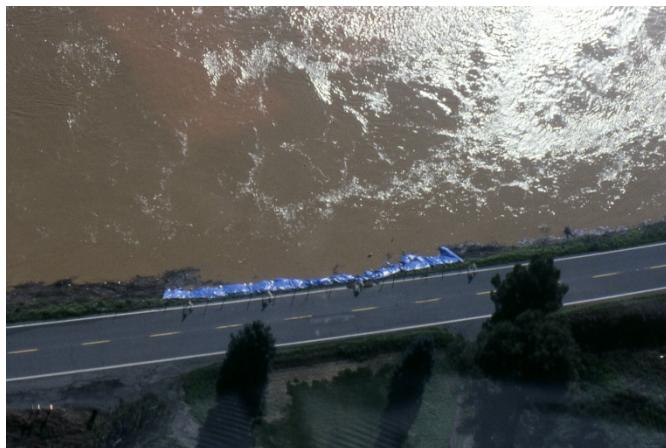


American River Watershed Project

Post-Authorization Change Report
And Interim General Reevaluation Report
American River Watershed
Common Features Project
Natomas Basin
Sacramento and Sutter Counties, California



**US Army Corps
of Engineers ®**
Sacramento District

Appendix G – Cost

October 2010

(B L A N K)

APPENDIX G **COST ENGINEERING**

1. BASIS OF DESIGN

This estimate is based on the draft report:
American River Common Features Project,
Natomas Post Authorization Change Report and Interim General Reevaluation
Report

The type of solicitation is expected to be unrestricted IFB.

Civil Design quantities are per three AE's (HDR, Wood Rodgers and Mead & Hunt) with spot checking by SPK. HDR also provided "bare cost" estimates for Pumping Plant modifications, Riverside Canal and well relocations.

2. PROJECT SCOPE/DESCRIPTION

The project area is comprised of nine reaches, designated A through I for economic evaluation and construction sequencing purposes. Costs for both the NED and locally preferred plan (LPP) have been developed. The Sacramento Area Flood Control Agency (SAFCA) has completed construction, or is in the process of doing so, much of the work in Reaches B, C & D (sans Pumping Station Modifications). These costs are shown as either sunk (omitted) for contracted work expected to be completed before 10/2010 or as Section 104 work for ongoing projects SAFCA is providing for.

The description of each reach, and typical work involved, is as follows:

- Reach A: SREL from Interstate Highway 5 north to San Juan Road. (Adjacent levee, cutoff wall, Irrigation Canal, Pumping Plant Relocations (3) and Private Irrigation Facilities (1))
- Reach B: SREL from San Juan Road north to Elverta Road. (Adjacent levee, cutoff wall, seepage berm, Irrigation/Drainage Canals (2), Pumping Plant Relocations (4))
- Reach C: SREL from Elverta Road north to Sankey Road at the west end of the south levee of the NCC. (Adjacent levee, cutoff wall, seepage berm, Irrigation/Drainage Canals (2), Pumping Plant Relocations (2), Private Irrigation Facility)
- Reach D: NCC south levee from Sankey Road north to Howsley Road. (Cutoff wall, Pumping Plant Relocations (3))
- Reach E: PGCC west levee from Howsley Road north to Sankey Road. (Cutoff wall, Vinyl Sheet Pile, Private Irrigation Facilities (4))
- Reach F: NEMDC west levee from Sankey Road south to Elverta Road. (Cutoff wall, Drained stability berm, flattened landside levee slope, Private Irrigation Facilities (5))

- Reach G: NEMDC west levee from Elverta Road south to the pumping station just upstream of Dry Creek. (Cutoff wall, Pumping Plant Relocations, Private Irrigation Facilities (4))
- Reach H: NEMDC west levee from the pumping station just upstream of Dry Creek south to Northgate Boulevard. (Cutoff wall, Jet Grouting, Pumping Plant Relocations (2))
- Reach I: ARNL from Northgate Boulevard south to Interstate Highway 5. (Cutoff wall, Pumping Plant Relocations)

3. TOTAL PROJECT COSTS (SEE ATTACHED)

The costs shown in the attached Total Project Cost (TPC) summary sheets are developed from two sources (1) bid data from various projects put forth by SAFCAs for the Natomas Levee Improvement Project (Reaches B, C and D) and (2) feasibility level plans and associated quantities developed by three AE firms, HDR, Wood Rodgers, and Mead & Hunt (Reaches A, E, F, G, H and I plus work remaining in Reaches B, C and D). Costs were developed primarily through the use of MII and the local 'database' of construction methods (labor, equipment, and materials cost data, construction crews and anticipated production rate, anticipated borrow and disposal sites, etc). These are relatively up-to-date (June 2010 Davis-Bacon rates, recent quotes for bulk materials, but only 2007 MII equipment rates). First Costs are based on 1 Oct 2010 price levels escalated to the anticipated construction schedules.

