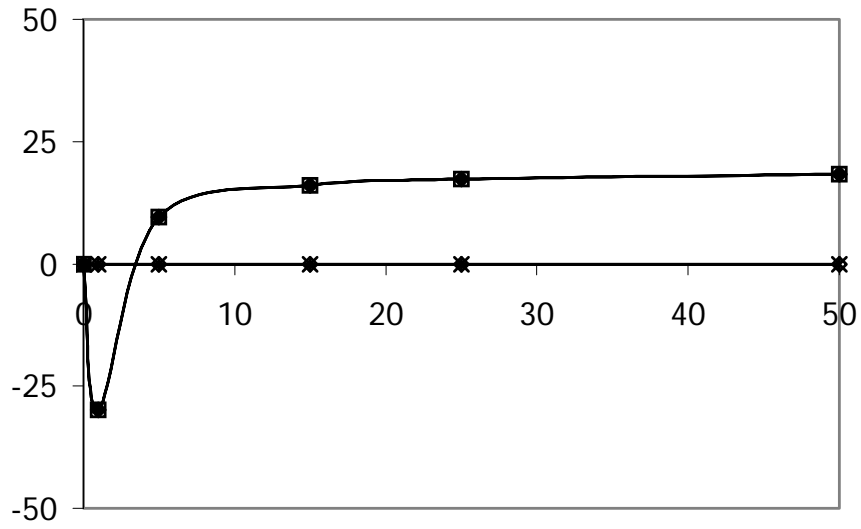
FALL



WINTER



SPRING



SUMMER

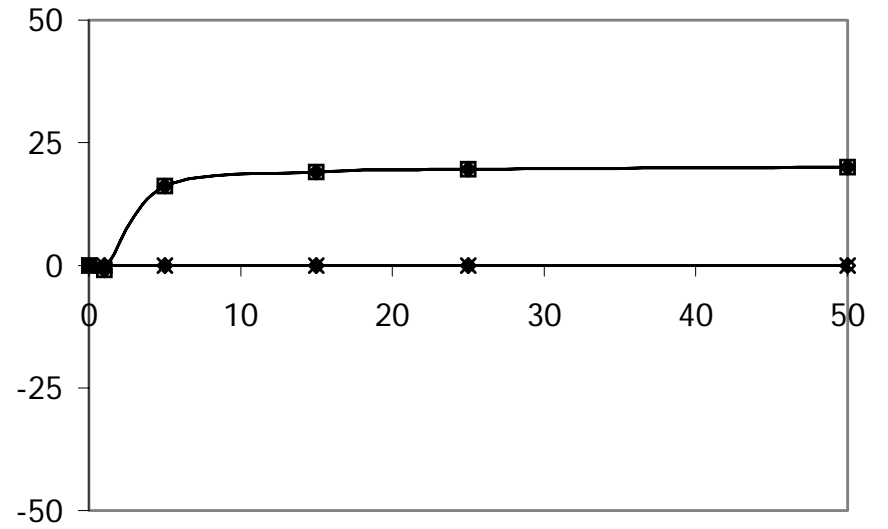
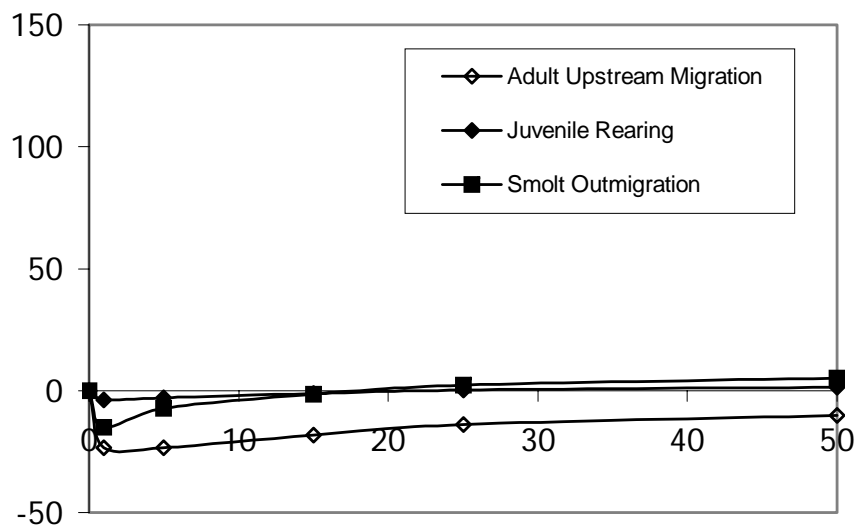
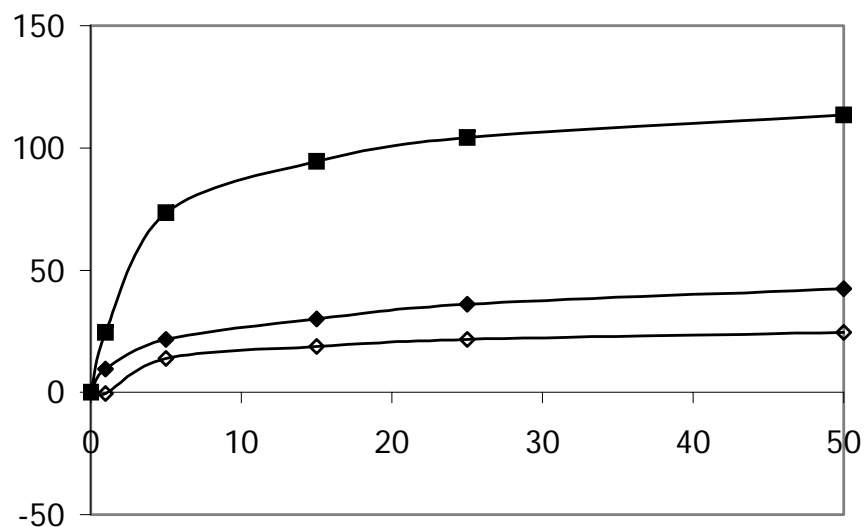


Figure I-12. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site 22.7R.

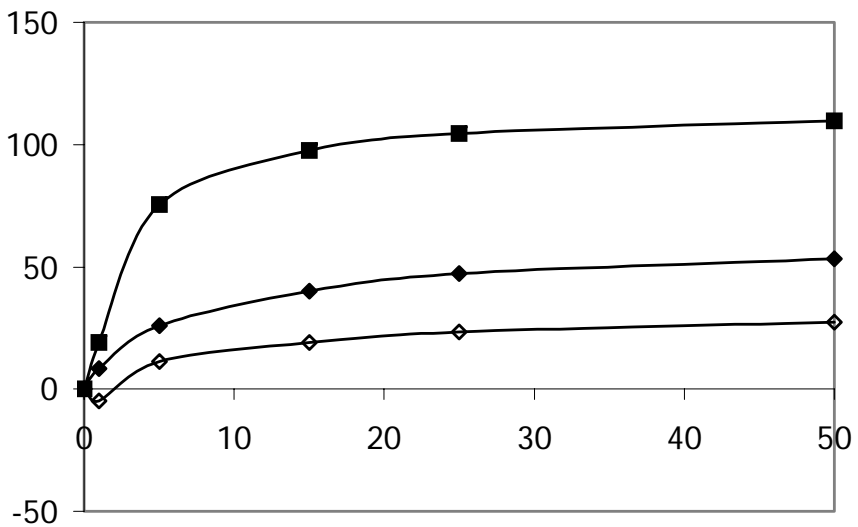
FALL



WINTER



SPRING



SUMMER

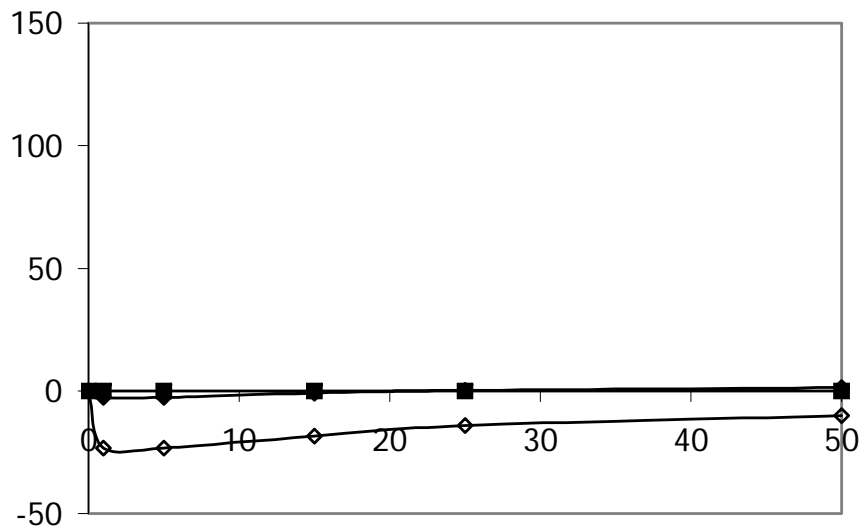
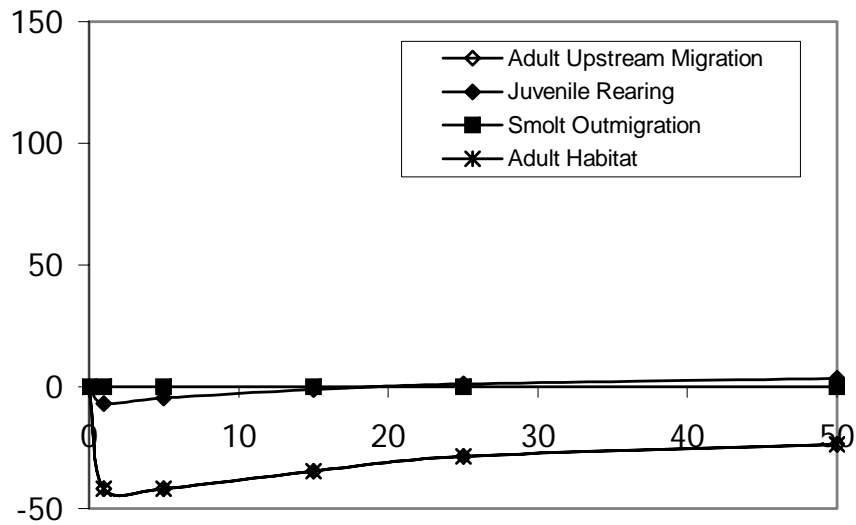
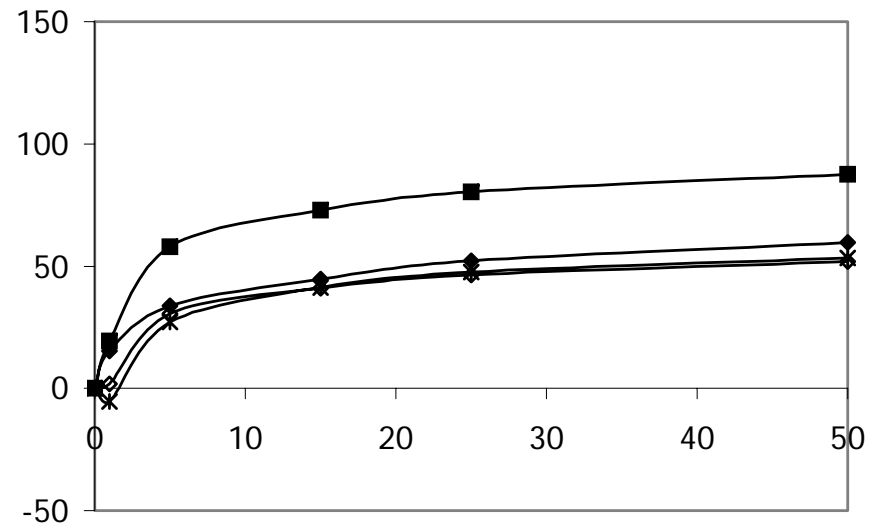


Figure I-13. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 33.0R.

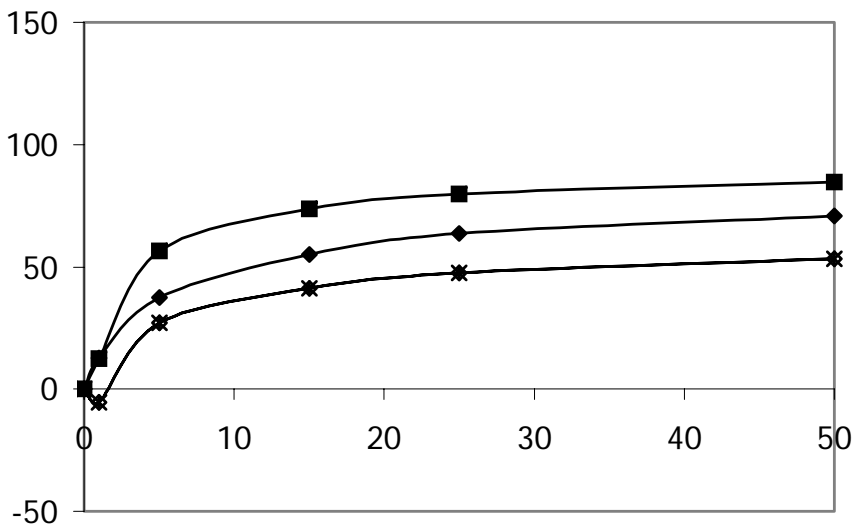
FALL



WINTER



SPRING



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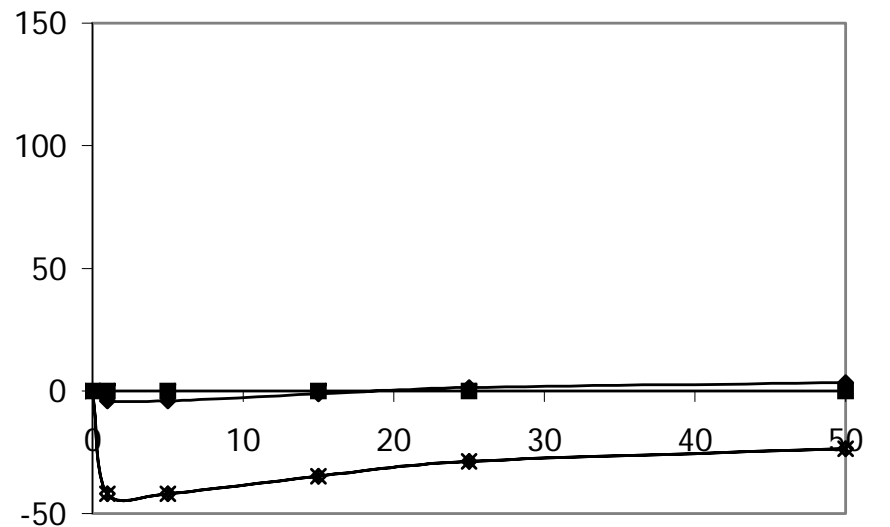
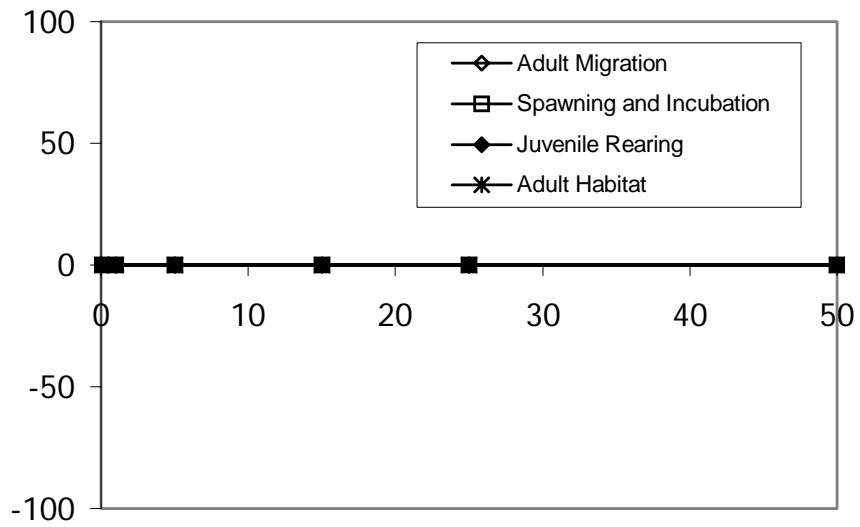
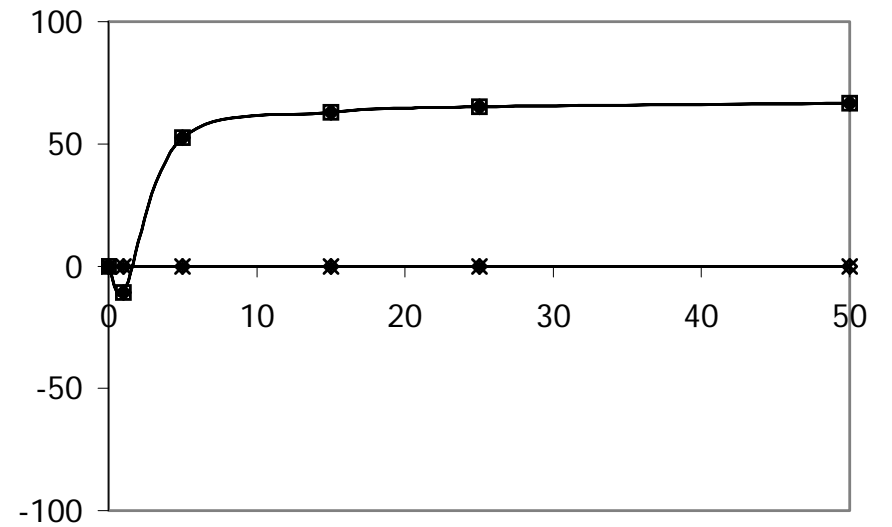


Figure I-14. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 33.0R.

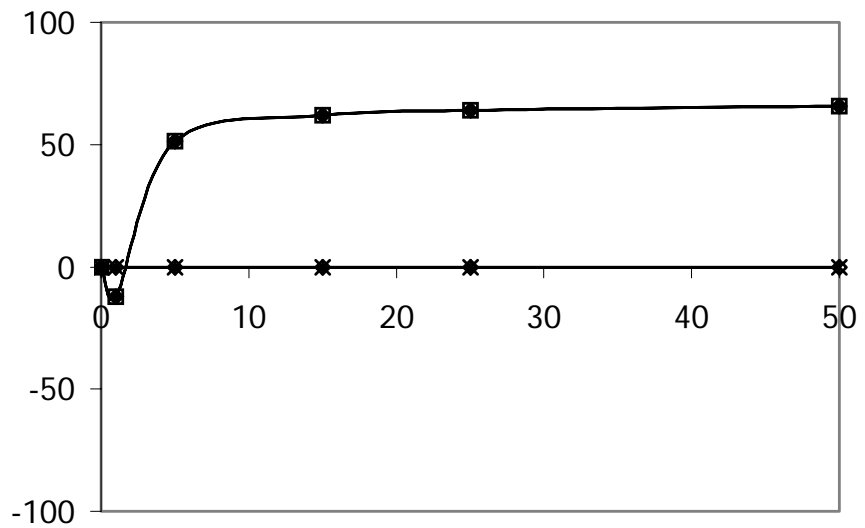
FALL



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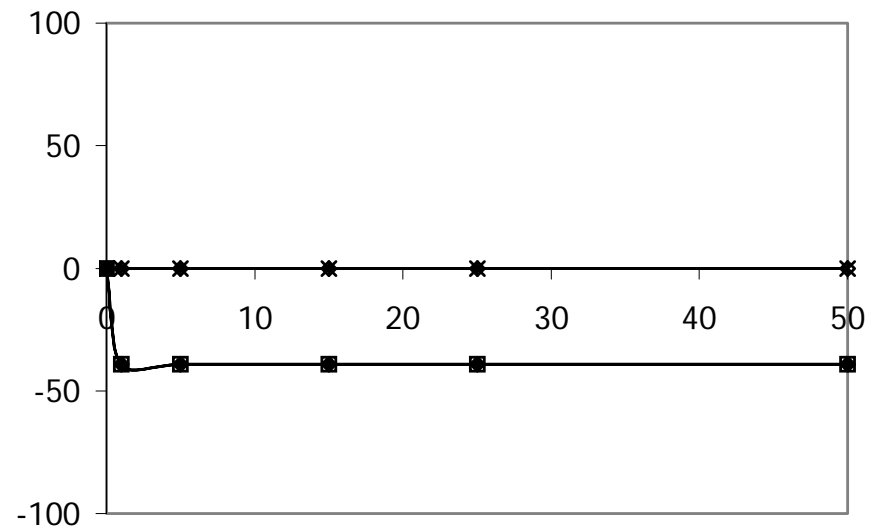
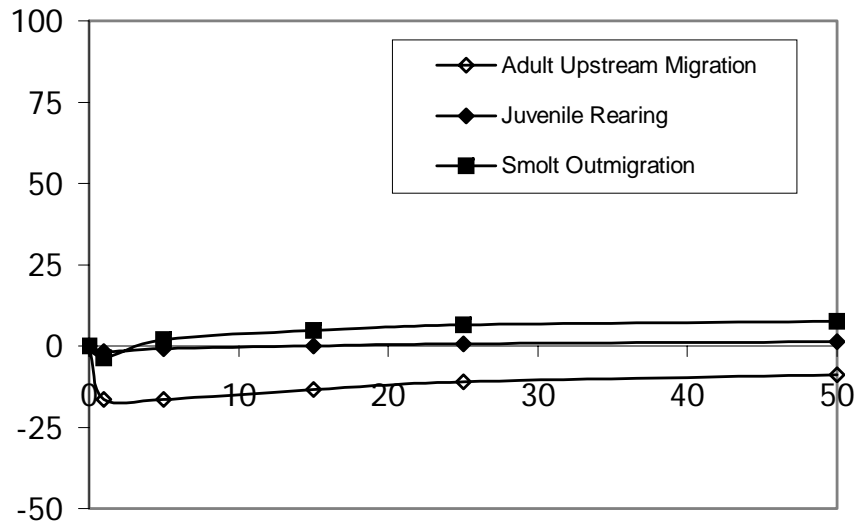
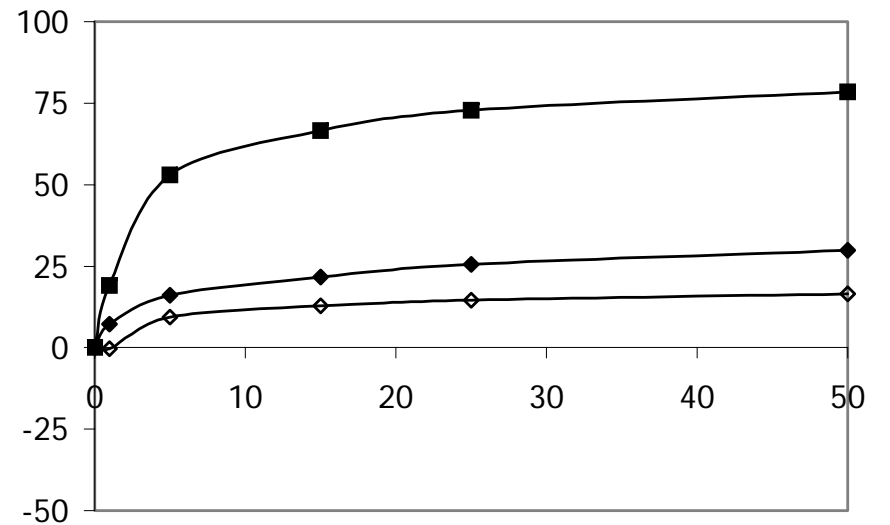


Figure I-15. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 33.0R.

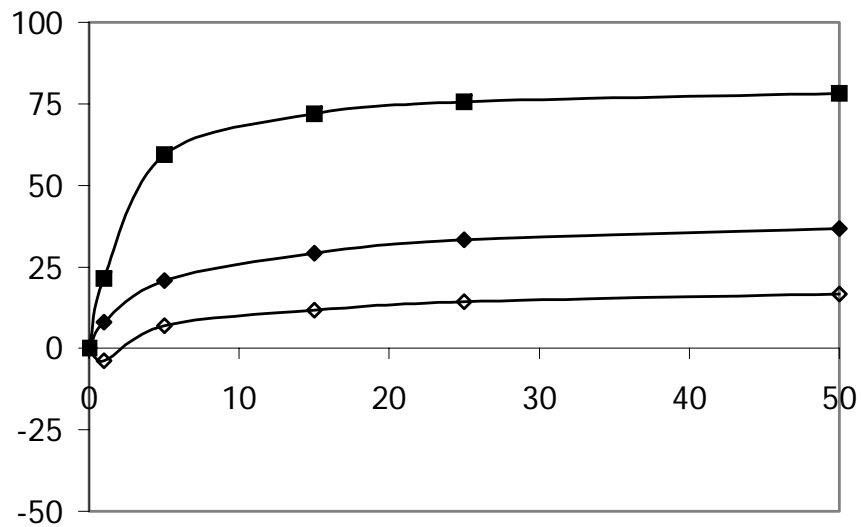
FALL



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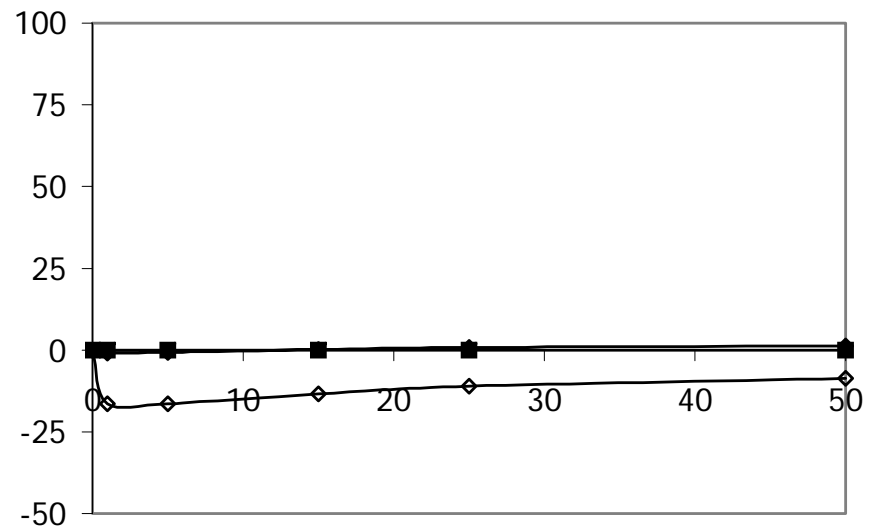
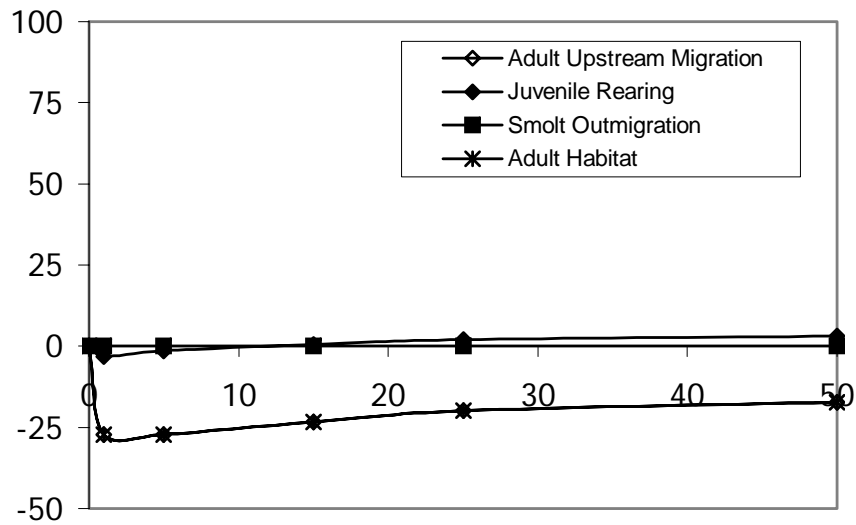
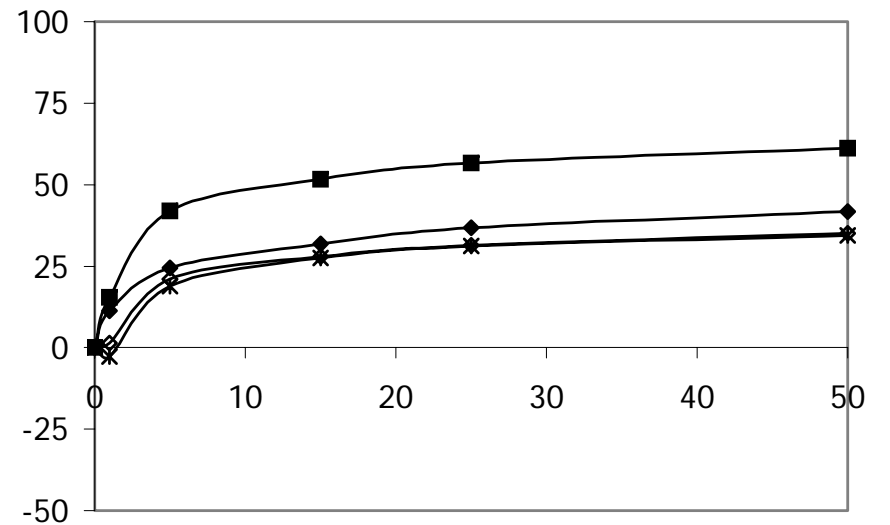


Figure I-16. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 33.3R.

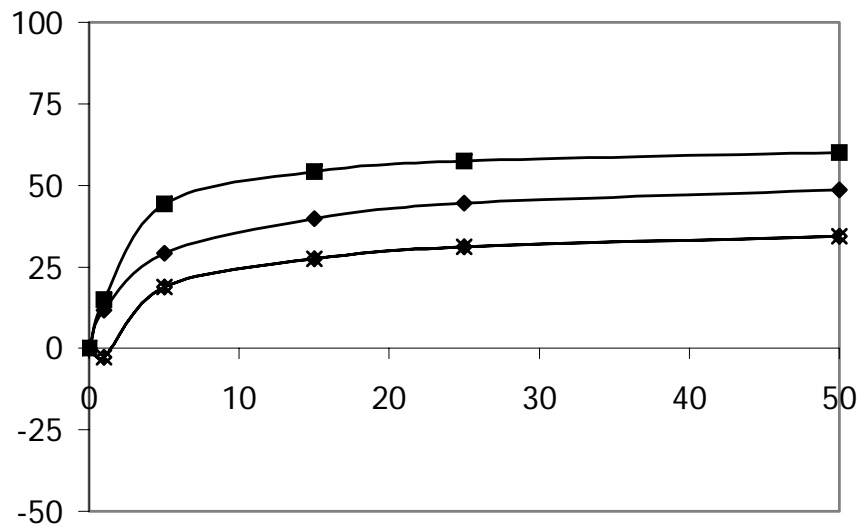
FALL



WINTER



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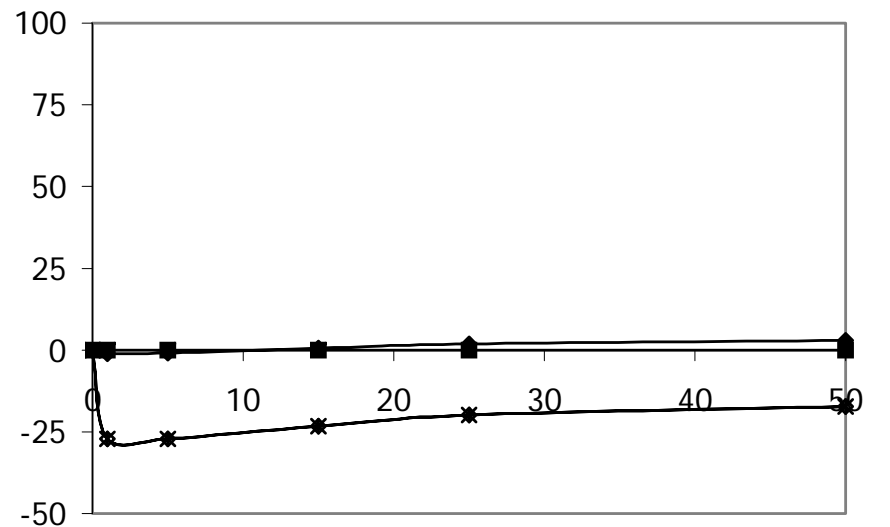
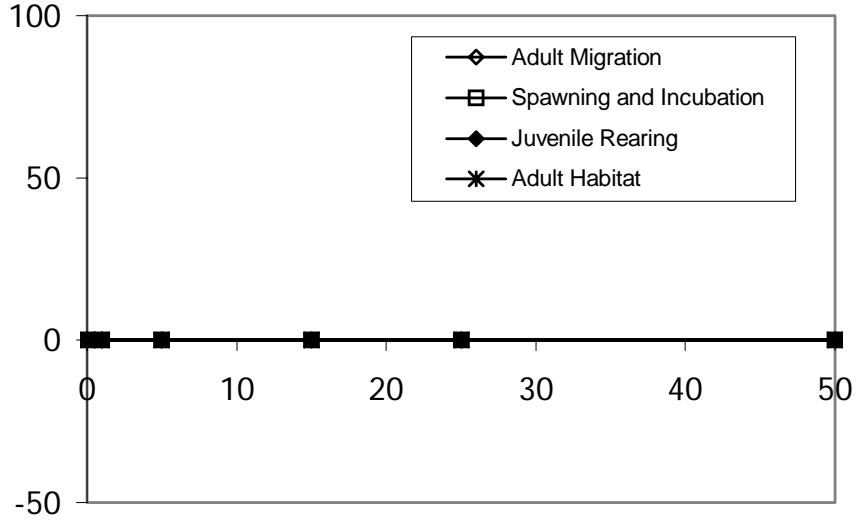
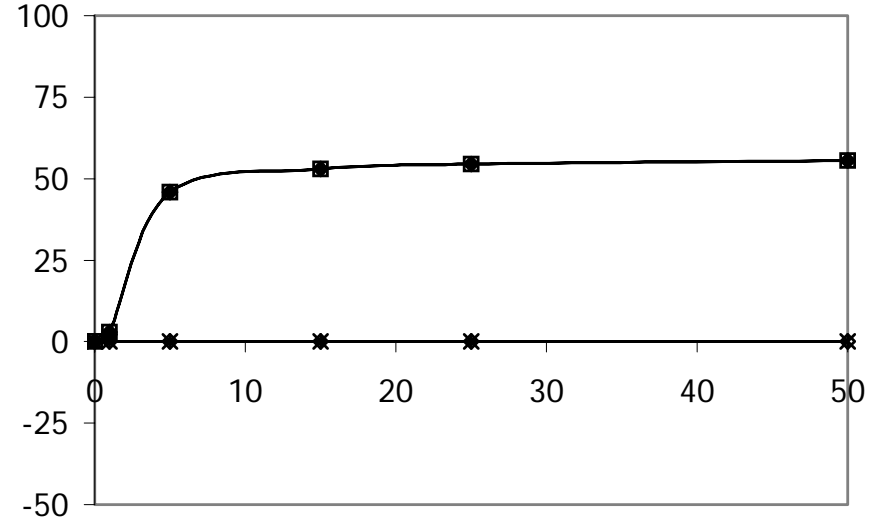


Figure I-17. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 33.3R.

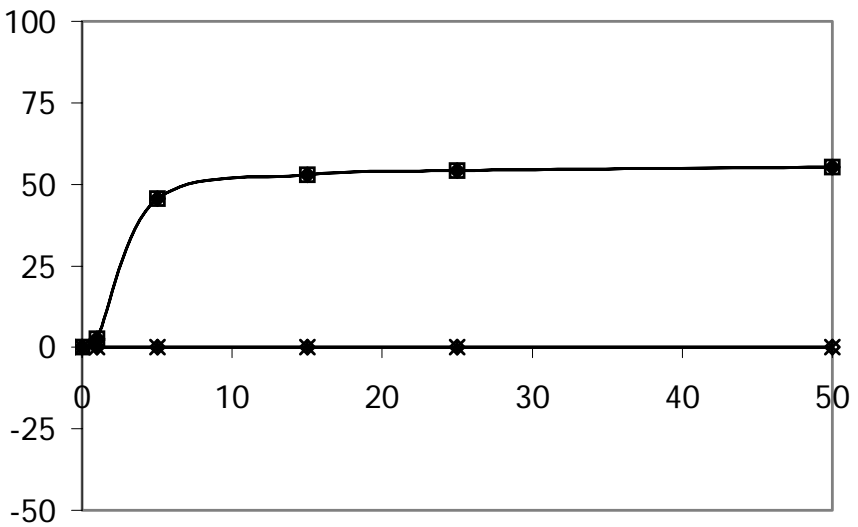
FALL



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SUMMER

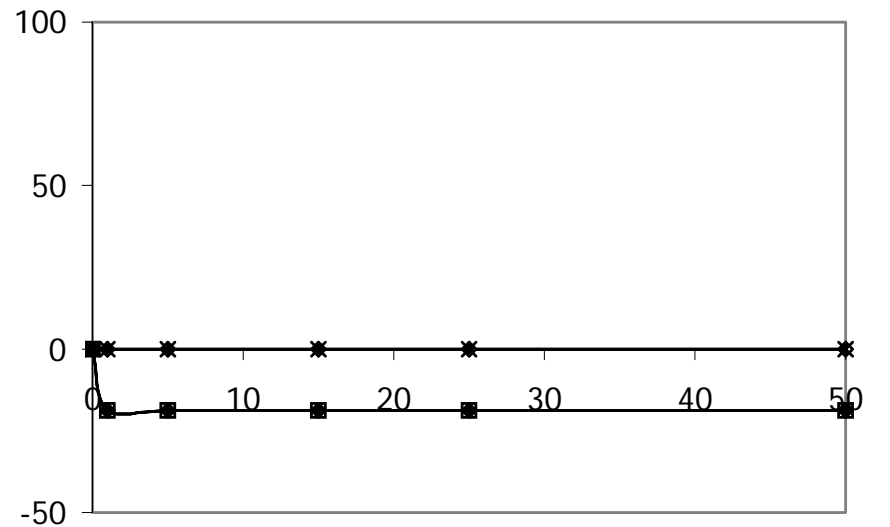
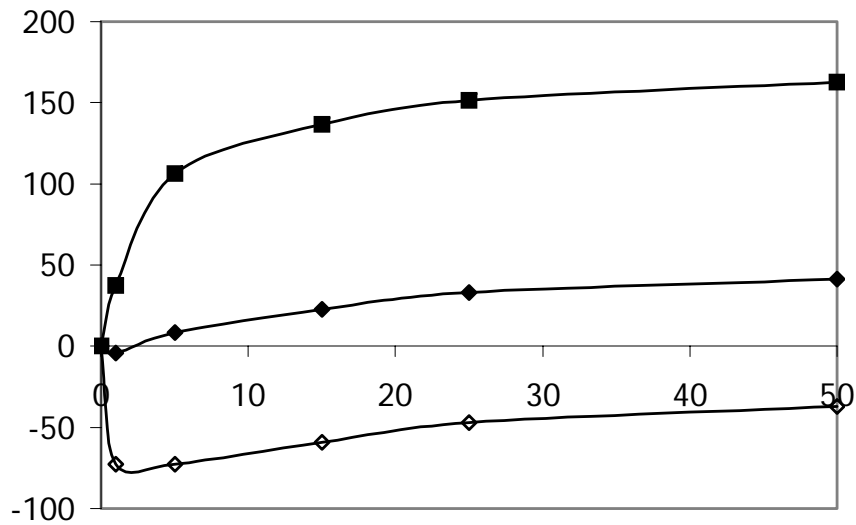
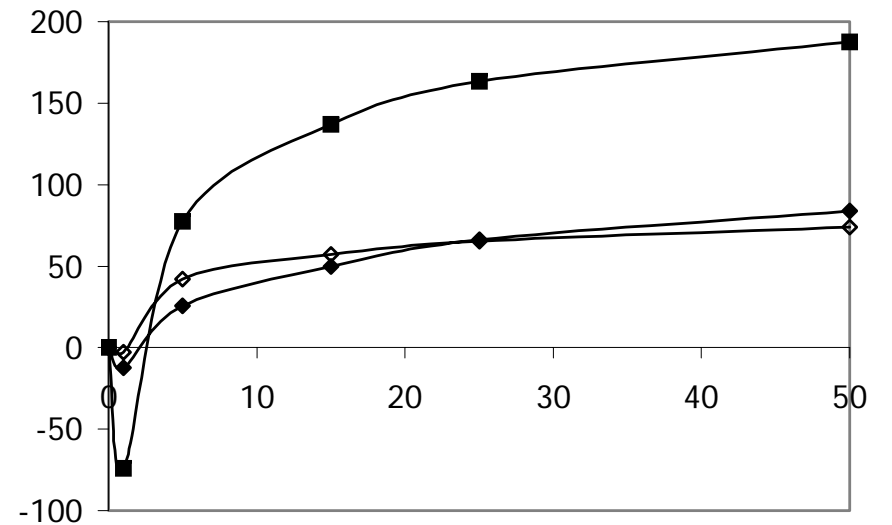


Figure I-18. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 33.3R.

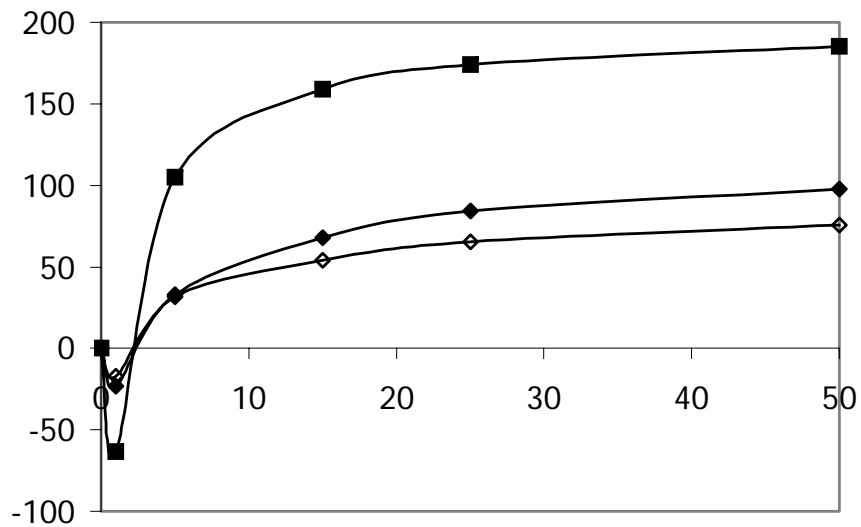
FALL



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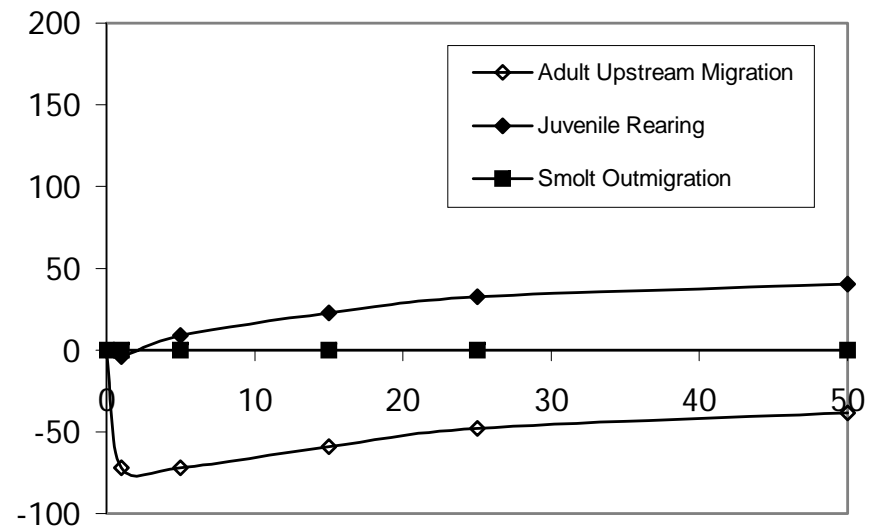
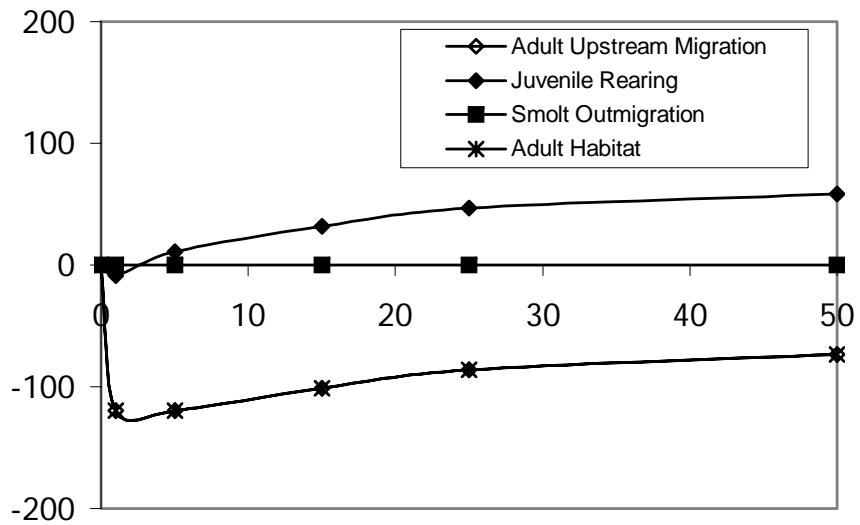
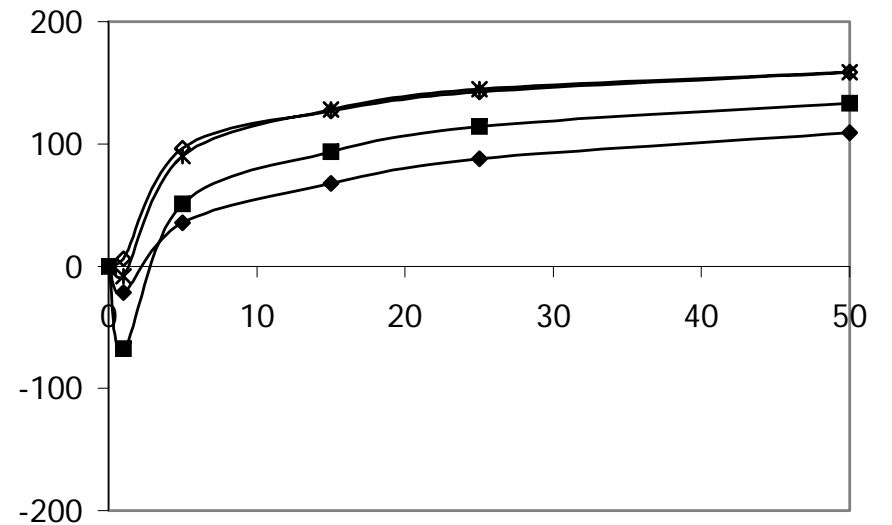


Figure I-19. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 43.7R.

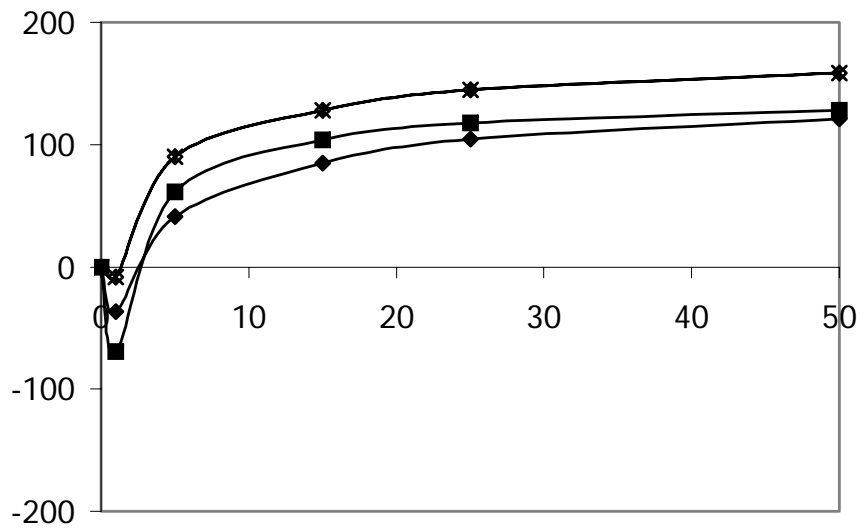
FALL



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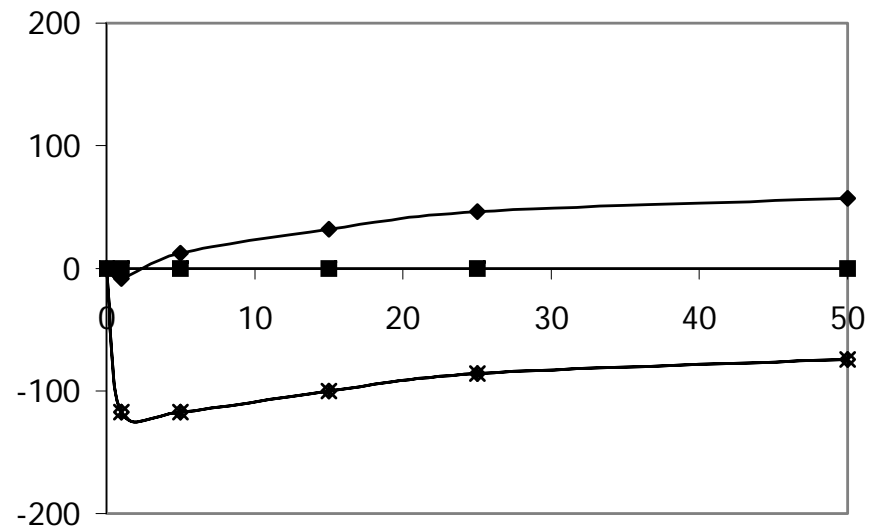
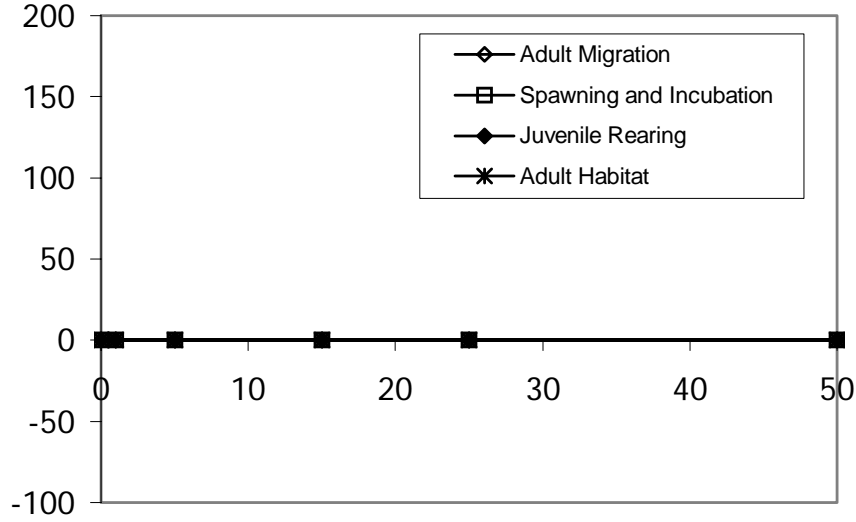
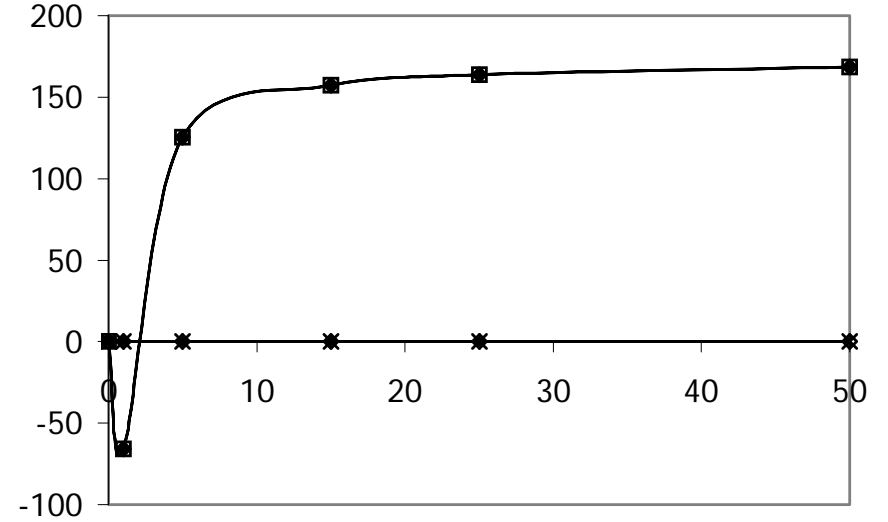


Figure I-20. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 43.7R.