4. MII COST ESTIMATE (SEE ATTACHED) - NOTES & ASSUMPTIONS

OVERTIME

Overtime is included in this estimate. Assumption is 10 hr days, 6 days/week.

ACQUISITION PLAN

Construction Contracts are assumed to be design-bid-build, lowest competitive price.

CONTRACTING PLAN

The prime contractor is expected to be an earthwork contractor responsible for the general site work, borrow site excavation, levee degrading and rebuilding to the restored or new levee height.

Subcontractors are provided for two categories, miscellaneous/general and trucking:

Miscellaneous/General Subcontractors are expected to be utilized for cutoff wall placement, pumping plant relocations, bridge relocations, jet grouting, sheet pile work, paving and hydroseeding.

PROJECT CONSTRUCTION

The project consists of 9 reaches (A-I) with multiple utility relocations for penetrations through the levees (primarily pumping plants and private irrigation

facilities). Should the LPP ultimately be constructed, several bridges will also be raised.

SITE ACCESS

The project sites encompass the perimeter of the Natomas Basin in the Sacramento, CA area and are accessible by paved local roads. Certain reaches (B, C, D & E) are of close enough proximity to borrow areas that scrapers are a viable option for degrading of levees and levee restoration.

BORROW \ DISPOSAL AREAS

Many potential borrow areas have been identified in or very near to (such as the "Triangle") the Natomas basin and these are expected to provide the borrow required. Disposal of Debris is normal.

CONSTRUCTION METHODOLOGY

The construction methodologies are considered standard, except for deep (greater than 85 ft) cutoff wall excavation & placement. Below this depth a conventional long reach hydraulic excavator cannot be used. The method provided in the cost estimate opts for the contractor to utilize a hydraulic clamshell in excavating to the lower depths of the wall (the lower 18.5 ft for the extreme depth walls, 103.5 ft deep). The estimator realizes that production by the clamshell is much slower than that of the excavator but the extra depth is approximately 20% of that for the excavator and it is believed the 18.5 ft done by the clamshell will allow it to roughly keep up with the 85 ft done by the excavator. Other methods such as deep-soil-mixing are expected to be a contractor option. Deep soil mixing was examined but is expected to be slightly less cost effective than excavator/clamshell at this depth.

UNUSUAL CONDITIONS

No unusual conditions.

UNIQUE TECHNIQUES OF CONSTRUCTION

Proximity of existing bridge abutments or retaining walls require that jet grouting be performed in lieu of placing slurry cutoff walls in two short lengths of Reach H.

EQUIPMENT AND LABOR AVAILABILITY & DISTANCE TRAVELED

In an urban area such as Sacramento, equipment and labor is readily available within a 100 mile radius of the site.

ENVIRONMENTAL CONCERNs

Environmental protection requires consideration of air, water, and land, and involves noise, solid-waste management and management of other pollutants. In order to prevent or provide for abatement and control of any environmental pollution arising from the work activities, the Contractor and his subcontractors in the performance of this contract, shall comply with all applicable Federal, State, and local laws, and regulations concerning environmental pollution control and

abatement. The Contractor shall use best management practices at all times to minimize the potential for environmental impacts. A running 2% markup on construction equipment is provided to account for air quality considerations.

LABOR RATES, EQUIPMENT RATES, MATERIAL COSTS & SALES TAX
This estimate meets Davis Bacon wage rates for Davis Bacon wage determinations for the state of California, General Decision Numbers: CA 20100003 03/12/2010, CA 20100006 03/12/2010, CA 20100009 03/12/2010 and CA 20100026 03/12/2010.

Equipment unit costs were obtained from Quotes or verbal/telephone conversations with Contractors performing like or similar work and the MCACES Equipment Library.

Material prices were obtained from Quotes, supply catalogs, previous similar estimates, and the MCACES Cost Book.

Sales tax is applied at 8.75%.

PRODUCTION RATES

Productivity/Task Durations are based on production for 50 minutes/hr for meetings/breaks, accessing the working area/office trailer to get supplies.

BRIDGE RAISING COSTS

These were provided by Wood Rodgers an AE firm who provided the civil design for Reaches D-H. The costs are within reason when compared to "Comparative Bridge Costs" (January 2010) as set forth by Caltrans.

Note: Gasoline and diesel fuel costs used in the estimate are the average costs in the Sacramento area as of July 2010. Off-road diesel costs are assumed at 90% of on-road.

5. CONTRACTOR MARKUPS

Profit is included for the prime contractor (8.48% based on PWG). Home Office Overhead is considered to be 7% for these relatively large projects. Job/Field Office Overhead (JOOH) is set at 10% for all reaches except Reach I, where it is set at 23%. Small Tool Markup is set at a running 2% of Labor costs. Bond is set at 0.7%.

Initially, JOOH was calculated independently for each reach (based on the developed construction schedule) with Small Tools set at 2% of Prime Contractor Labor. It is considered very likely however, that the contractors will be given the full construction season to complete the work (2 seasons in the case of Reach A). Reaches A-H typically showed a JOOH in the 8-11% range, with an average of about 9.5%. 10% was therefore chosen to be used uniformly in those reaches.

Reach I has a somewhat higher JOOH due to a shorter calculated construction duration extended to allow the full construction season.

Likewise, bond was initially calculated based on Bond Class B. A weighted average was used for conformity of costs between like work in the NED vs the LPP.

Miscellaneous/General Subcontractors have profit set at of 10% , Home Office Overhead at 12% and Job Office Overhead at 15% (performs the majority of the cutoff wall/jet grouting/sheet pile/pumping plant/bridge work). Bond is set at 0.8%.

The Trucking/Hauling Subcontractors have profit set at of 10%, Home Office Overhead at 10% and Job Office Overhead at 5%. Bond again is set at 1.0%.

6. CONSTRUCTION SCHEDULE (SEE ATTACHED)

Total Project Schedules including design, pre-construction, construction and post construction were developed using MS Project with construction durations based on those developed in MII. These were used to insure the project reaches could be completed within the construction windows and with the anticipated crews. It was determined that Reaches A, B, E, F, G & H will require two crews for slurry wall construction, excavation at the borrow areas and levee restoration. It was determined that Reach A would also require two construction seasons due to the long construction period for the deep slurry walls.

CONSTRUCTION WINDOWS

The estimate considers the construction work window for major construction activities to be May-Oct, April and November are available for mobilization and demobilization of equipment and non-flood protection items such as hydroseeding that do not change the effectiveness of flood control and drainage system.

7. COST RISK ANALYSIS (SEE ATTACHED)

The scope of the risk analysis was to calculate and present the cost and schedule contingencies at the 80 percent confidence level using the risk analysis processes, as mandated by U.S. Army Corps of Engineers (USACE) Engineer Regulation (ER) 1110-2-1150, Engineering and Design for Civil Works, ER 1110-2-1302, Civil Works Cost Engineering, and Engineer Technical Letter 1110-2-573, Construction Cost Estimating Guide for Civil Works. The study does not include consideration for operation and maintenance or life cycle costs.

NOTE: Also attached are summary sheets of Annual Costs and a Summary Project Costs.