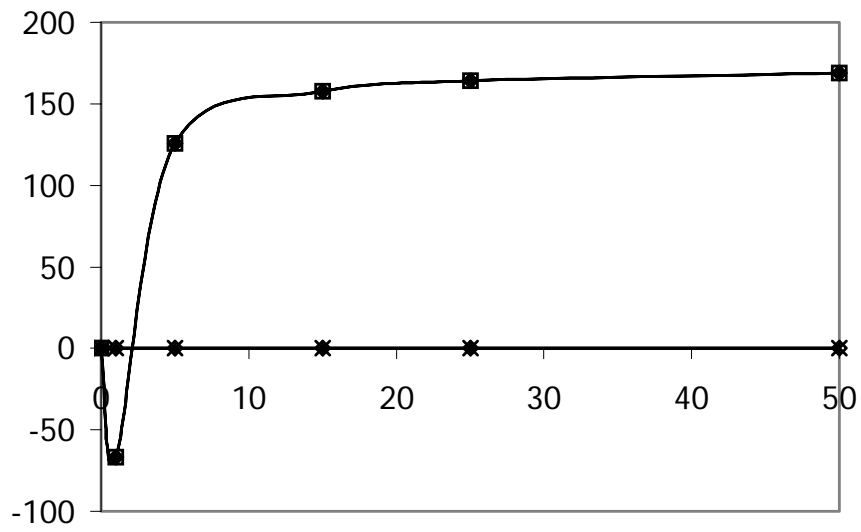
FALL



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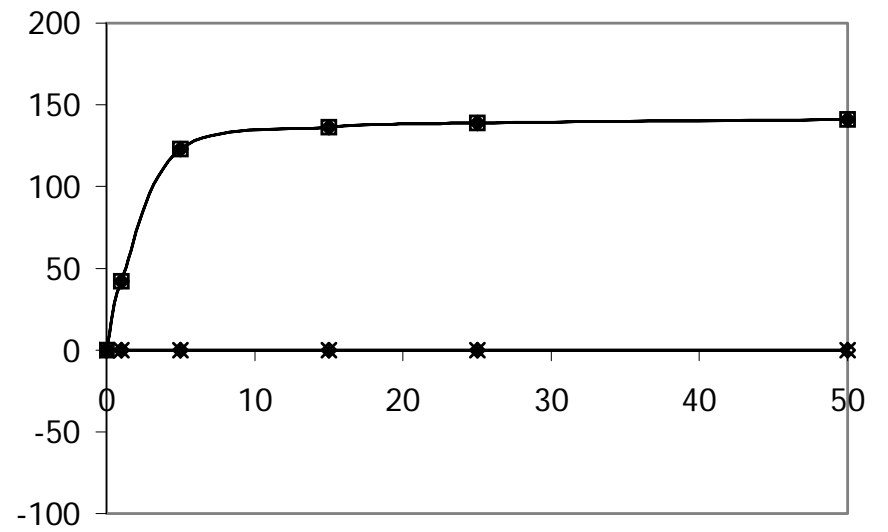
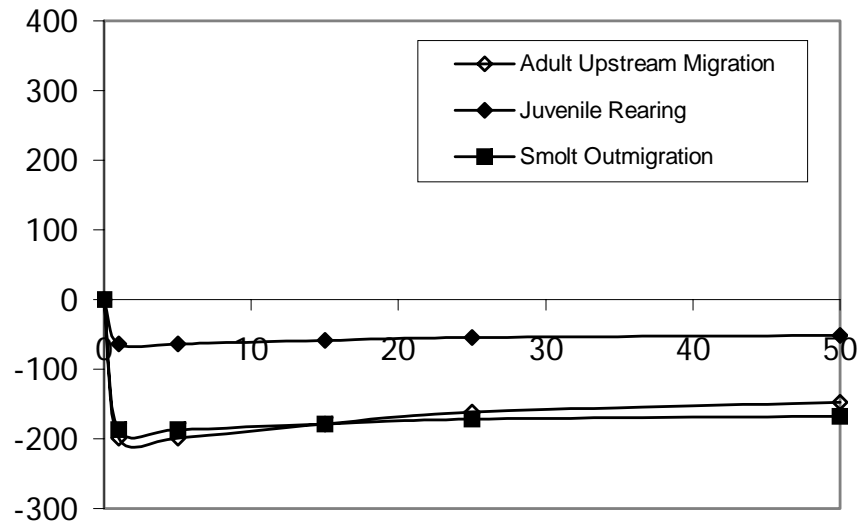
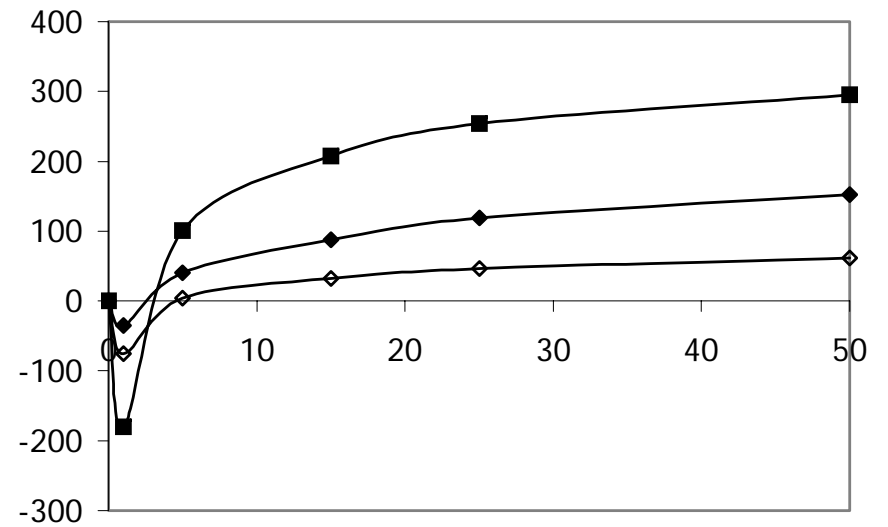


Figure I-21. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 43.7R.

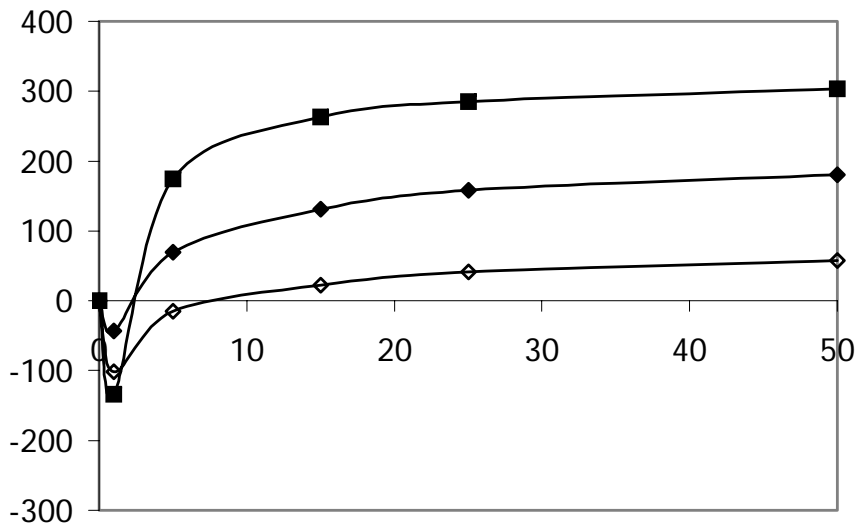
FALL



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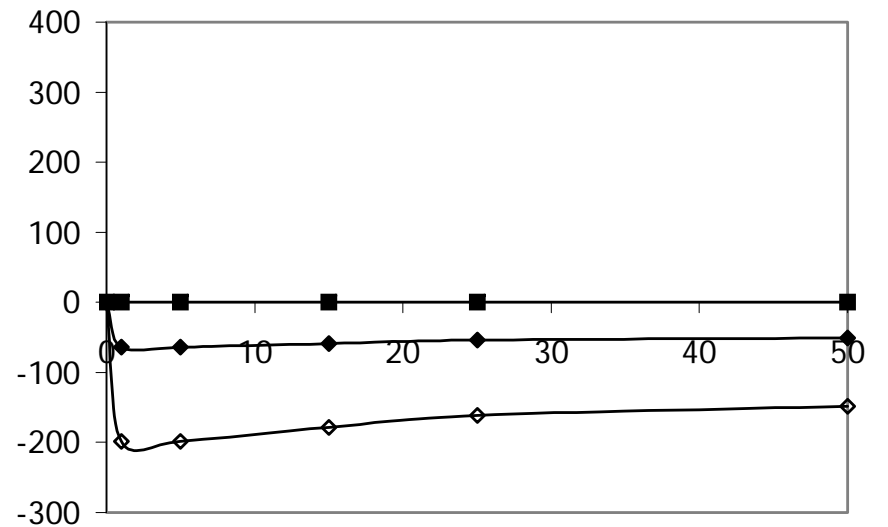
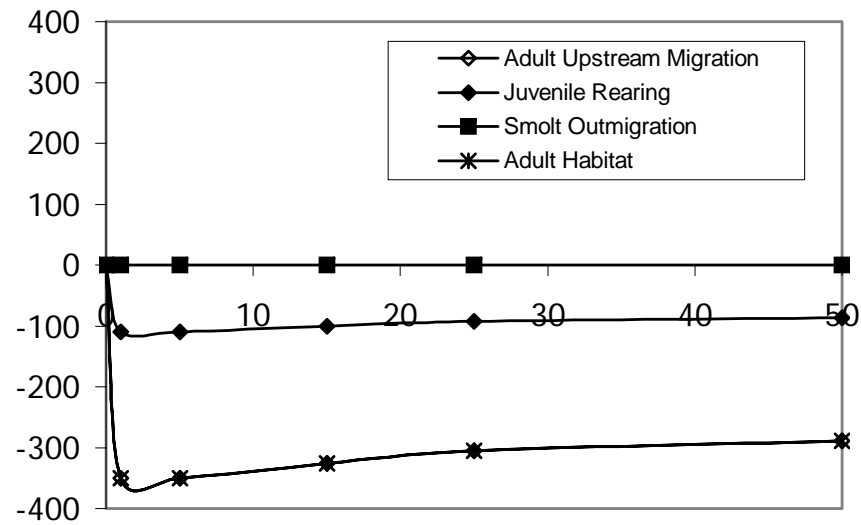
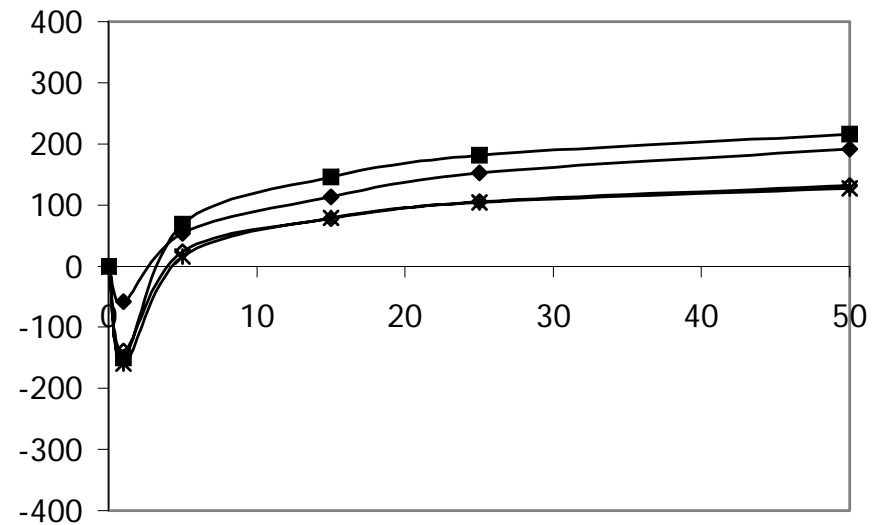


Figure I-22. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 44.7R.

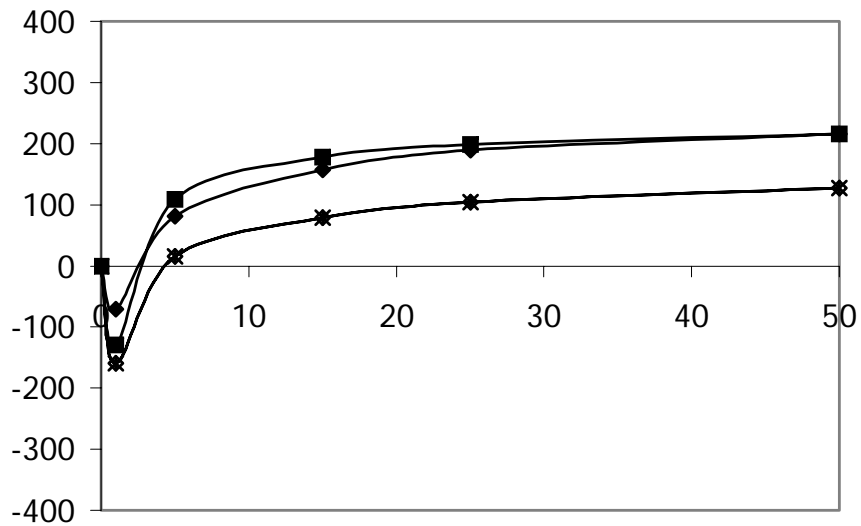
FALL



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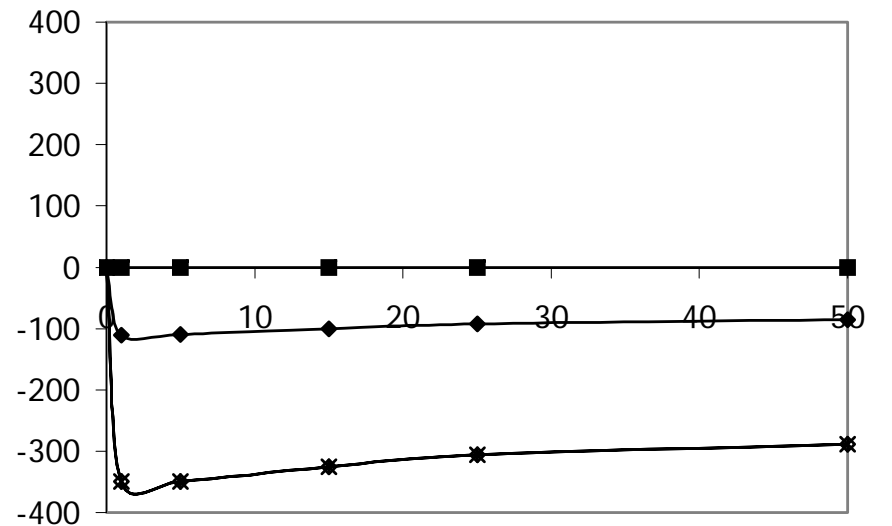
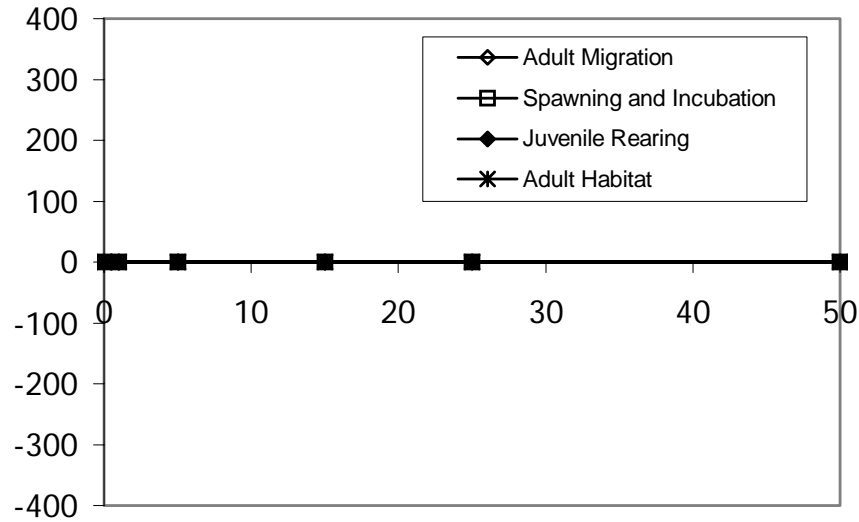
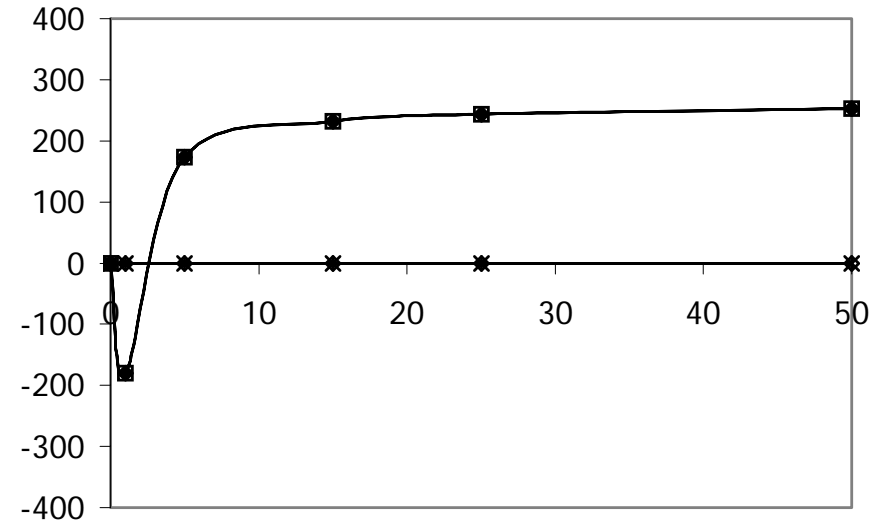


Figure I-23. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 44.7R.

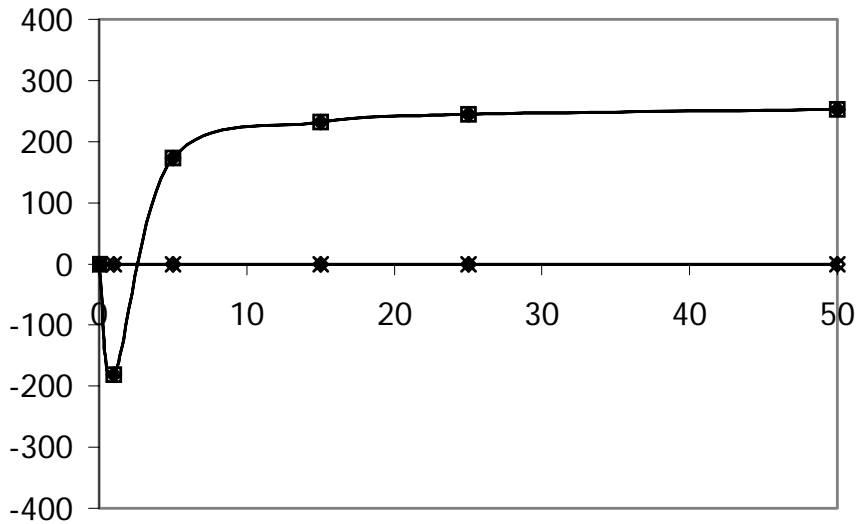
FALL



WINTER



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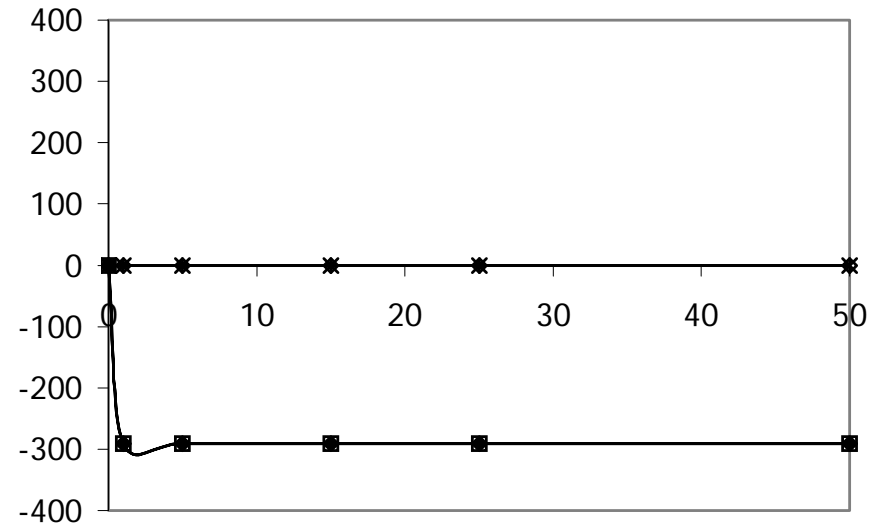
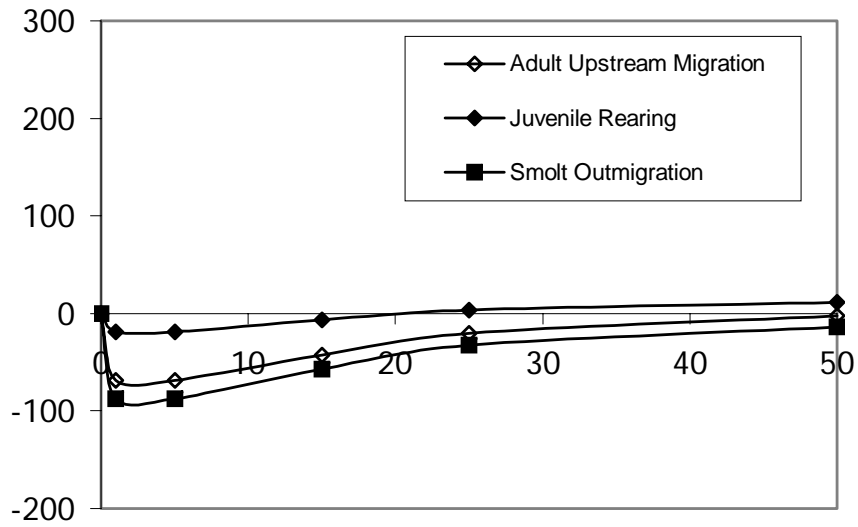
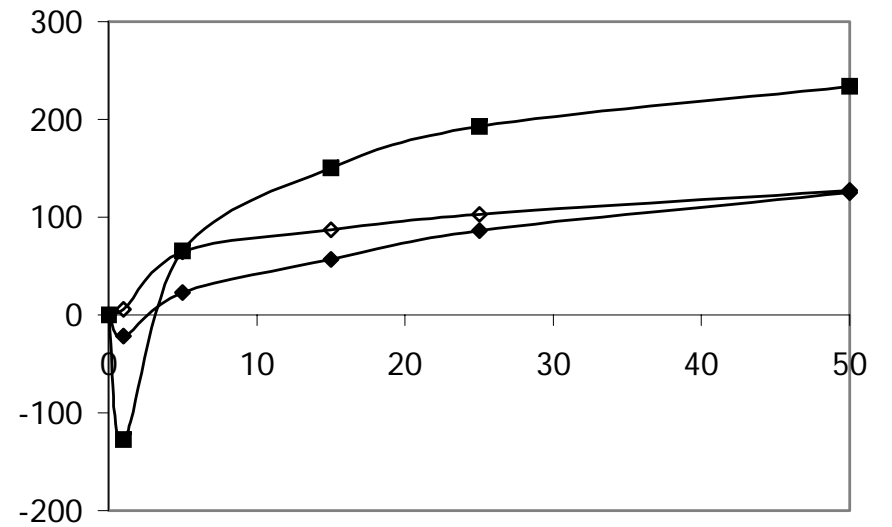


Figure I-24. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 44.7R.

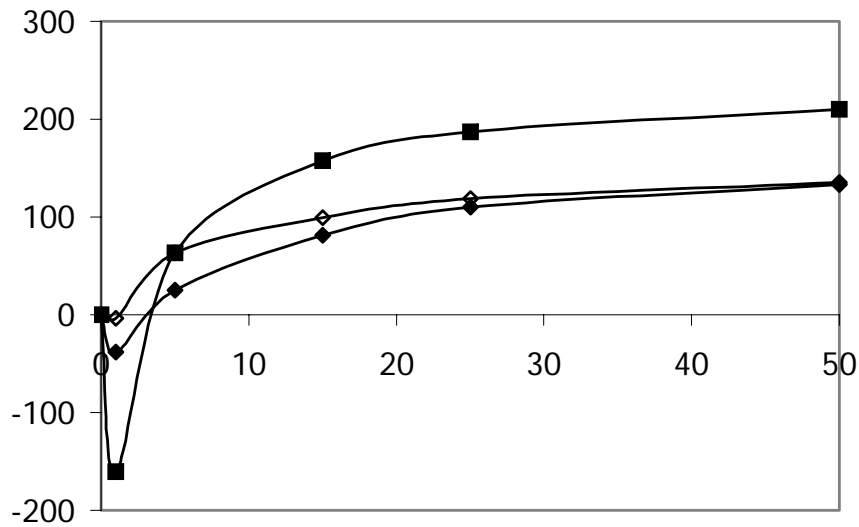
FALL



WINTER



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SUMMER

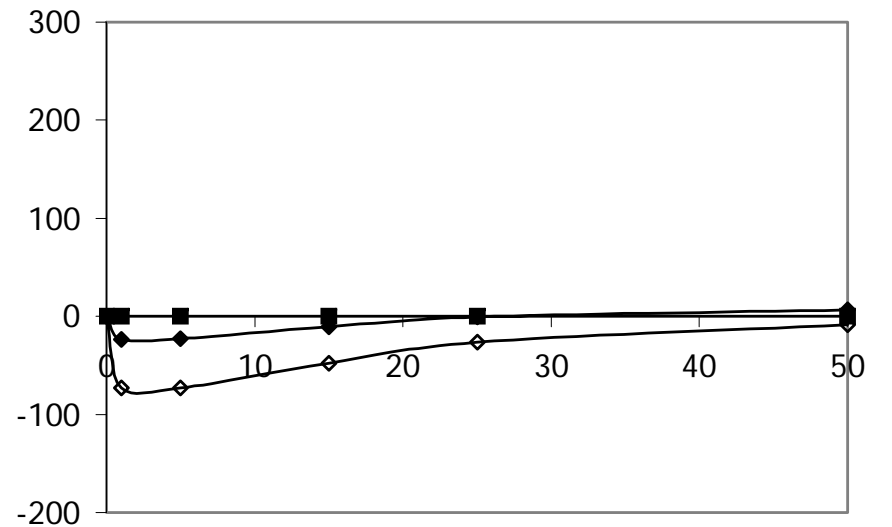
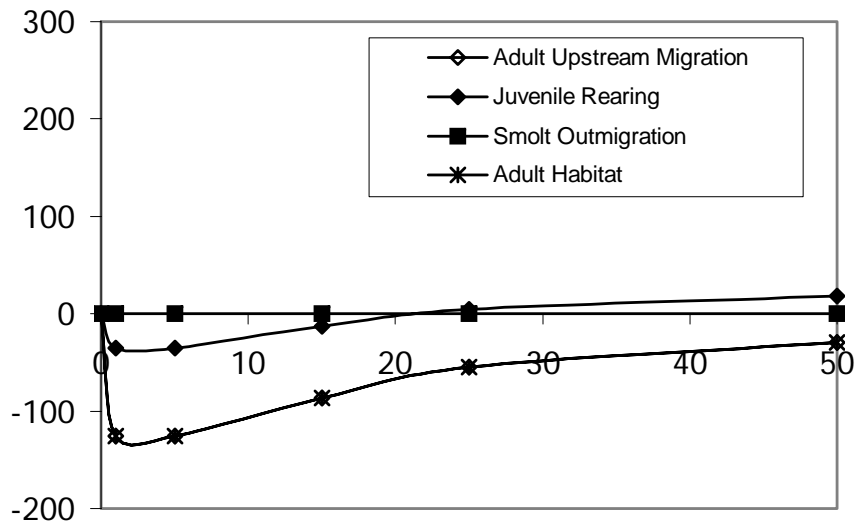
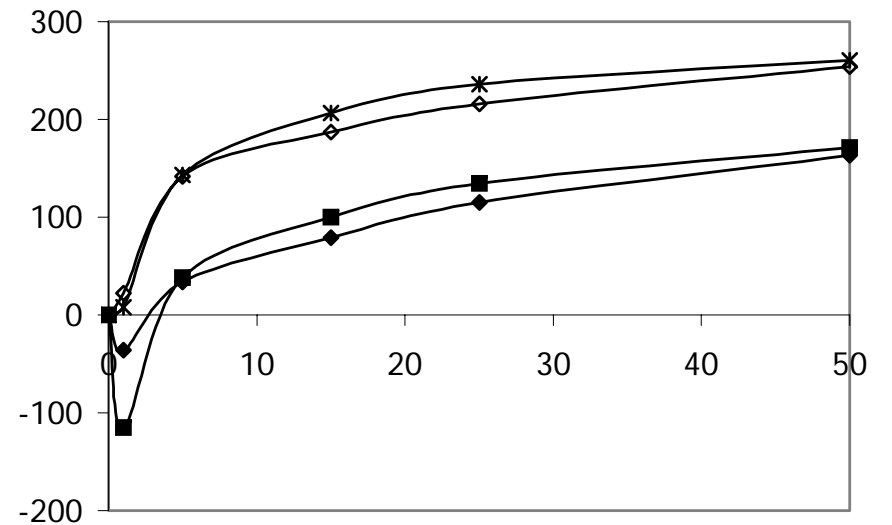


Figure I-25. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 47.0L.

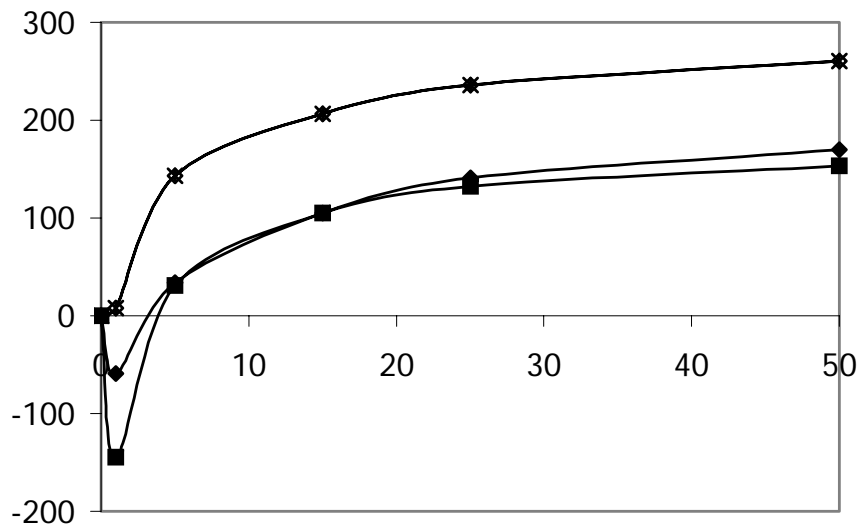
FALL



WINTER



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SUMMER

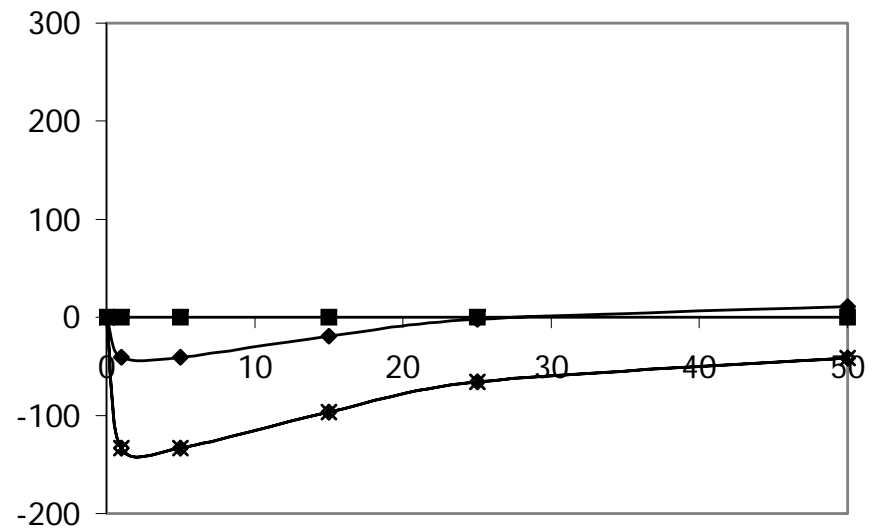
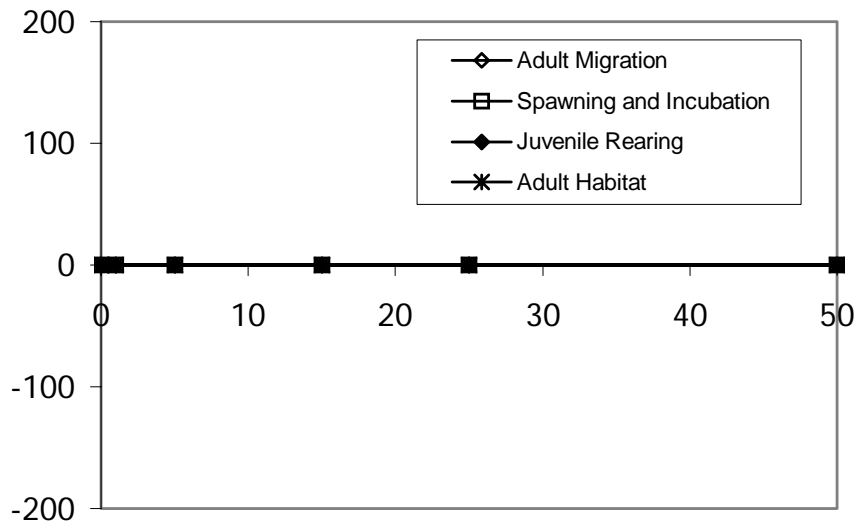
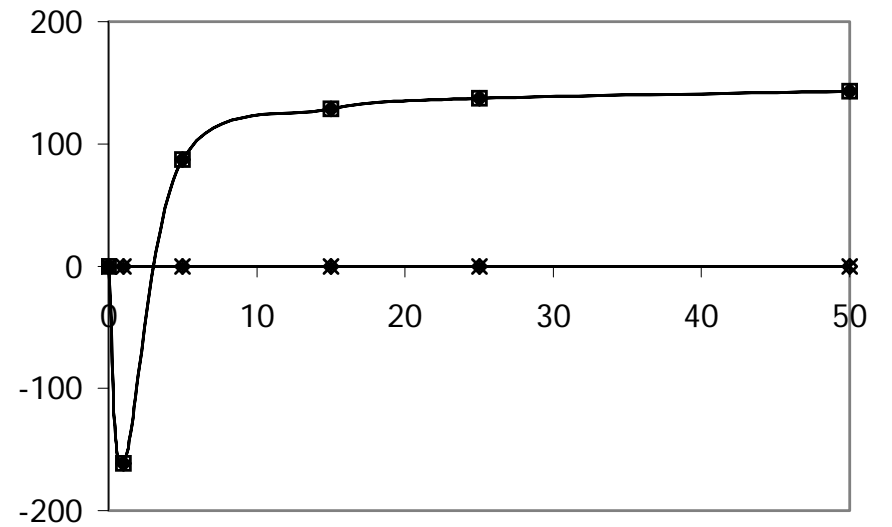


Figure I-26. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 47.0L.

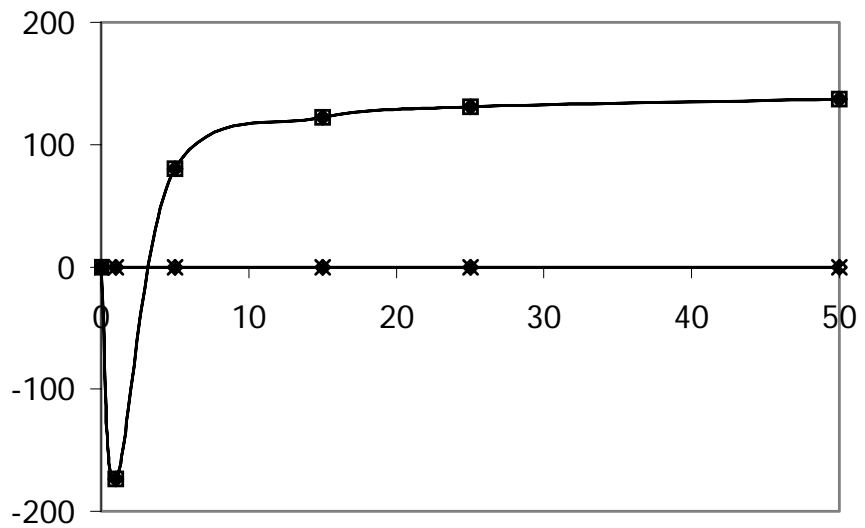
FALL



WINTER



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SUMMER

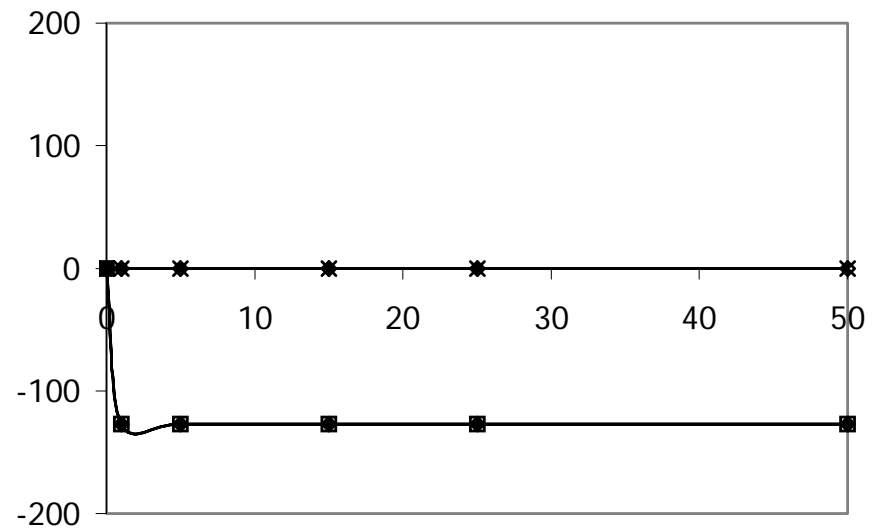
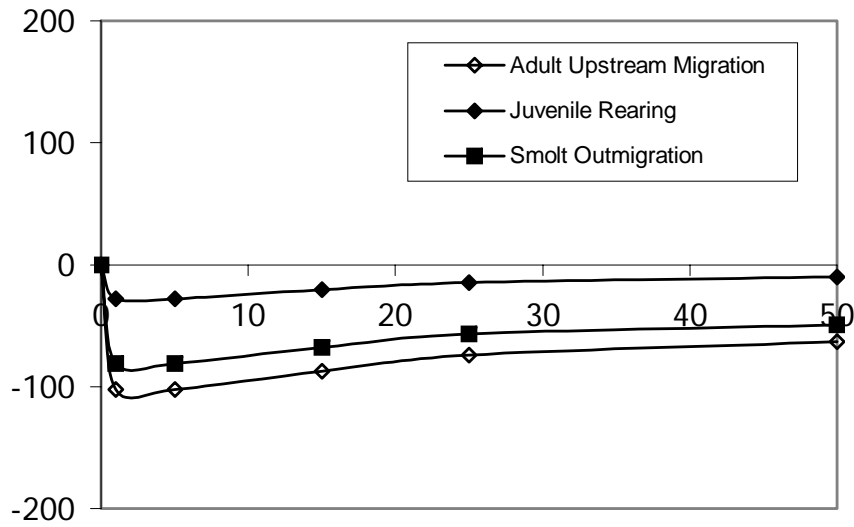
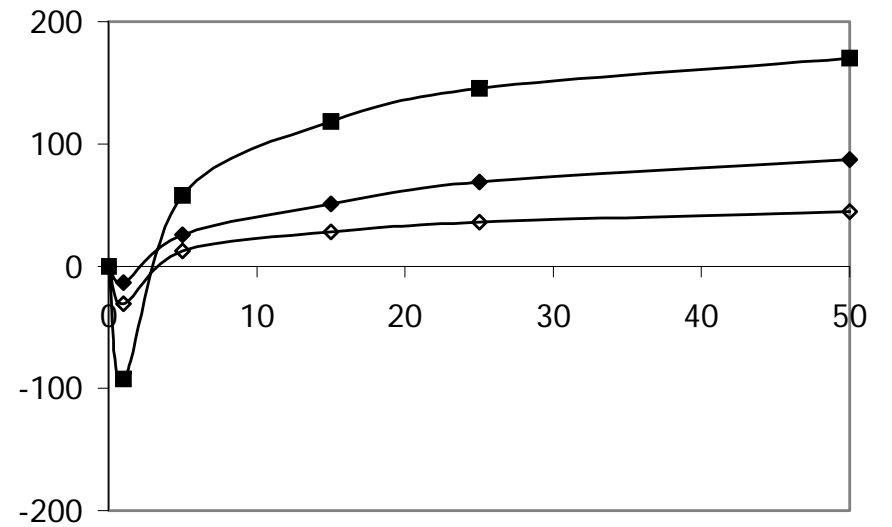


Figure I-27. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 47.0L.

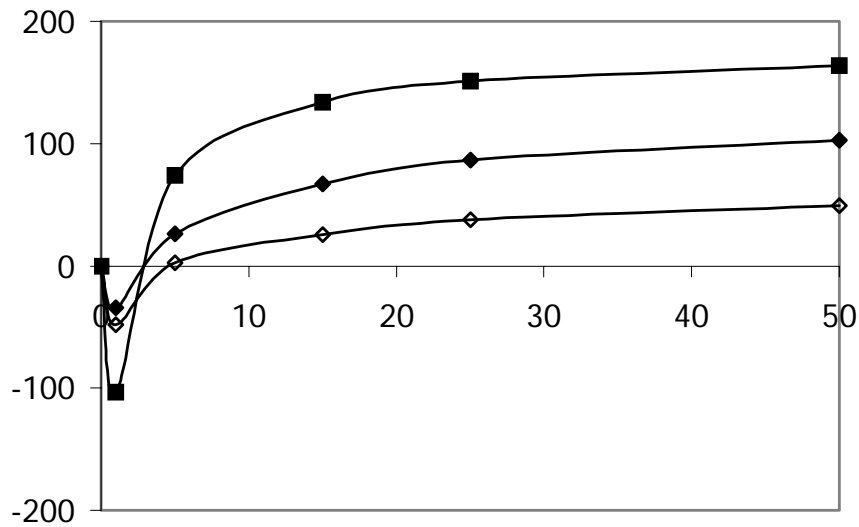
FALL



WINTER



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SUMMER

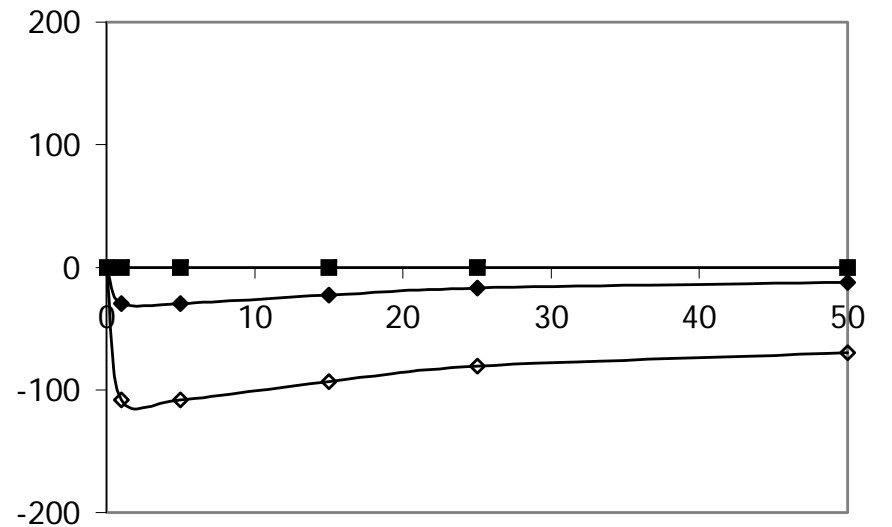
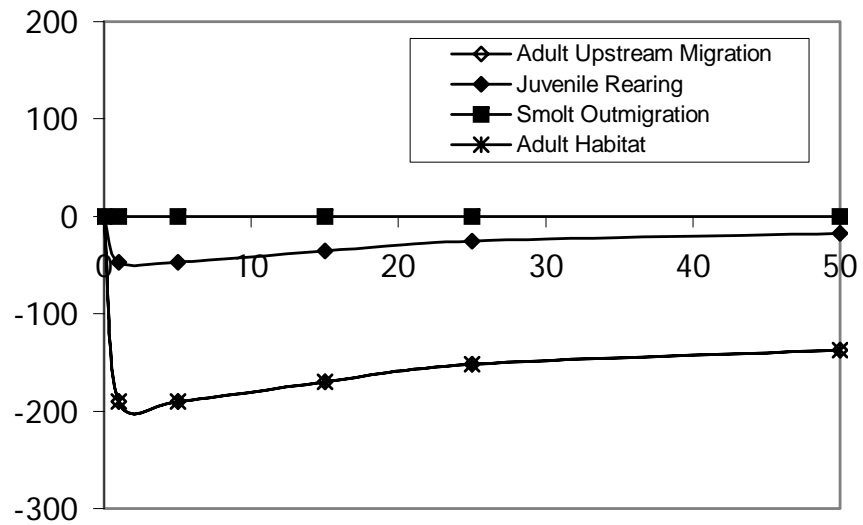
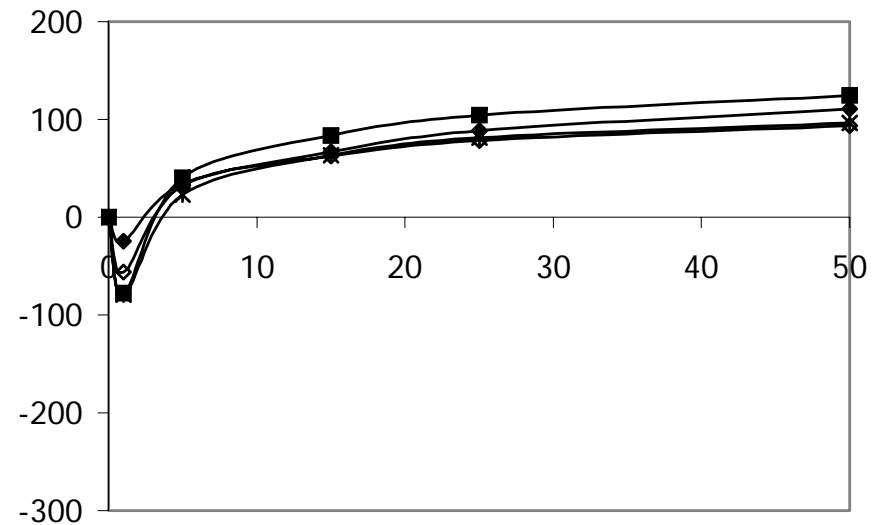


Figure I-28. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 47.9R.

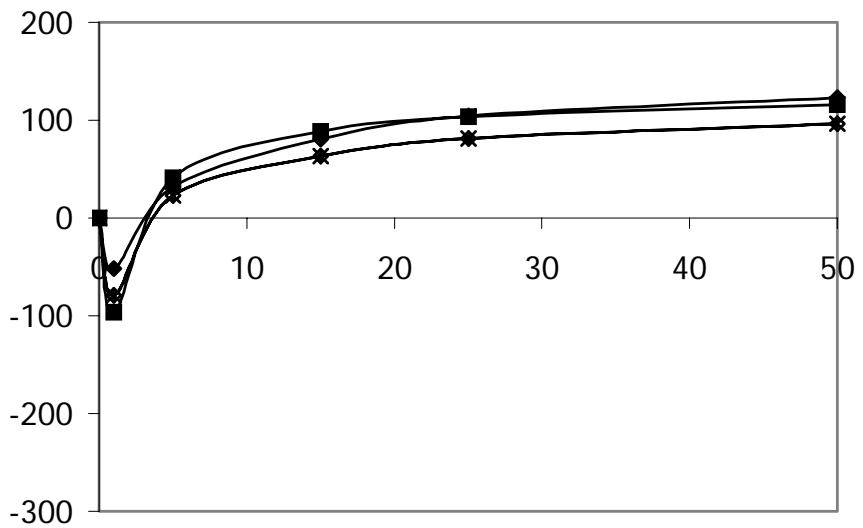
FALL



WINTER



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SUMMER

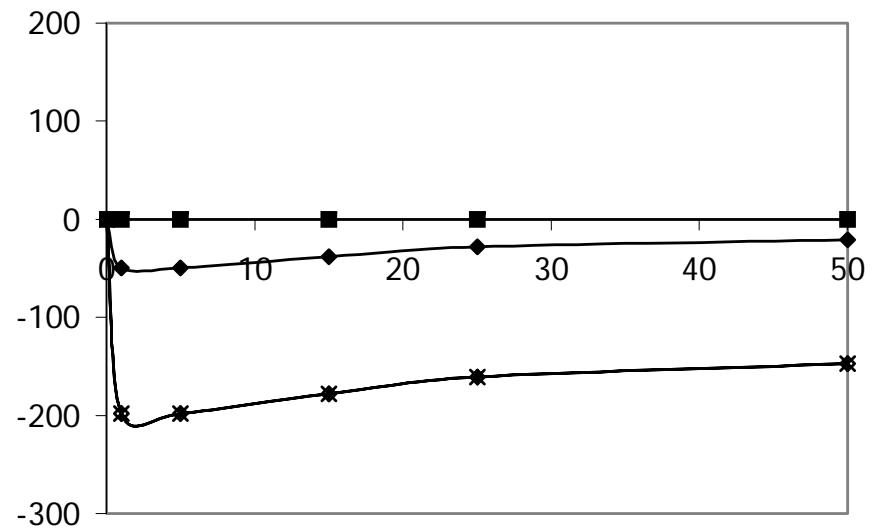
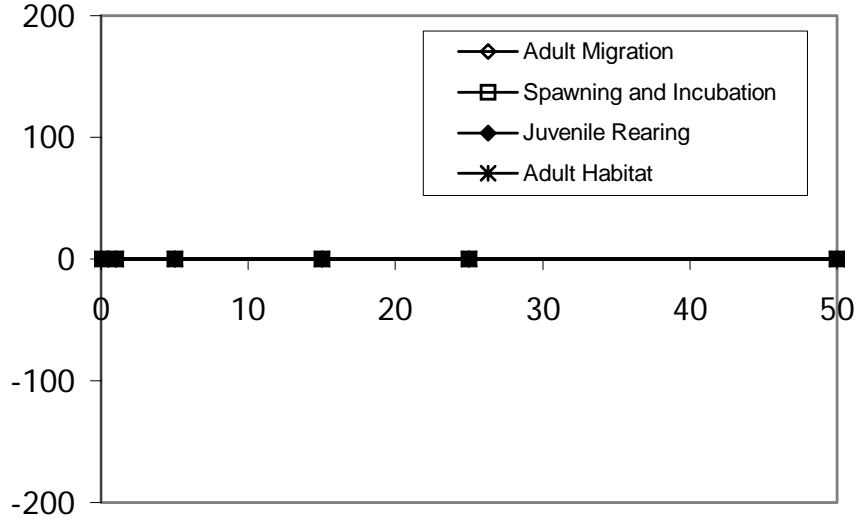
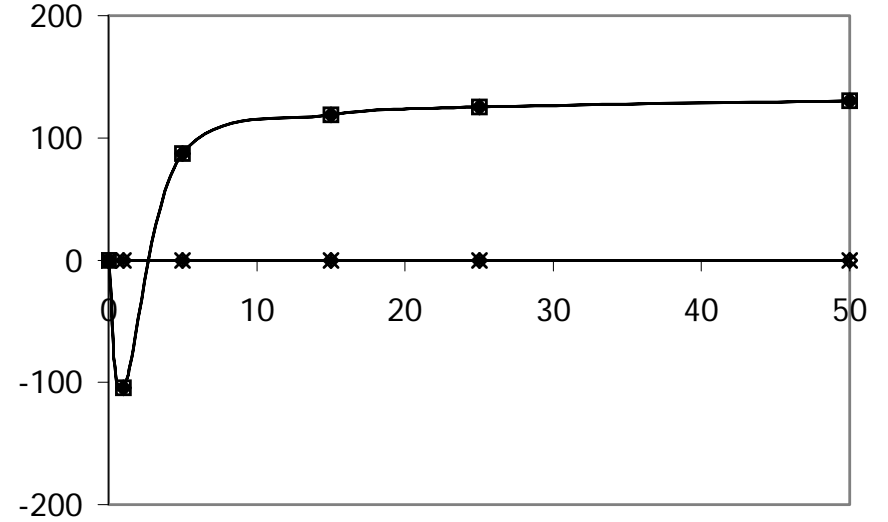


Figure I-29. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 47.9R.