****TOTAL PROJECT COST SUMMARY****												8/26/2010
THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE POST AUTHORIZATION CHANGE REPORT, NED PLAN												
PROJECT: NATOMAS PACR LOCATION: CALIFORNIA												U. S. ARMY CORPS OF ENGINEER, SACRAMENTO DISTRICT P.O.C.: JOE W. YEE, CHIEF, COST ENGINEERING SECTION
Current MCACES Estimate Prepared: 16-Aug-2010						AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010					FULLY FUNDED ESTIMATE... (3.....)
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB COST (\$K)	FULLY FUNDED COST (\$K)
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.												
Total			Contingency Applied To Remaining Cost Only						Sunk Cost Price Level (EPL): 1-Oct-2010			
FEDERAL COSTS												
6 FISH & WILDLIFE FACILITIES		15,175	3,694		18,869	15,175	3,694	18,869	1,865	15,996	3,945	19,941
Reach B		1,862	15	1	1,877	1,862	15	1,877	164	1,922	15	1,937
Reach C		1,926	0		1,926	1,926	0	1,926	1,701	1,926	0	1,926
Reach E		4,907	1,810	37	6,717	4,907	1,810	6,717	0	5,283	1,950	7,233
Reach H		6,480	1,869	29	8,349	6,480	1,869	8,349	0	6,865	1,980	8,845
11 LEVEES & FLOODWALLS	11	313,225	74,858		388,083	313,225	74,858	388,083	79,451	325,017	78,805	403,822
Reach A		55,084	17,509	32	72,593	55,084	17,509	72,593	0	56,858	18,072	74,930
Reach B		63,286	9,998	25	73,284	63,286	9,998	73,284	23,163	64,320	10,248	74,568
Reach C		21,972	257	39	22,229	21,972	257	22,229	21,321	22,034	281	22,315
Reach D		37,232	989	44	38,221	37,232	989	38,221	34,967	37,449	1,083	38,532
Reach E		30,569	11,738	38	42,307	30,569	11,738	42,307	0	32,916	12,640	45,556
Reach F		35,245	11,261	32	46,506	35,245	11,261	46,506	0	37,296	11,916	49,212
Reach G		25,543	9,472	37	35,015	25,543	9,472	35,015	0	27,485	10,191	37,676
Reach H		30,435	9,966	33	40,401	30,435	9,966	40,401	0	32,242	10,558	42,800
Reach I		13,859	3,668	26	17,527	13,859	3,668	17,527	0	14,417	3,816	18,233
13 PUMPING PLANT	13	42,044	14,091		56,135	42,044	14,091	56,135	0	44,793	15,117	59,910
Reach A		4,818	1,185	25	6,003	4,818	1,185	6,003	0	4,973	1,223	6,196
Reach B		13,840	3,375	24	17,215	13,840	3,375	17,215	0	14,400	3,512	17,912
Reach C		15,066	6,430	43	21,496	15,066	6,430	21,496	0	16,493	7,039	23,532
Reach D		2,820	1,387	49	4,207	2,820	1,387	4,207	0	3,089	1,520	4,609
Reach G		2,078	745	36	2,823	2,078	745	2,823	0	2,236	802	3,038
Reach H		2,227	654	29	2,881	2,227	654	2,881	0	2,359	693	3,052
Reach I		1,195	315	26	1,510	1,195	315	1,510	0	1,243	328	1,571
18 CULT. RESRC. PRESERV.	(1)	5,660	918	16	6,578	5,660	918	6,578	0	5,885	954	6,839
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		376,104	93,561		469,665	376,104	93,561	469,665	81,316	391,691	98,821	490,512
1 LANDS & DAMAGES, Admin	2	3,590	537		4,127	3,590	537	4,127	0	3,993	597	4,590
Reach A	A	666	99	15	765	666	99	765	0	692	103	795
Reach B		821	124	15	945	821	124	945	0	884	133	1,017
Reach C		256	39	15	295	256	39	295	0	314	47	361
Reach D		85	13	15	98	85	13	98	0	104	16	120
Reach E		346	51	15	397	346	51	397	0	405	60	465
Reach F		279	42	15	321	279	42	321	0	314	47	361
Reach G		210	31	15	241	210	31	241	0	246	37	283
Reach H		785	117	15	902	785	117	902	0	882	131	1,013
Reach I		142	21	15	163	142	21	163	0	152	23	175
1 LANDS & DAMAGES, Real Estate	C	10,301	4,064		14,365	10,301	4,064	14,365	0	10,769	4,267	15,036
Reach A		1,792	520	29	2,312	1,792	520	2,312	0	1,819	528	2,347
Reach B		4,147	1,701	41	5,848	4,147	1,701	5,848	0	4,278	1,755	6,033
Reach C		709	318	45	1,027	709	318	1,027	0	769	345	1,114
Reach D		1,580	932	59	2,512	1,580	932	2,512	0	1,714	1,012	2,726
Reach E		790	284	36	1,074	790	284	1,074	0	843	303	1,146
Reach H		1,283	309	24	1,592	1,283	309	1,592	0	1,346	324	1,670
30 PLAN/ENGINEERING/DESIGN	A	123,807	5,290		129,097	123,807	5,290	129,097	84,588	127,870	5,867	133,737
Reach A		12,946	1,217	14	14,163	12,946	1,217	14,163	3,961	13,536	1,297	14,833
Reach B		43,088	915	10	44,003	43,088	915	44,003	34,283	43,538	959	44,497
Reach C		26,040	327	14	26,367	26,040	327	26,367	23,682	26,540	396	26,936
Reach D		10,705	141	14	10,846	10,705	141	10,846	9,688	10,923	172	11,095
Reach E		8,239	810	19	9,049	8,239	810	9,049	3,982	8,928	942	9,870
Reach F		6,969	577	14	7,546	6,969	577	7,546	2,740	7,440	642	8,082
Reach G		3,065	428	14	3,493	3,065	428	3,493	0	3,555	496	4,051
Reach H		8,845	637	14	9,482	8,845	637	9,482	4,148	9,384	710	10,094
Reach I		3,910	238	13	4,148	3,910	238	4,148	2,104	4,026	253	4,279
31 CONSTRUCTION MANAGE'MT	A	143,678	7,355		151,033	143,678	7,355	151,033	120,851	146,740	8,406	155,146
Reach A		4,792	1,496	31	6,288	4,792	1,496	6,288	0	5,163	1,612	6,775
Reach B		41,108	1,074	25	42,182	41,108	1,074	42,182	36,773	41,394	1,142	42,536
Reach C		37,818	535	43	38,353	37,818	535	38,353	36,561	38,135	670	38,805
Reach D		47,924	190	47	48,114	47,924	190	48,114	47,517	48,028	238	48,266
Reach E		2,838	1,084	38	3,922	2,838	1,084	3,922	0	3,407	1,301	4,708
Reach F		2,820	901	32	3,721	2,820	901	3,721	0	3,238	1,034	4,272
Reach G		2,043	756	37	2,799	2,043	756	2,799	0	2,448	906	3,354
Reach H		3,131	1,000	32	4,131	3,131	1,000	4,131	0	3,604	1,152	4,756
Reach I		1,204	319	26	1,523	1,204	319	1,523	0	1,323	351	1,674
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		657,480	110,807		768,287	657,480	110,807	768,287	286,755	681,063	117,958	799,021
NON-FEDERAL CONTRIBUTION (-)		45,741	9,537		55,278	45,741	9,537	55,278	3,077	47,521	10,097	57,618
SECTION 104 (-)		45,741	9,508		55,249	45,741	9,508	55,249	253,974	47,521	10,082	57,603
TOTAL FEDERAL COSTS		\$565,998	\$91,762		\$657,760	\$565,998	\$91,762	\$657,760	\$29,704	\$586,021	\$97,779	\$683,800
NON-FEDERAL COSTS												
1 LANDS AND DAMAGES	C	155,431	49,907		205,338	155,431	49,907	205,338	7,772	162,311	52,331	214,642
Reach A		23,347	5,612	24	28,959	23,347	5,612	28,959	417	23,693	5,696	29,389
Reach B		40,931	14,146	38	55,077	40,931	14,146	55,077	3,503	42,114	14,592	56,706
Reach C		11,207	3,974	43	15,181	11,207	3,974	15,181	1,998	11,991	4,312	16,303
Reach D		3,633	1,532	59	5,165	3,633	1,532	5,165	1,021	3,856	1,662	5,518