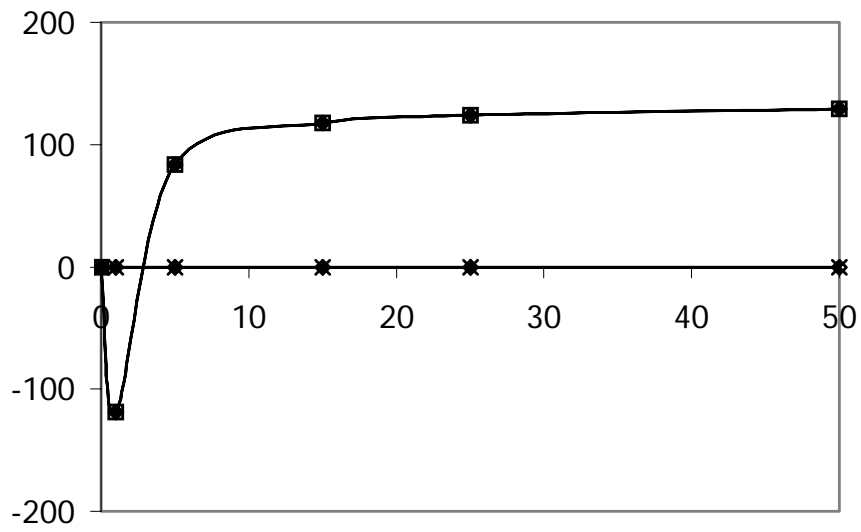
FALL



WINTER



SPRING



SUMMER

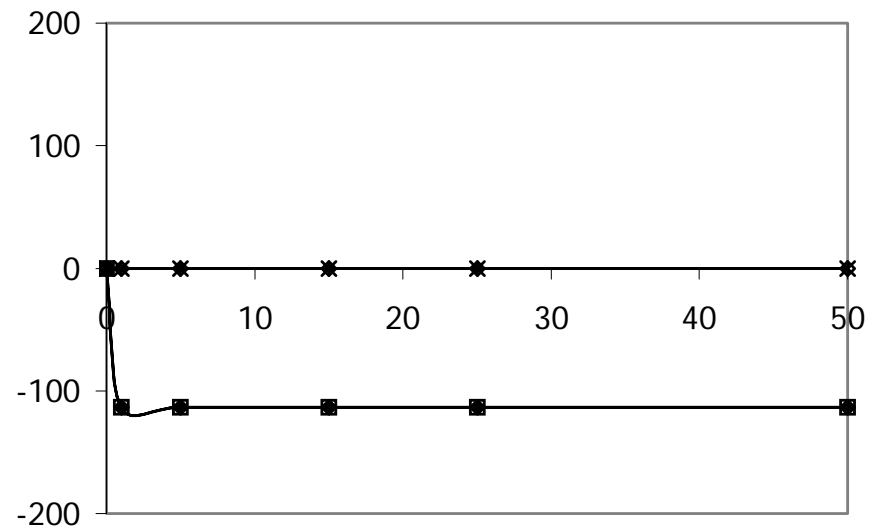
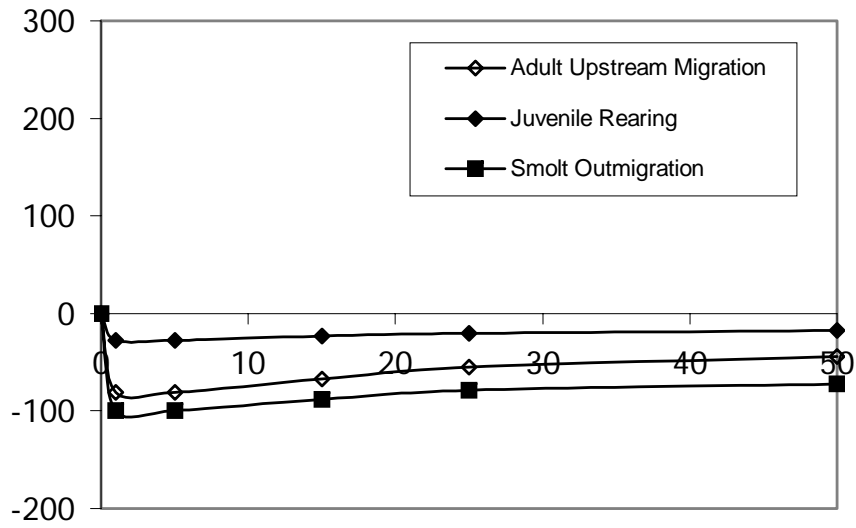
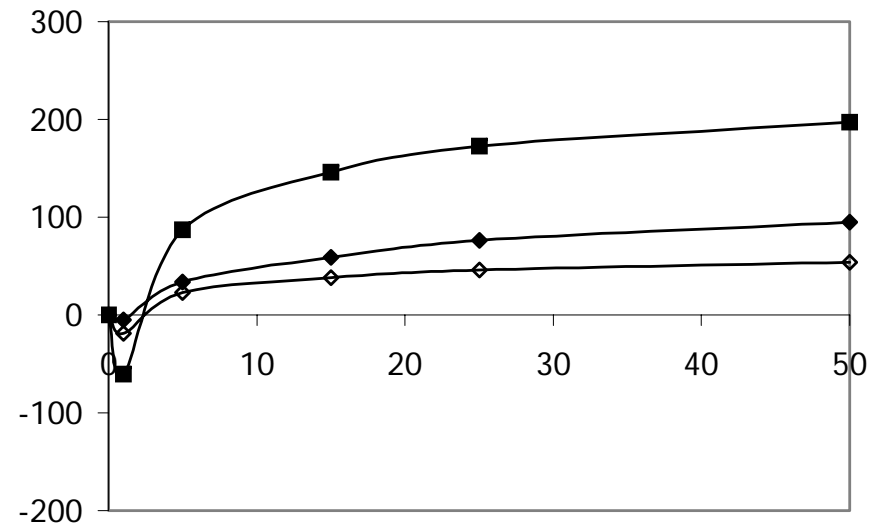


Figure I-30. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 47.9R.

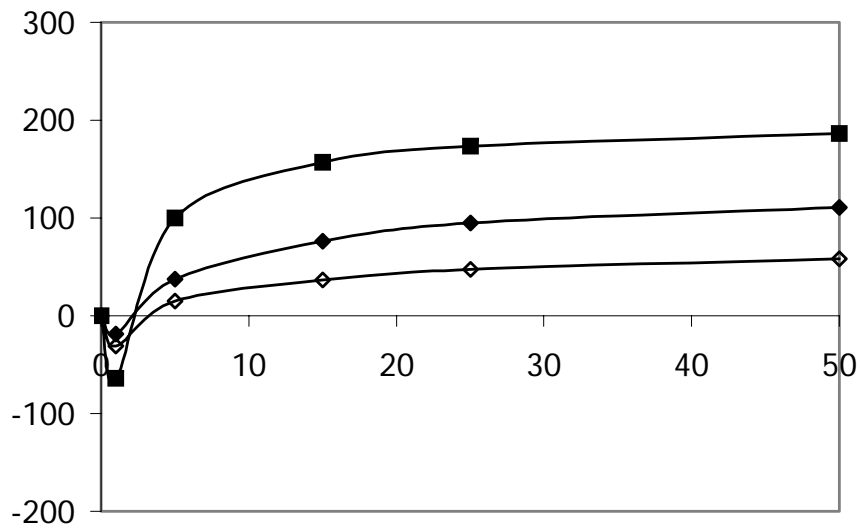
FALL



WINTER



SPRING



SUMMER

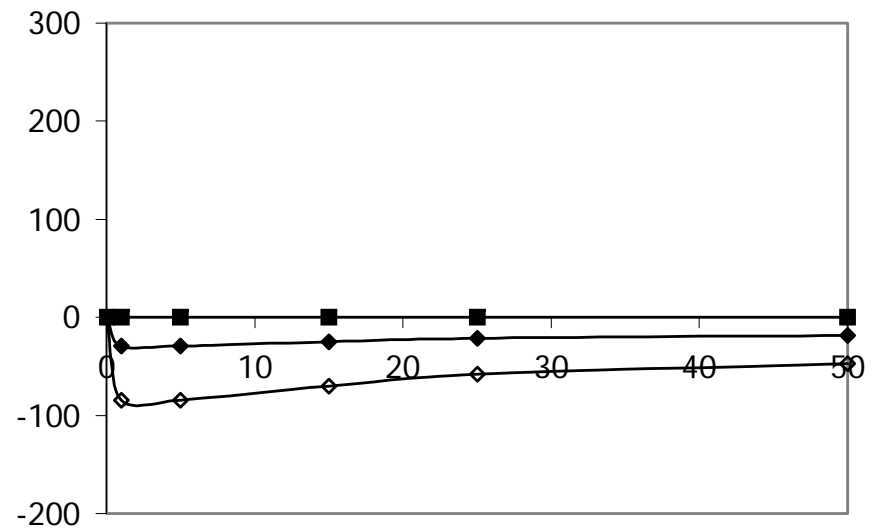
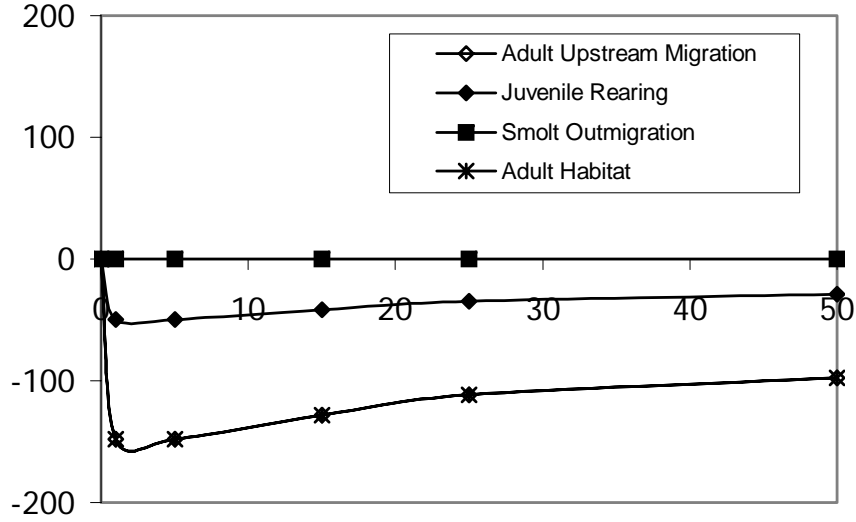
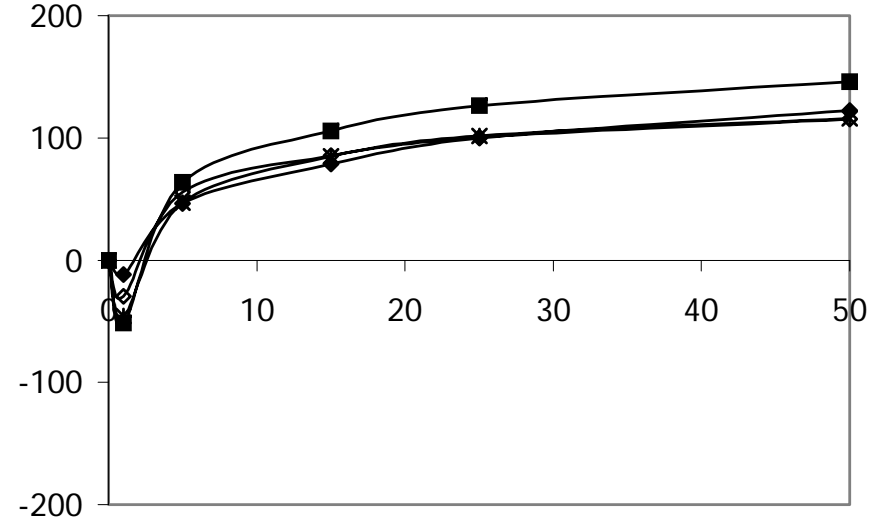


Figure I-31. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 48.2R.

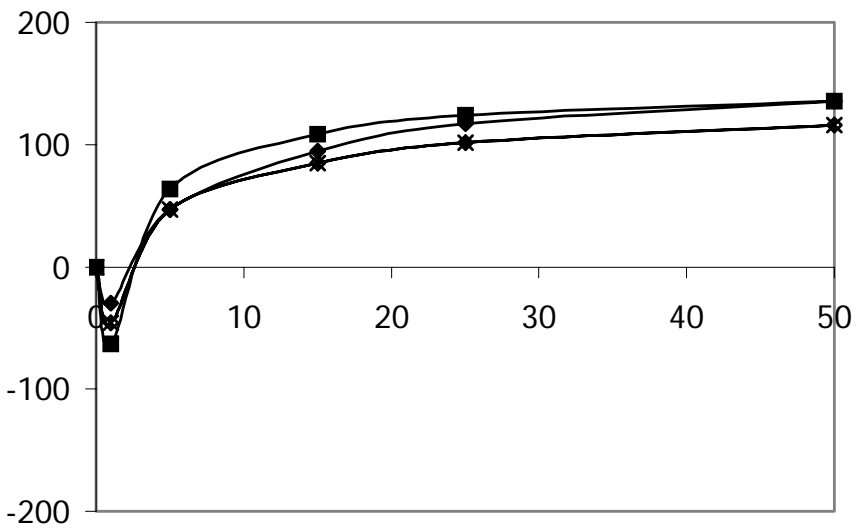
FALL



WINTER



SPRING



SUMMER

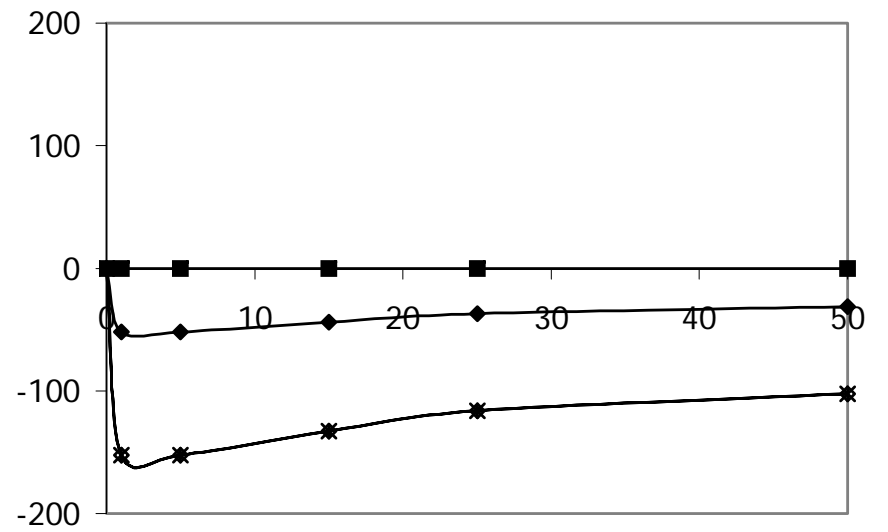
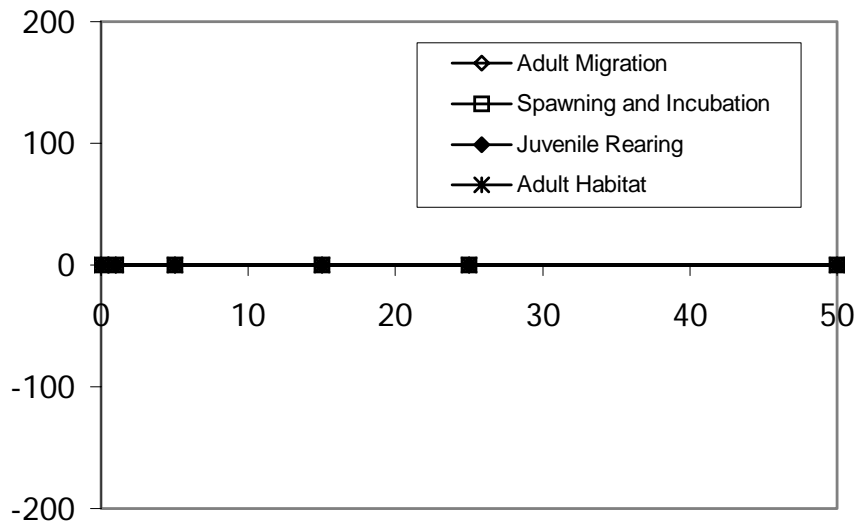
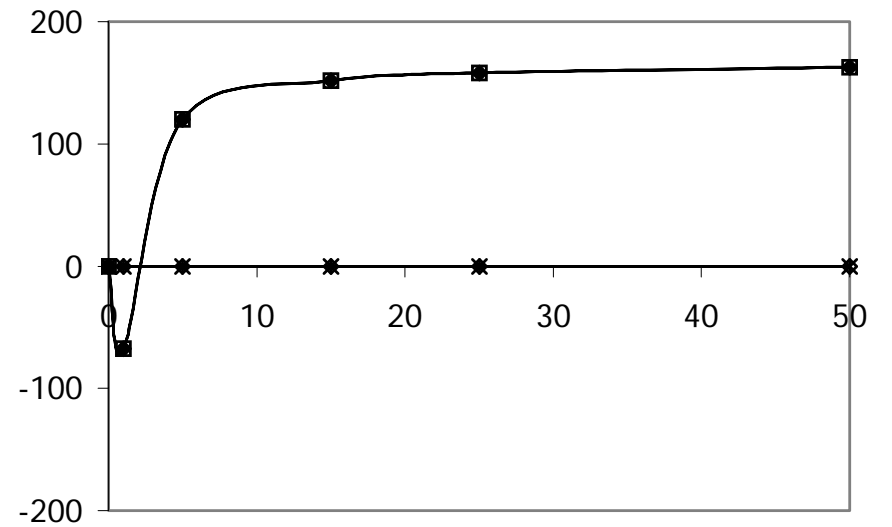


Figure I-32. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 48.2R.

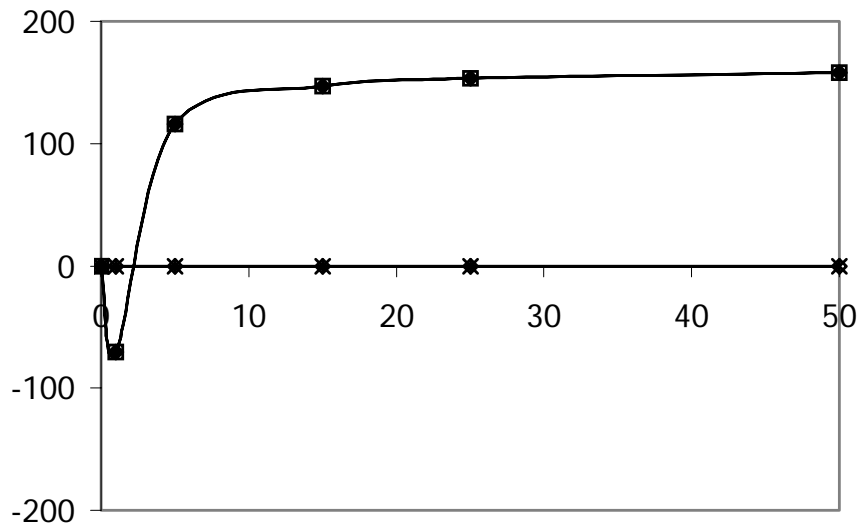
FALL



WINTER



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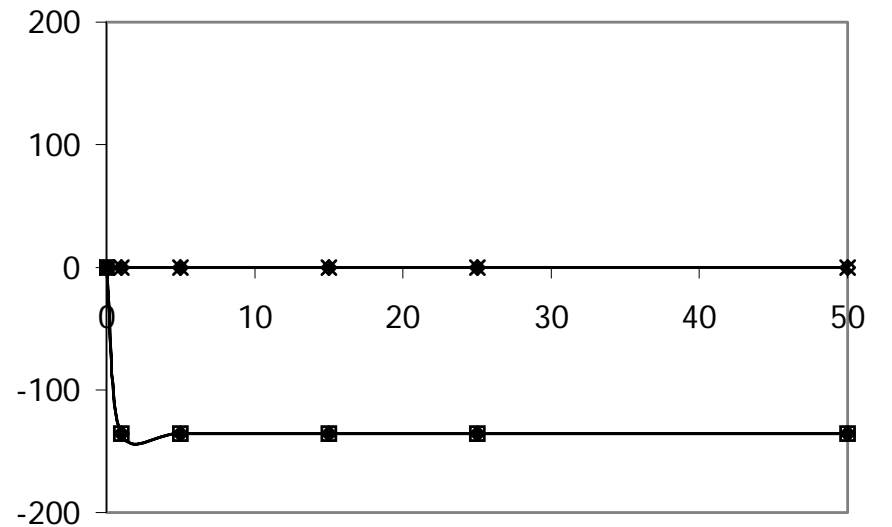
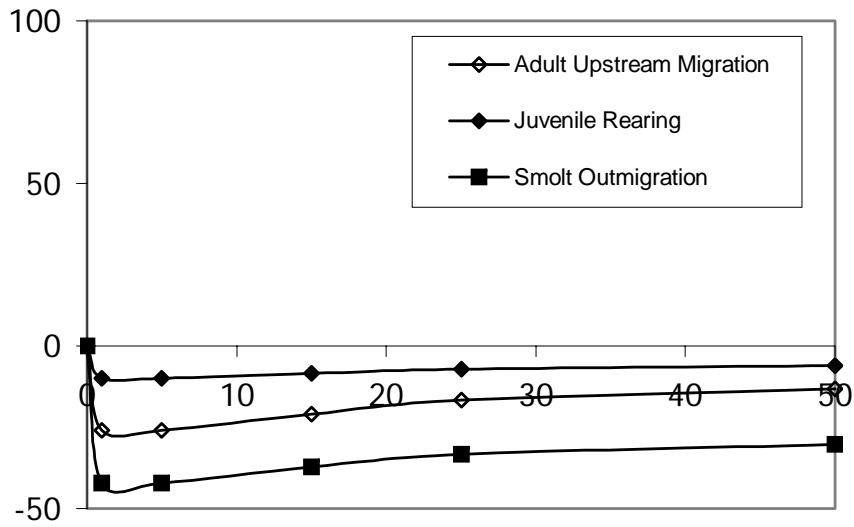
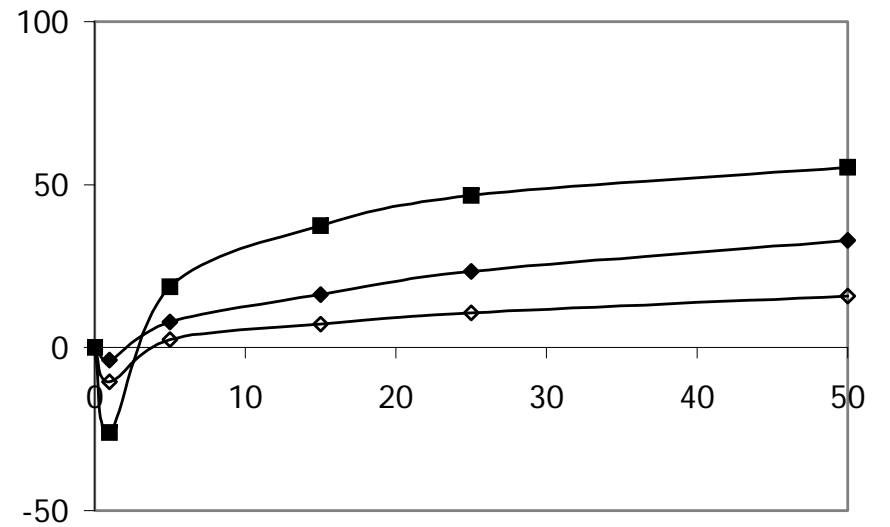


Figure I-33. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 48.2R.

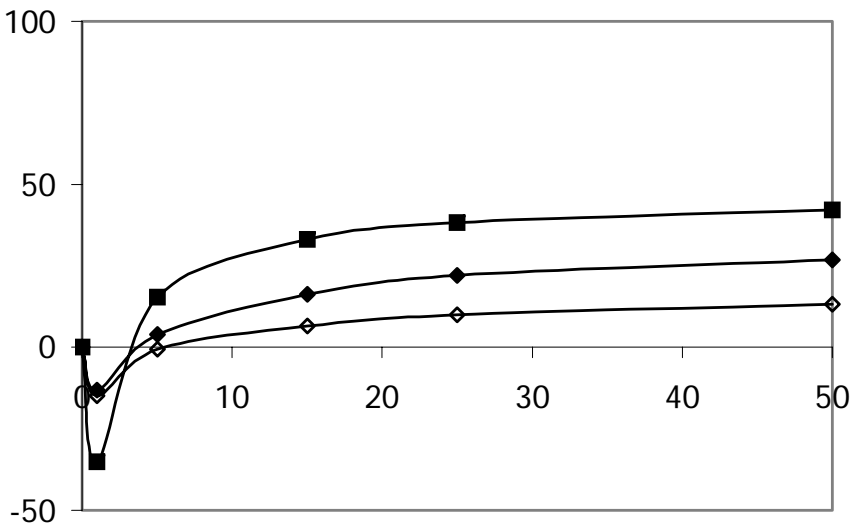
FALL



WINTER



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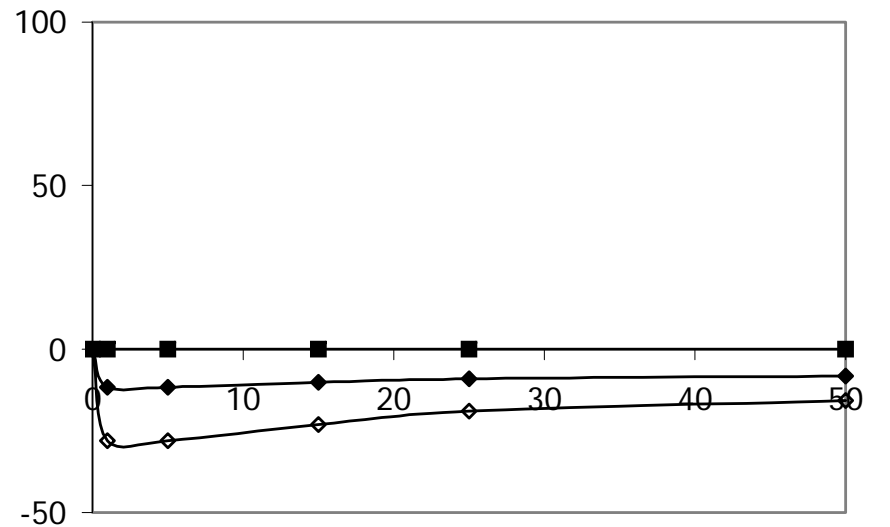
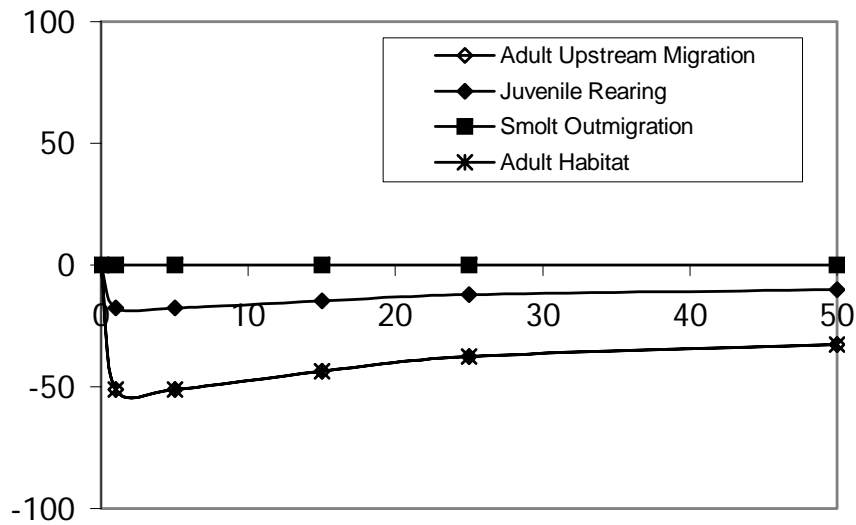
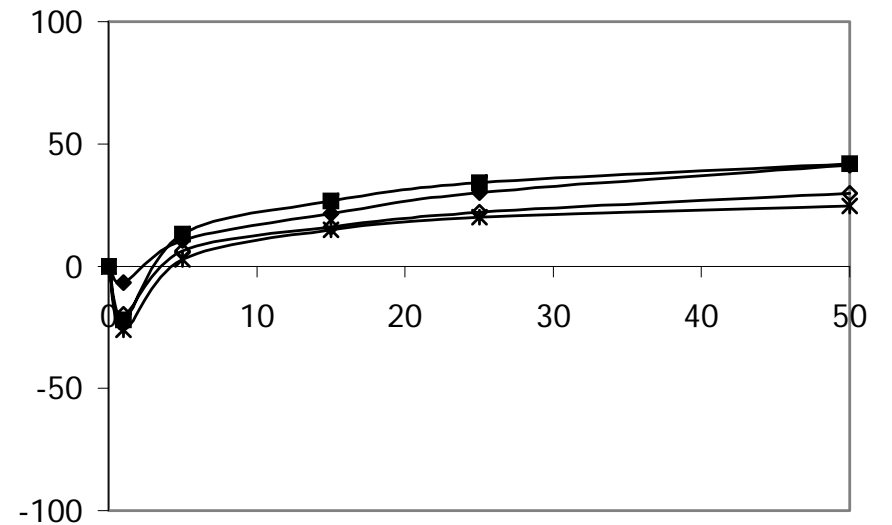


Figure I-34. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 62.5R.

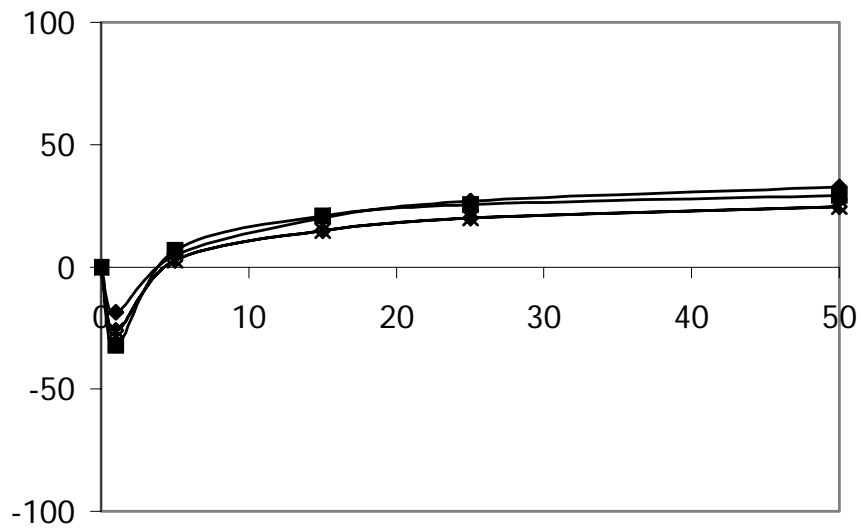
FALL



WINTER



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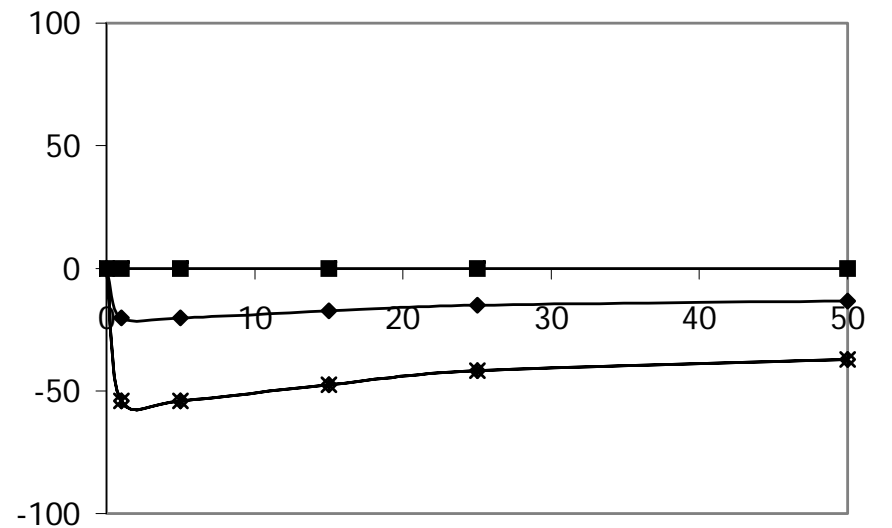
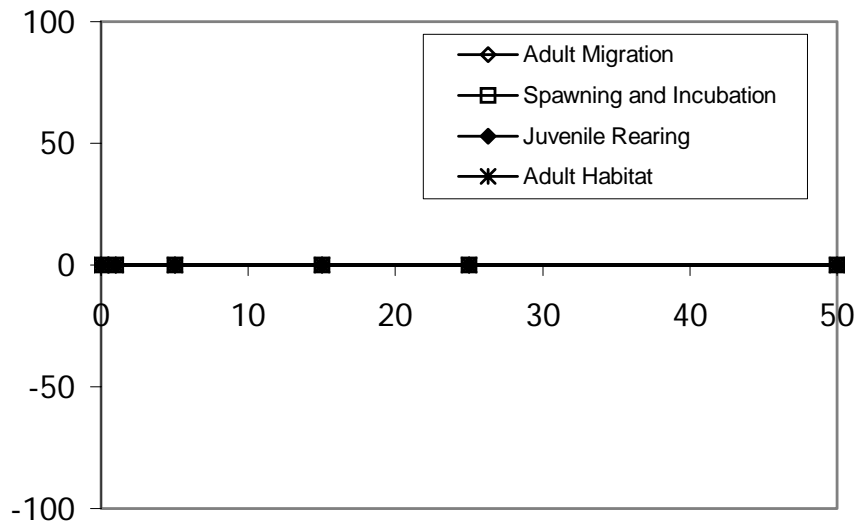
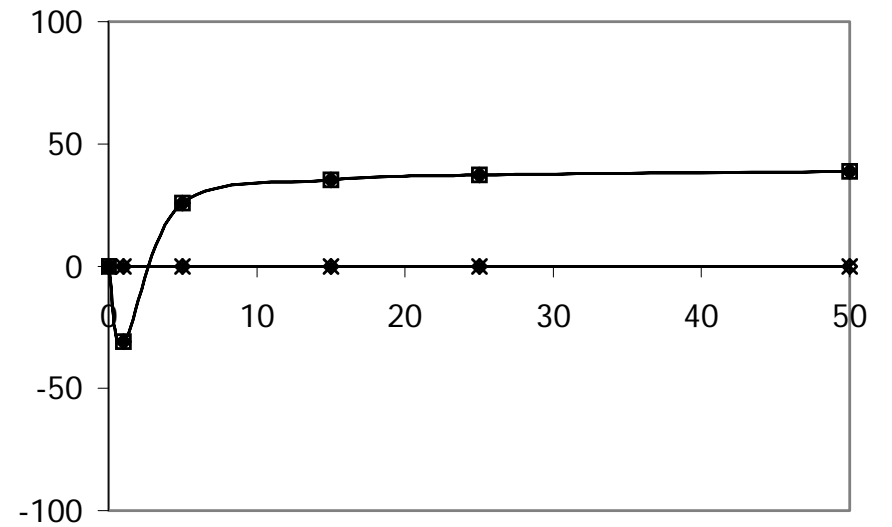


Figure I-35. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 62.5R.

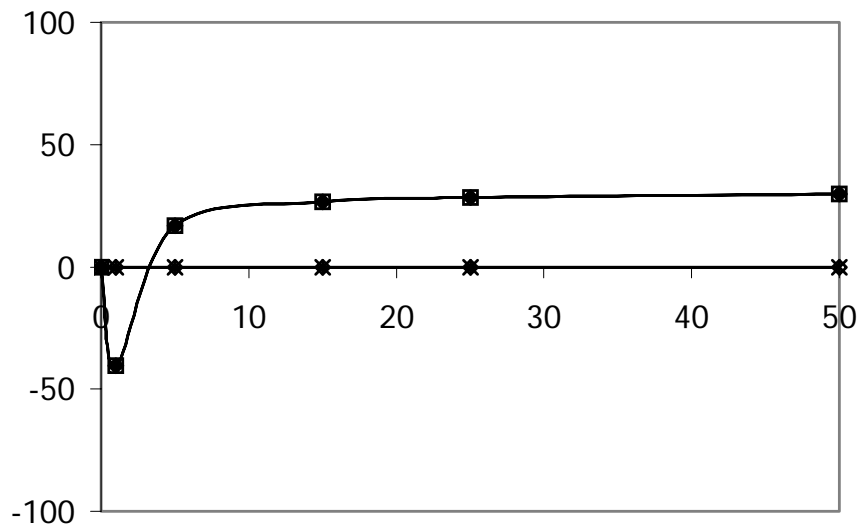
FALL



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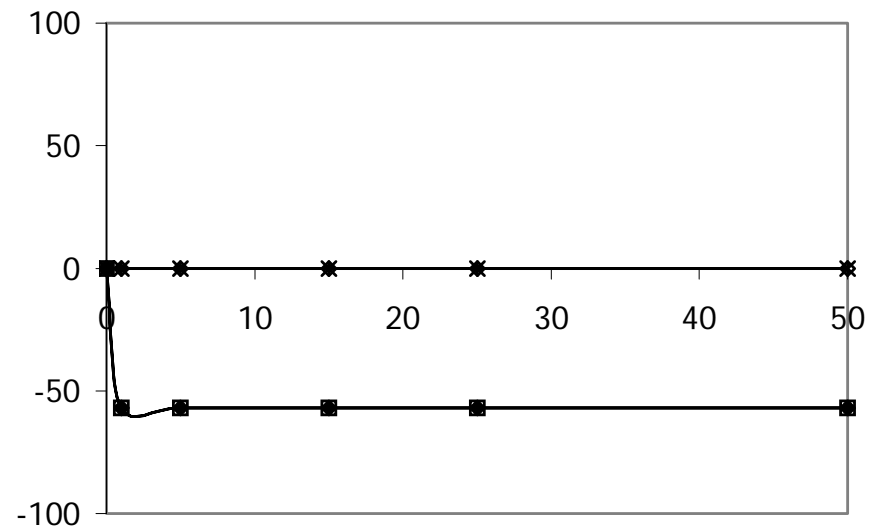
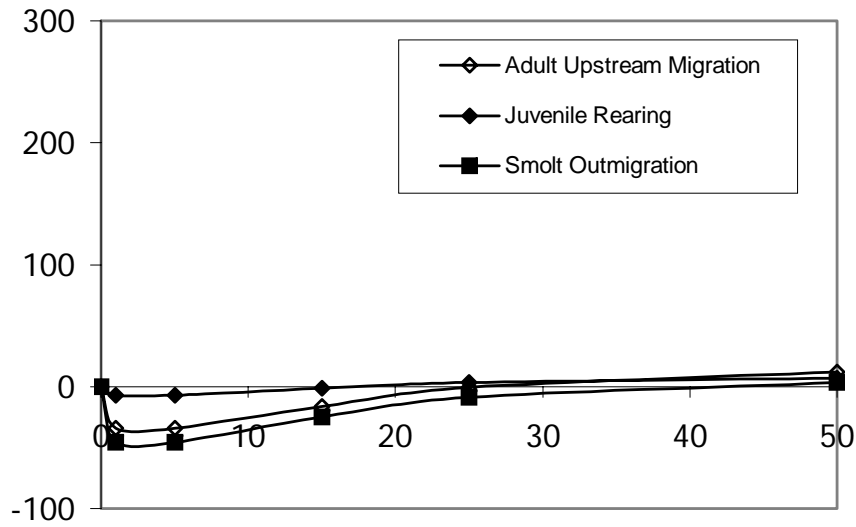
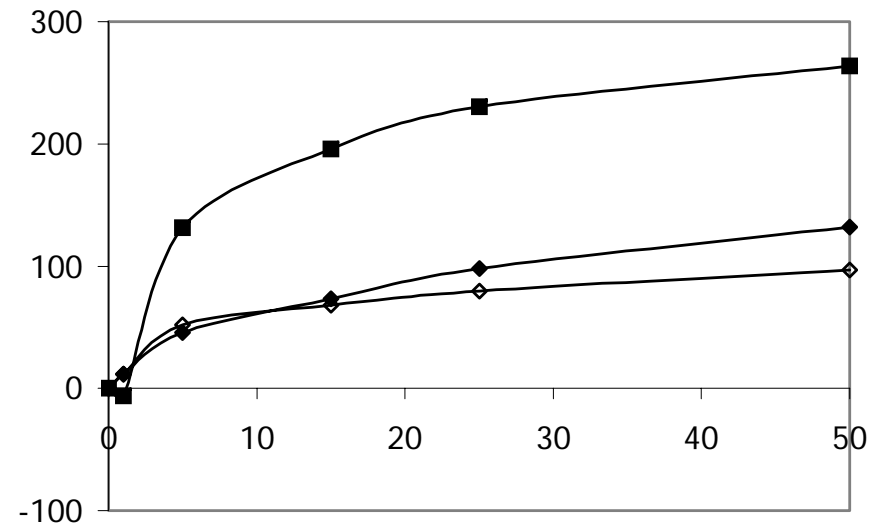


Figure I-36. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 62.5R.

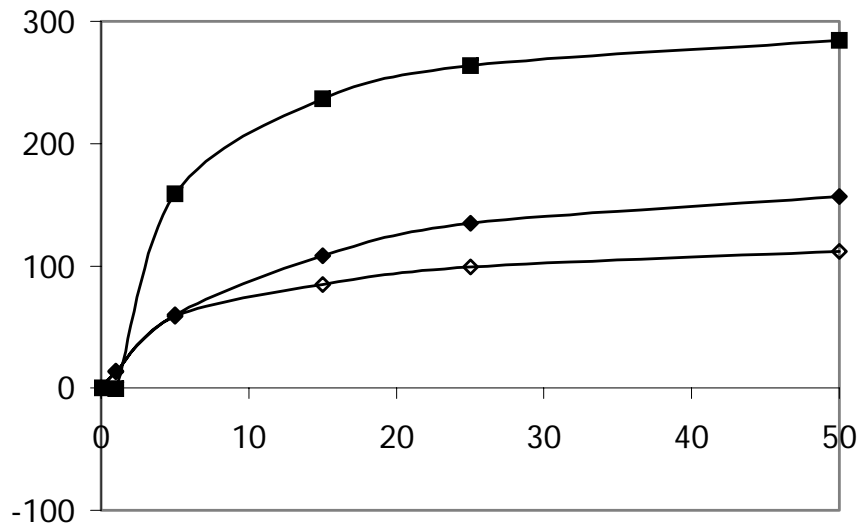
FALL



WINTER



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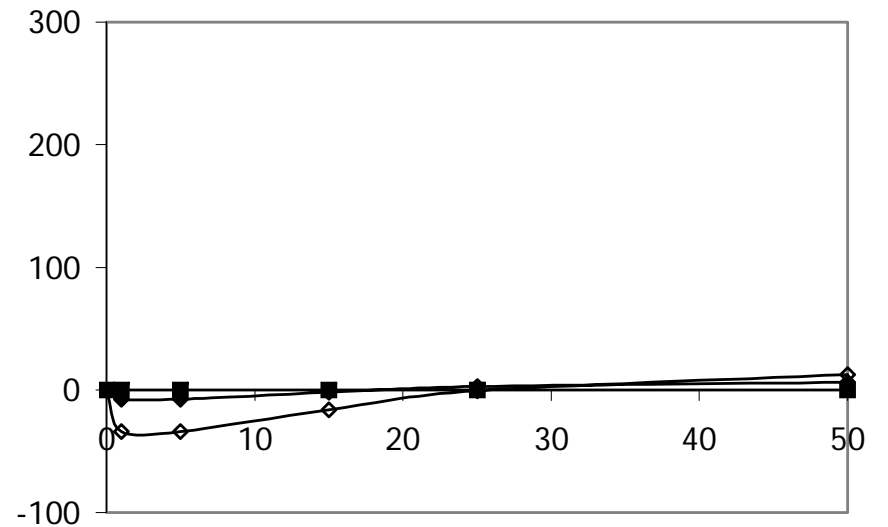
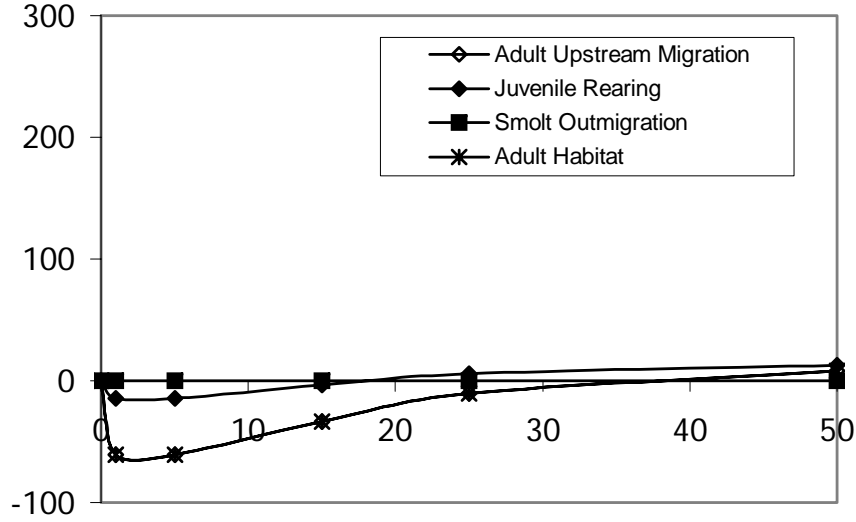
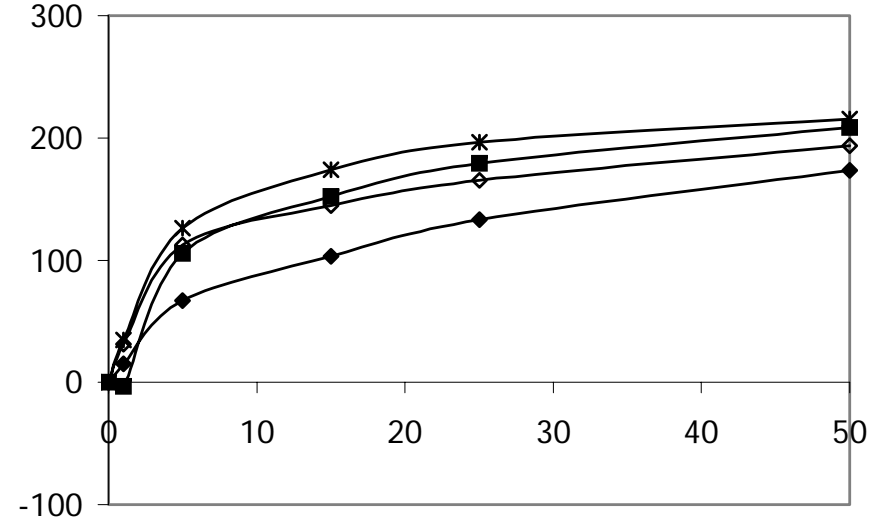


Figure I-37. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 68.9L.

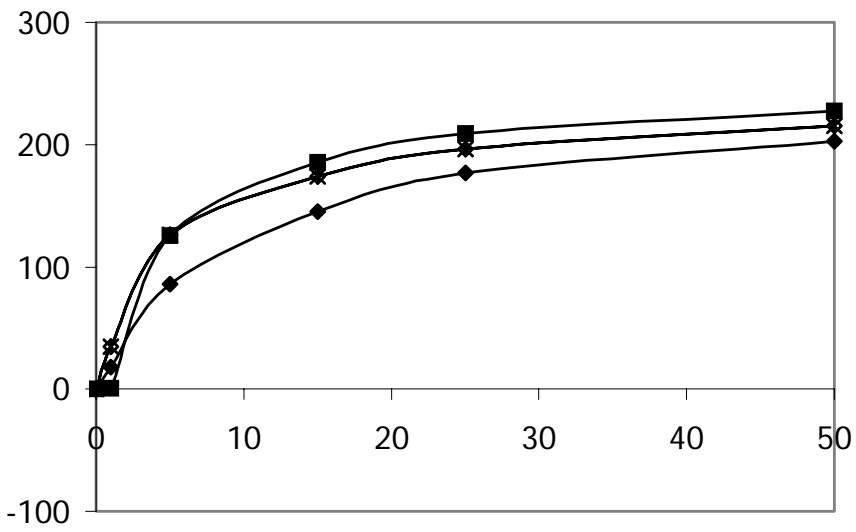
FALL



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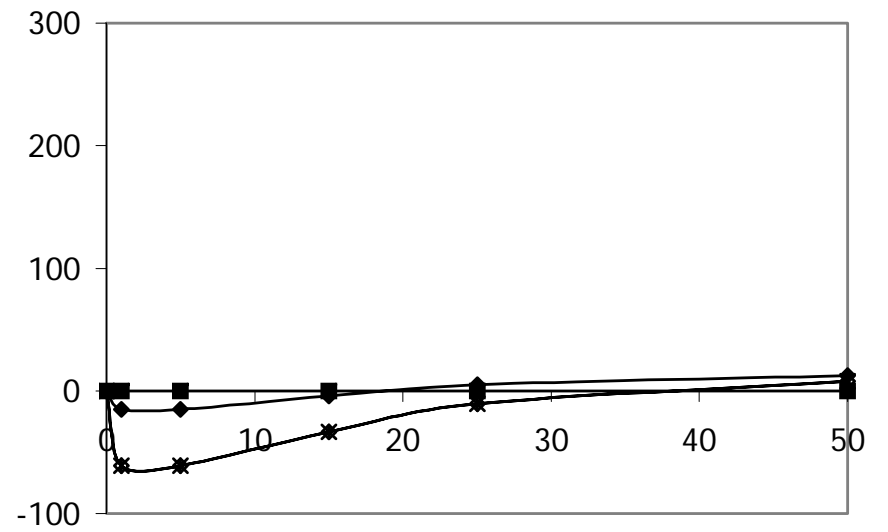
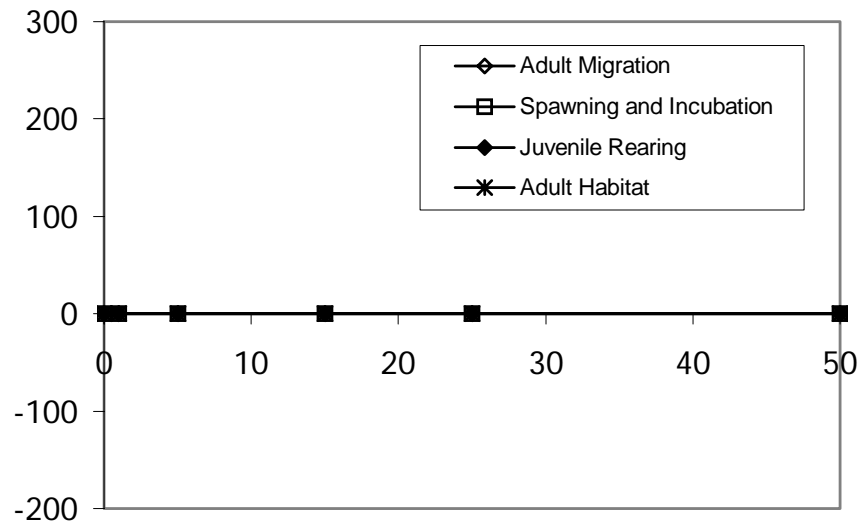
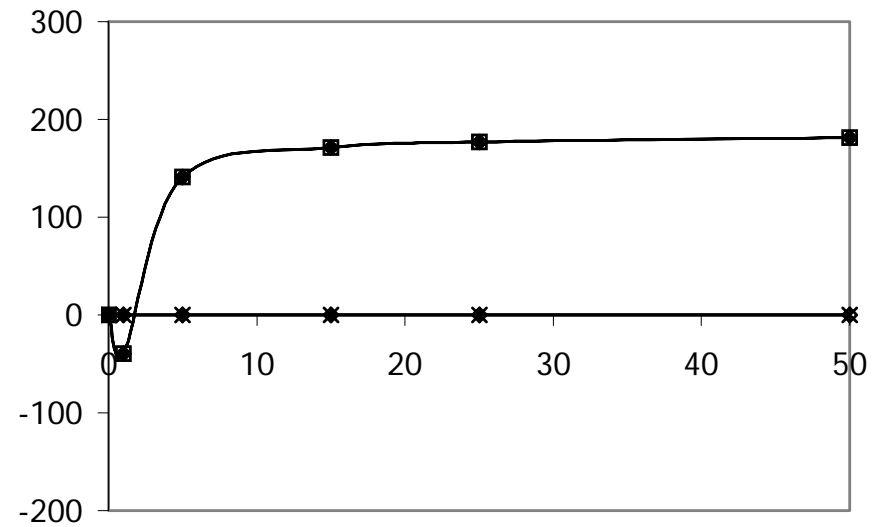


Figure I-38. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 68.9L.

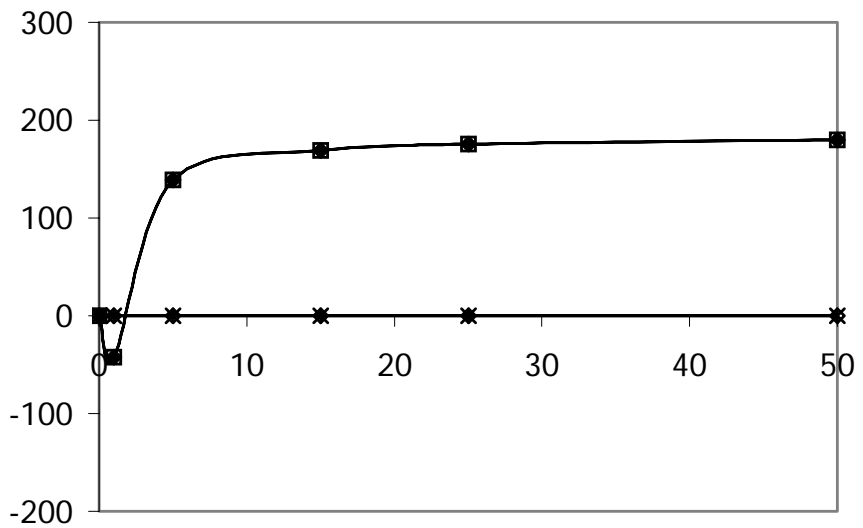
FALL



WINTER



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SUMMER

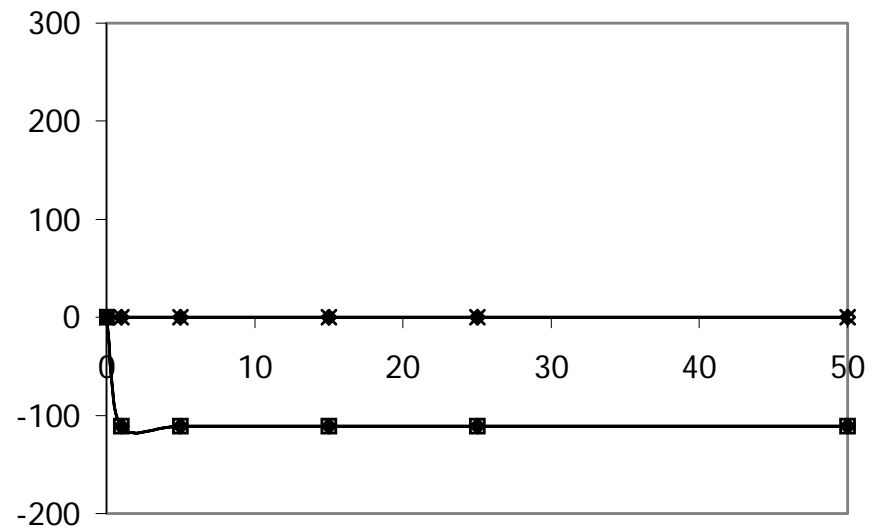
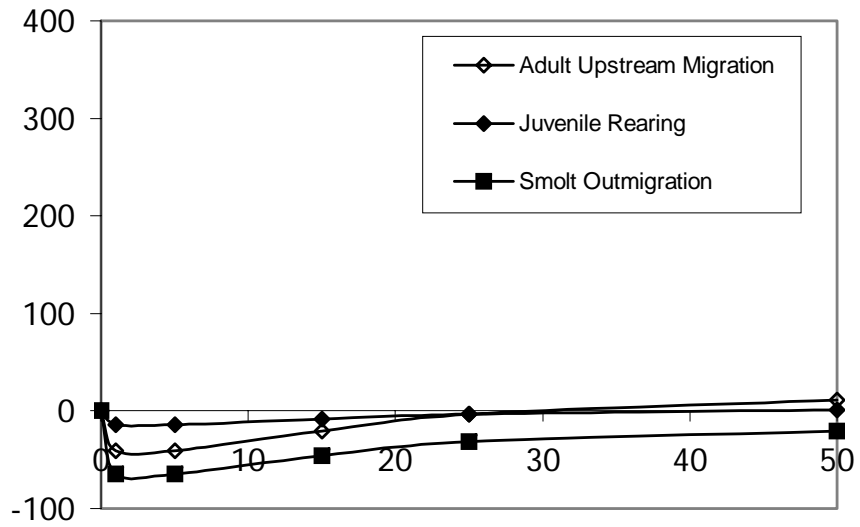
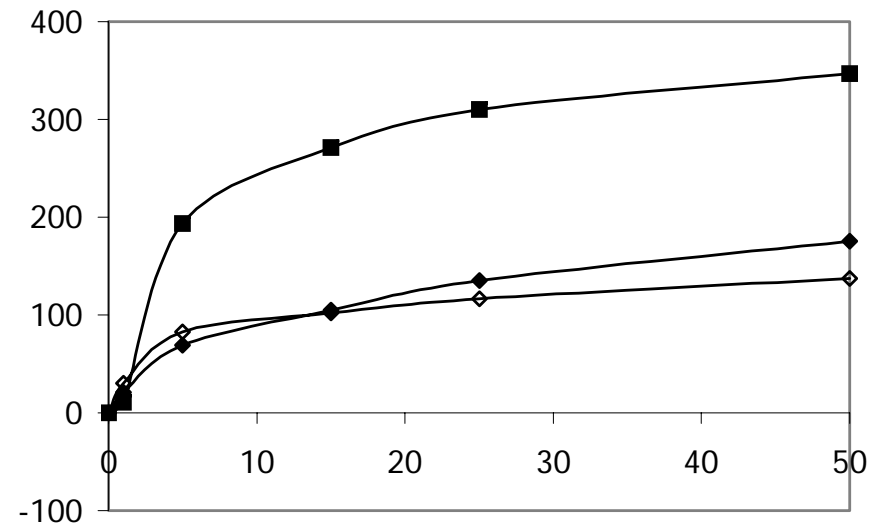


Figure I-39. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 68.9L.

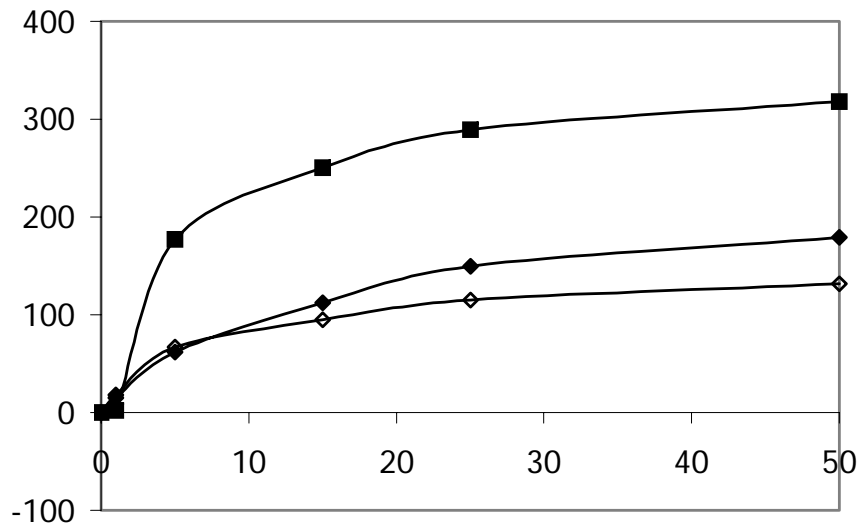
FALL



WINTER



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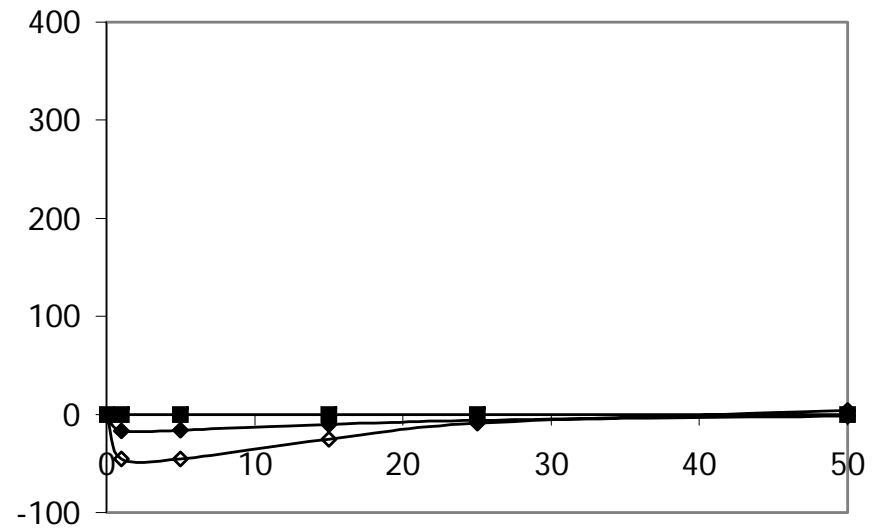
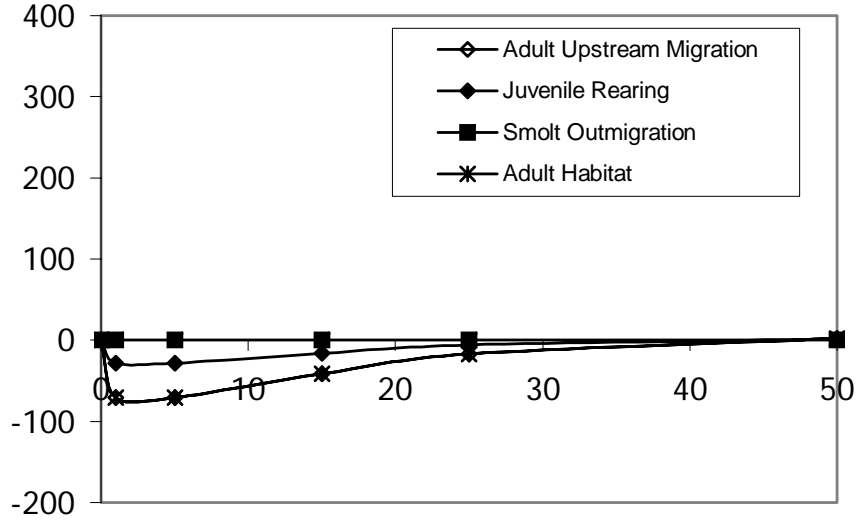
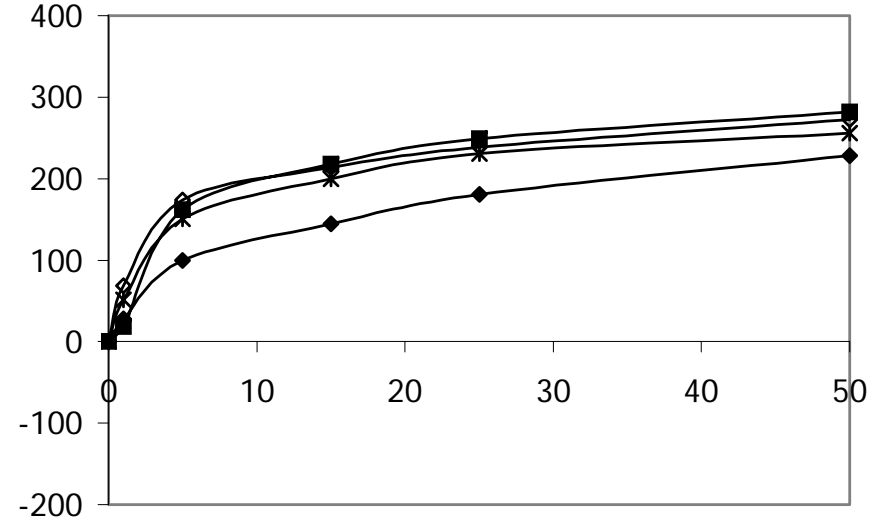


Figure I-40. SAM results showing bank-line weighted relative response (feet) for Chinook salmon (Winter-run shown) at Site RM 78.0L.

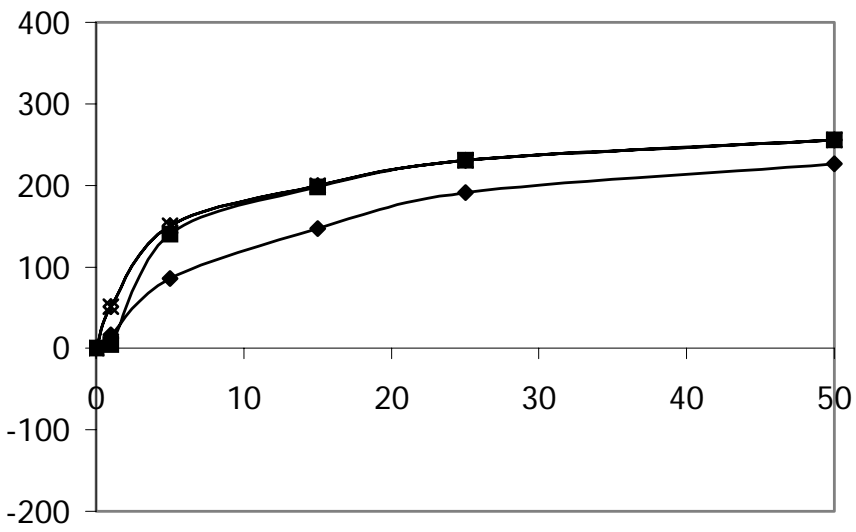
FALL



WINTER



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SUMMER

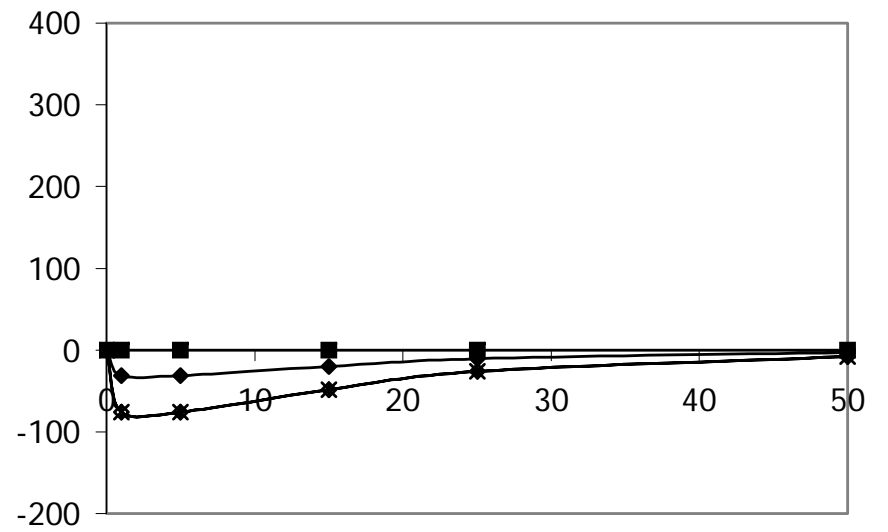
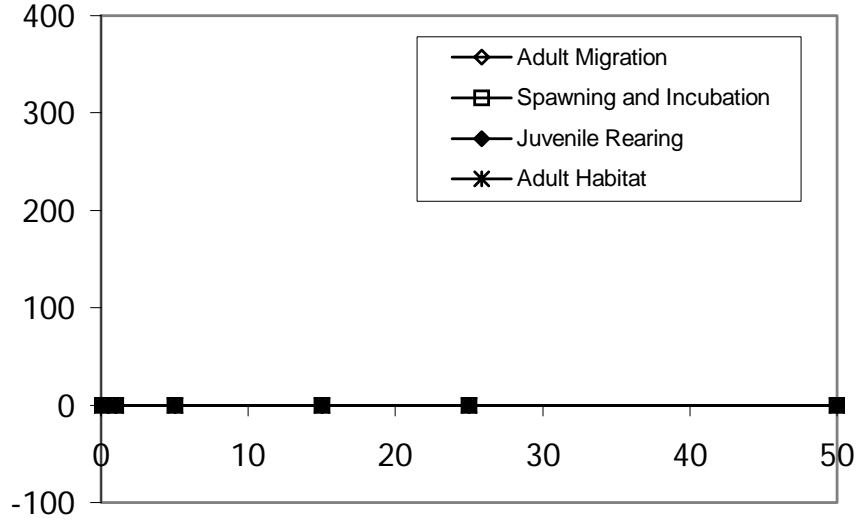
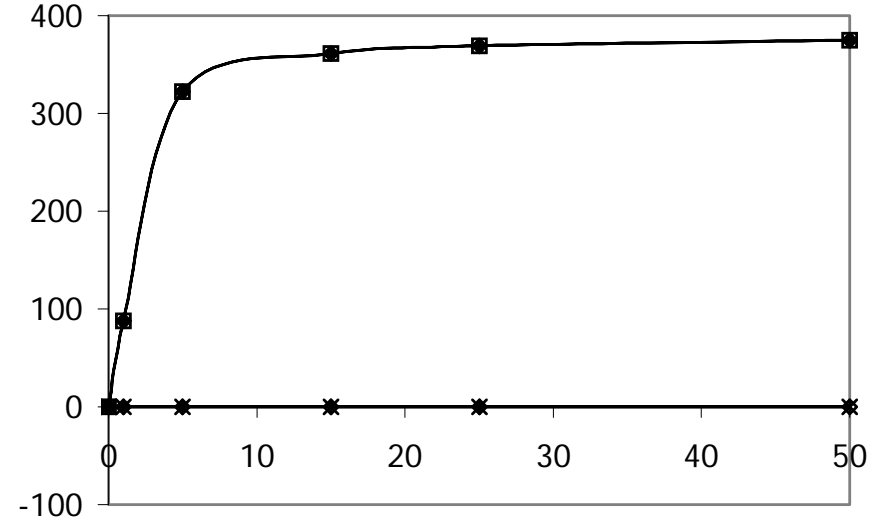


Figure I-41. SAM results showing bank-line weighted relative response (feet) for Central Valley steelhead at Site RM 78.0L.

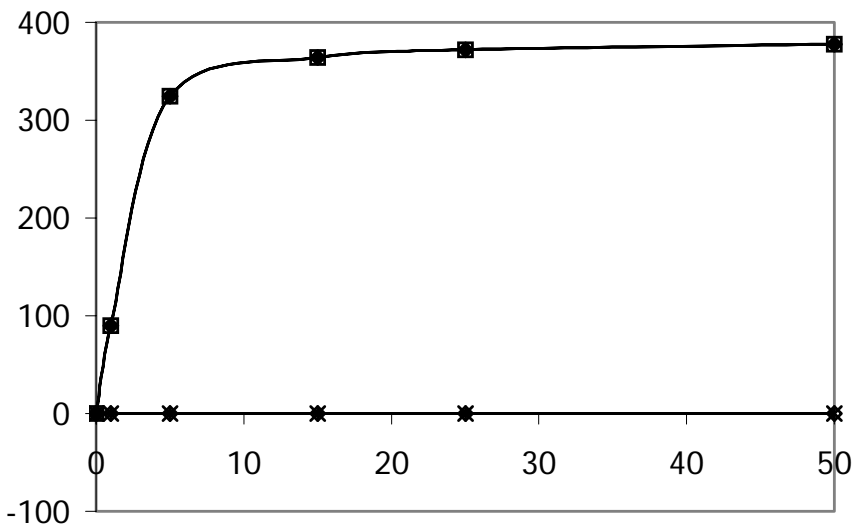
FALL



WINTER



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SUMMER

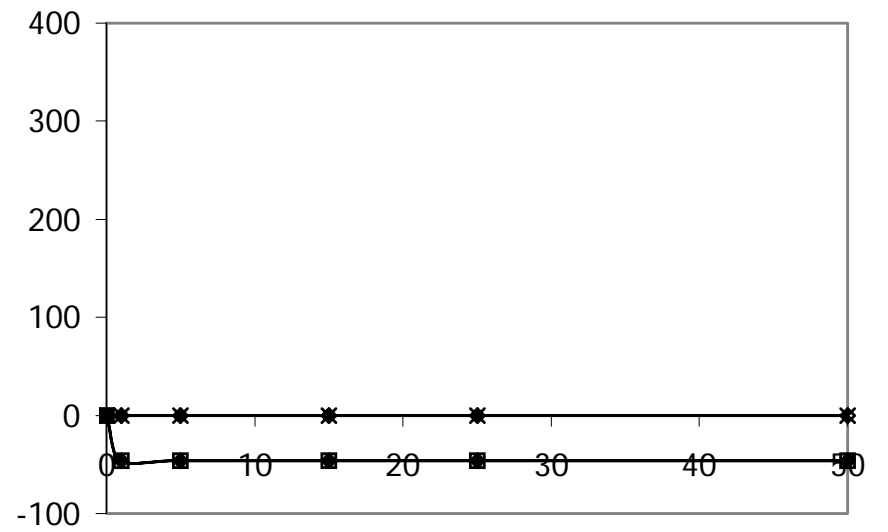
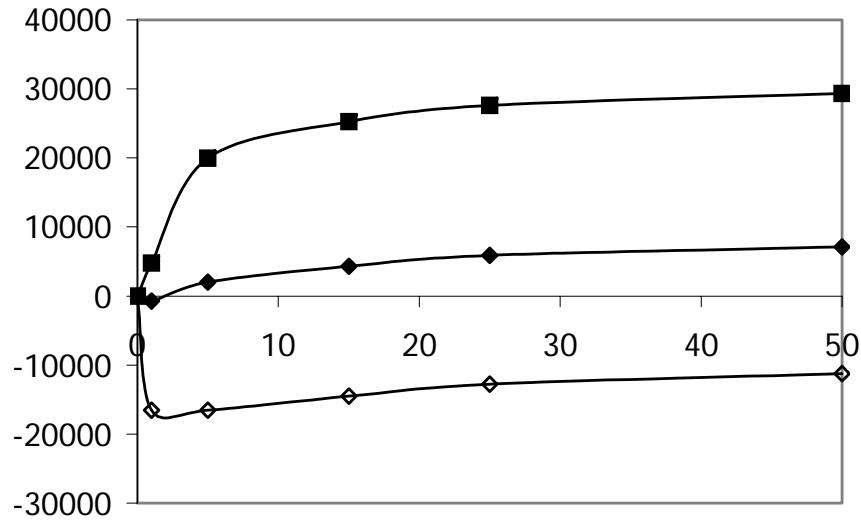
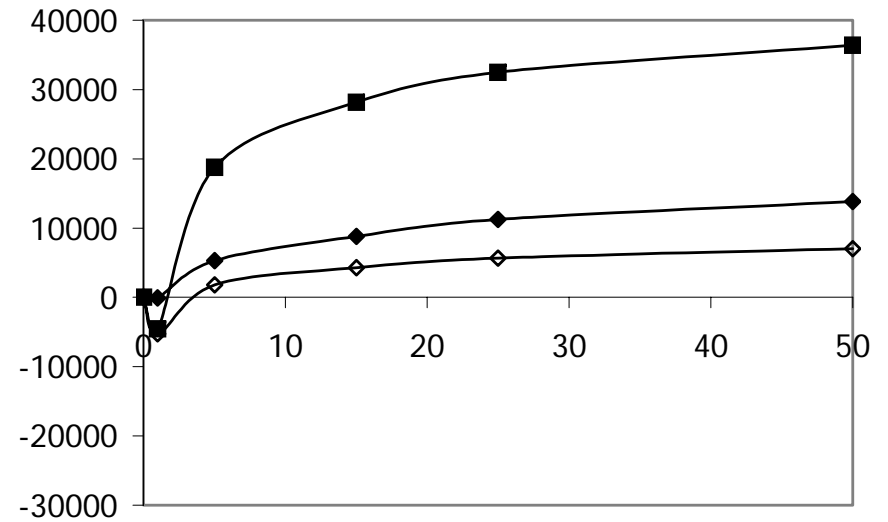


Figure I-42. SAM results showing bank-line weighted relative response (feet) for Delta smelt at Site RM 78.0L.

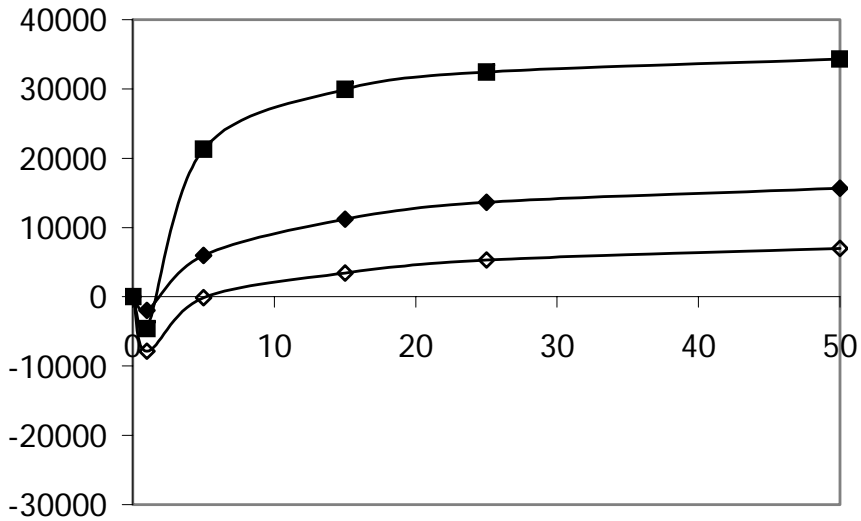
FALL



WINTER



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SUMMER

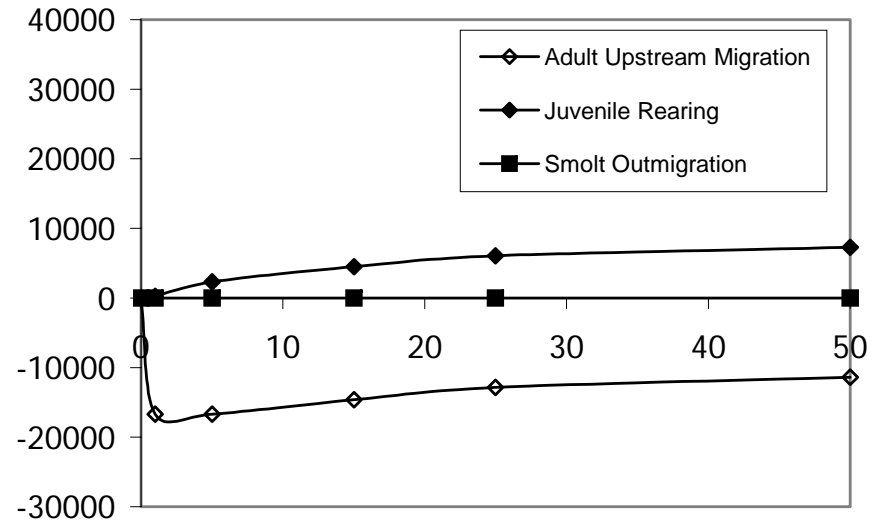
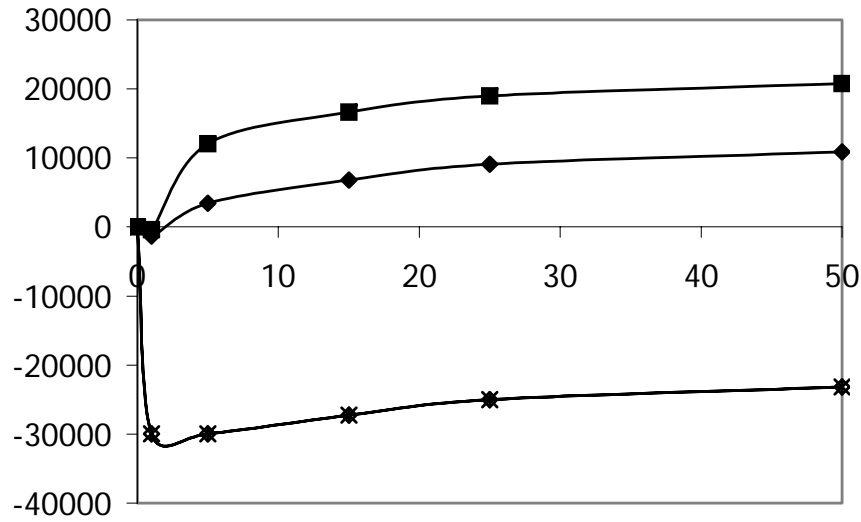
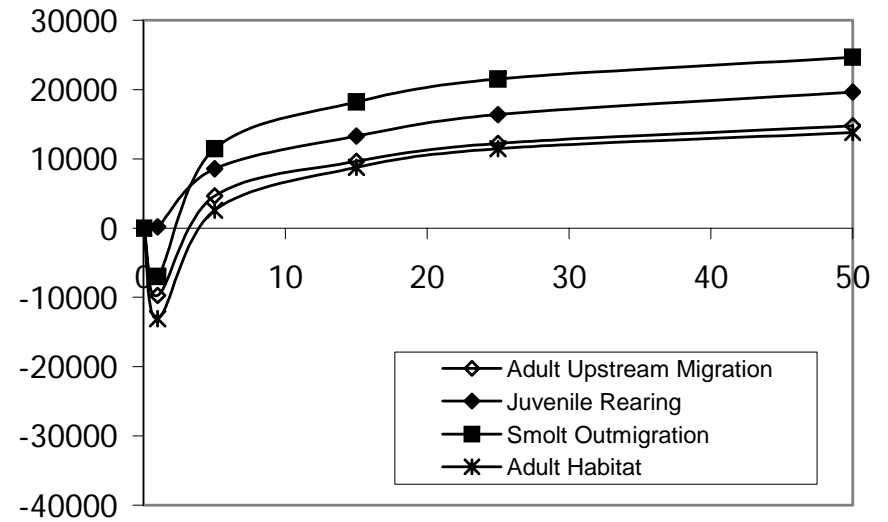


Figure I-43. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 16.9L.

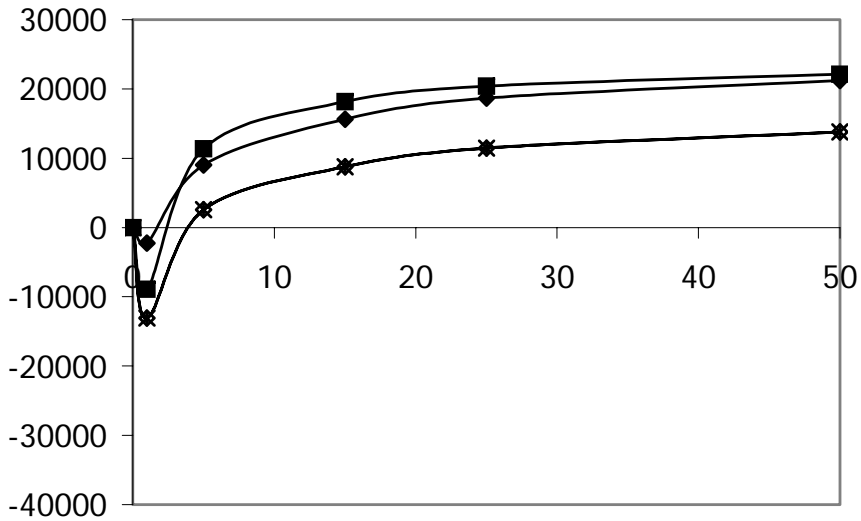
FALL



WINTER



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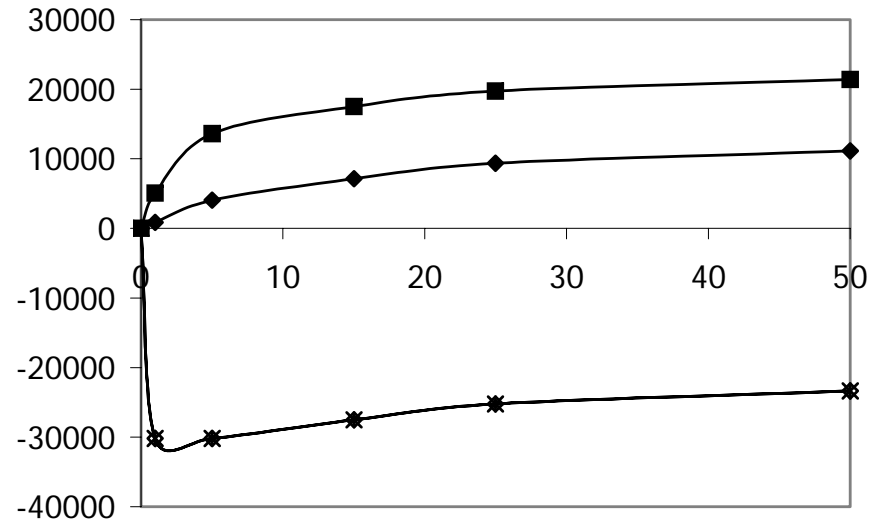
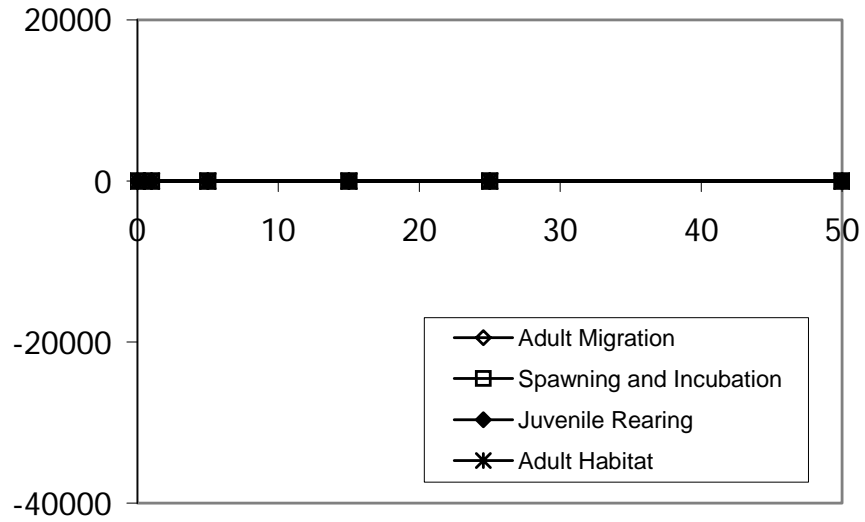
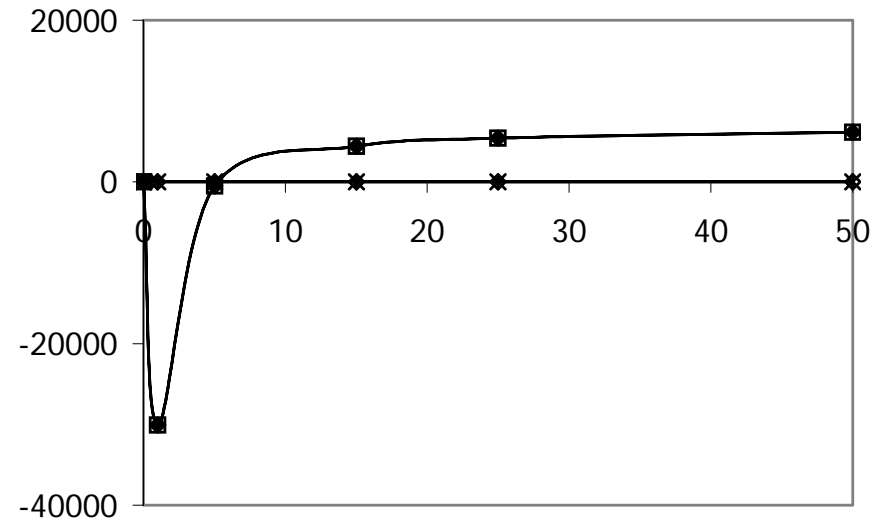


Figure I-44. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 16.9L.

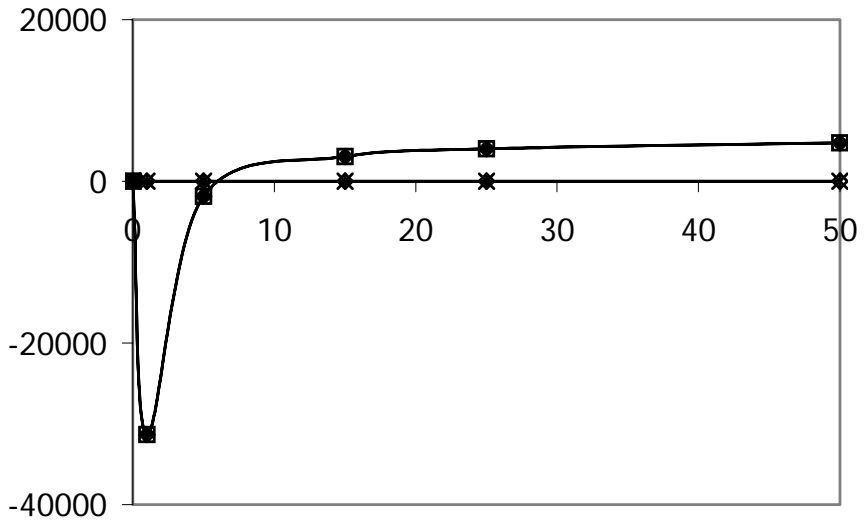
FALL



WINTER



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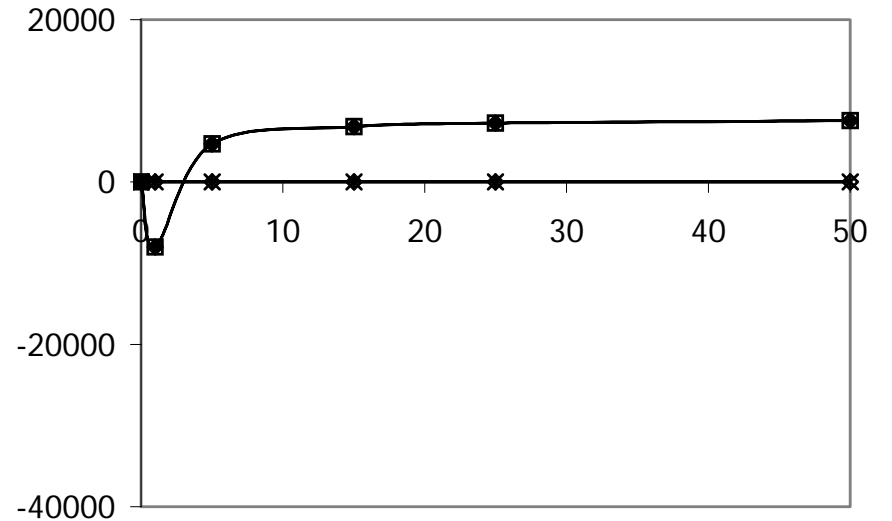
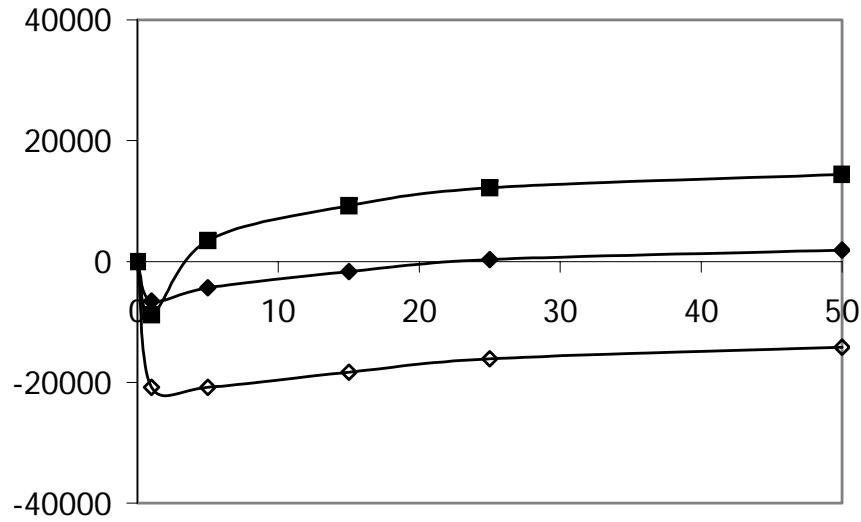
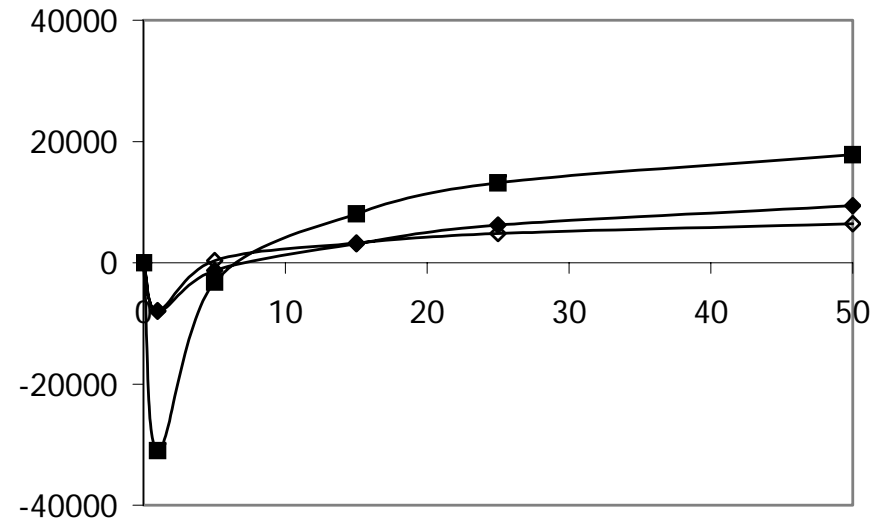


Figure I-45. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 16.9L.

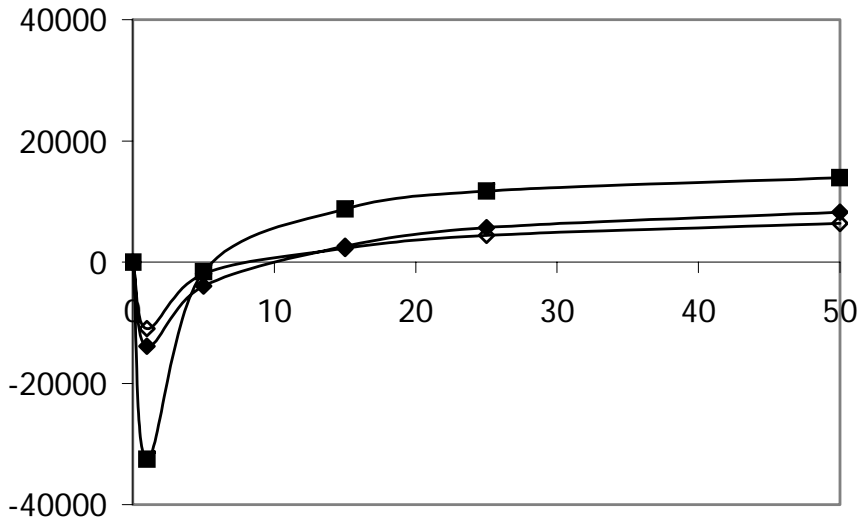
FALL



WINTER



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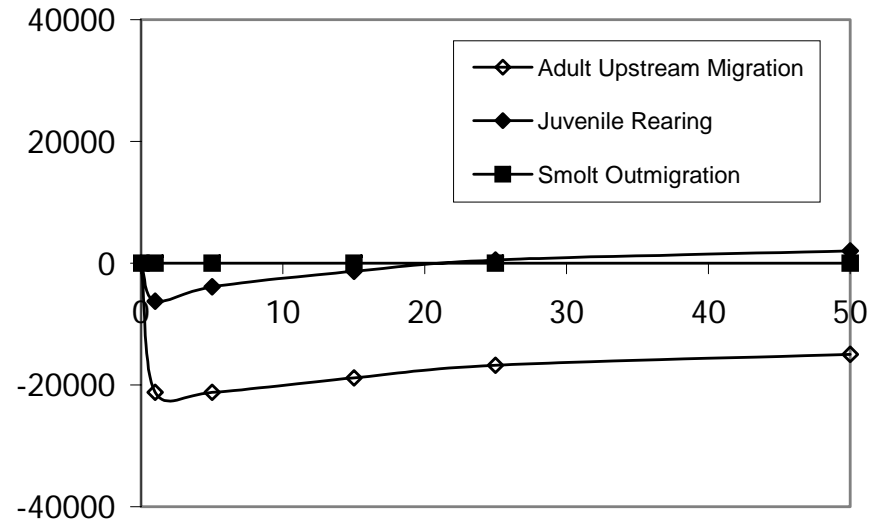
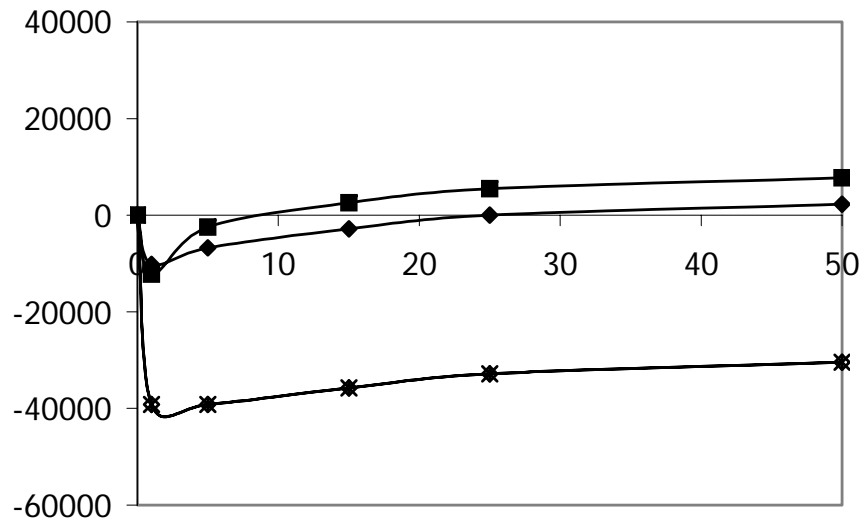
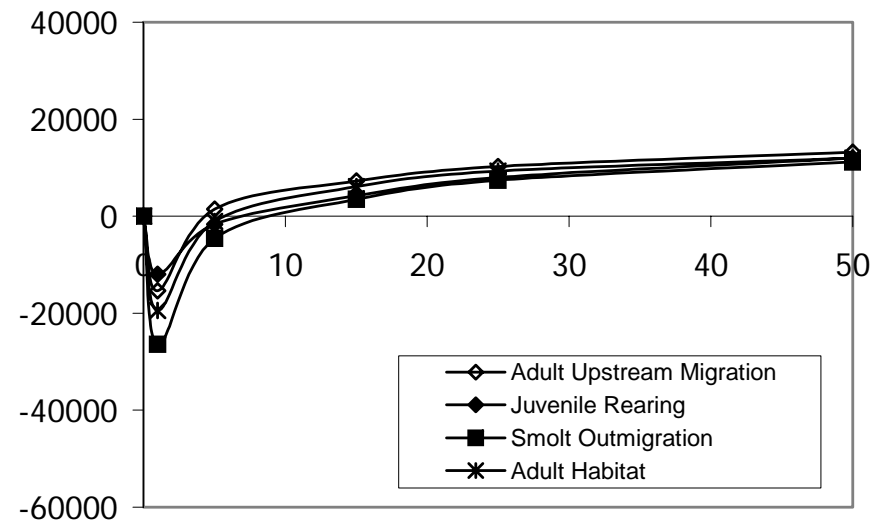


Figure I-46. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 19.0R.

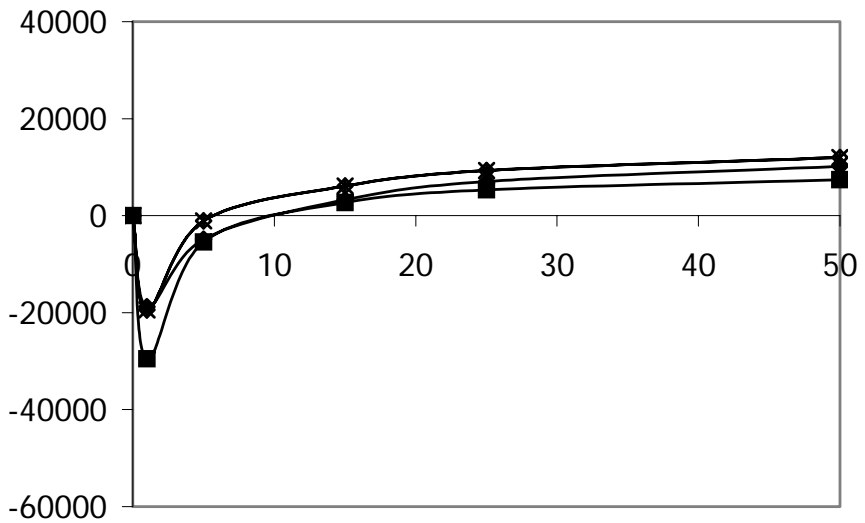
FALL



WINTER



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SUMMER

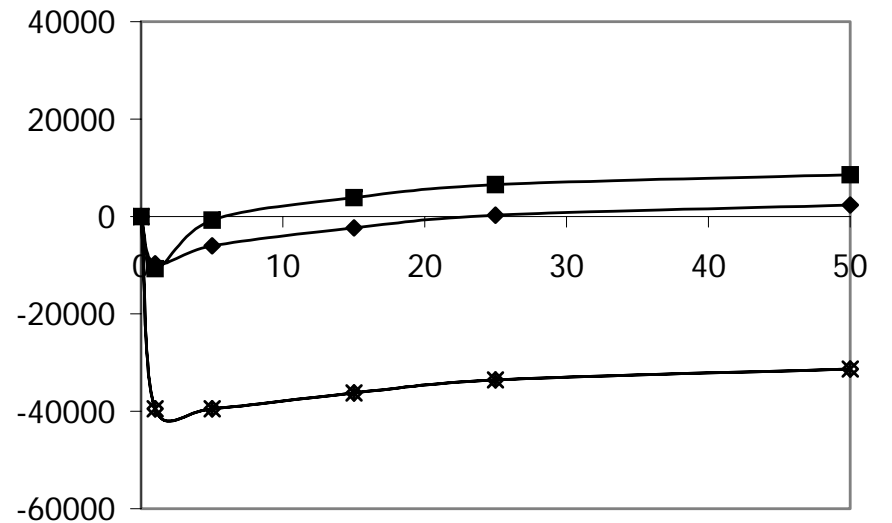
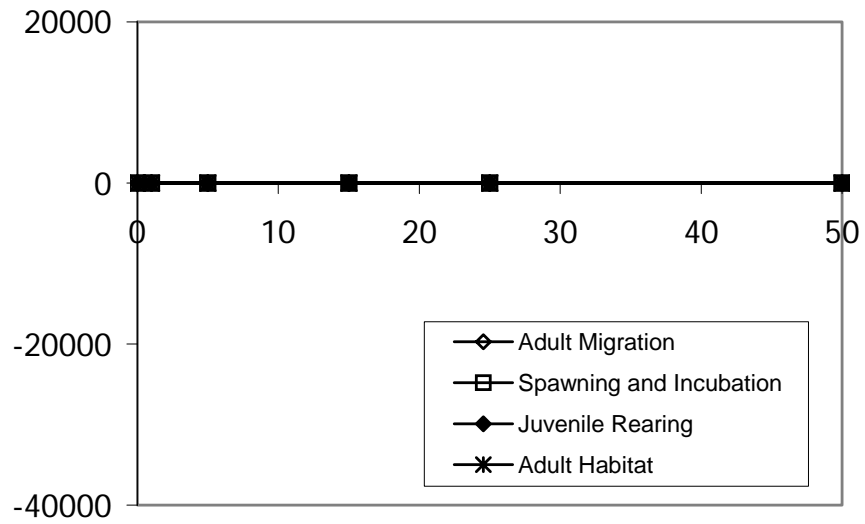
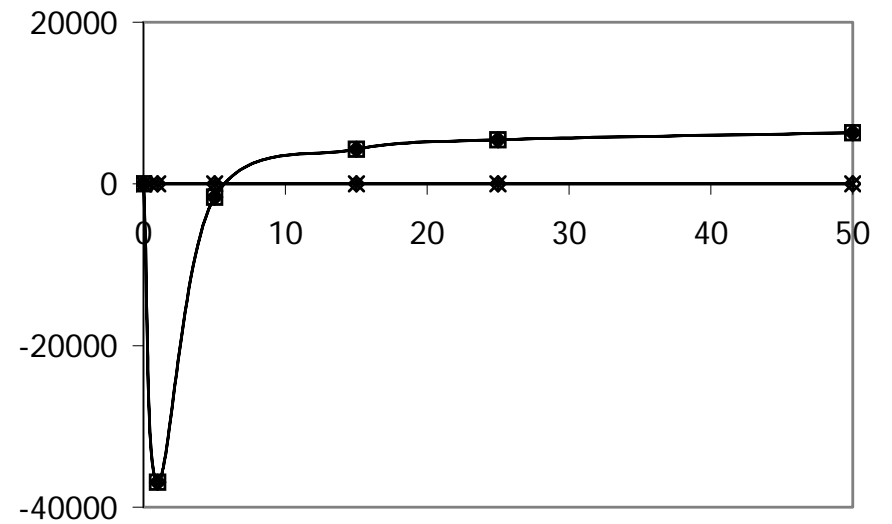


Figure I-47. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 19.0R.

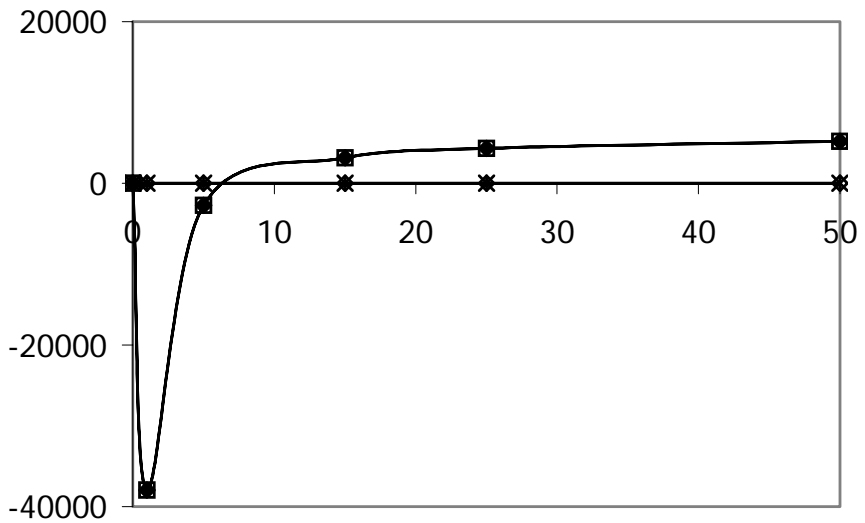
FALL



WINTER



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SUMMER

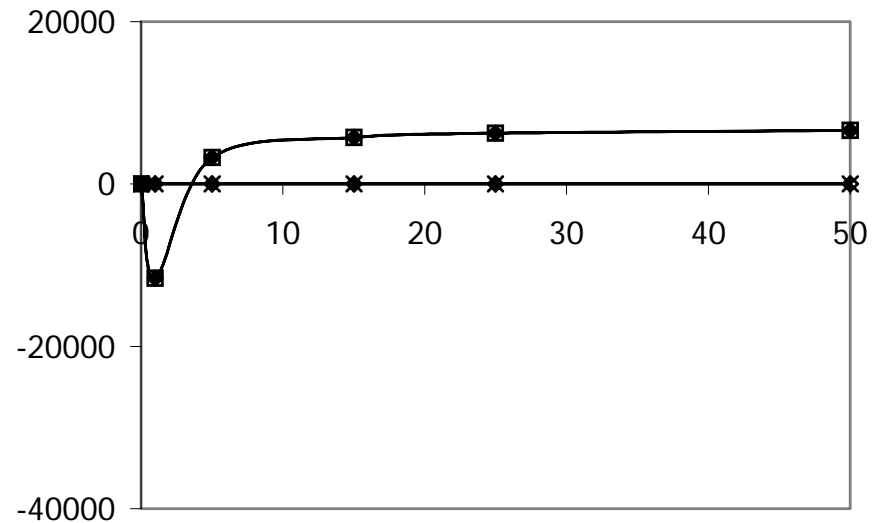
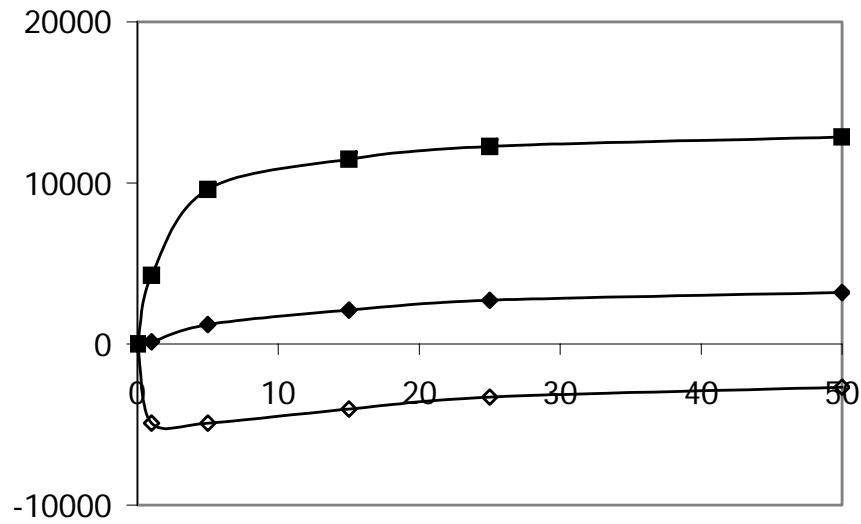
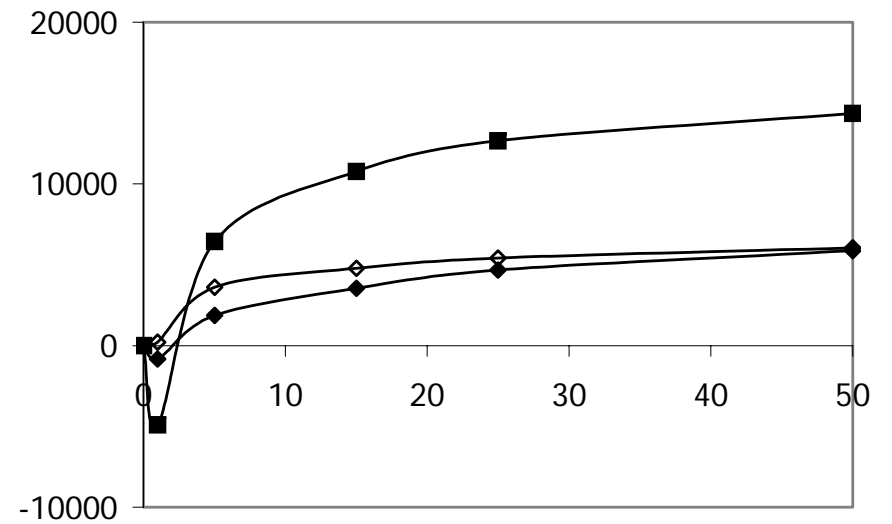


Figure I-48. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 19.0R.

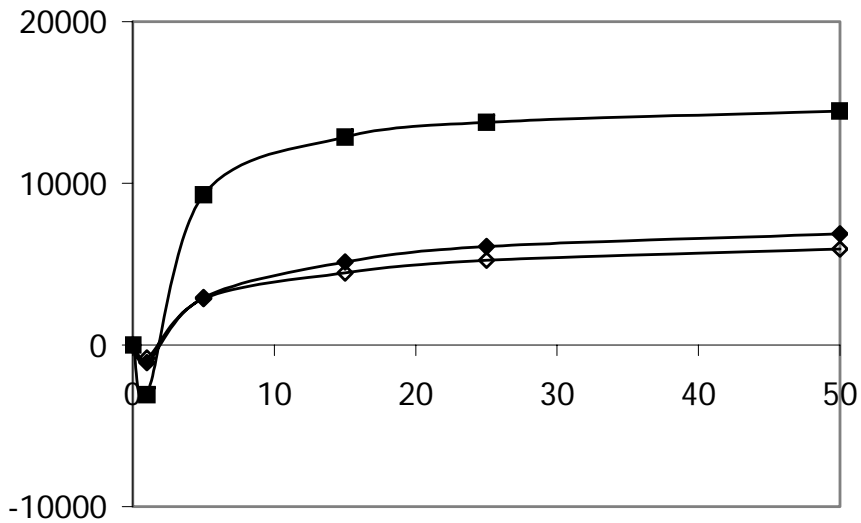
FALL



WINTER



SPRING



SUMMER

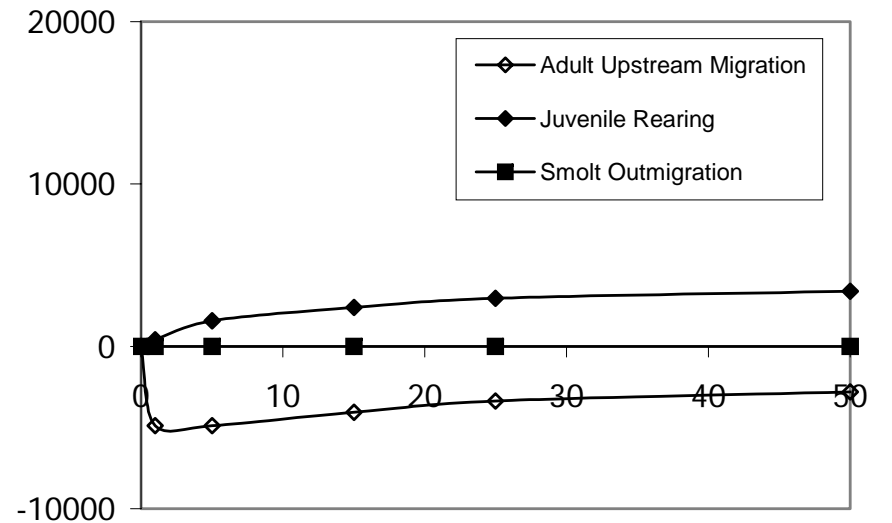
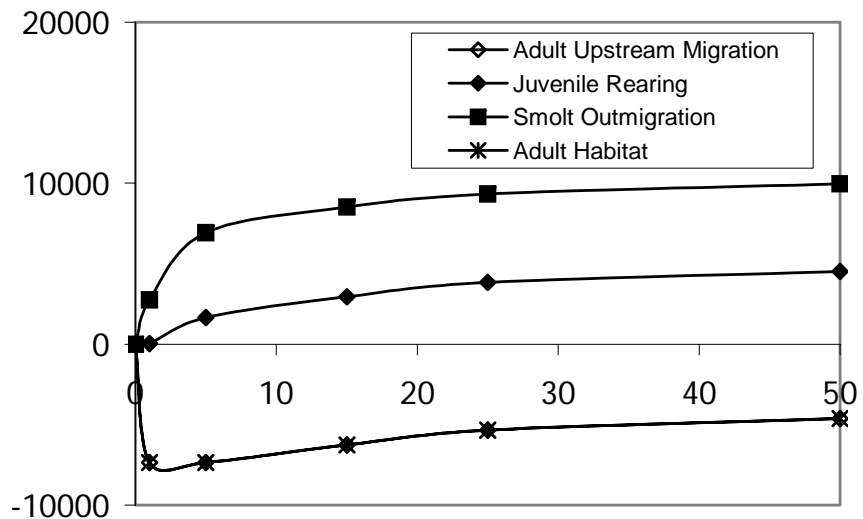
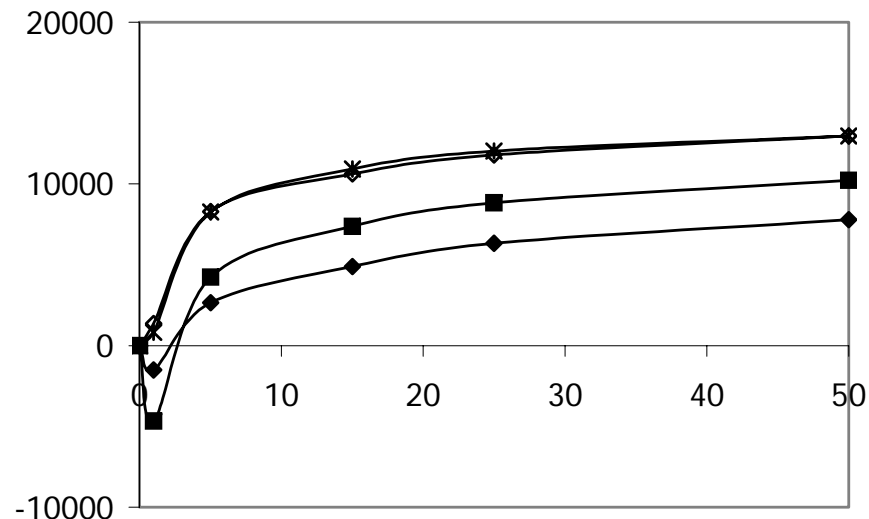


Figure I-49. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 19.4R.

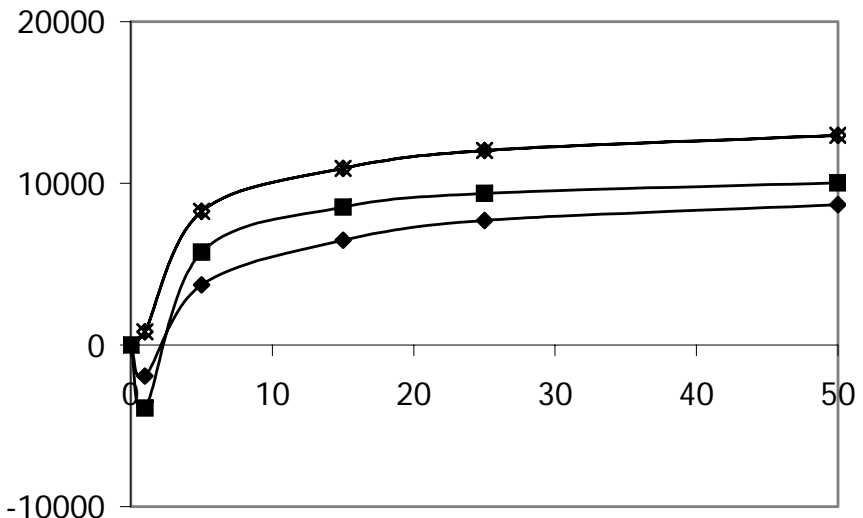
FALL



WINTER



SPRING



SUMMER

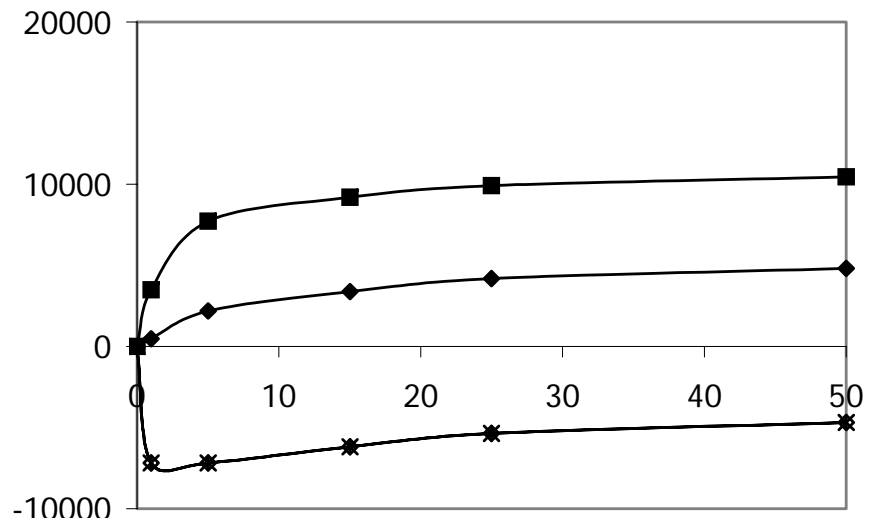
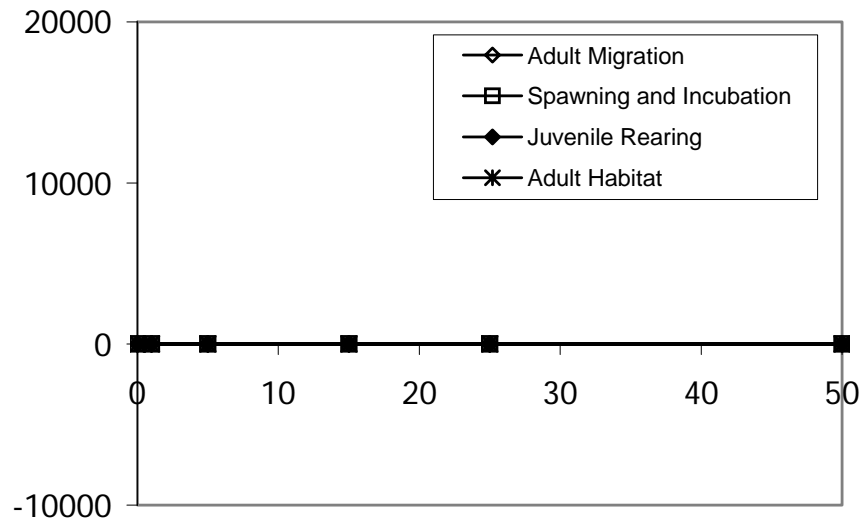
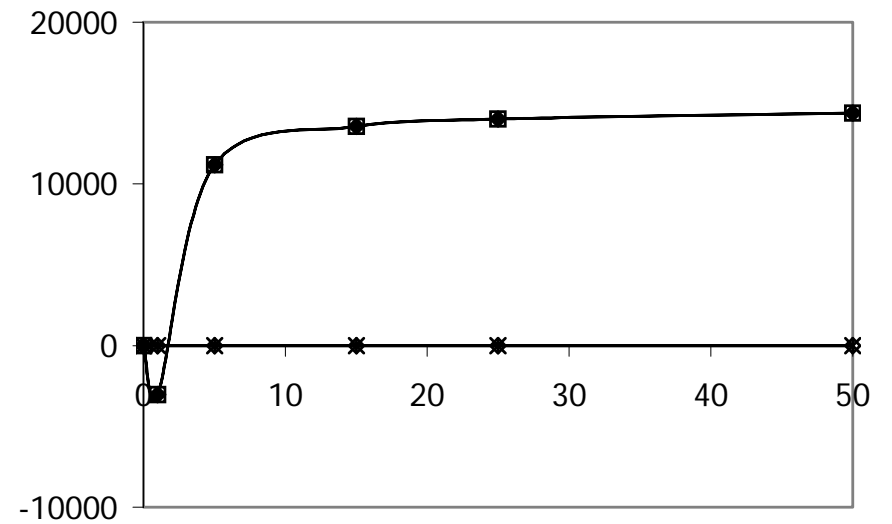


Figure I-50. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 19.4R.

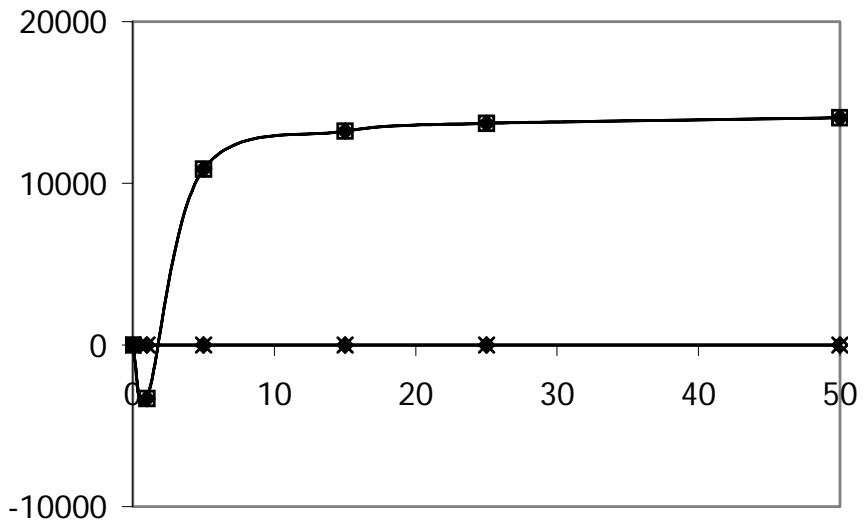
FALL



WINTER



SPRING



SUMMER

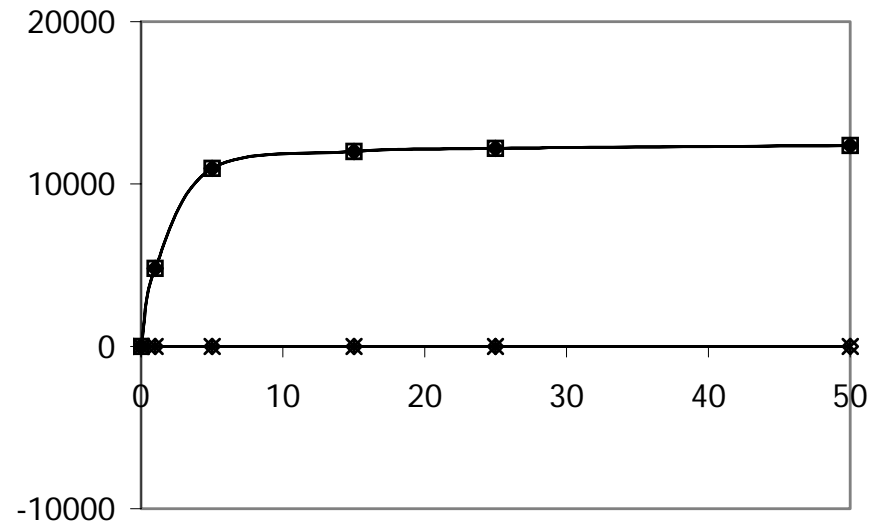
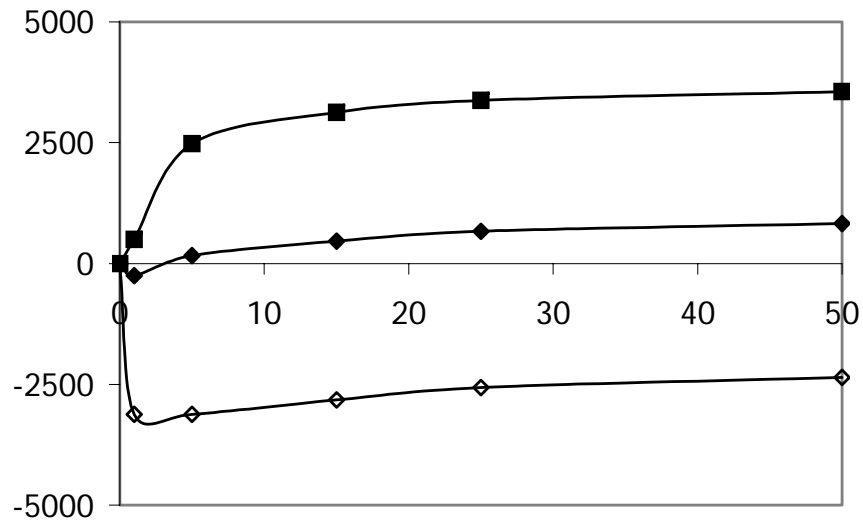
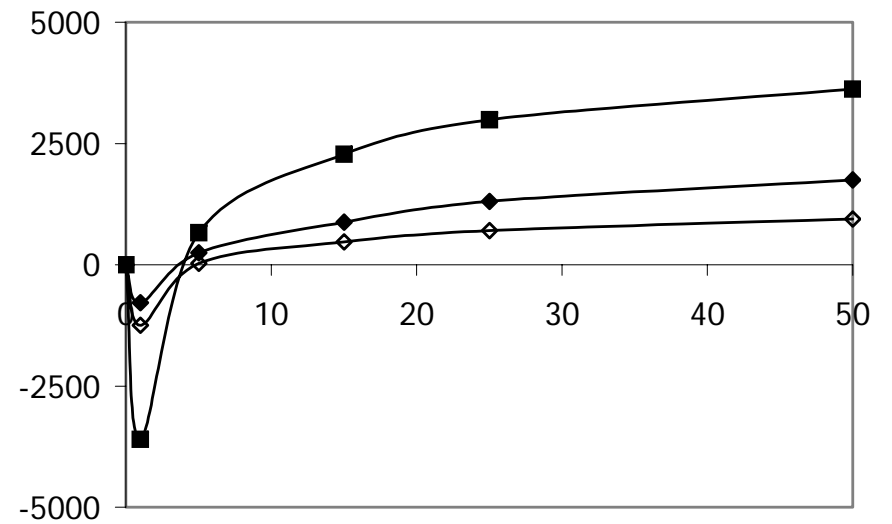


Figure I-51. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 19.4R.

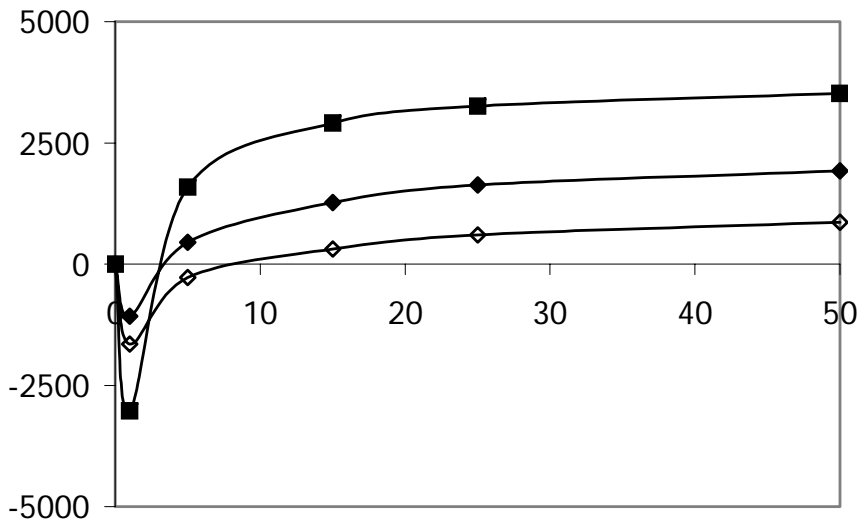
FALL



WINTER



SPRING



SUMMER

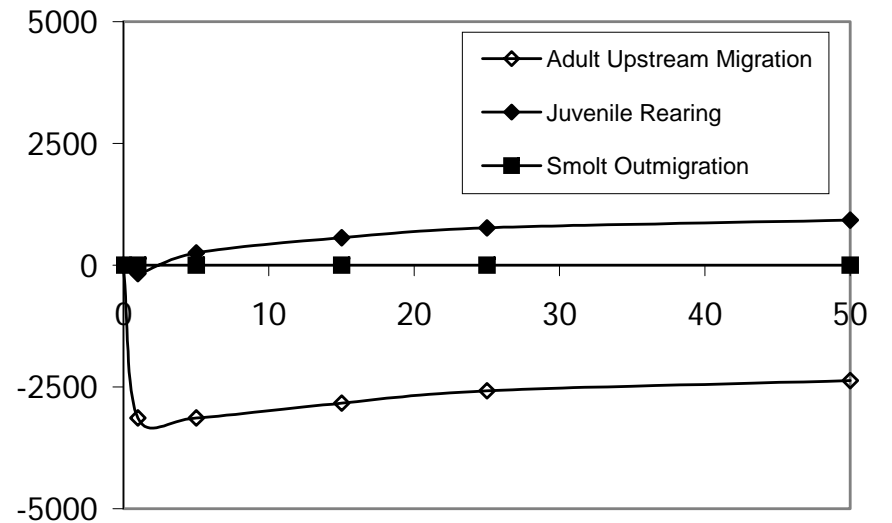
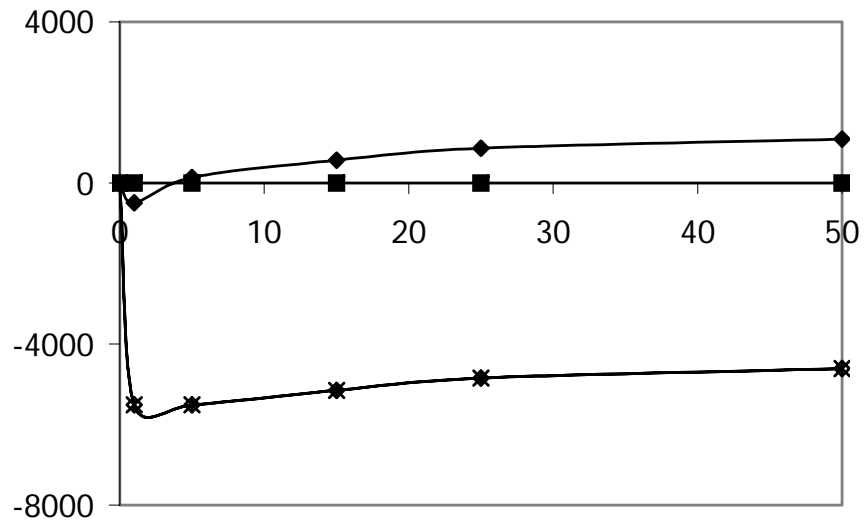
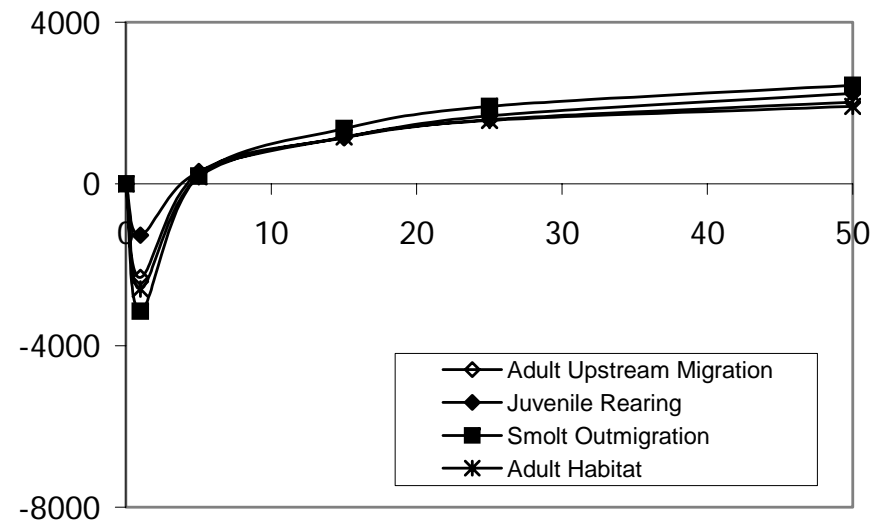


Figure I-52. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 22.7R.

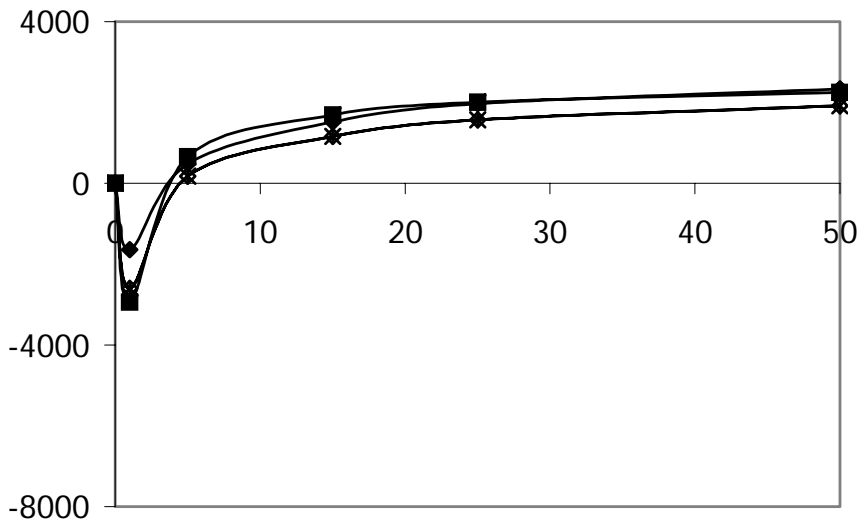
FALL



WINTER



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SUMMER

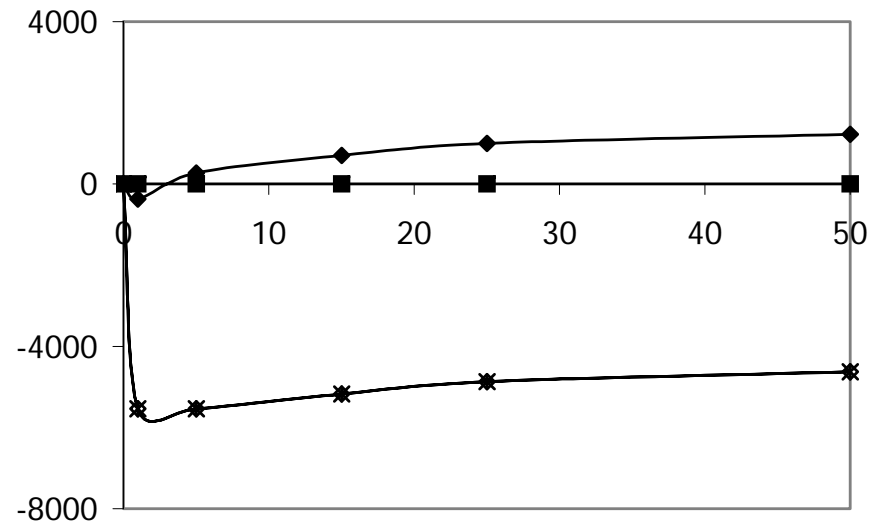
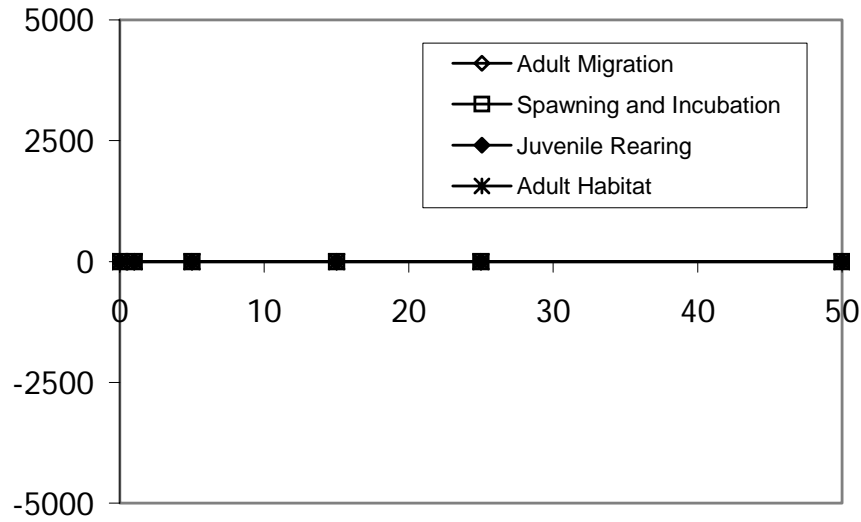
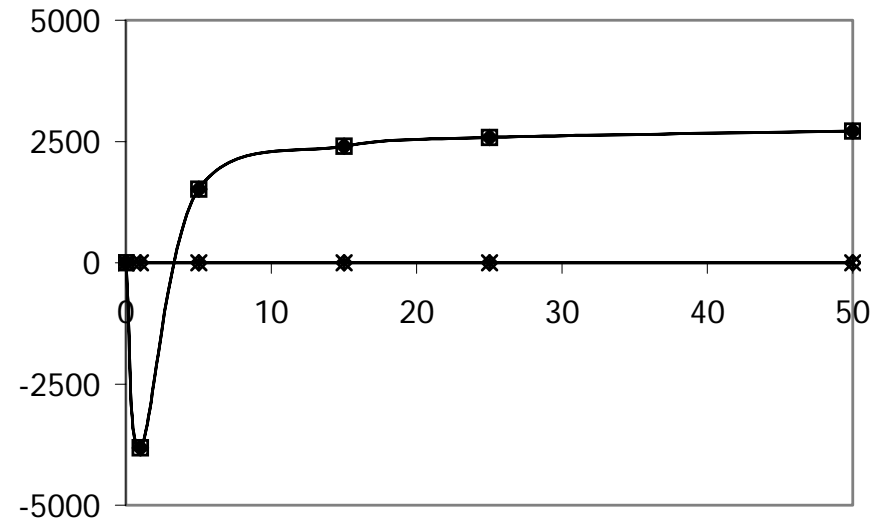


Figure I-53. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 22.7R.

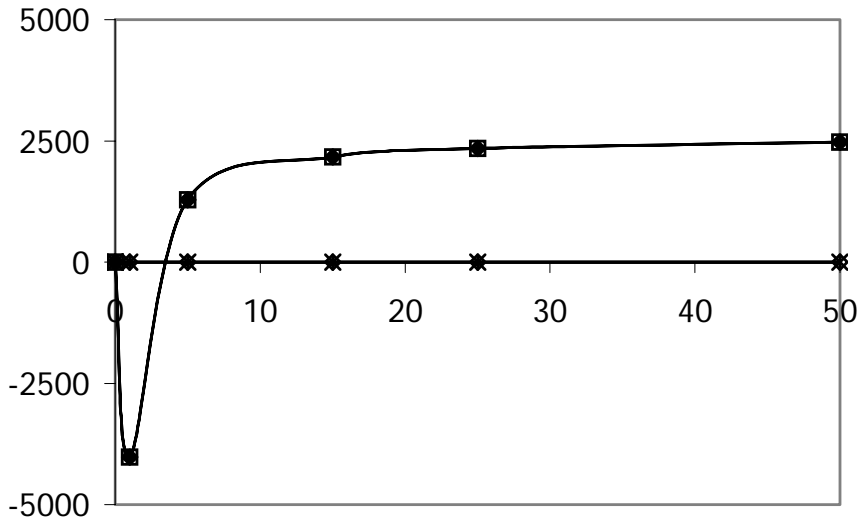
FALL



WINTER



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SUMMER

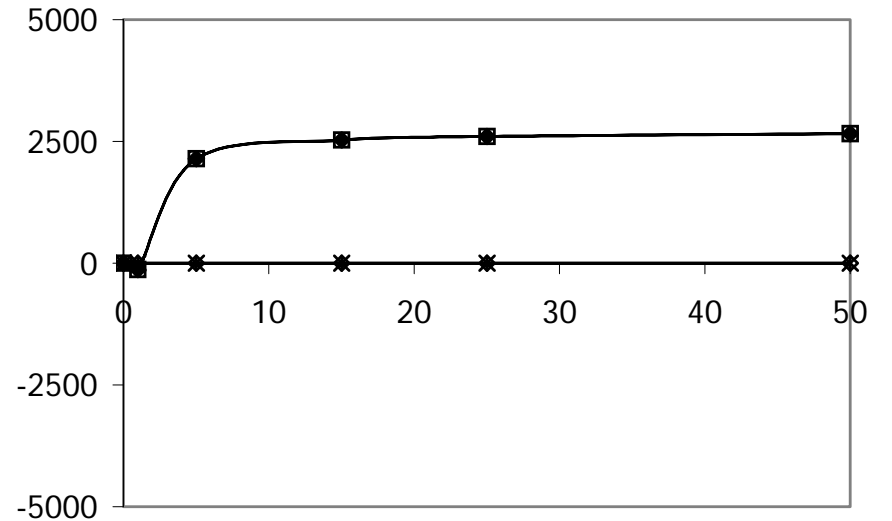
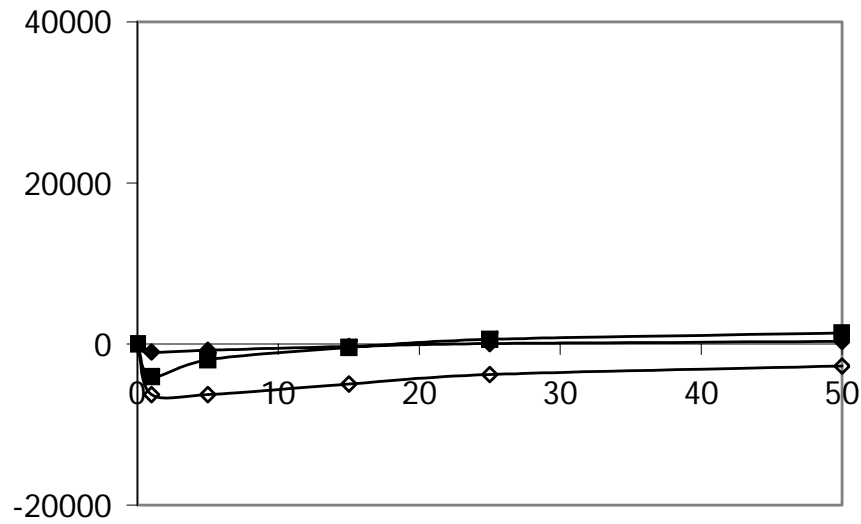
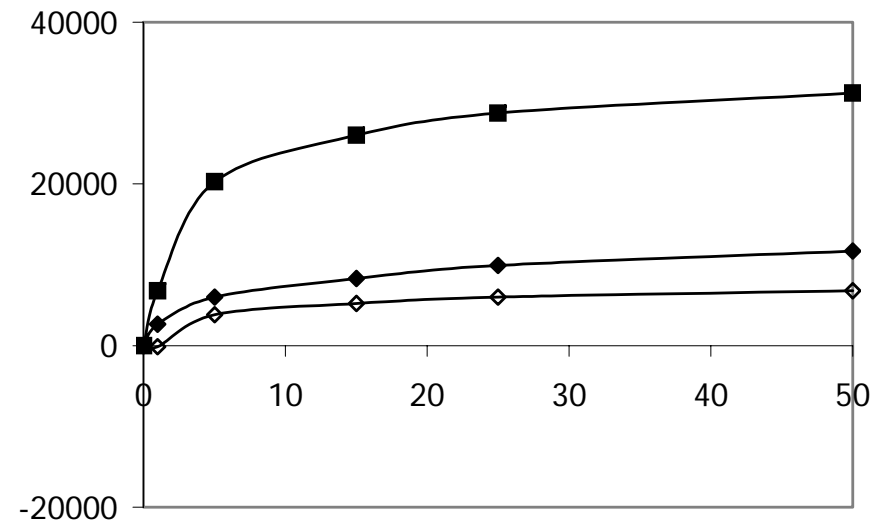


Figure I-54. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site 22.7R.

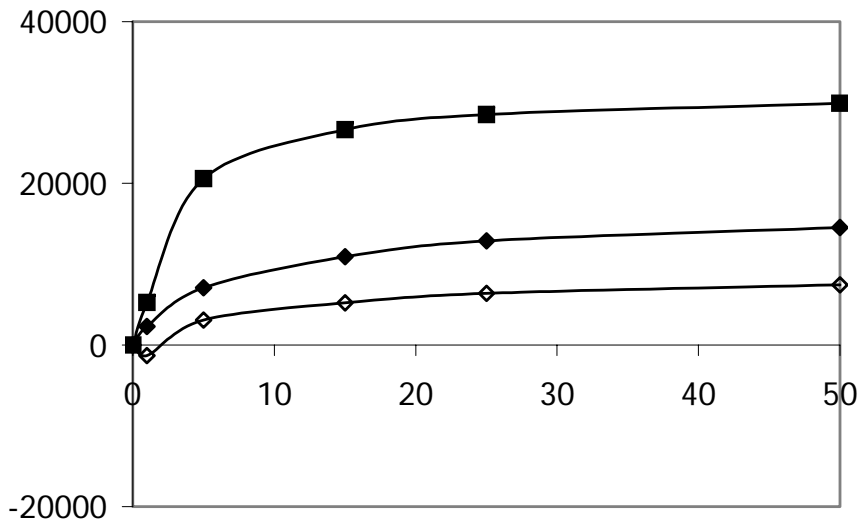
FALL



WINTER



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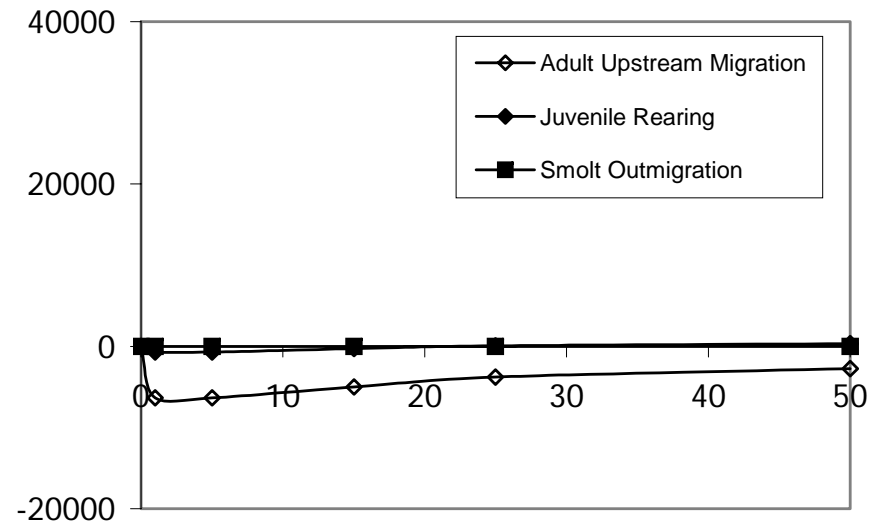
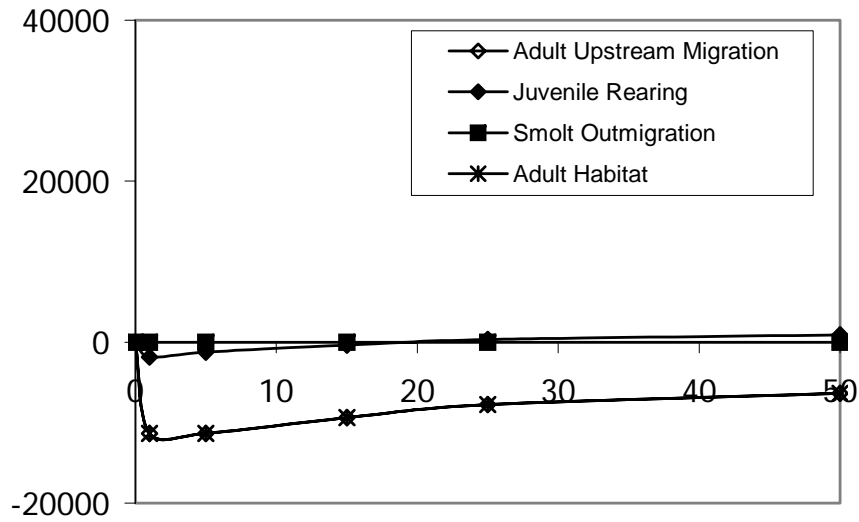
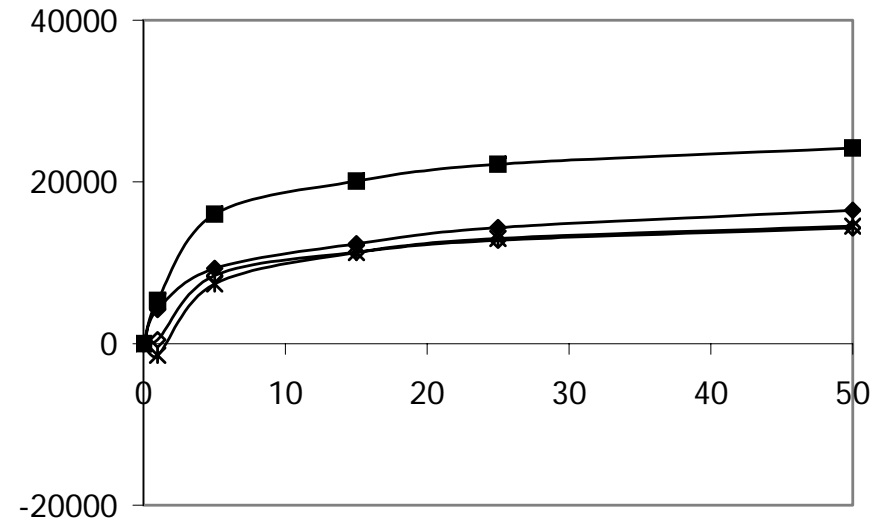


Figure I-55. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 33.0R.

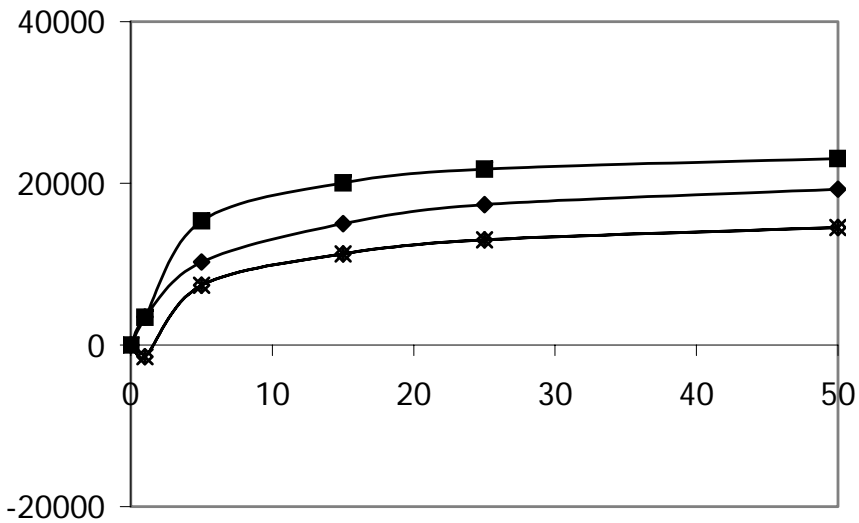
FALL



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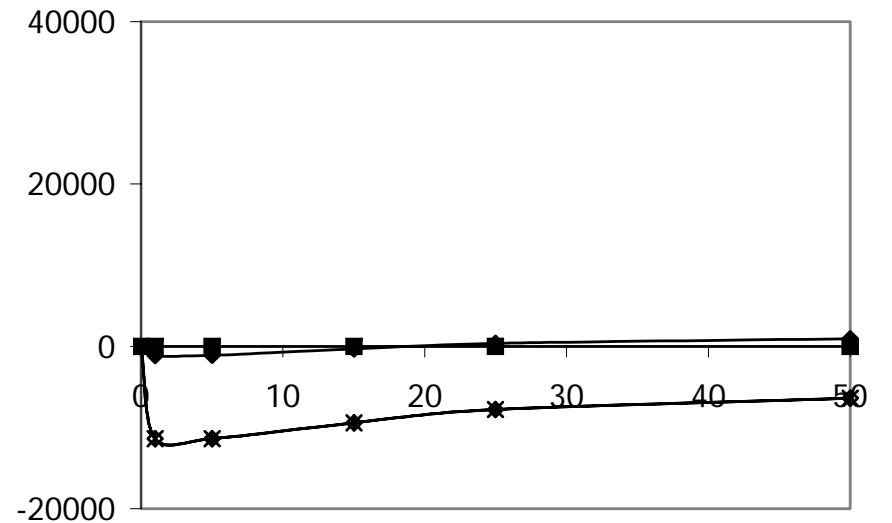
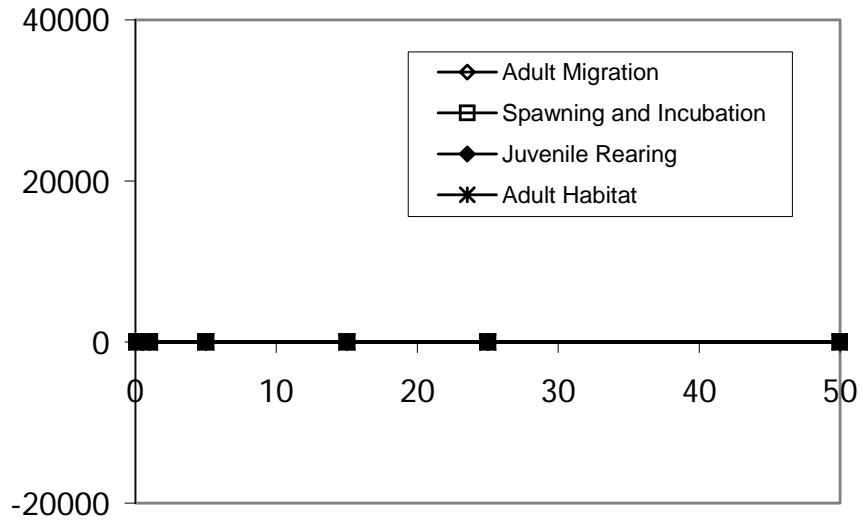
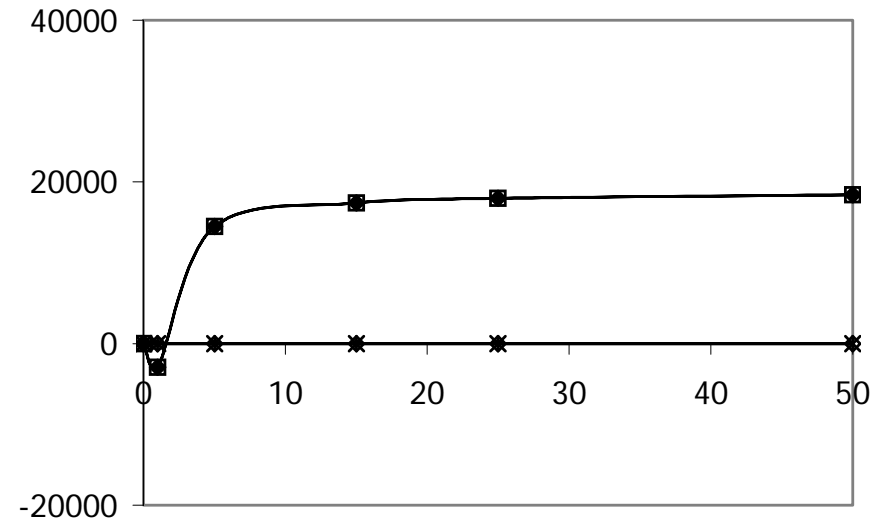


Figure I-56. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 33.0R.

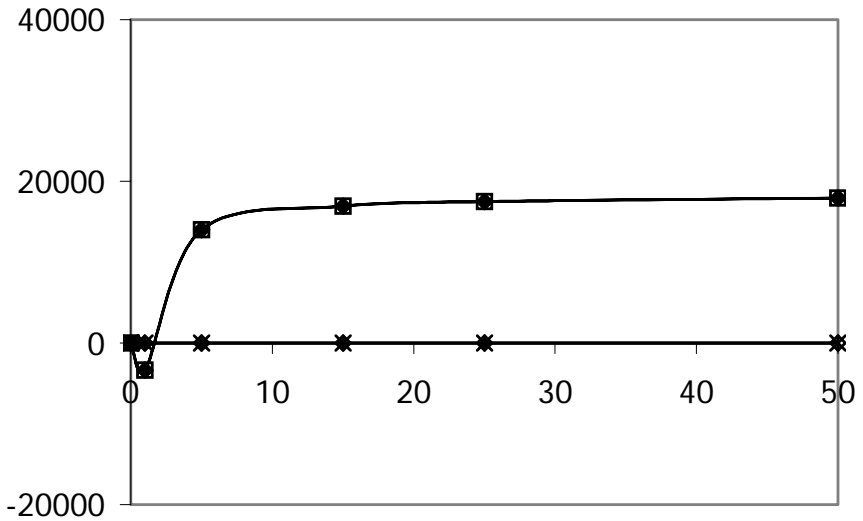
FALL



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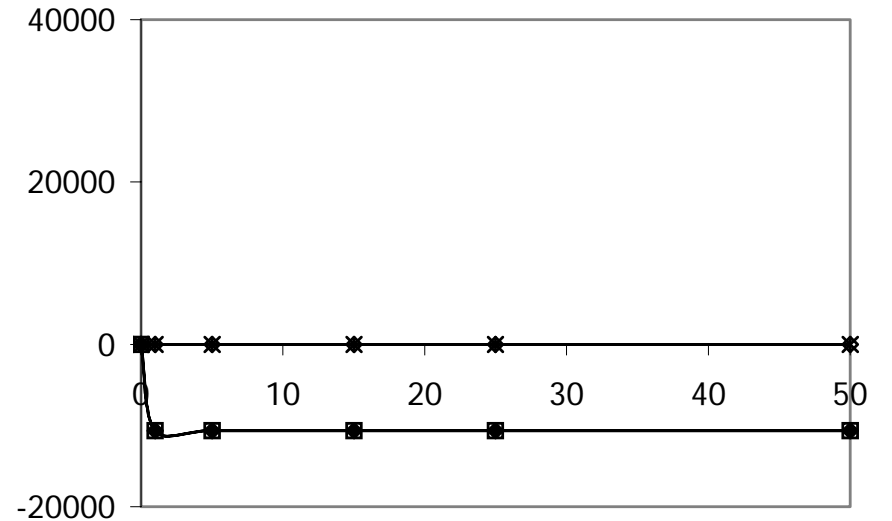
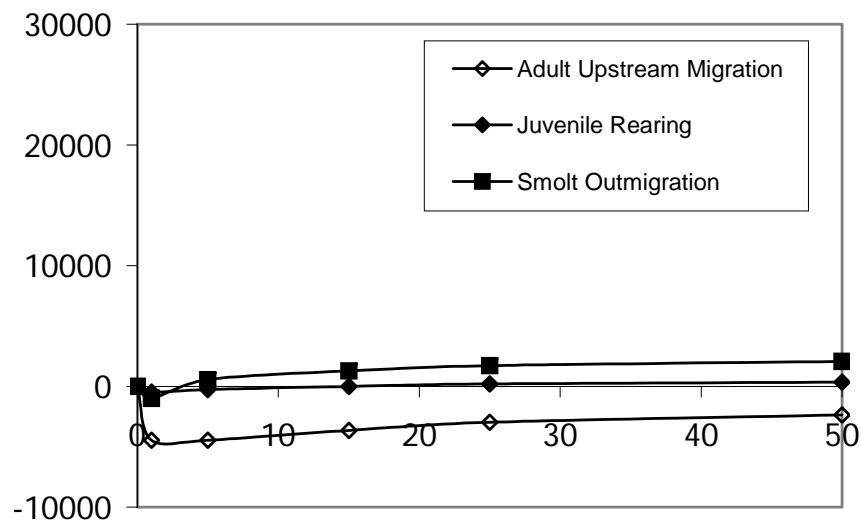
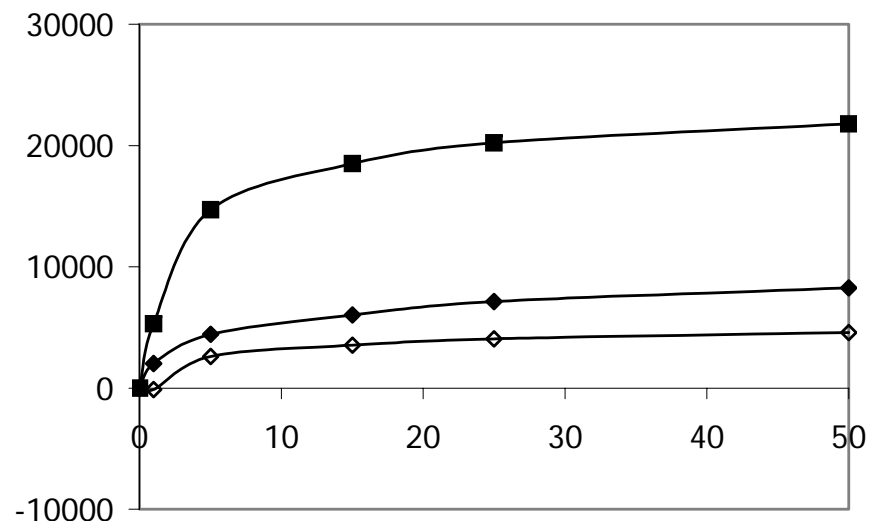


Figure I-57. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 33.0R.

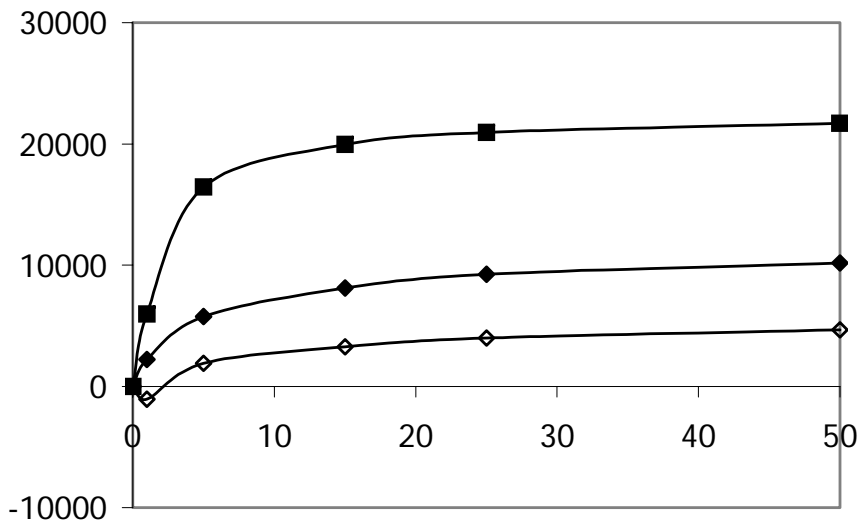
FALL



WINTER



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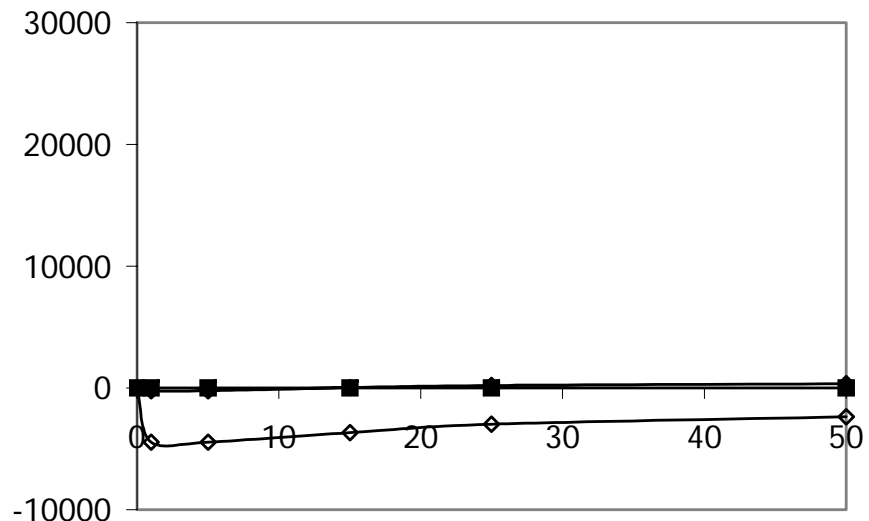
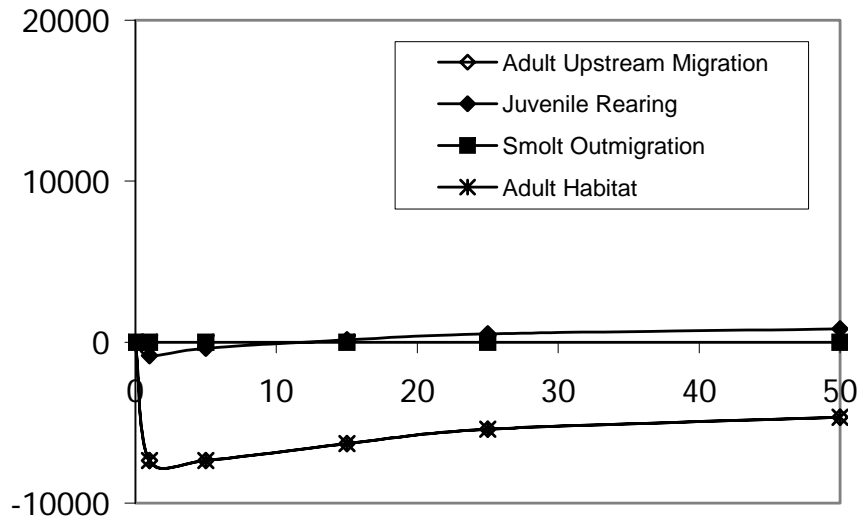
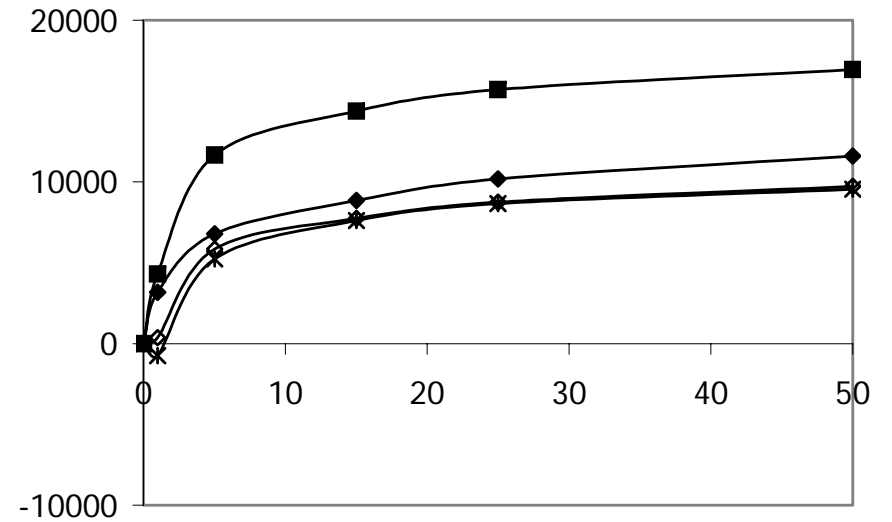


Figure I-58. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 33.3R.

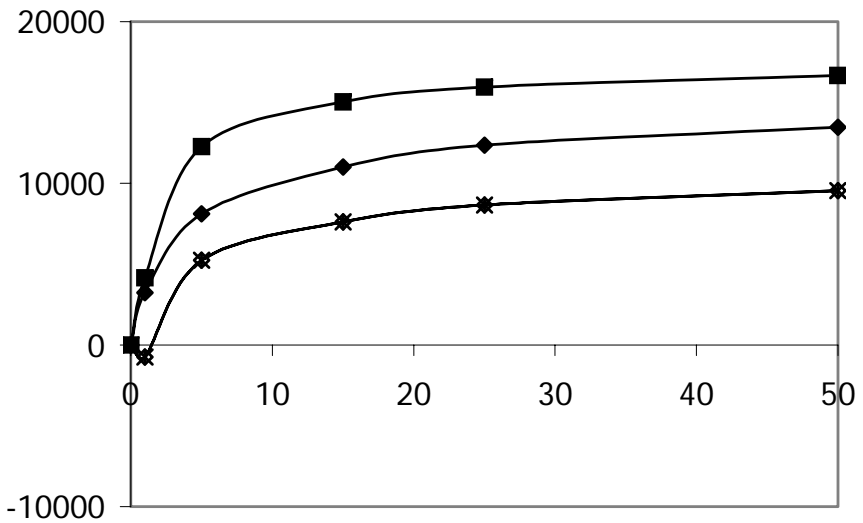
FALL



WINTER



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SUMMER

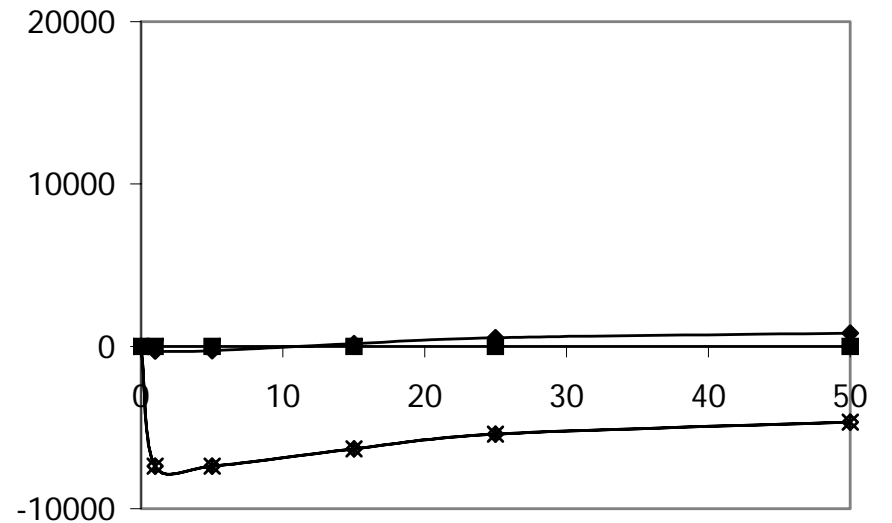
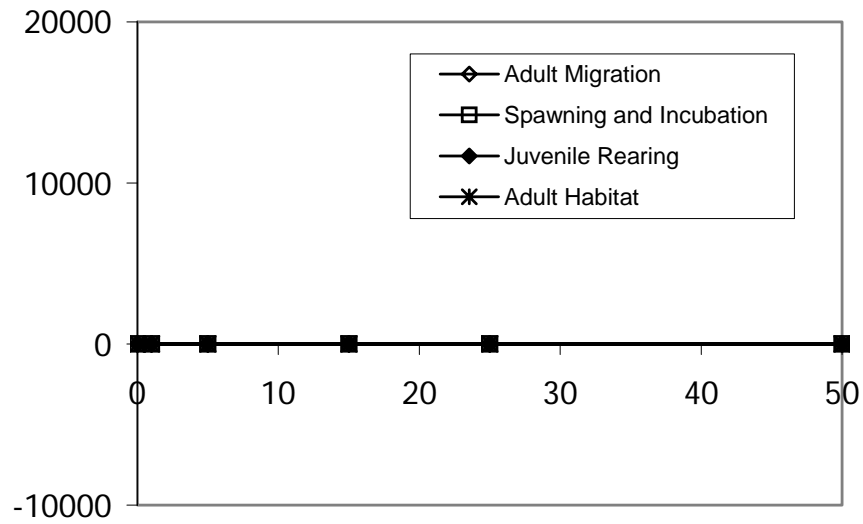
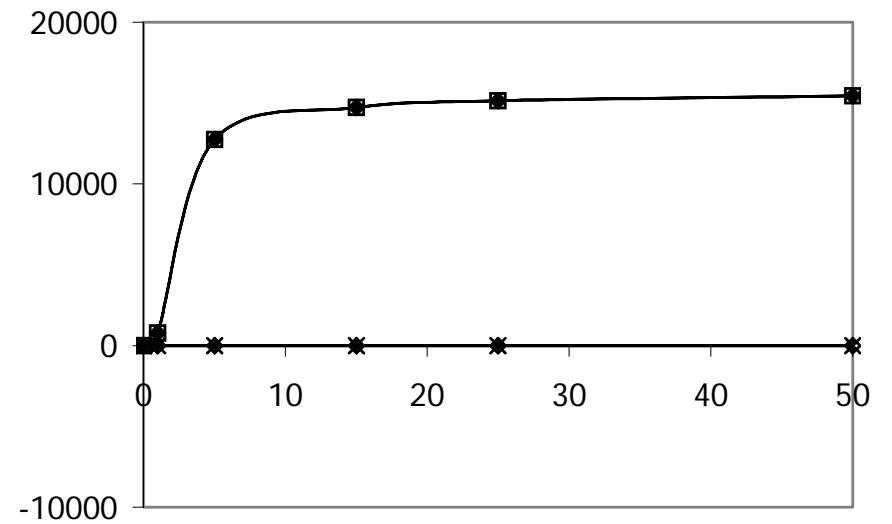


Figure I-59. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 33.3R.

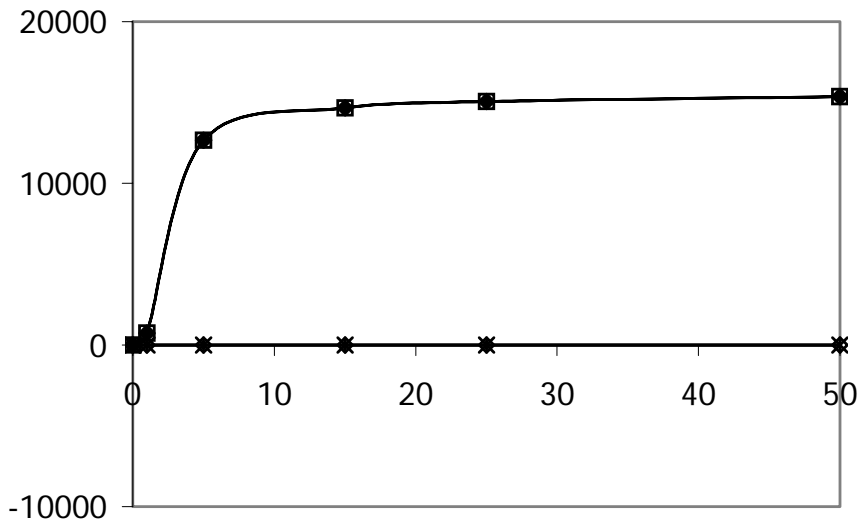
FALL



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SUMMER

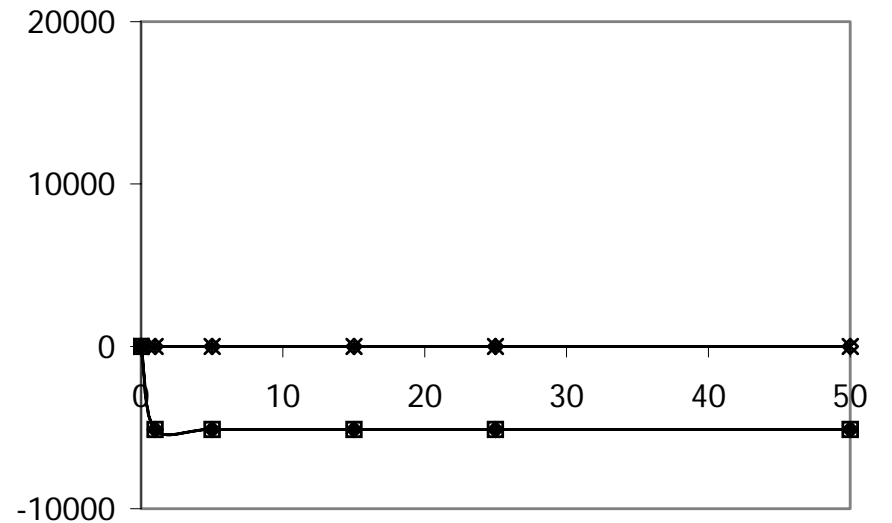
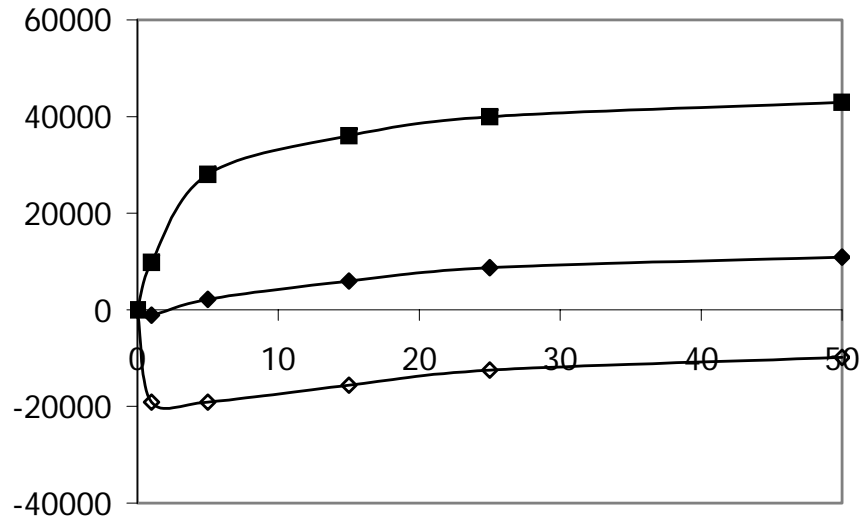
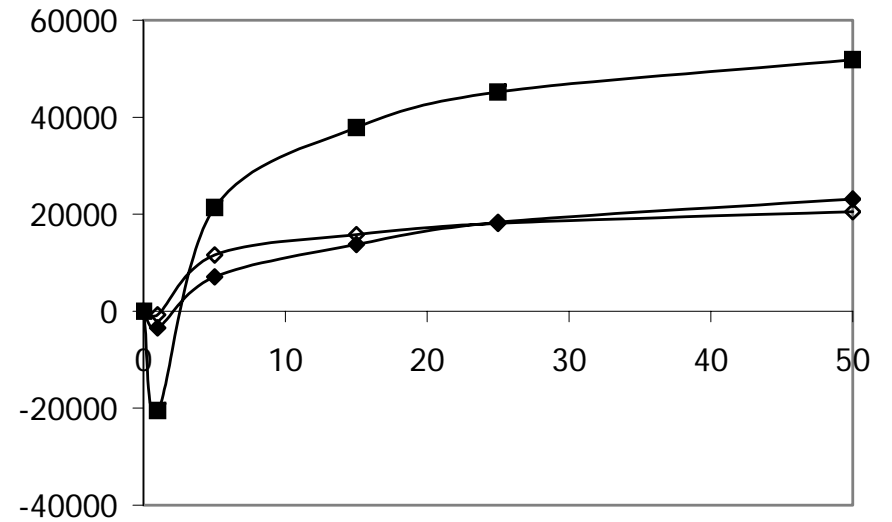


Figure I-60. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 33.3R.

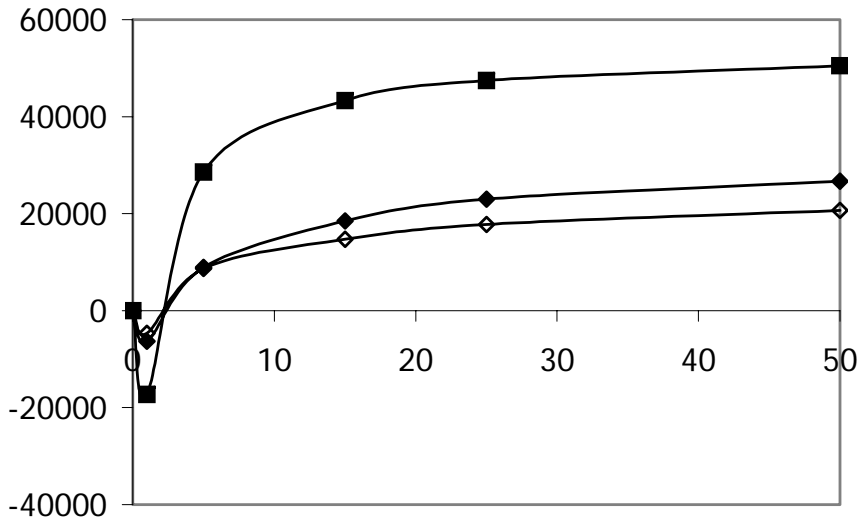
FALL



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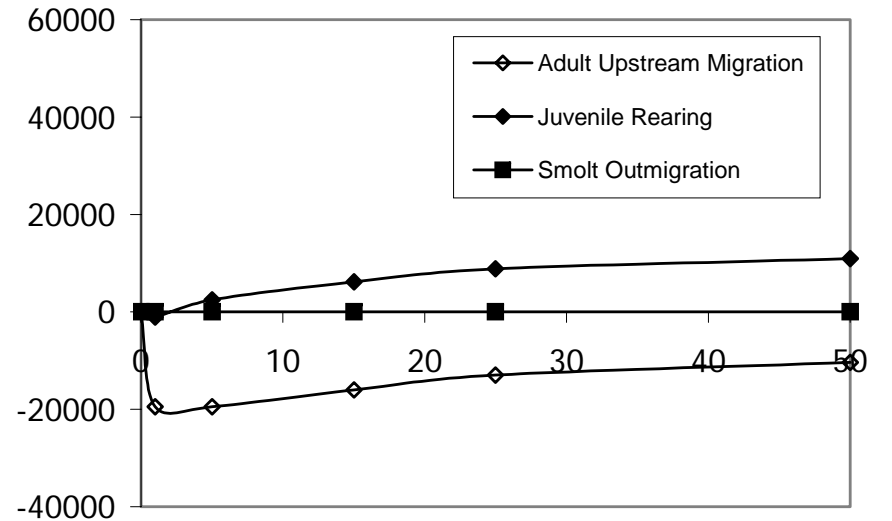
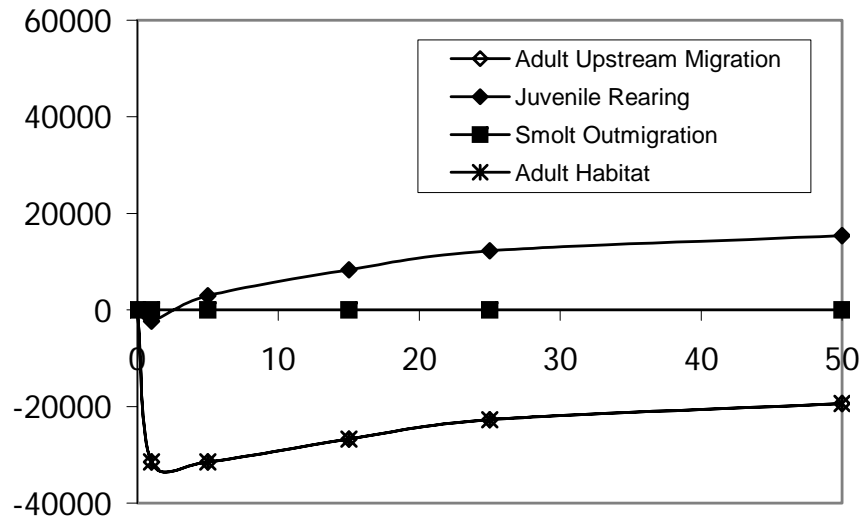
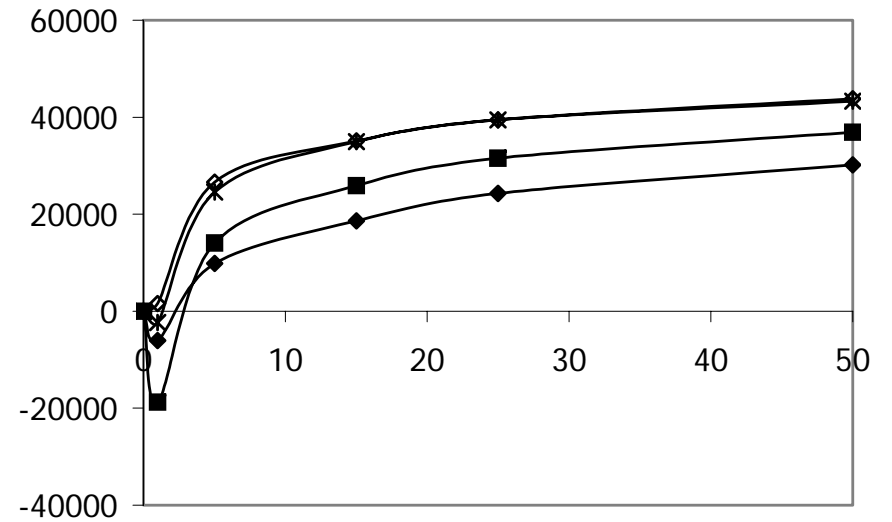


Figure I-61. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 43.7R.

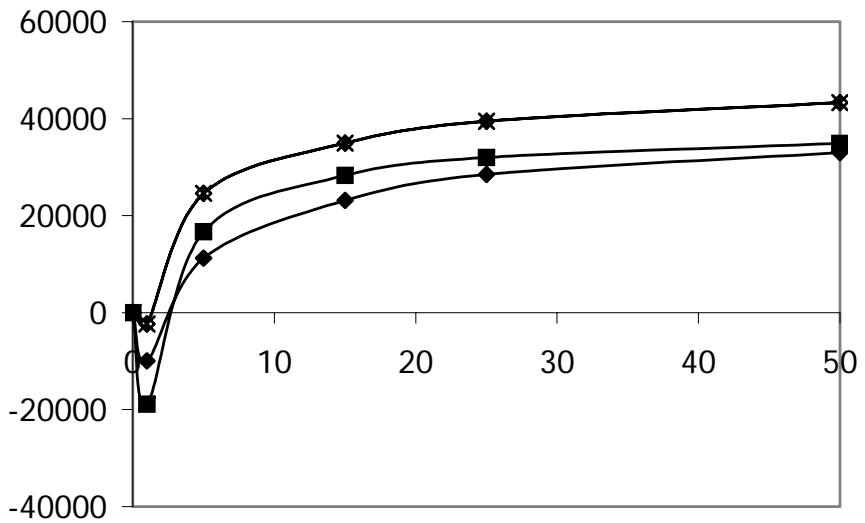
FALL



WINTER



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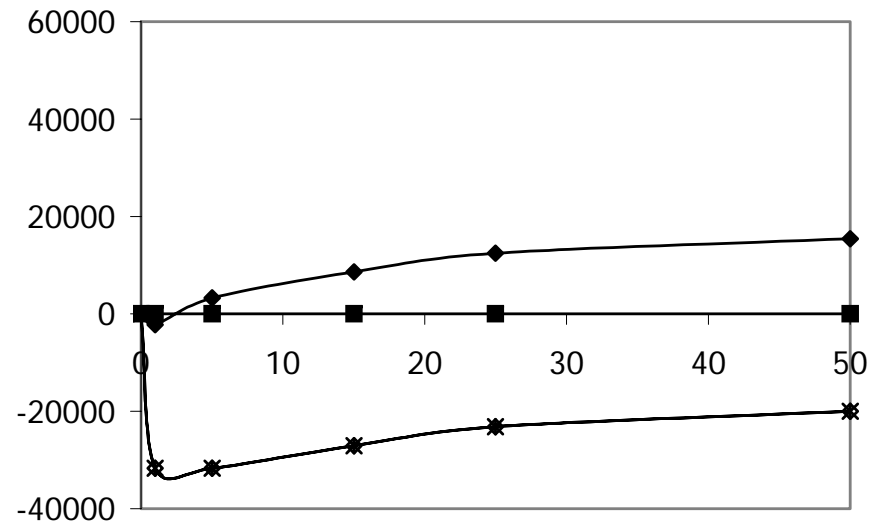
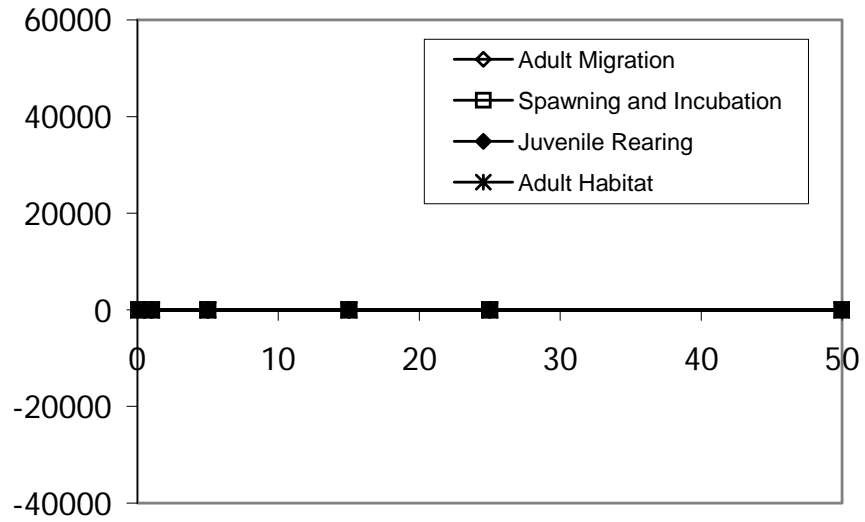
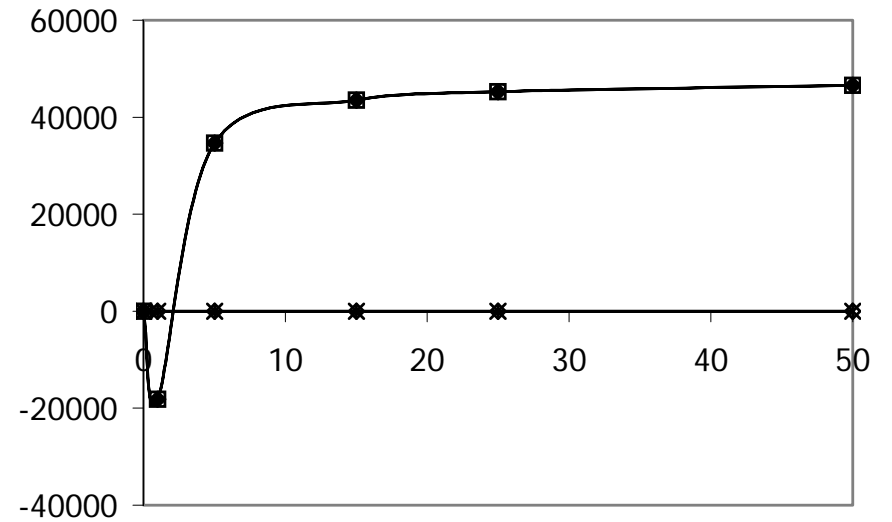


Figure I-62. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 43.7R.

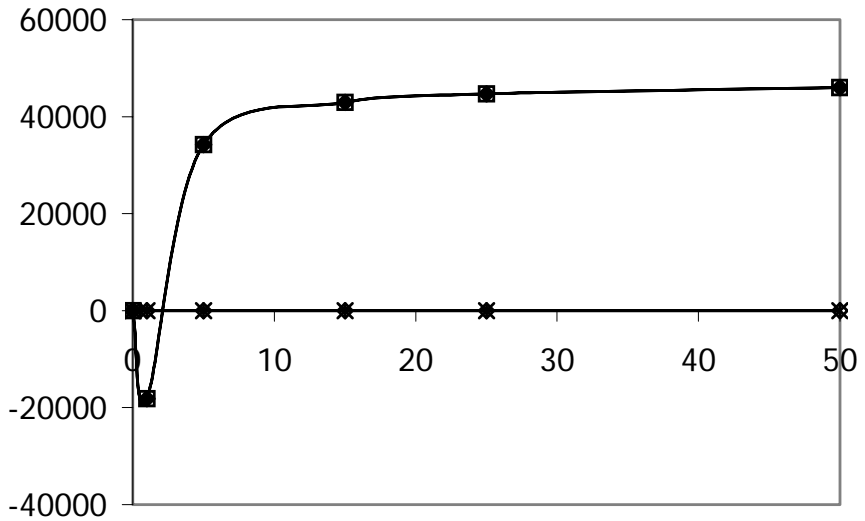
FALL



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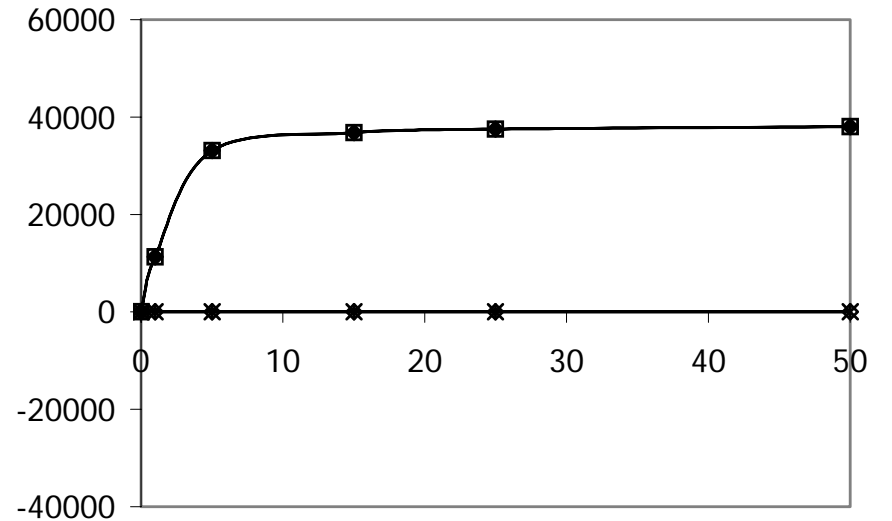
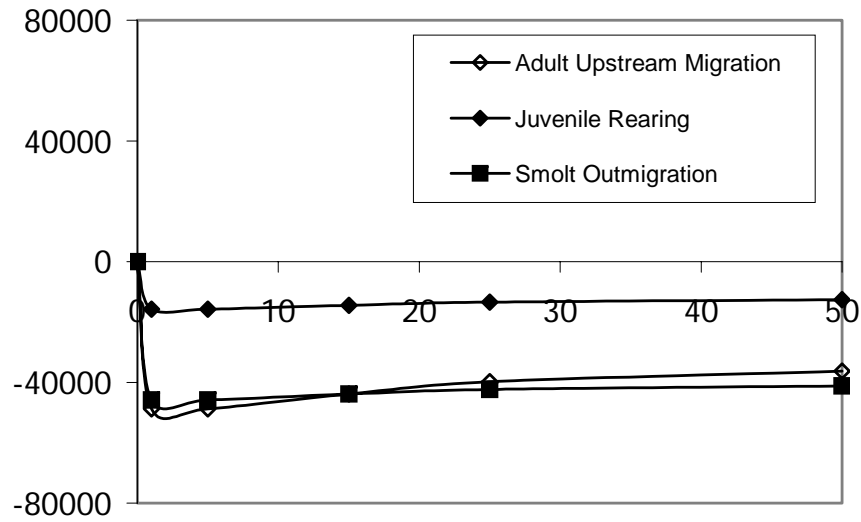
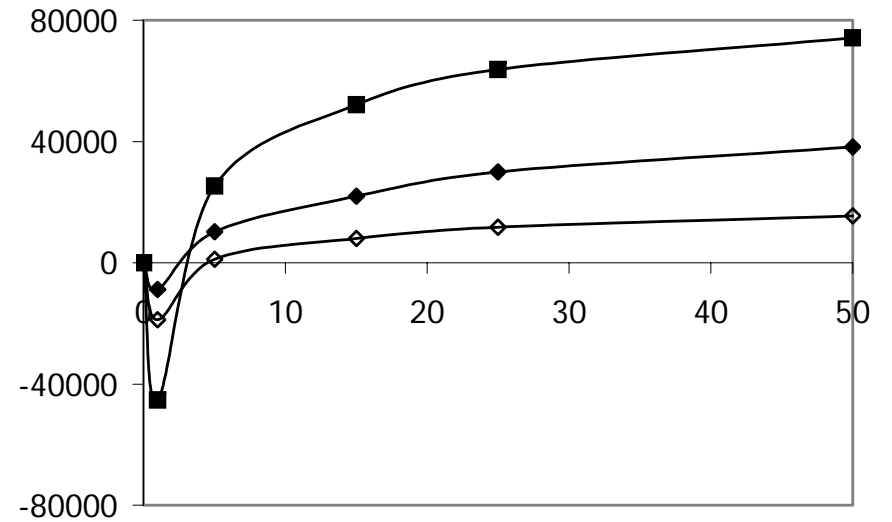


Figure I-63. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 43.7R.

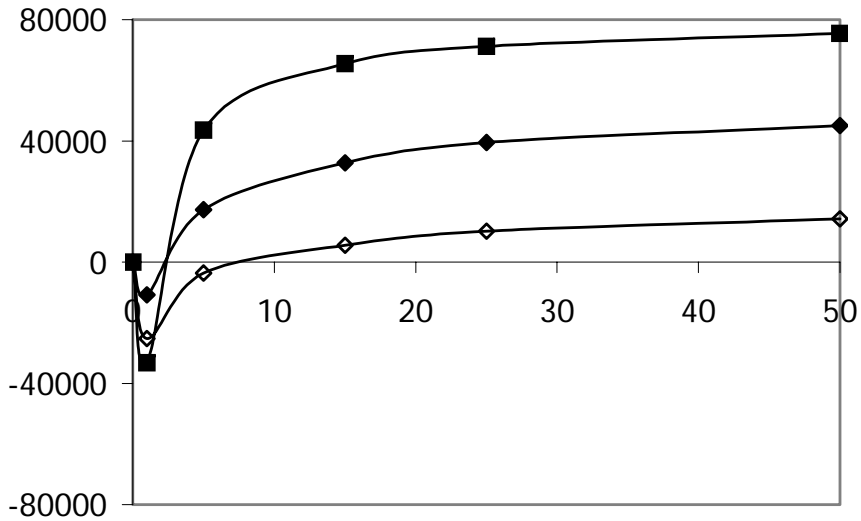
FALL



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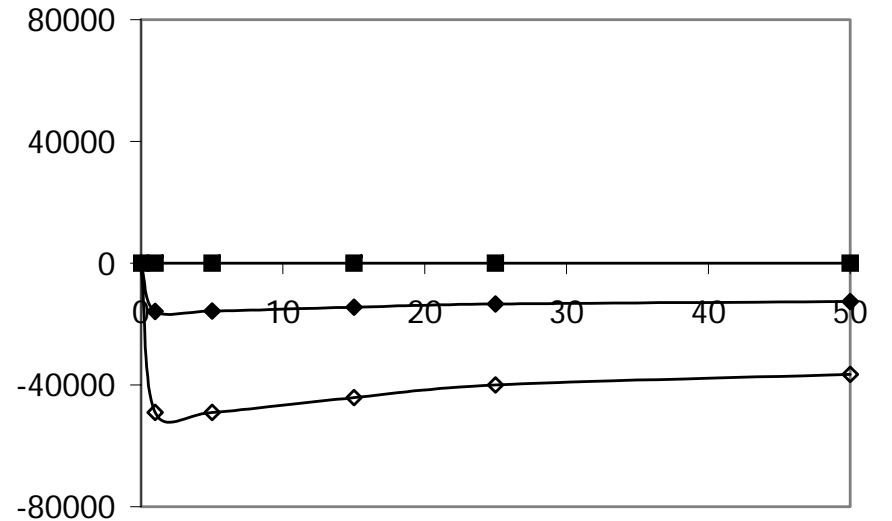
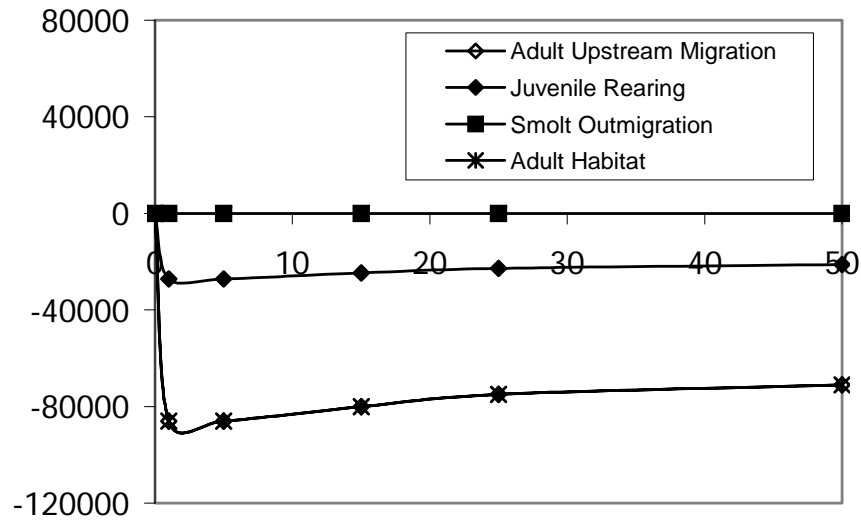
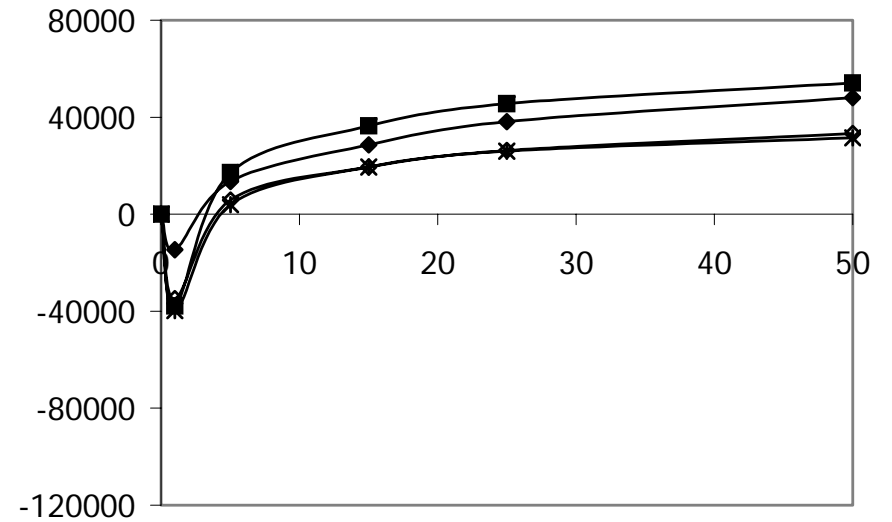


Figure I-64. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 44.7R.

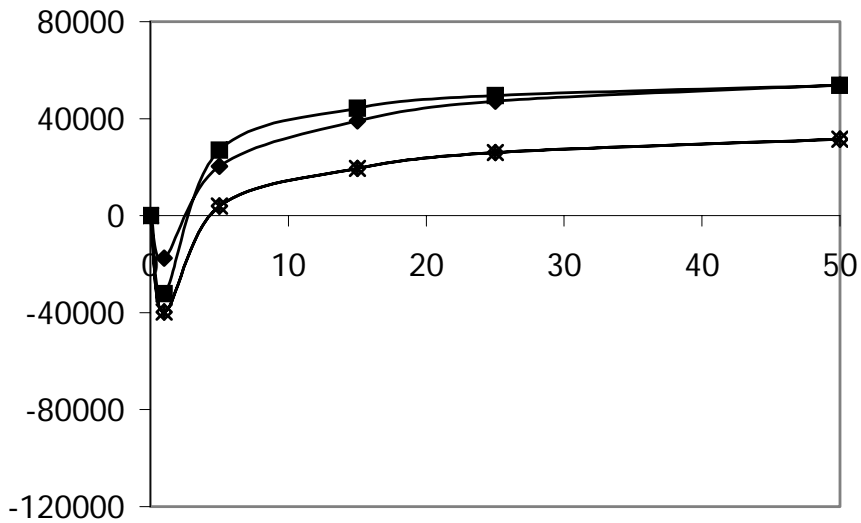
FALL



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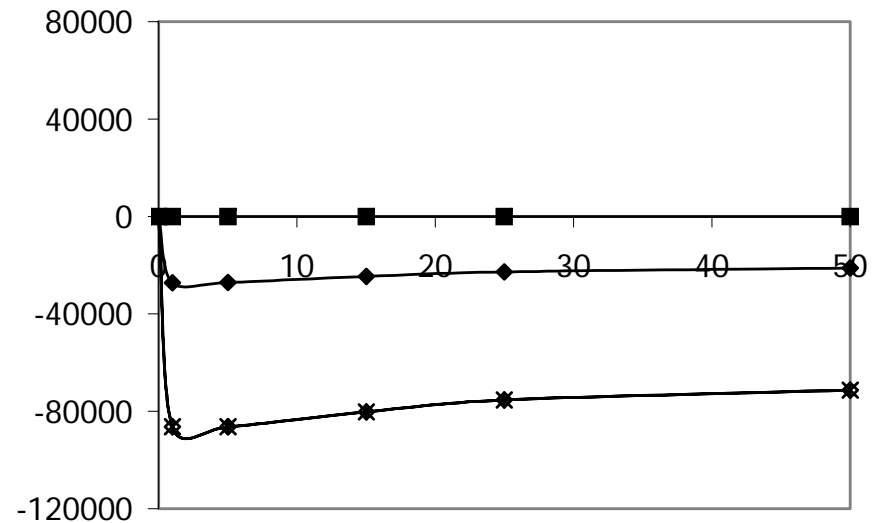
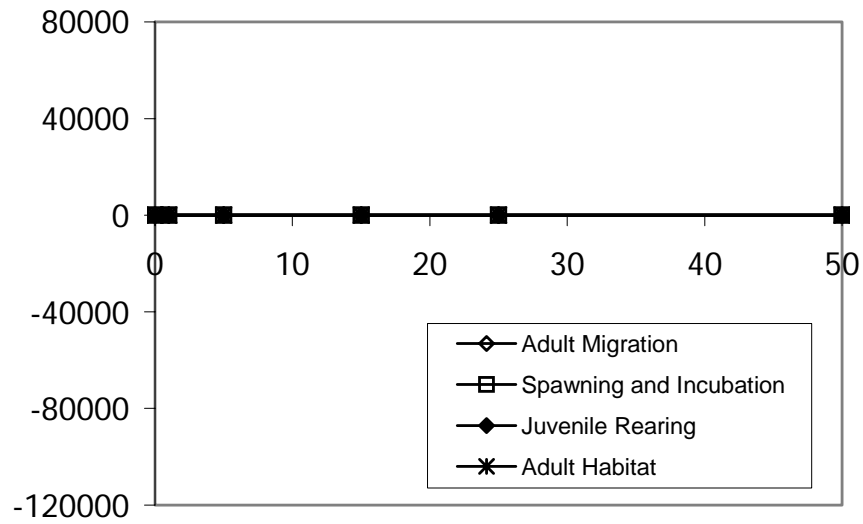
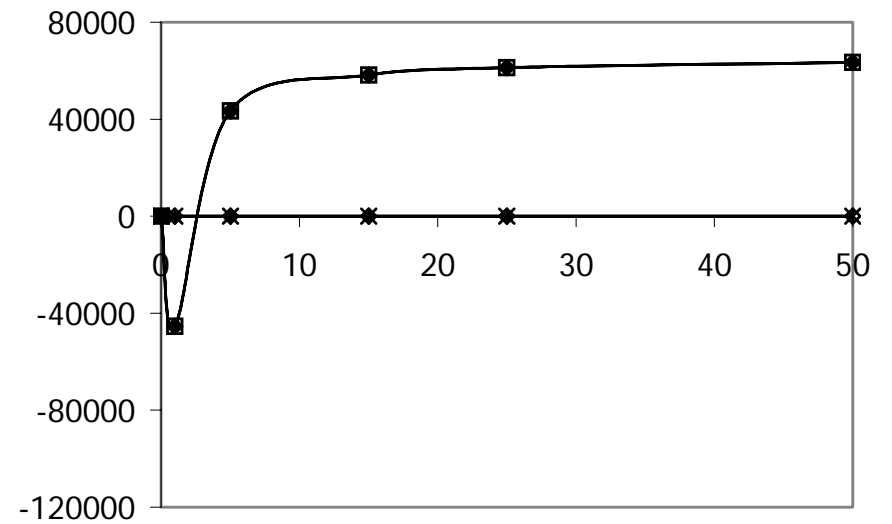


Figure I-65. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 44.7R.

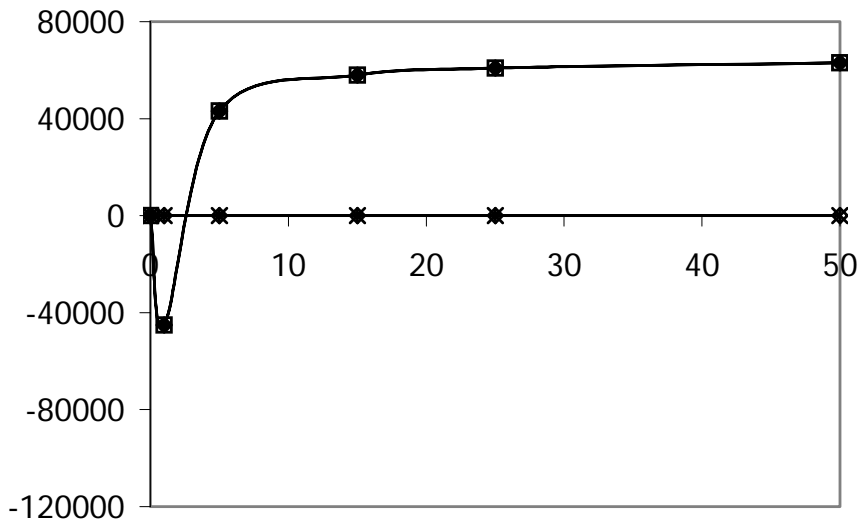
FALL



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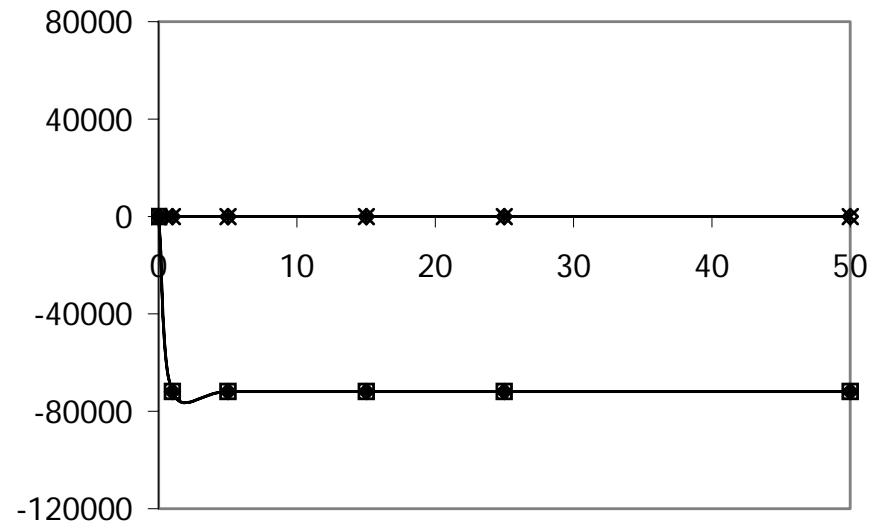
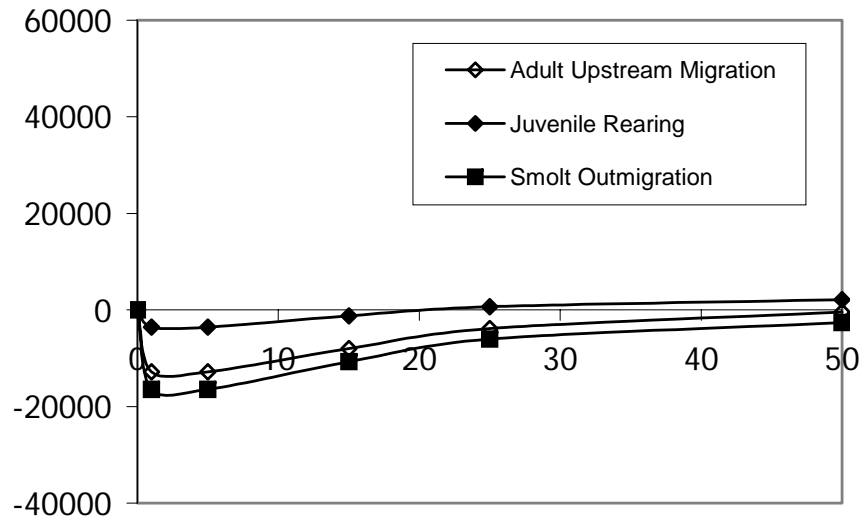
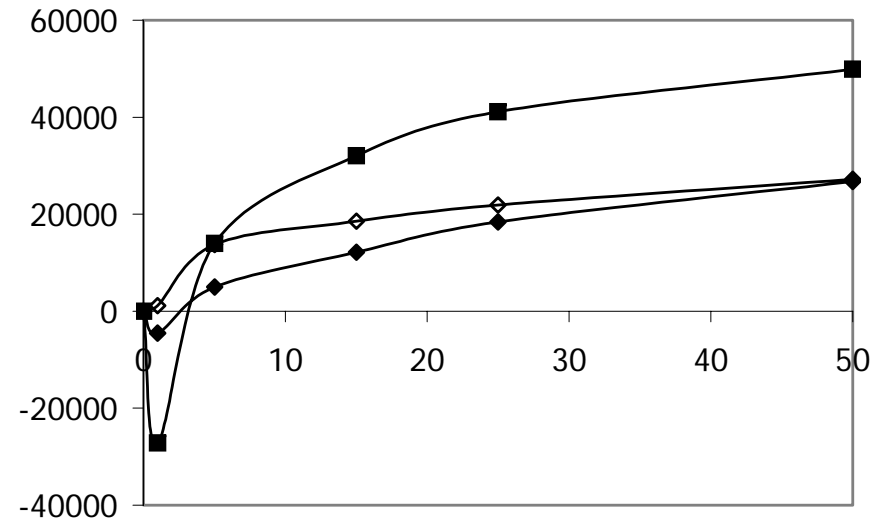


Figure I-66. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 44.7R.

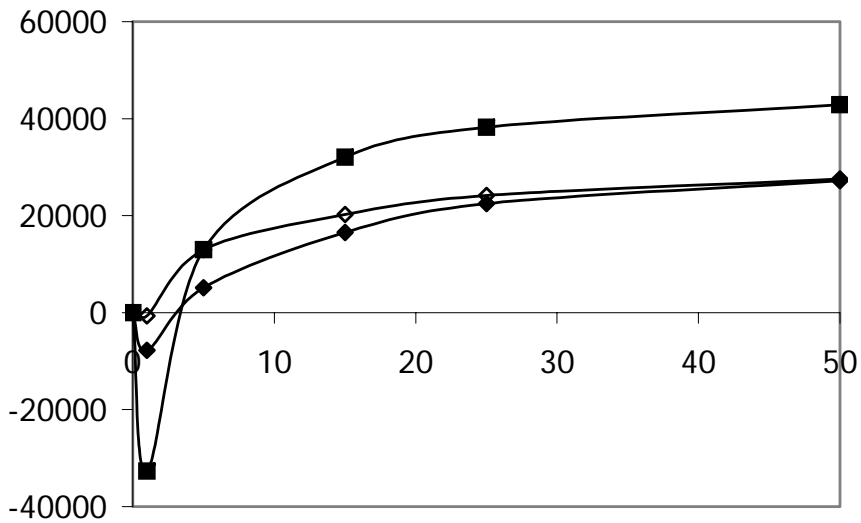
FALL



WINTER



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SUMMER

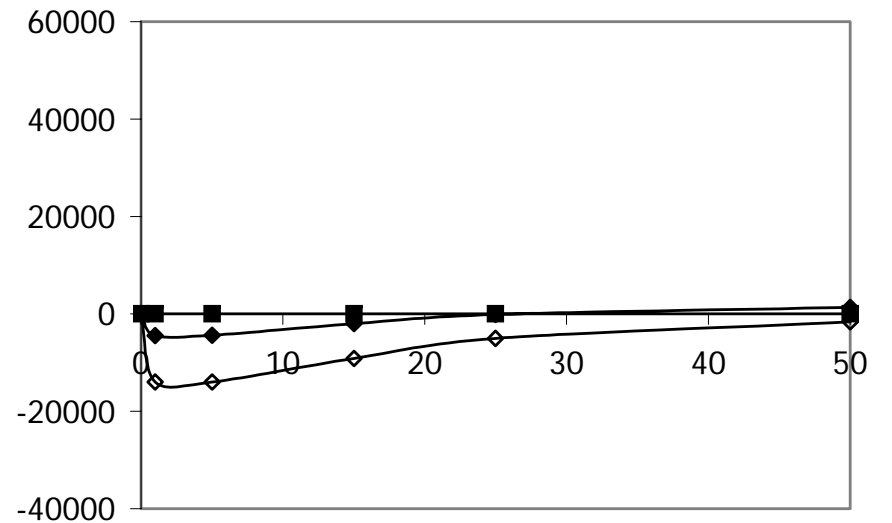
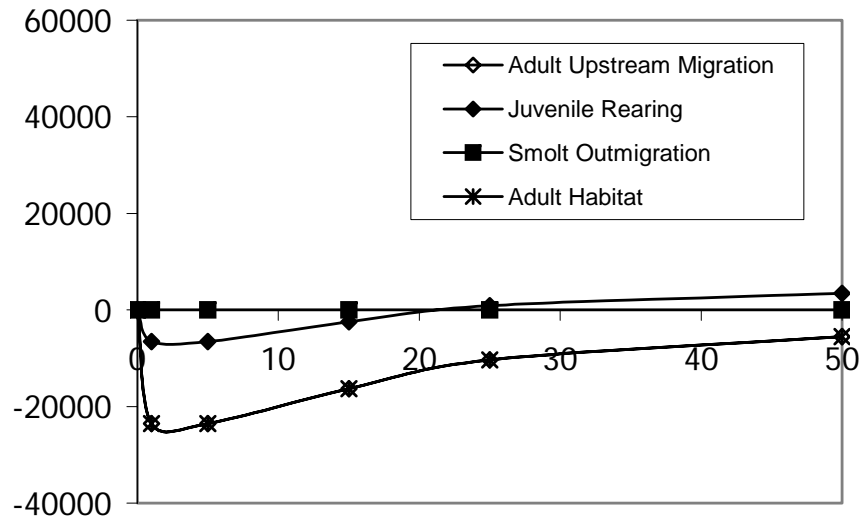
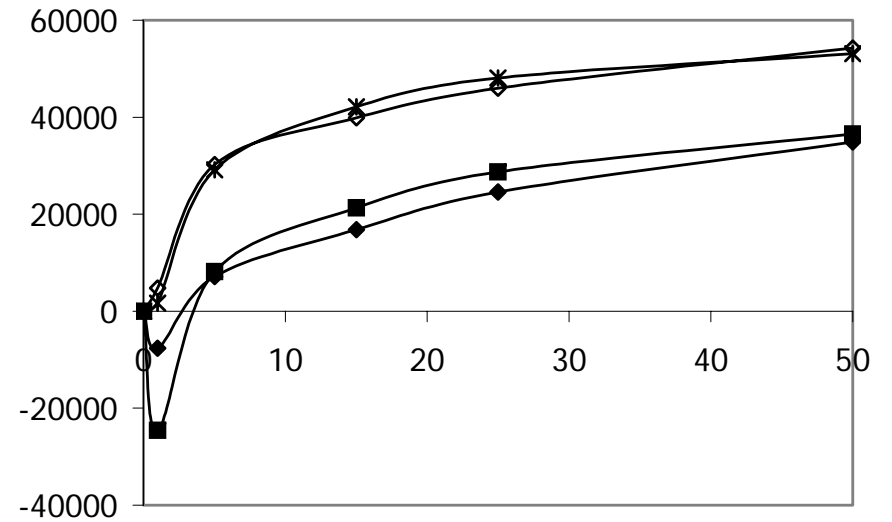


Figure I-67. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 47.0L.

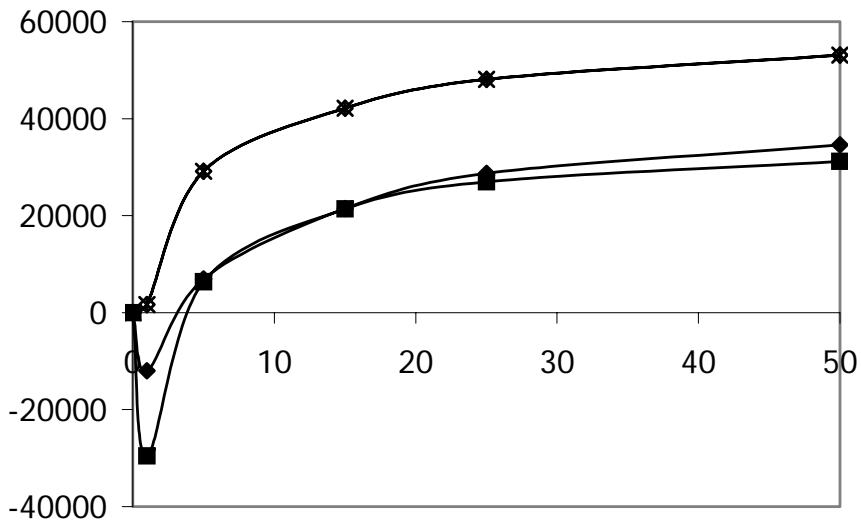
FALL



WINTER



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SUMMER

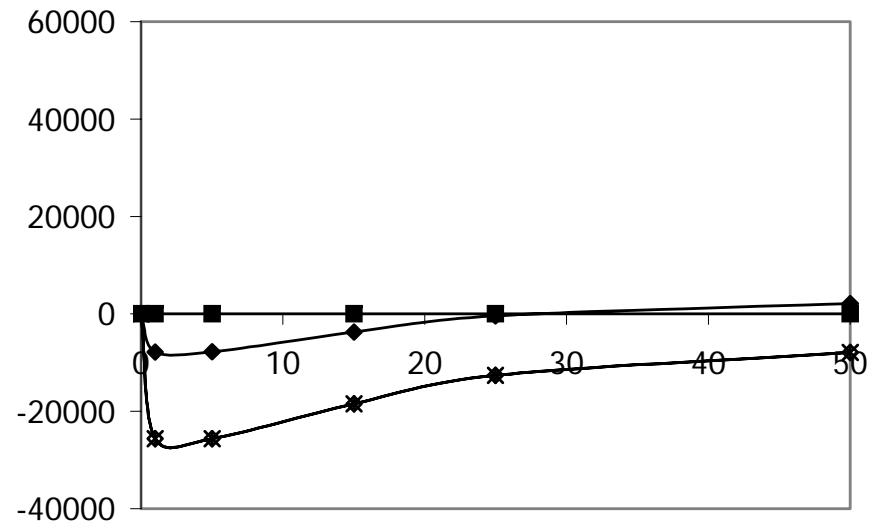
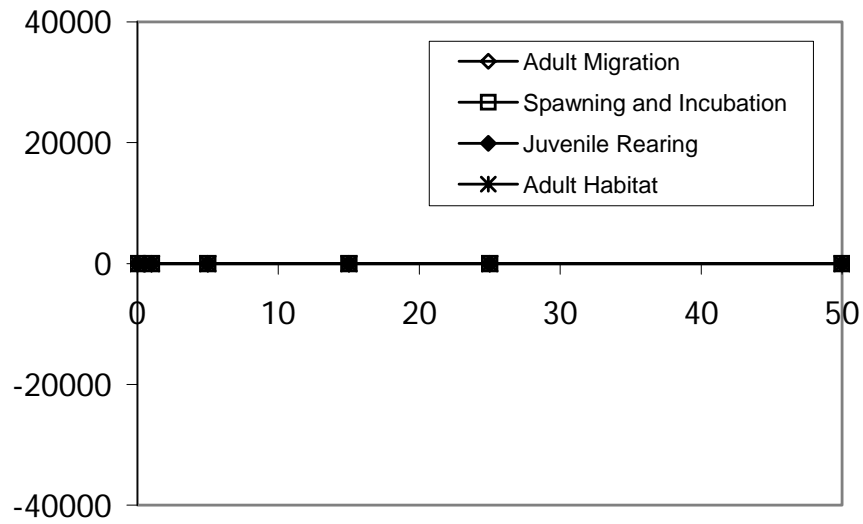
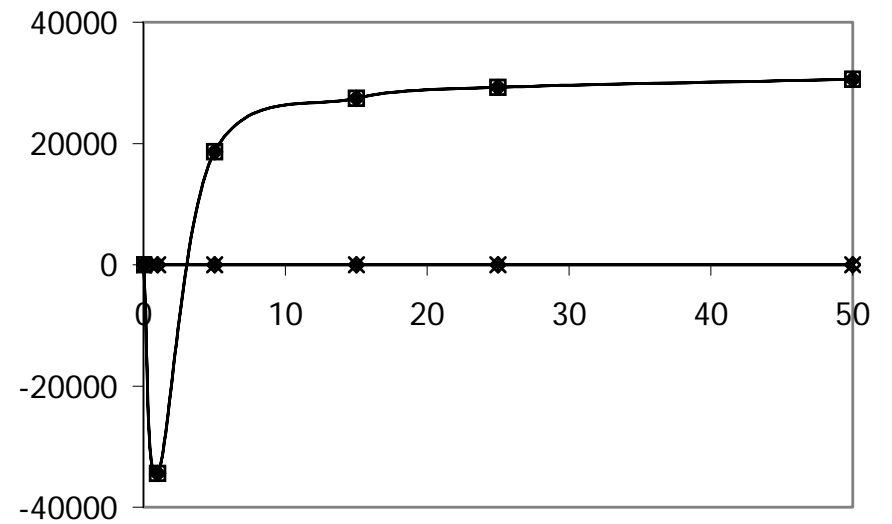


Figure I-68. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 47.0L.

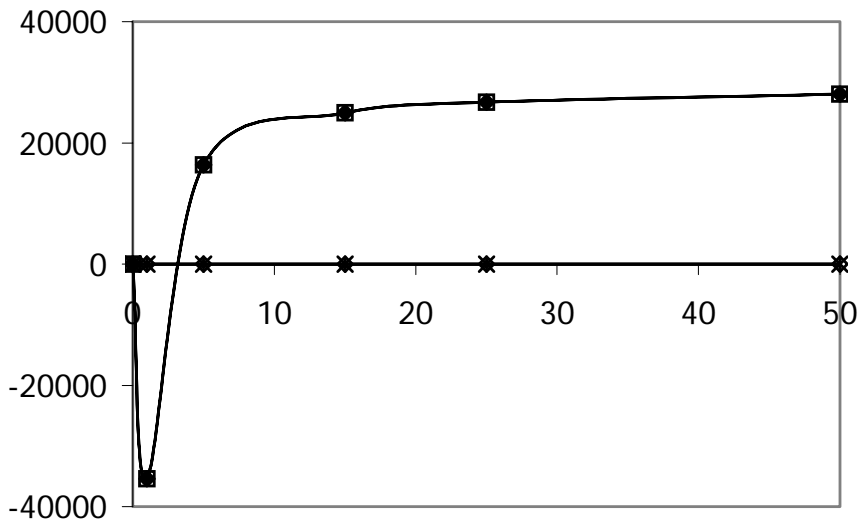
FALL



WINTER



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SUMMER

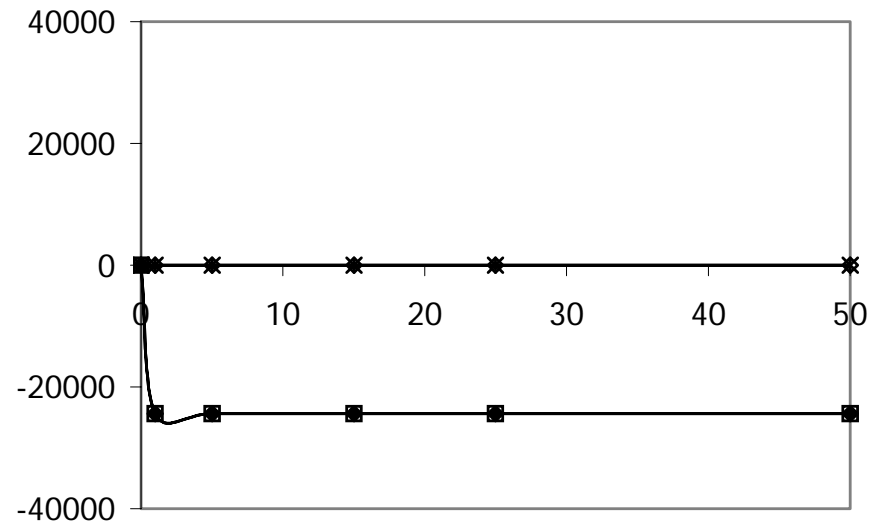
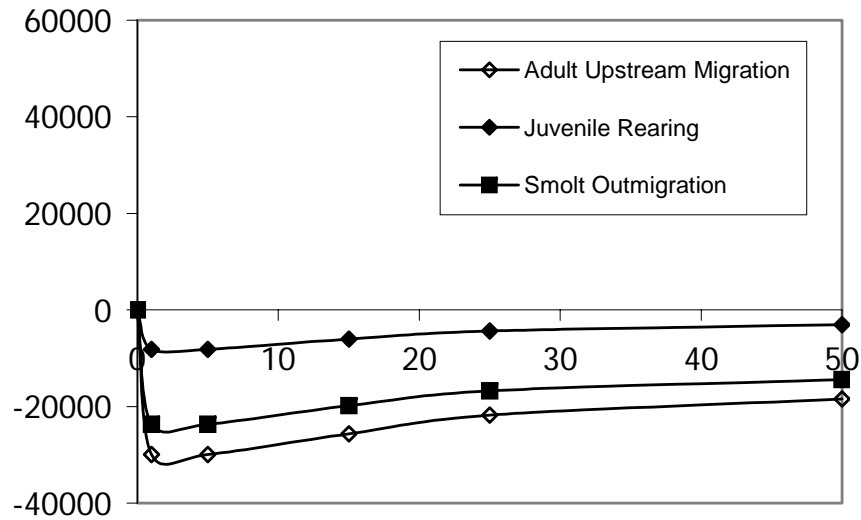
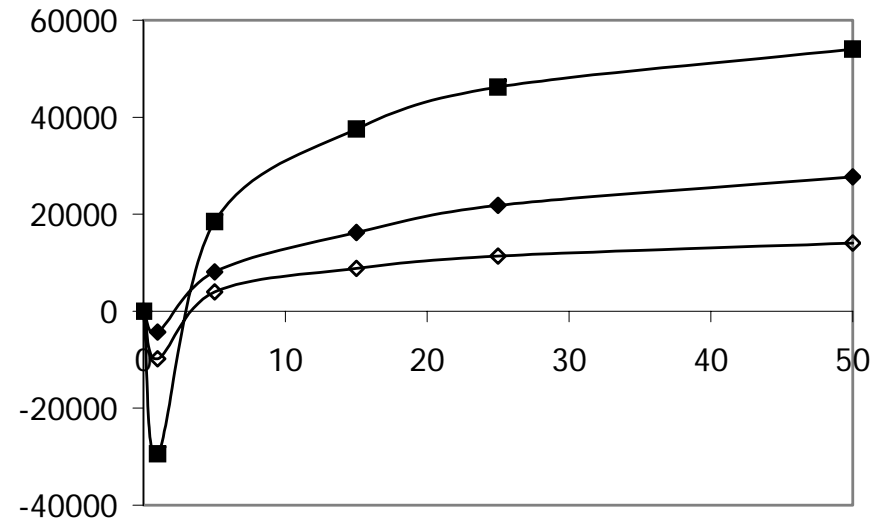


Figure I-69. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 47.0L.

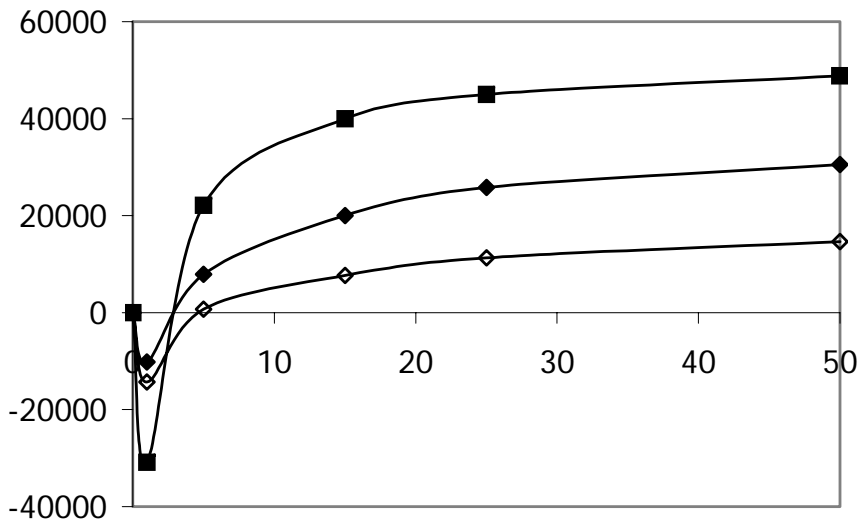
FALL



WINTER



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SUMMER

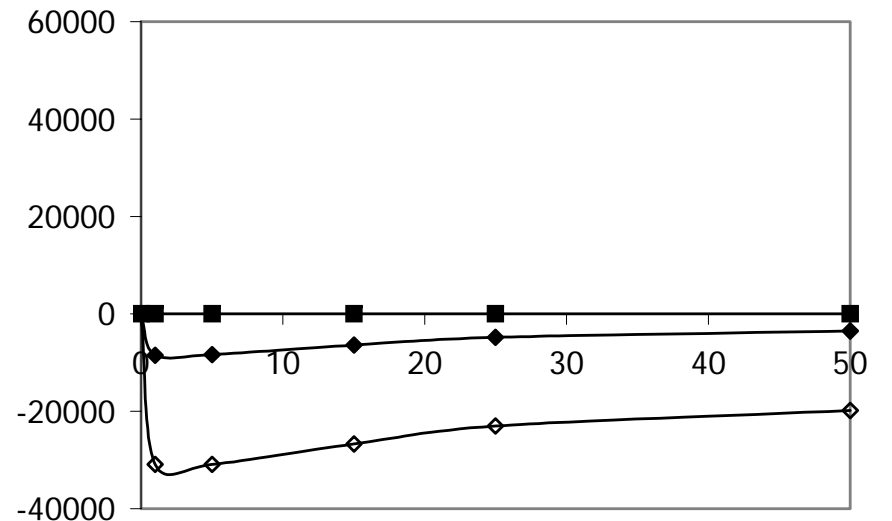
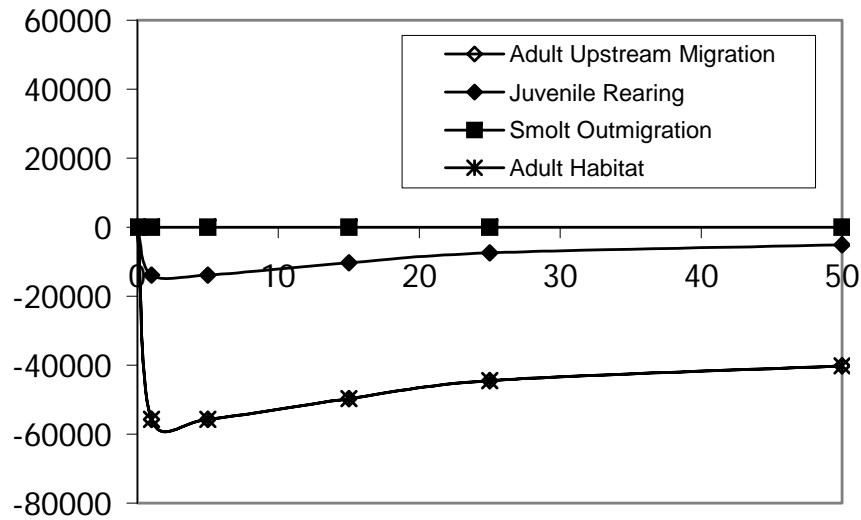
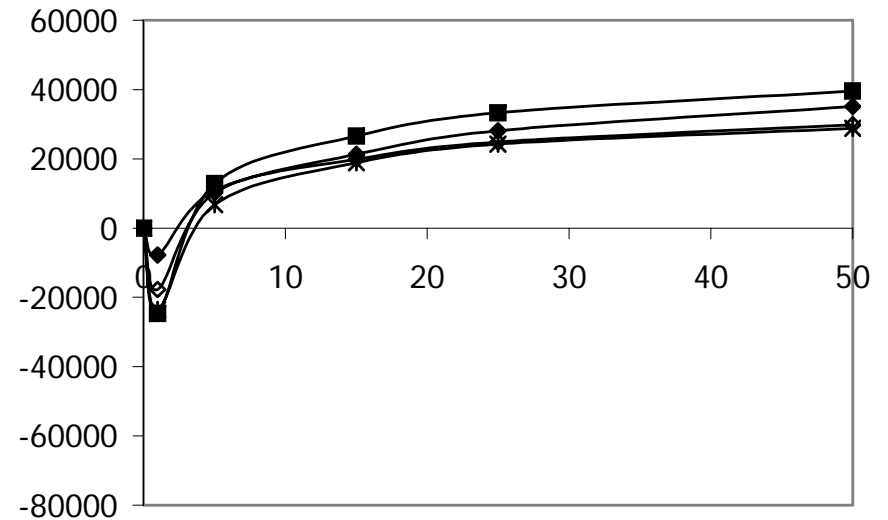


Figure I-70. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 47.9R.

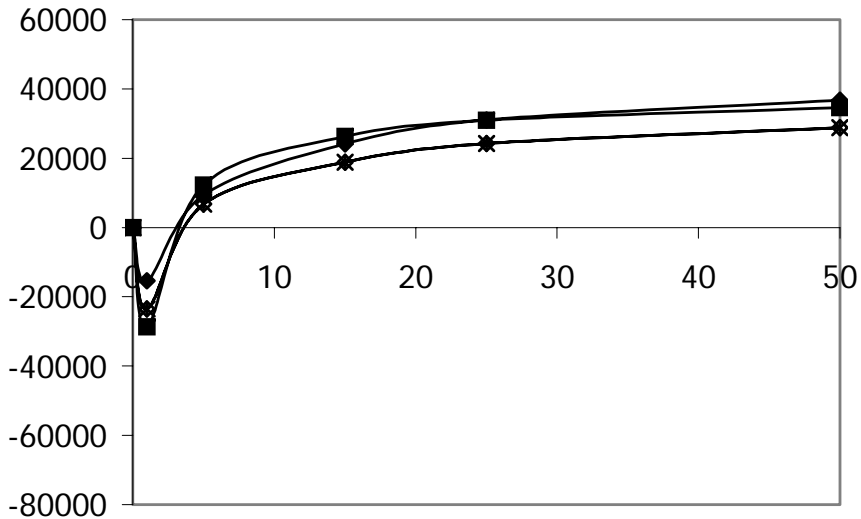
FALL



WINTER



SPRING



SUMMER

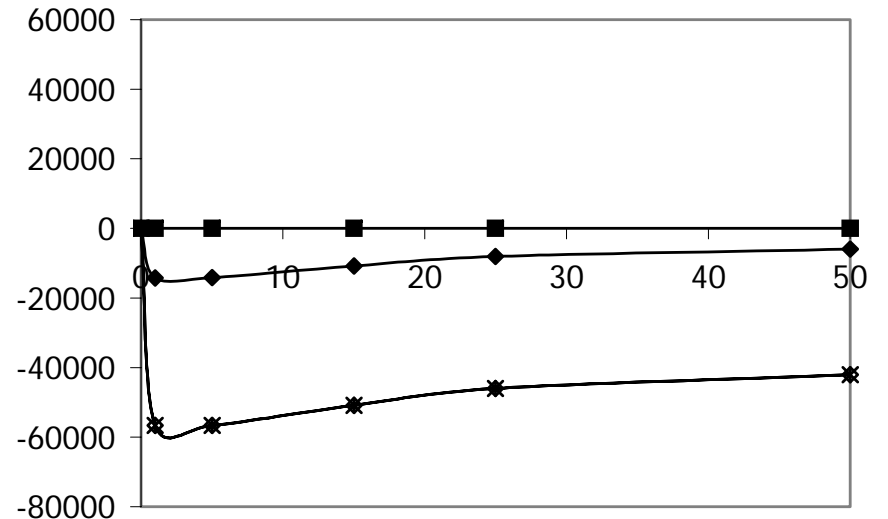
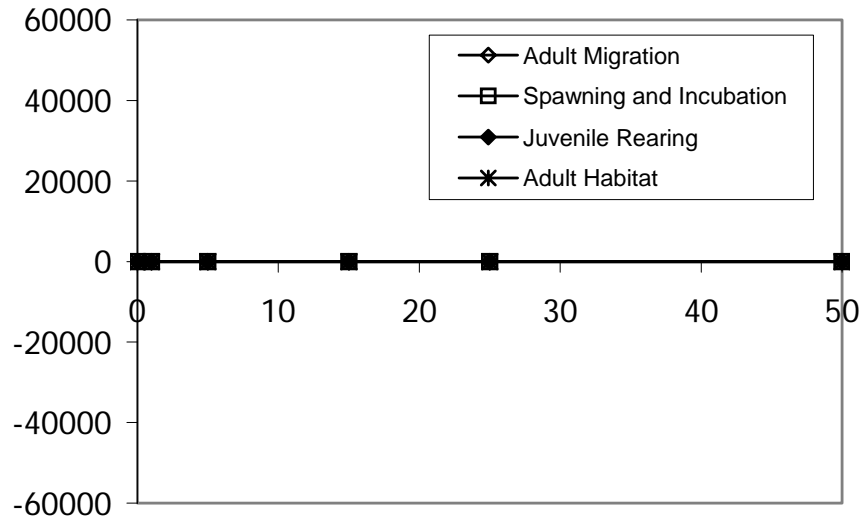
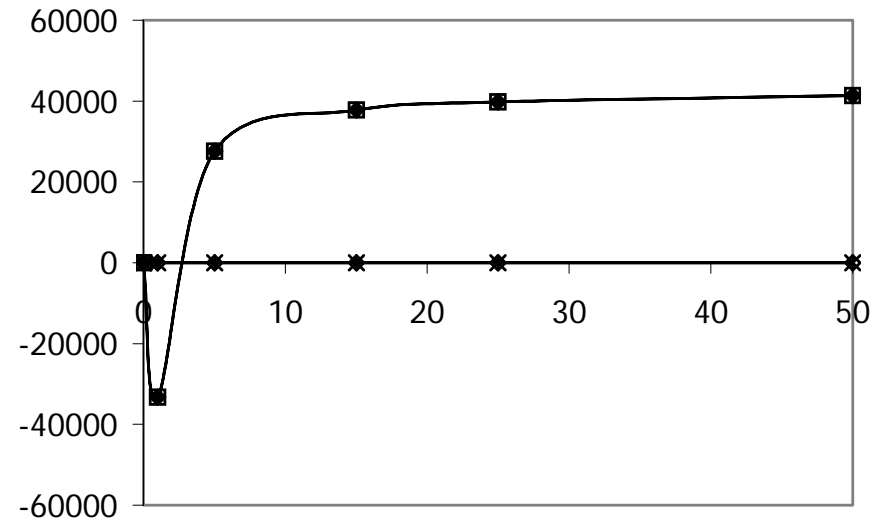


Figure I-71. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 47.9R.

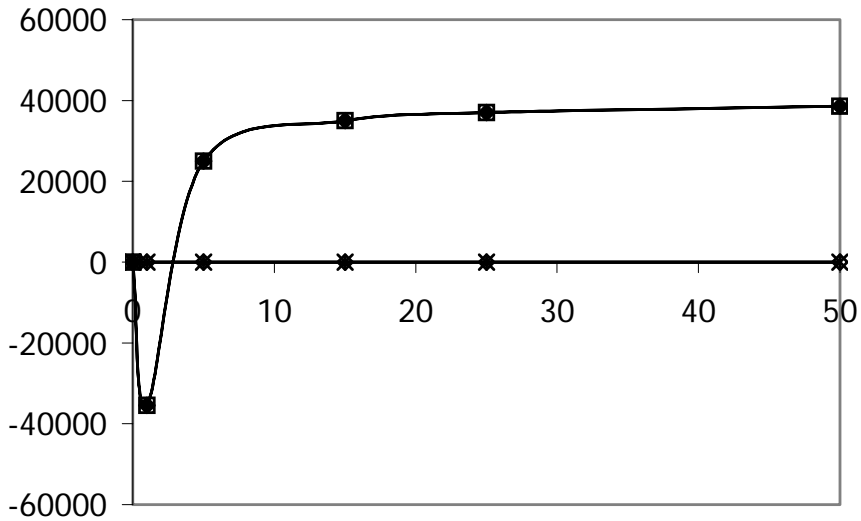
FALL



WINTER



SPRING



SUMMER

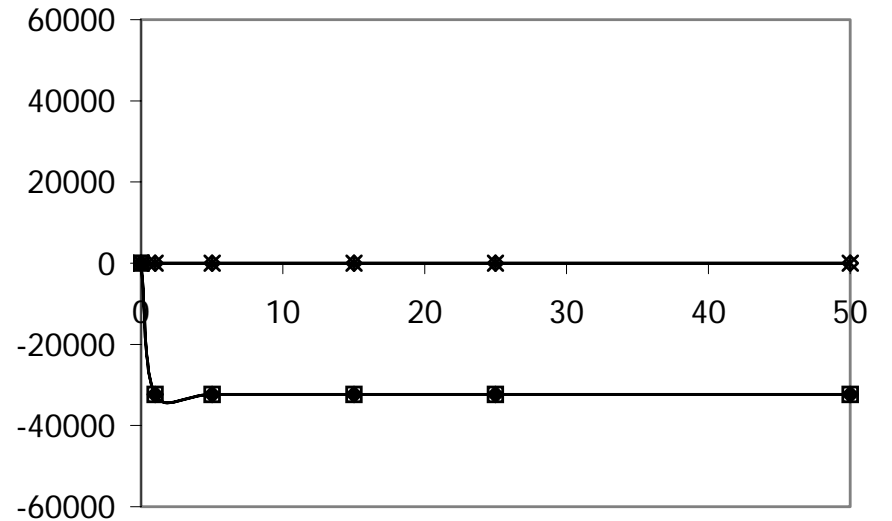
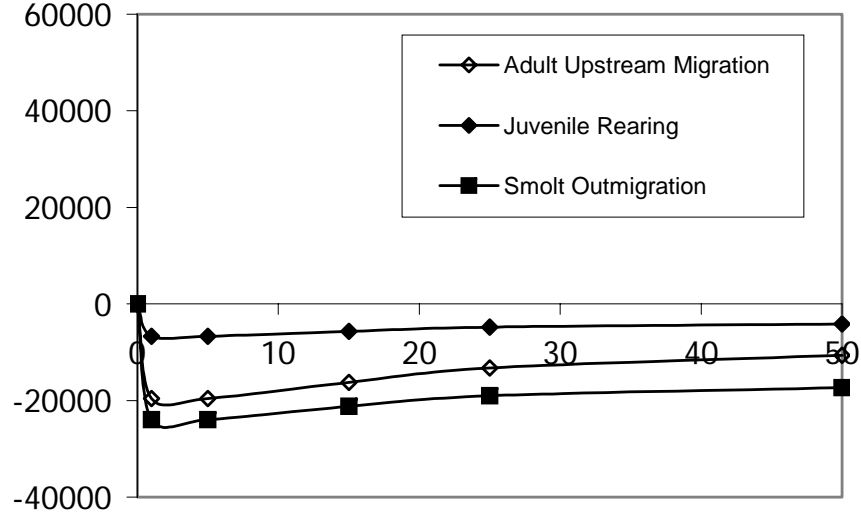
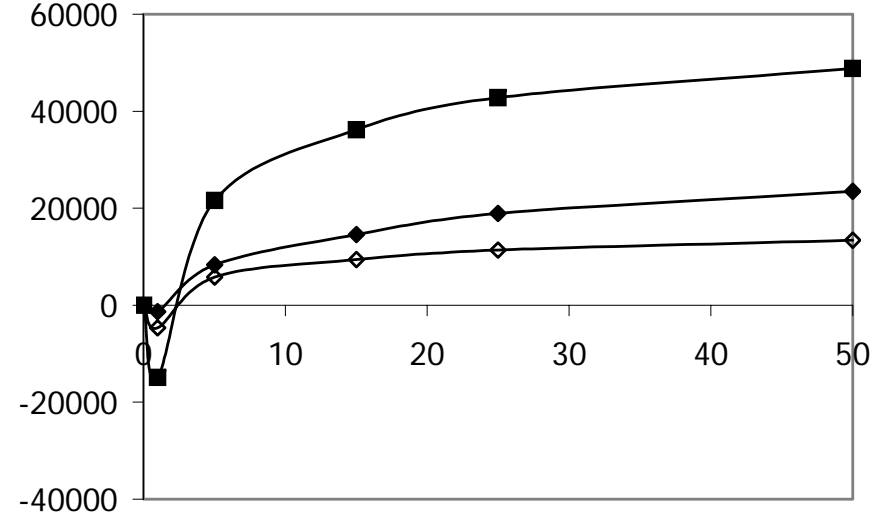


Figure I-72. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 47.9R.

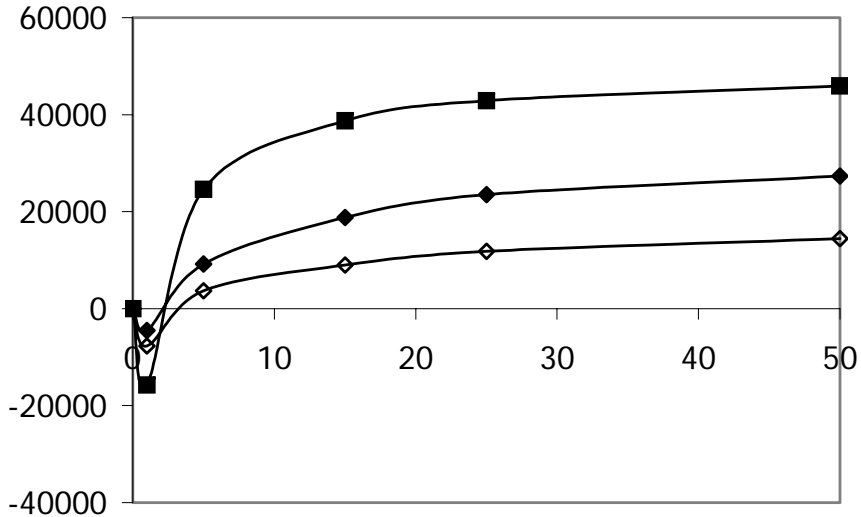
FALL



WINTER



SPRING



SUMMER

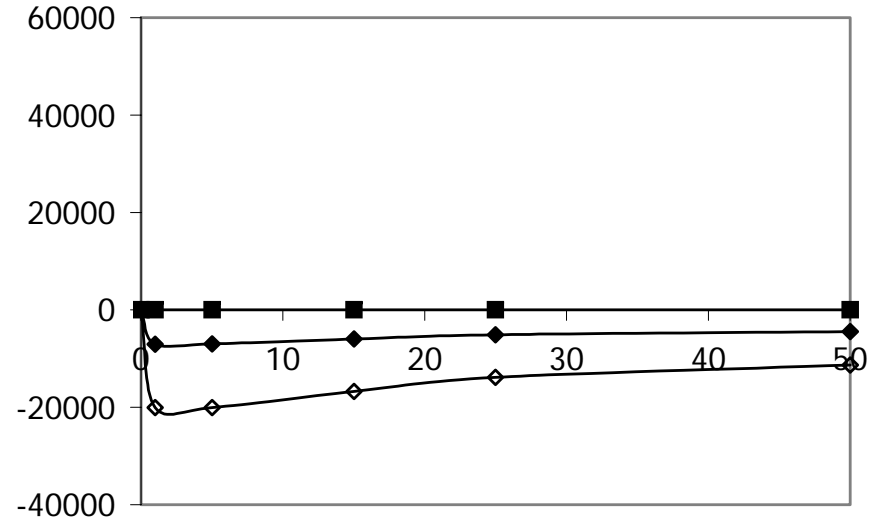
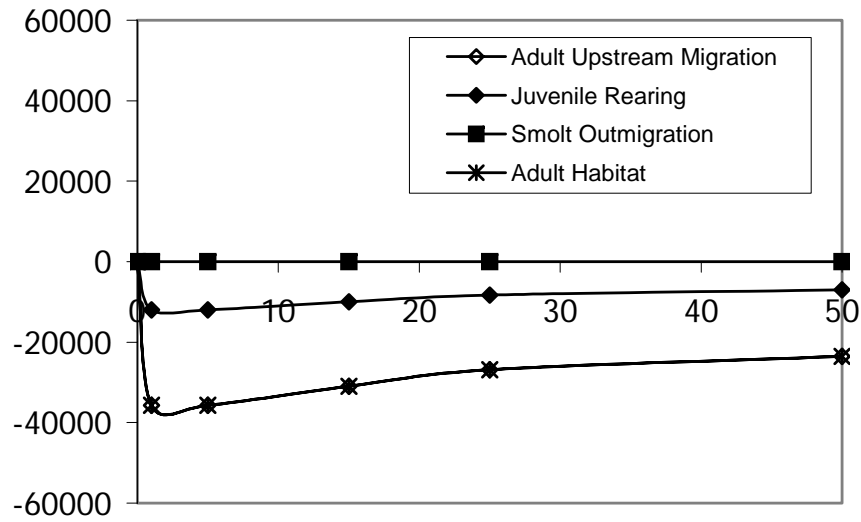
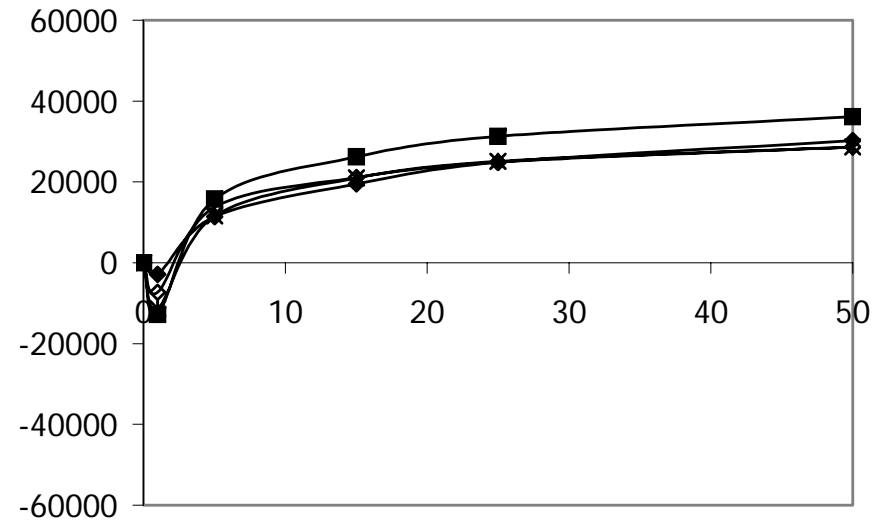


Figure I-73. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 48.2R.

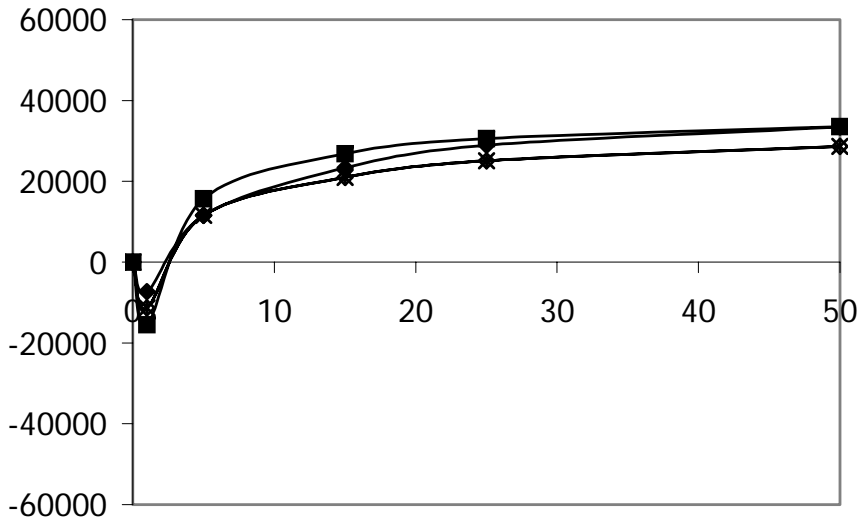
FALL



WINTER



SPRING



SUMMER

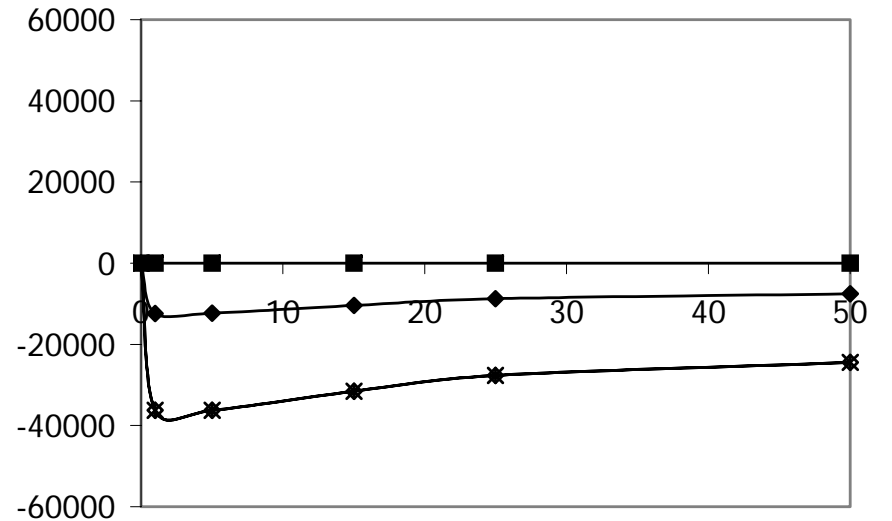
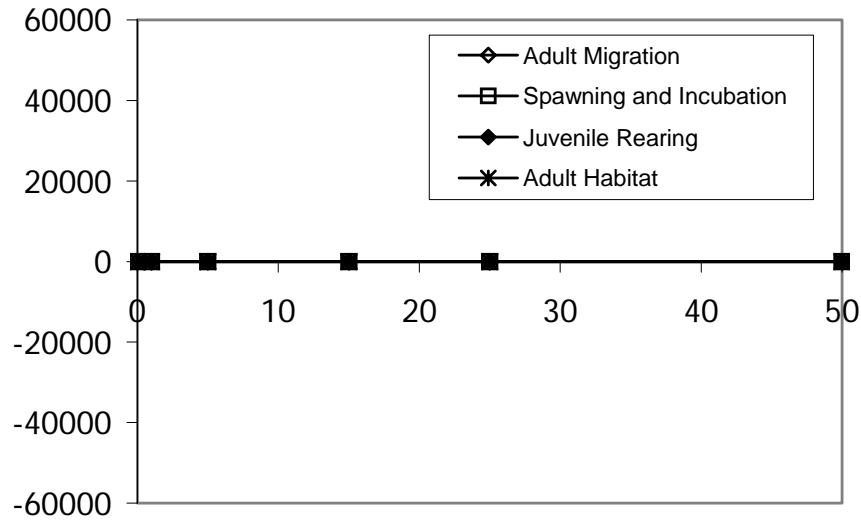
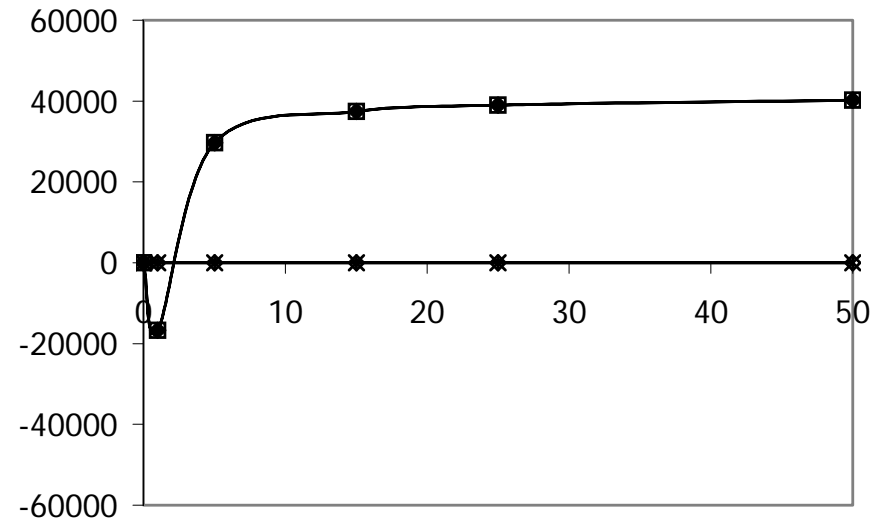


Figure I-74. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 48.2R.

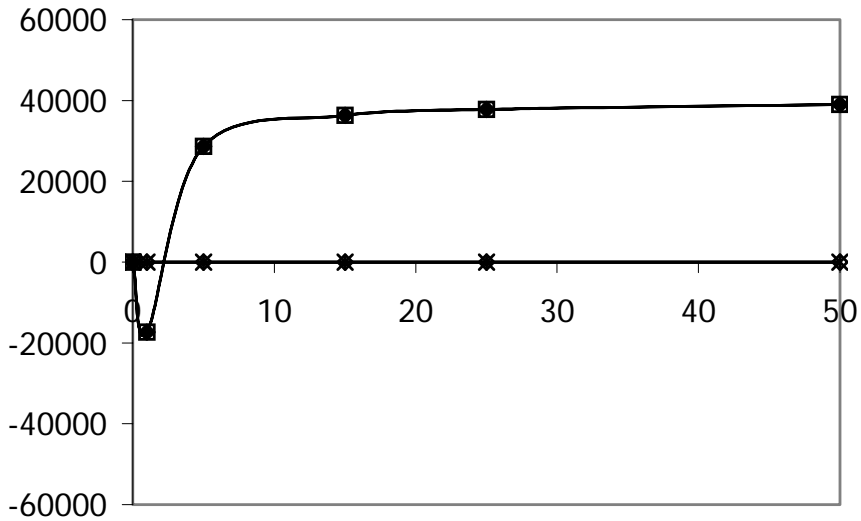
FALL



WINTER



SPRING



SUMMER

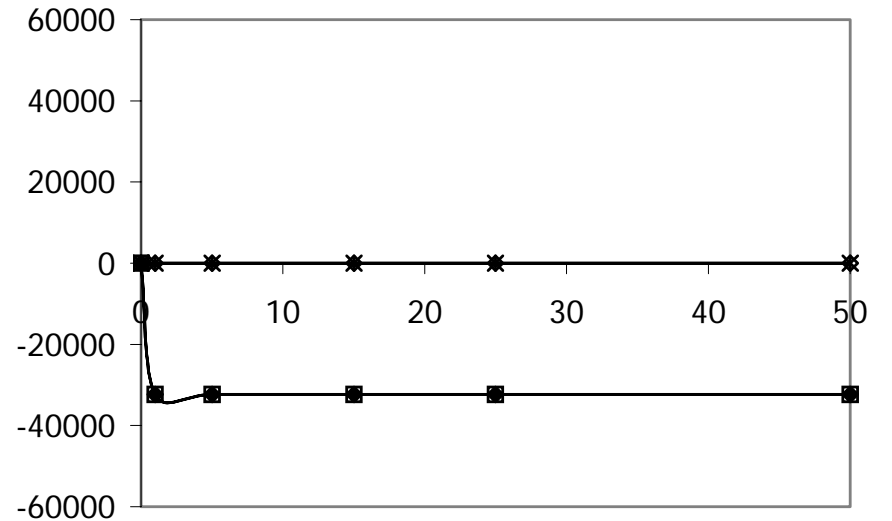
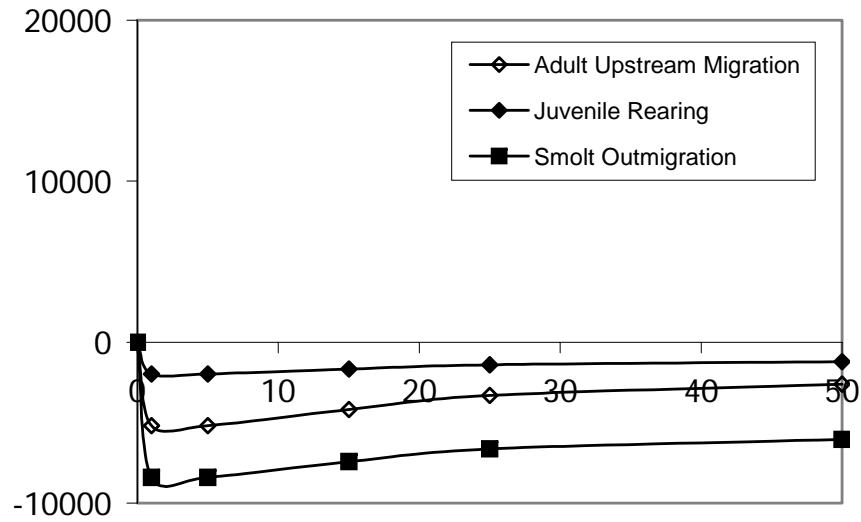
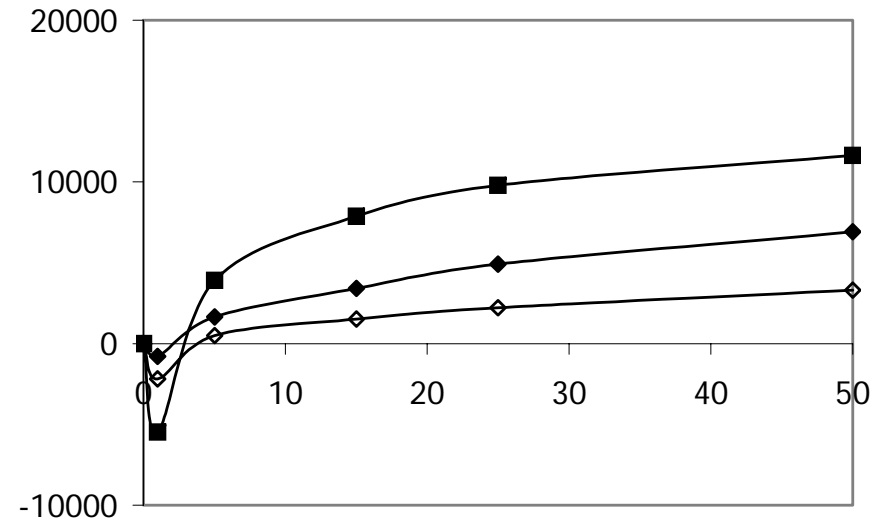


Figure I-75. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 48.2R.

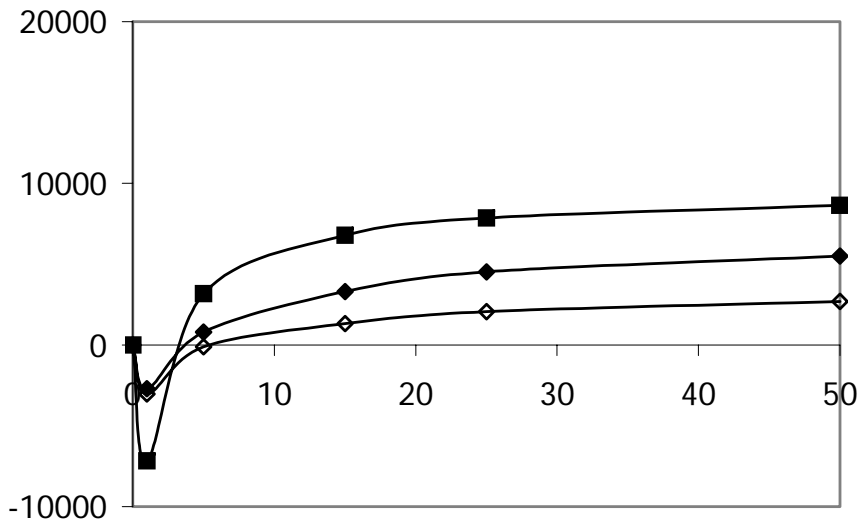
FALL



WINTER



SPRING



SUMMER

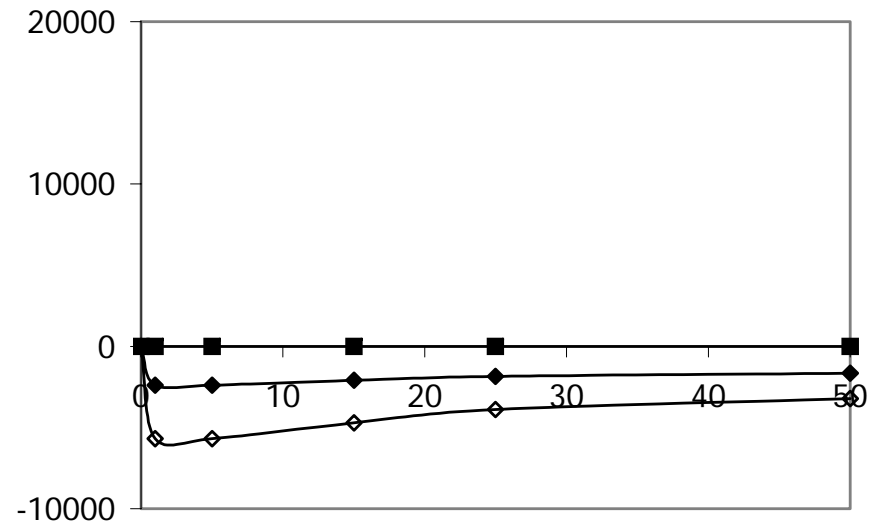
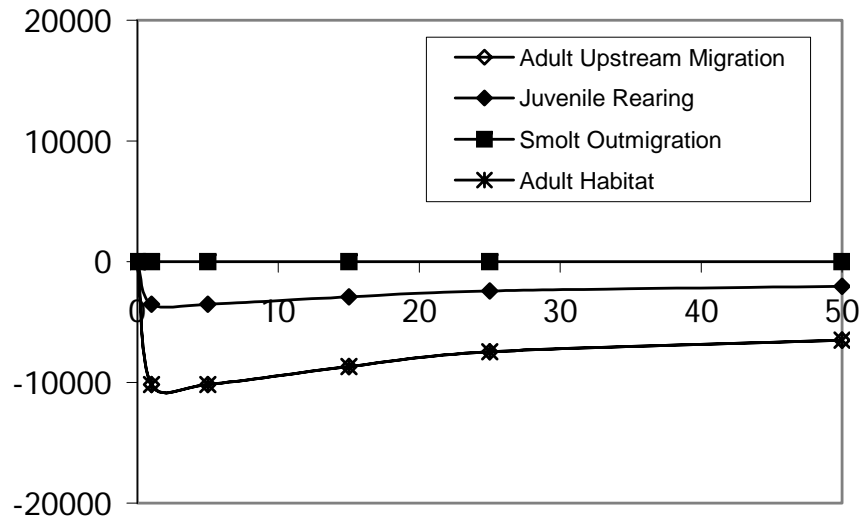
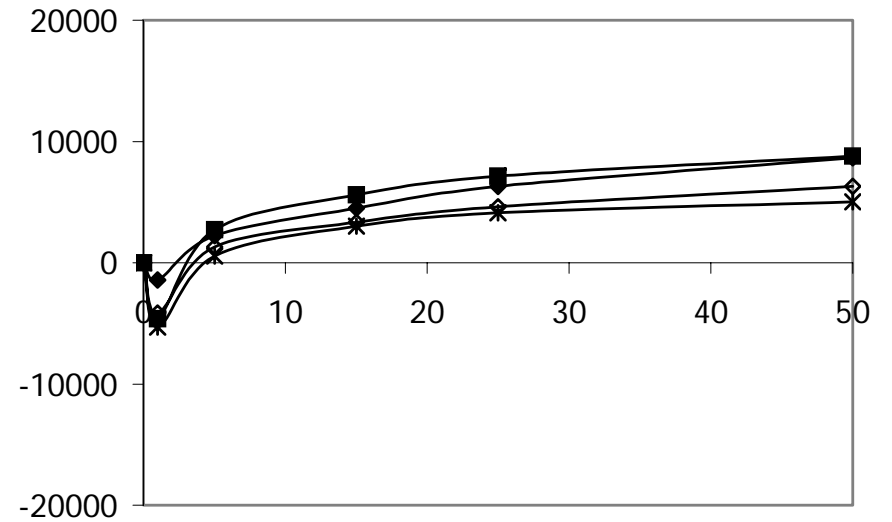


Figure I-76. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 62.5R.

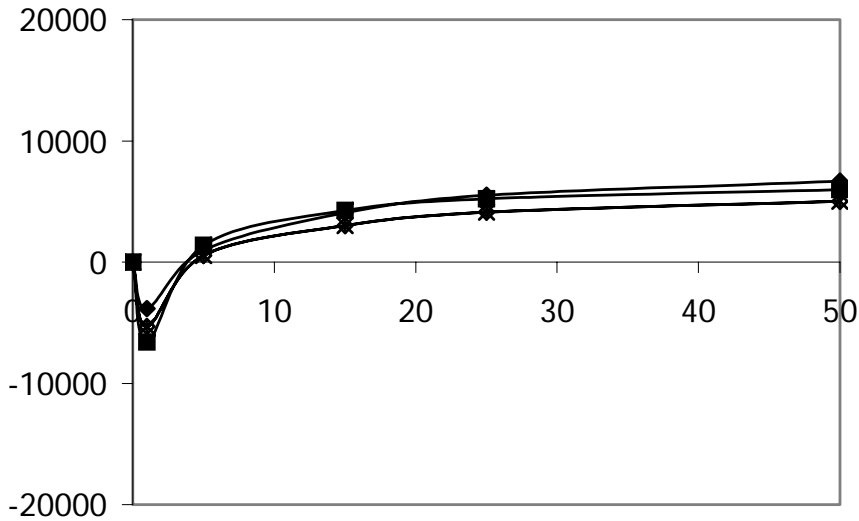
FALL



WINTER



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SUMMER

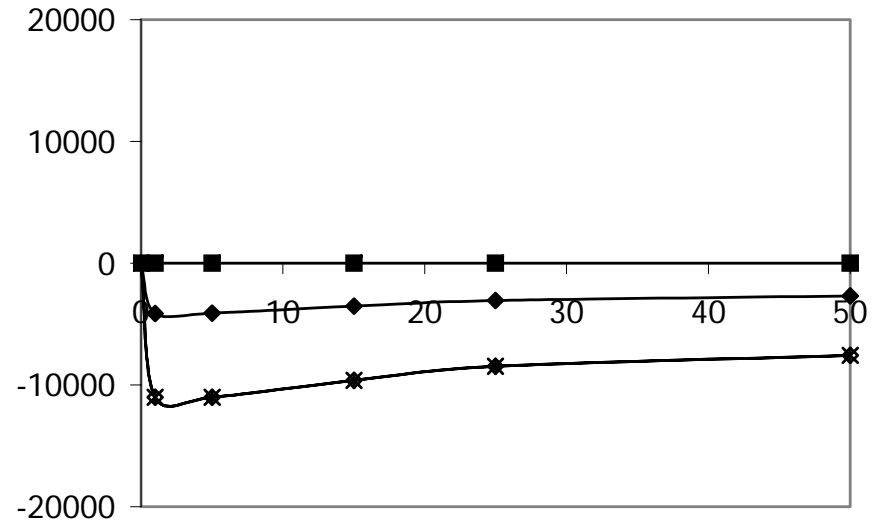
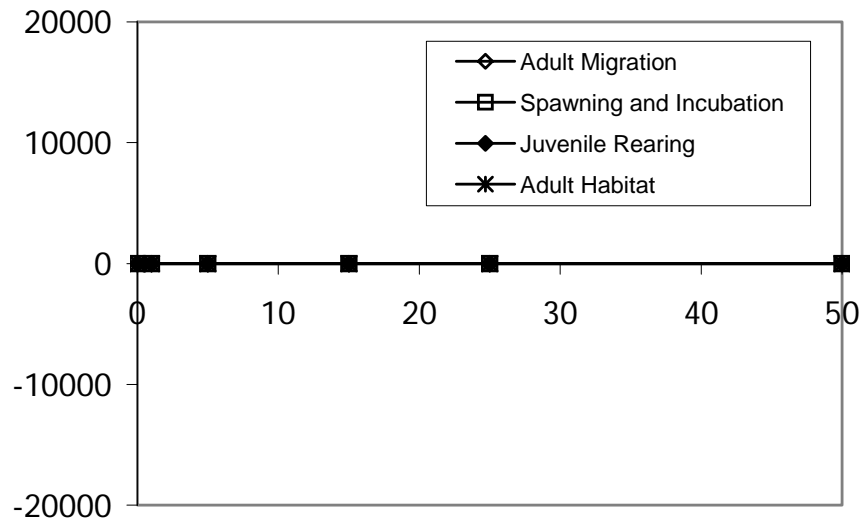
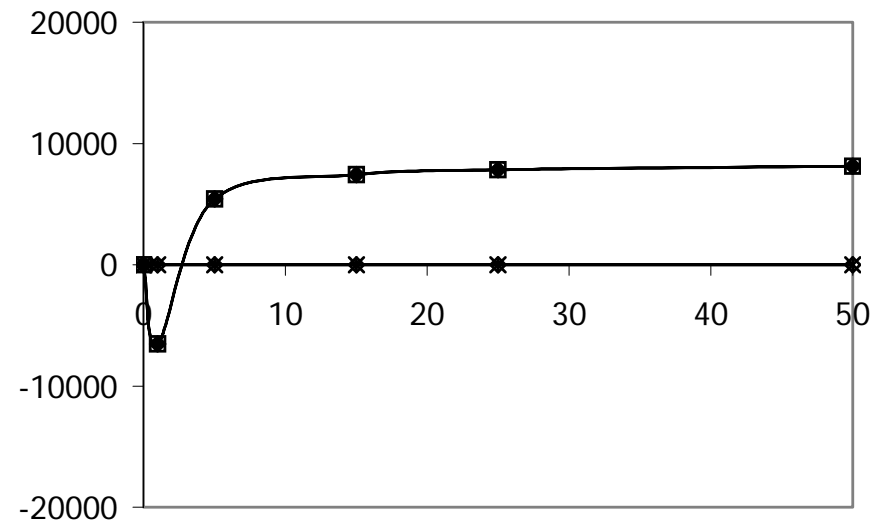


Figure I-77. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 62.5R.

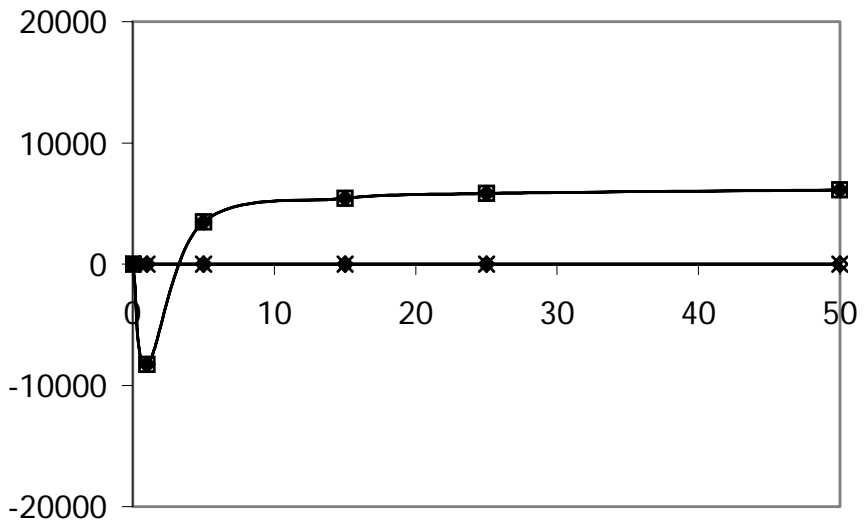
FALL



WINTER



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SUMMER

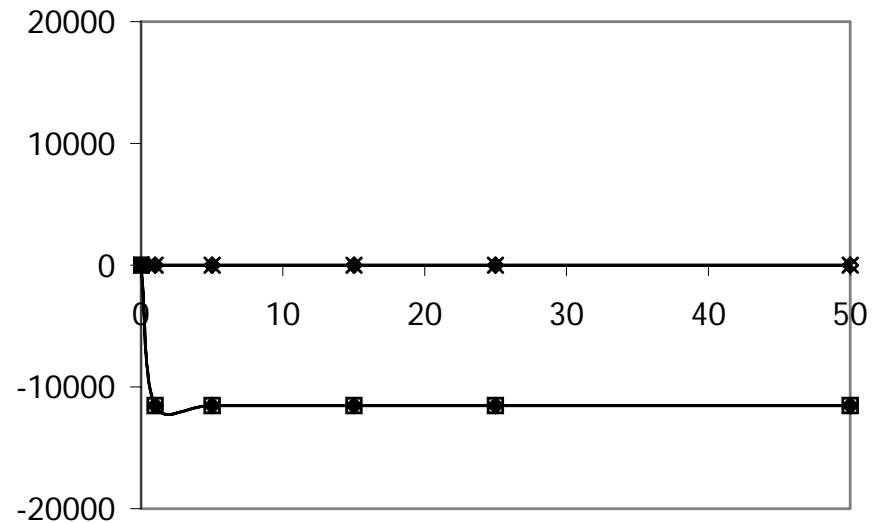
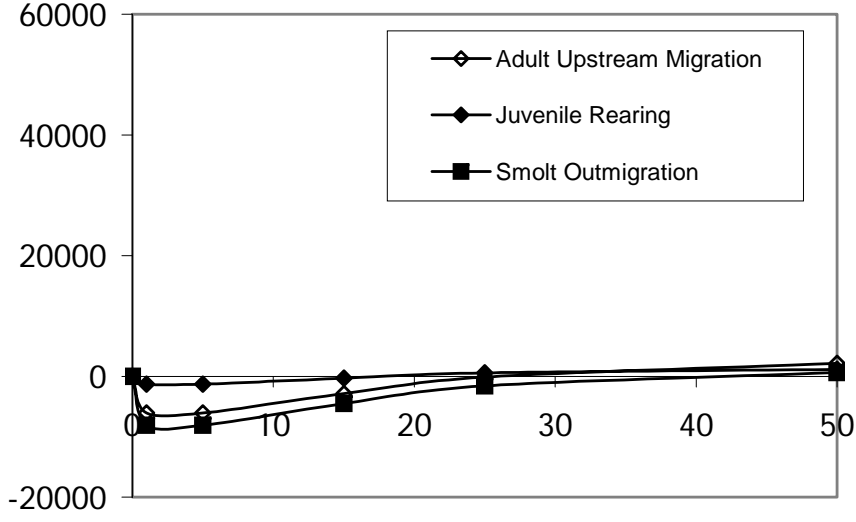
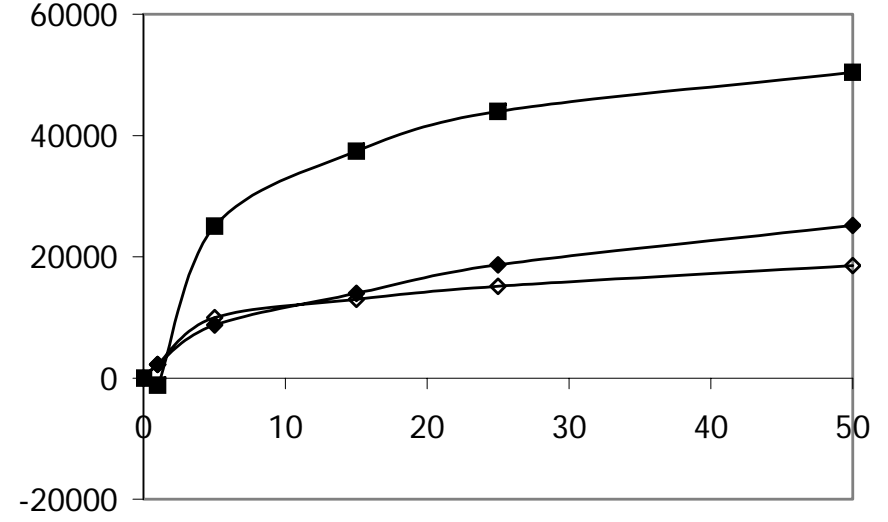


Figure I-78. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 62.5R.

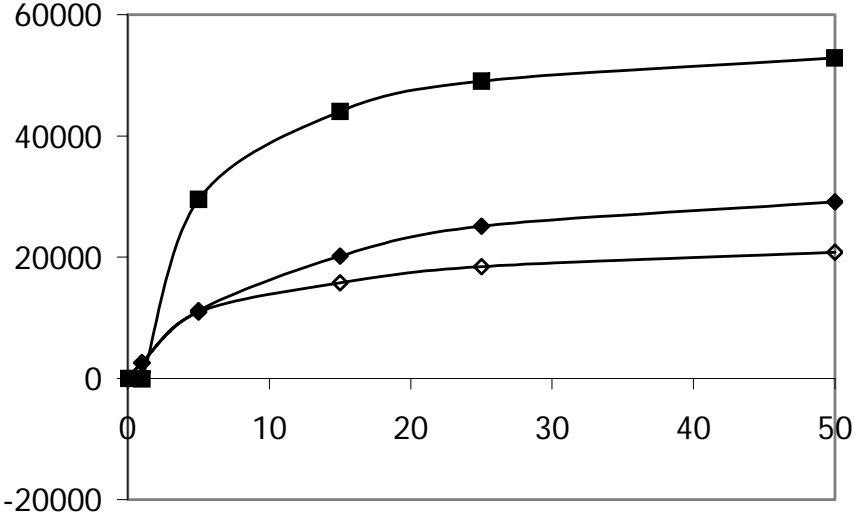
FALL



WINTER



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SUMMER

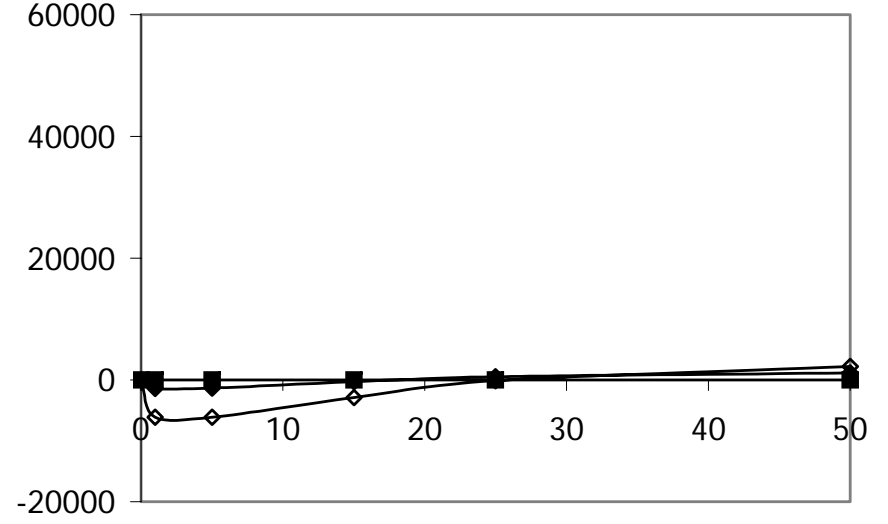
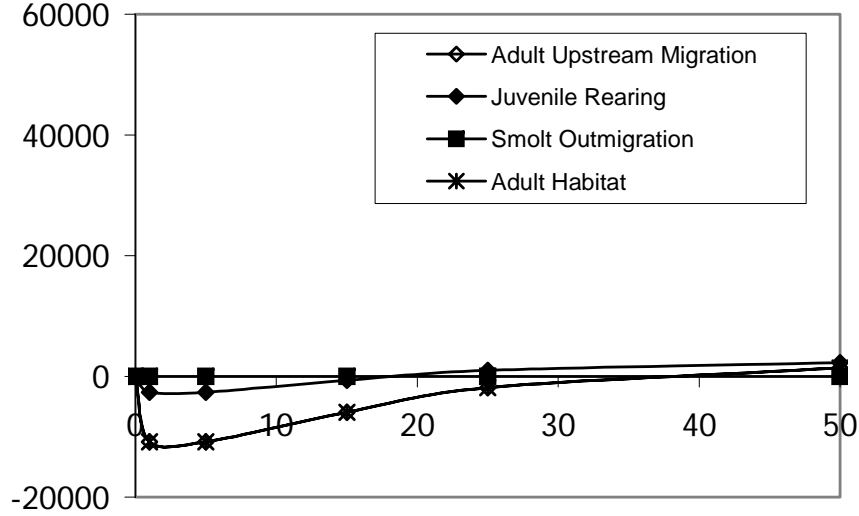
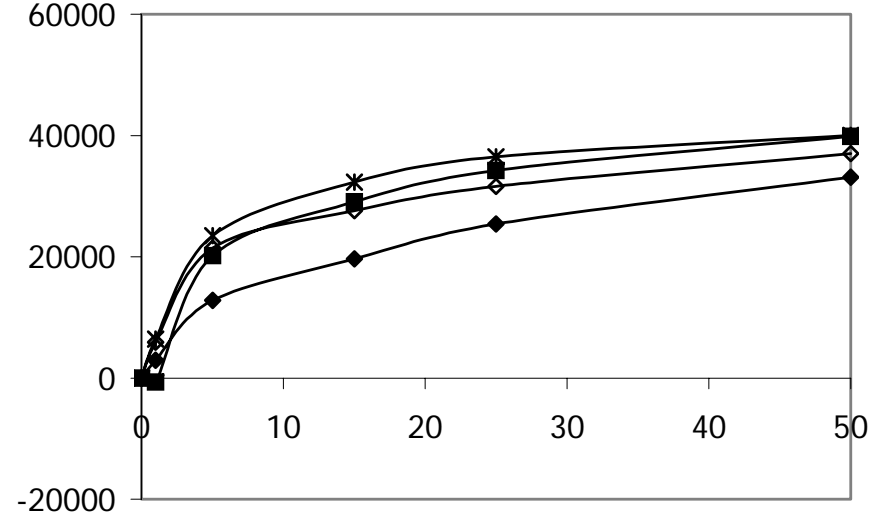


Figure I-79. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 68.9L.

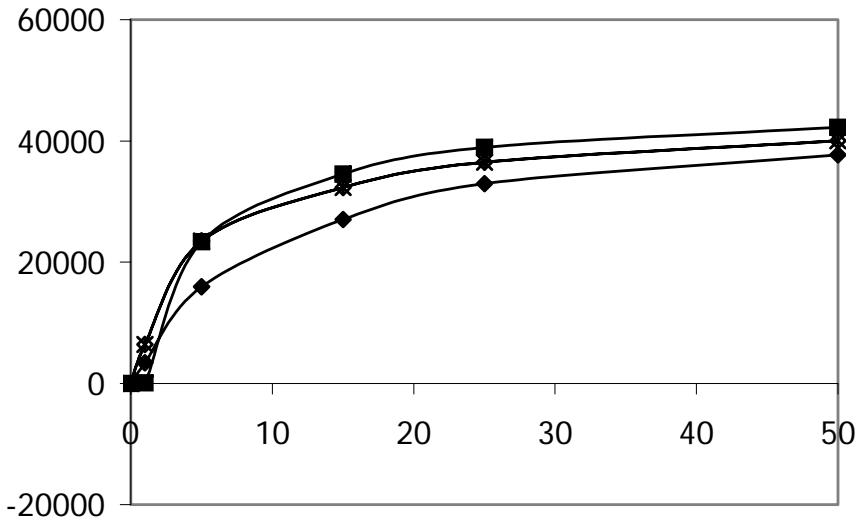
FALL



WINTER



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SUMMER

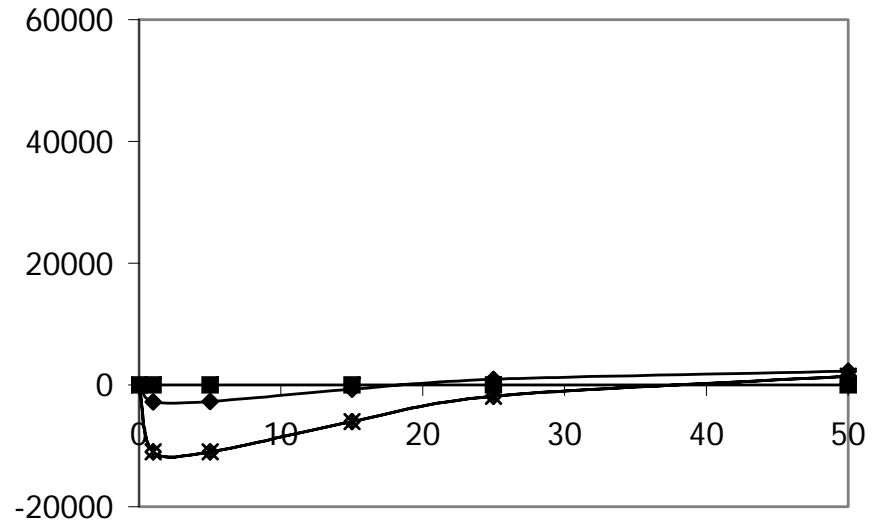
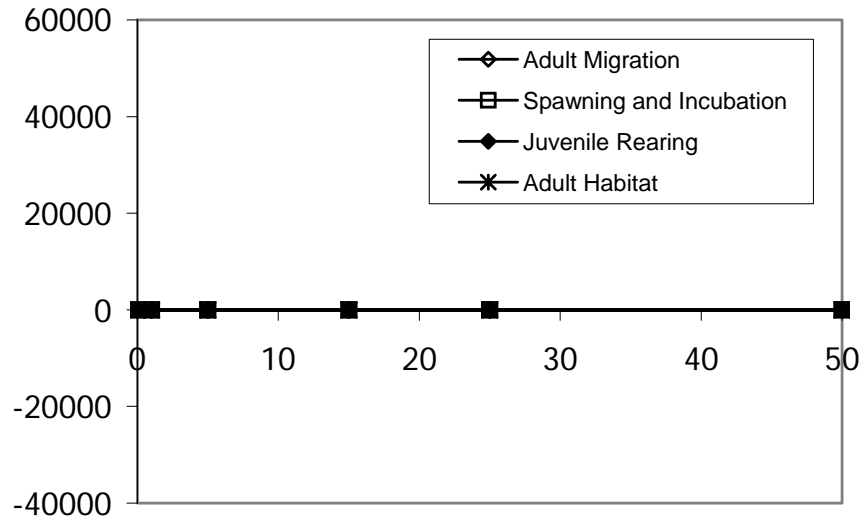
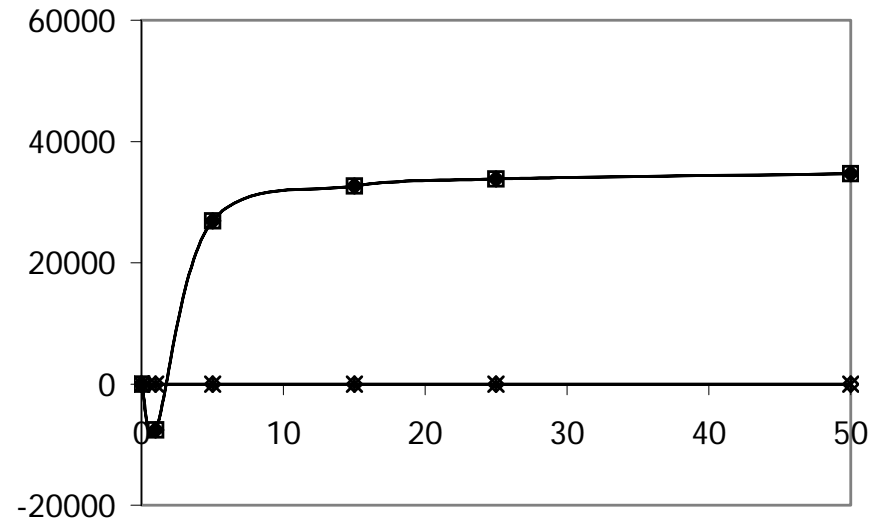


Figure I-80. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 68.9L.

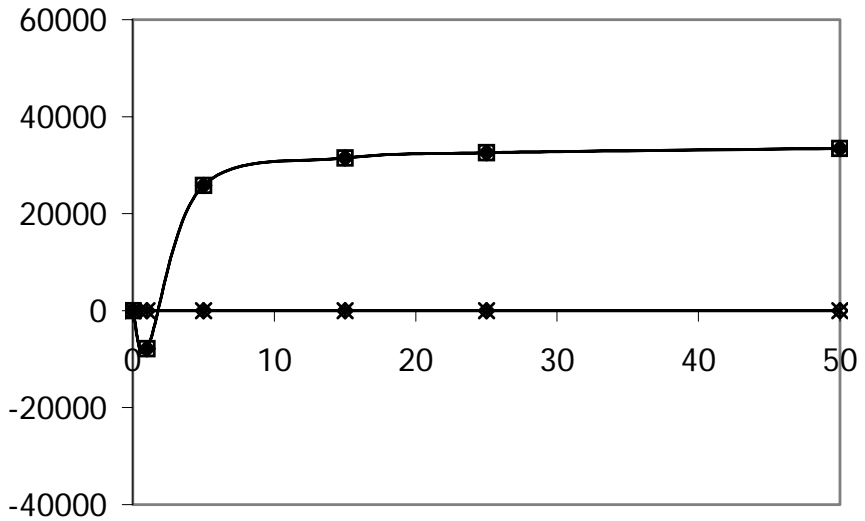
FALL



WINTER



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SUMMER

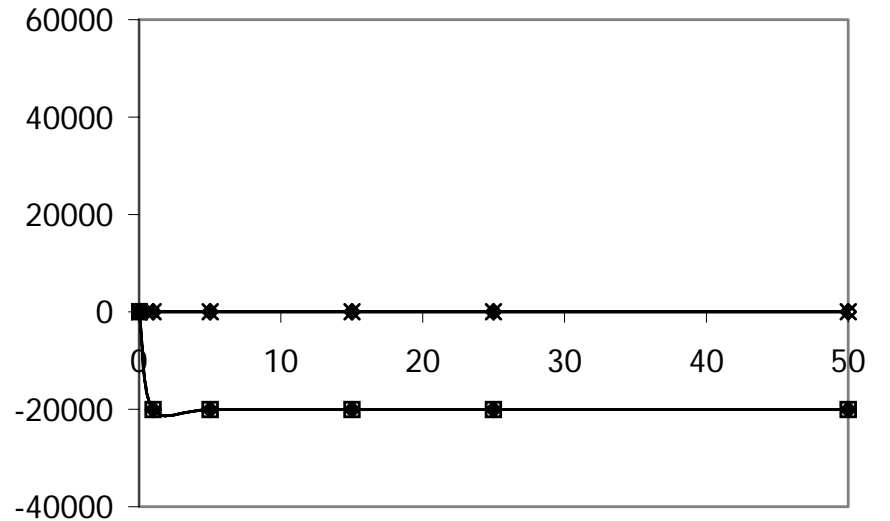
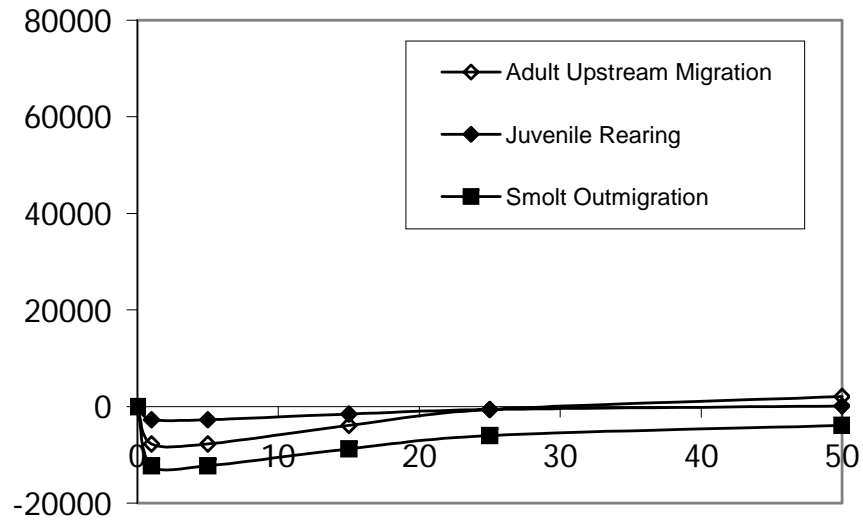
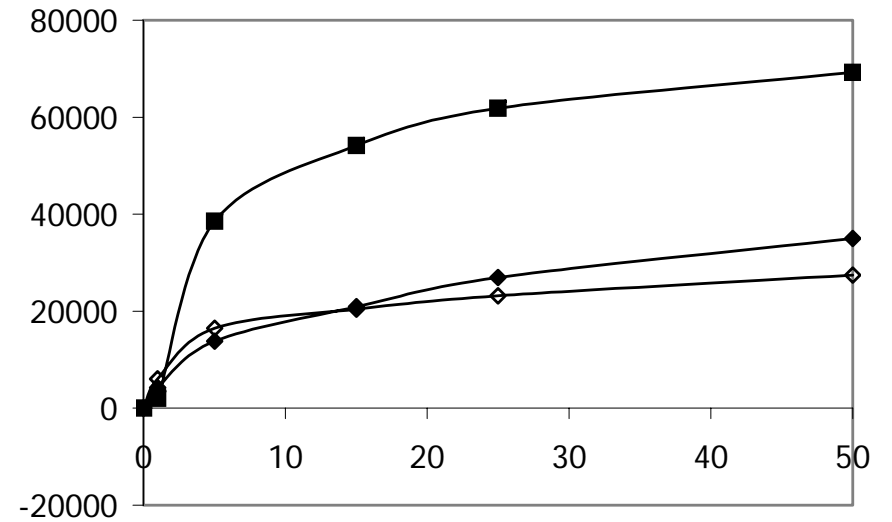


Figure I-81. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 68.9L.

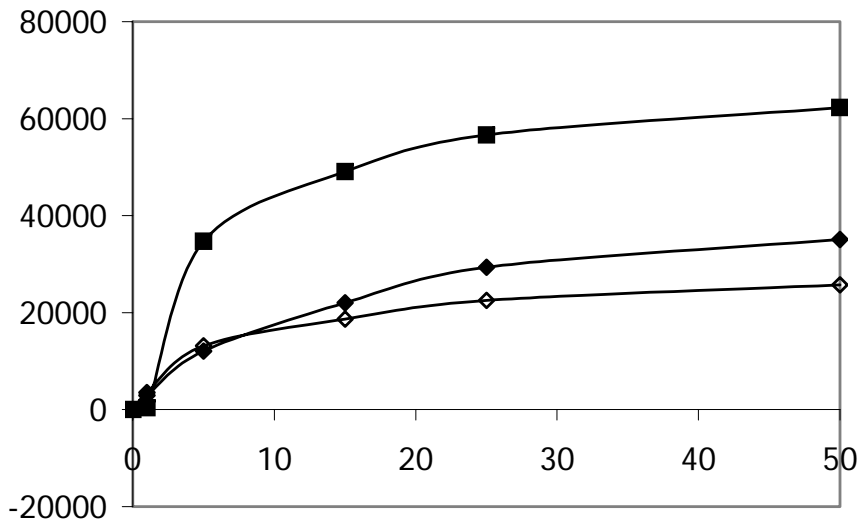
FALL



WINTER



SPRING



SUMMER

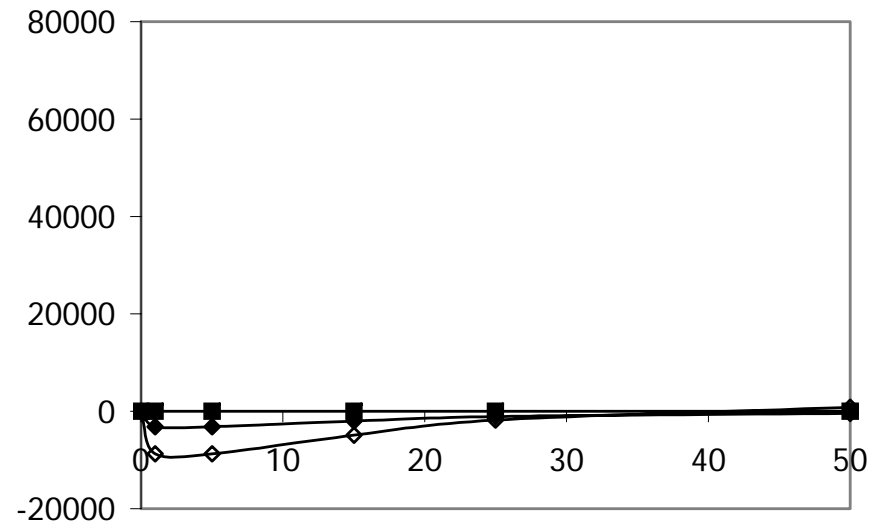
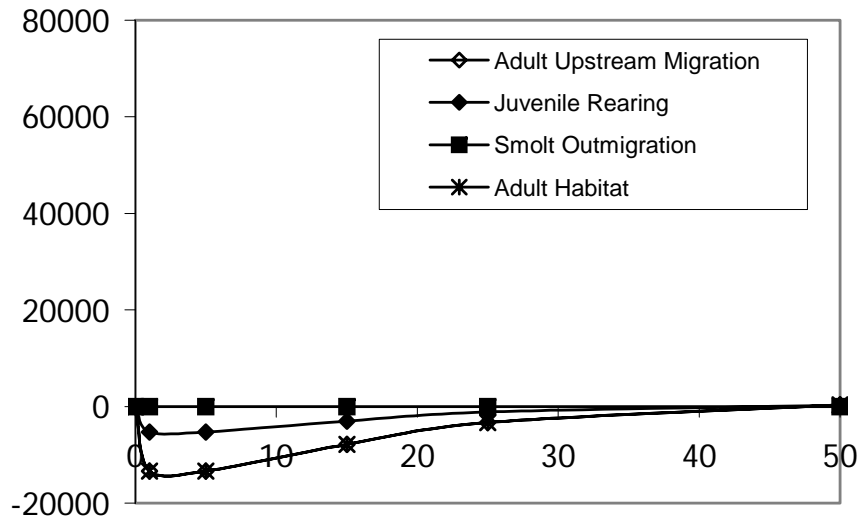
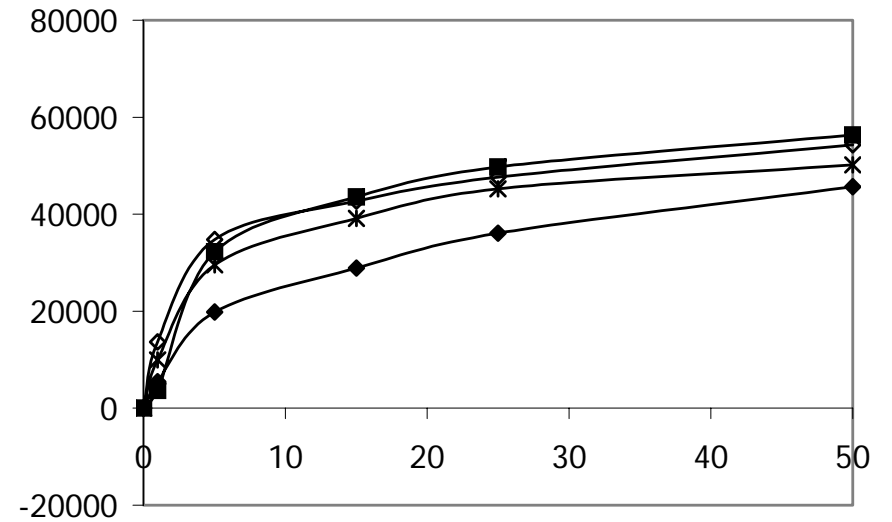


Figure I-82. SAM results showing wetted-area weighted relative response (square feet) for Chinook salmon (Winter-run shown) at Site RM 78.0L.

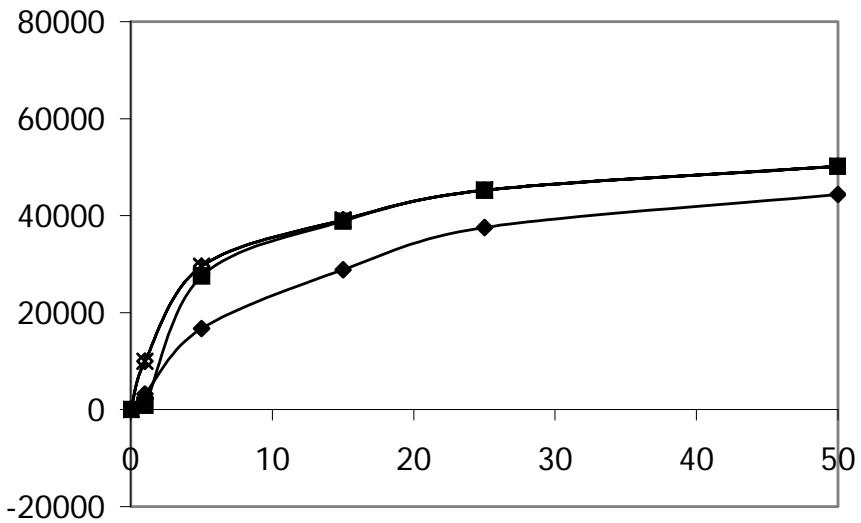
FALL



WINTER



SPRING



SUMMER

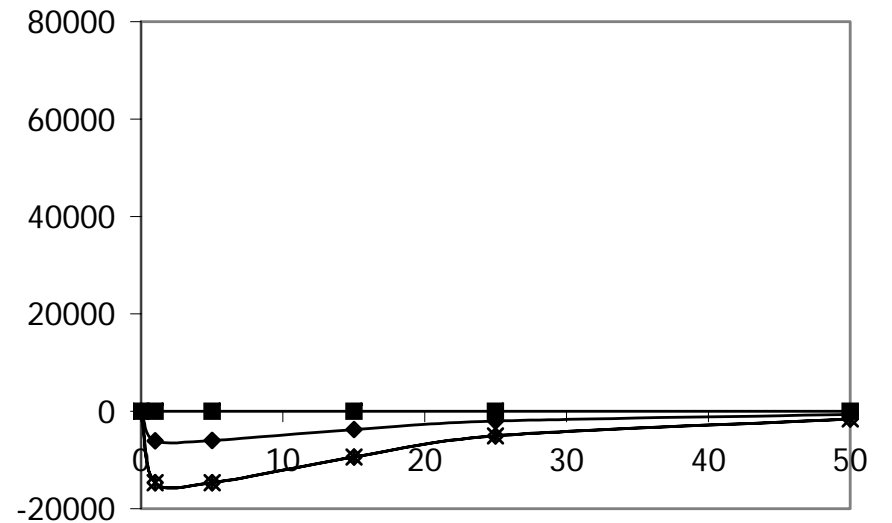
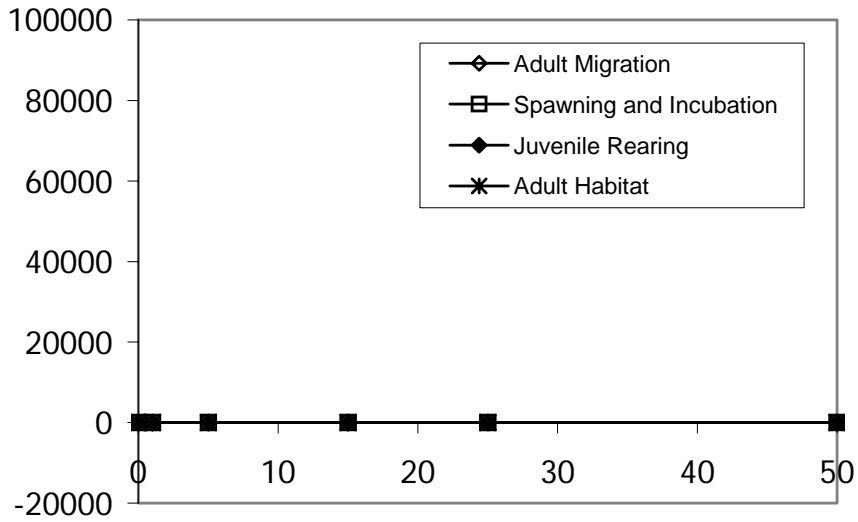
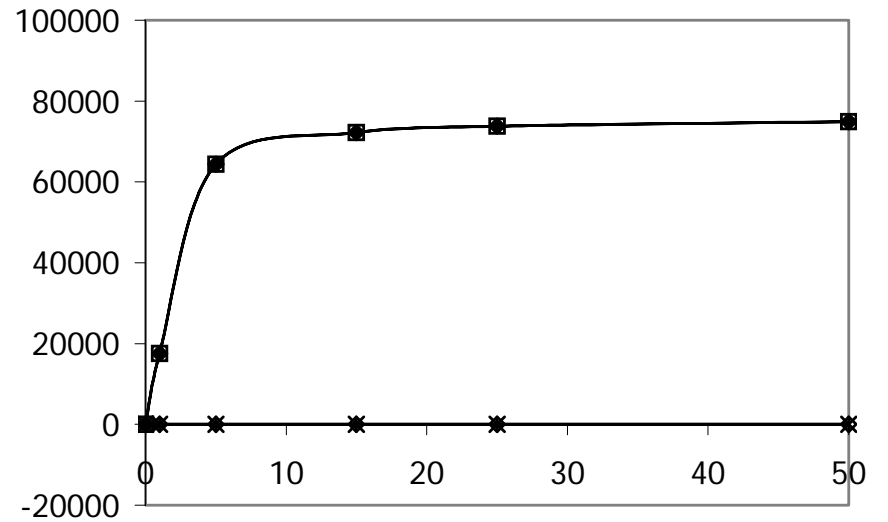


Figure I-83. SAM results showing wetted-area weighted relative response (square feet) for Central Valley steelhead at Site RM 78.0L.

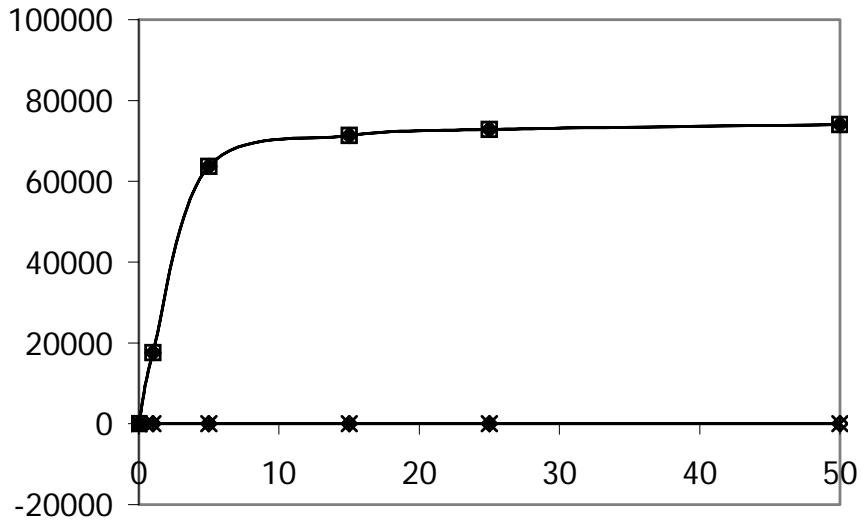
FALL



WINTER



SPRING



SUMMER

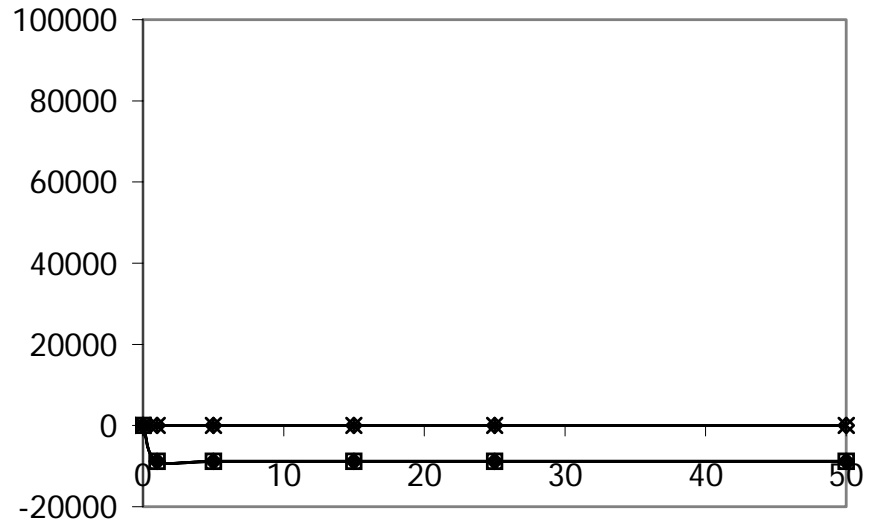


Figure I-84. SAM results showing wetted-area weighted relative response (square feet) for Delta smelt at Site RM 78.0L.

Appendix J

Response to Public Comment on Draft EA

Comment letter no.1 – Sutter Island Resident, Marilyn Bessey

To: Mike Dietl, Fishery Biologist, U. S. Army Corps of Engineers:

As a home/property owner on the Sacramento River, Sacramento County, in an area scheduled for inclusion in the Sacramento River Bank Protection Project, I am concerned that the planning documents do not appear to include any type of signage be posted to warn people of the hazards created by this project. Specifically, I feel signage should be posted to warn boaters that there may be submerged hazards along the banks of the river, extending 10 feet out into the river, which are not visible during high water time frames. Recreational uses of the river include boating, jet skiing , water skiing, camping and fishing. These are a few of the more popular activities enjoyed by our citizens.

I support the protection project and am appreciative of the increased level of safety from flooding it will provide my family and others living in the area. But, the potential for bodily injury and personal property damage to the river's recreational users (which includes my family-we are a boating/skiing family) is magnified by the upcoming construction. For this reason I request signage be posted as a part of the project to warn the population of these new safety hazards.

Thank you for your consideration.

Sincerely,

Marilyn R. Bessey
12210 River Road
Sutter Island
California, 95615

Sent to Mike Dietl via email on Tuesday, December 12, 2006 1:01 PM

Response to Comment Letter No. 1- Sutter Island Resident, Marilyn Bessey:

The Final EA includes providing signage and/or buoys at each of the critical sites to warn people of potential hazards during construction. .