****CONTRACT COST SUMMARY(CONT'D)****														
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010							AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010				FULLY FUNDED ESTIMATE... (3.....			
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB MIDPT(%)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.														
		Contingency Applied To Remaining Cost Only								Sunk Cost Price Level (EPL): 1-Oct-2010				
Reach E		25,076	8,175	33	33,251		25,076	8,175	33,251	378	26,730	8,722		35,452
Reach F		9,220	4,547	50	13,767		9,220	4,547	13,767	99	9,667	4,771		14,438
Reach G		13,118	5,222	40	18,340		13,118	5,222	18,340	0	13,996	5,572		19,568
Reach H		26,642	5,363	20	32,005		26,642	5,363	32,005	215	27,940	5,626		33,566
Reach I		2,257	1,336	63	3,593		2,257	1,336	3,593	141	2,324	1,378		3,702
2 RELOCATIONS		85,183	25,583		110,766		85,183	25,583	110,766	9,066	89,786	27,260		117,046
Reach A		10,851	2,757	25	13,608		10,851	2,757	13,608	0	11,200	2,846		14,046
Reach B		19,164	3,745	24	22,909		19,164	3,745	22,909	3,577	19,795	3,897		23,692
Reach C		9,625	2,565	47	12,190		9,625	2,565	12,190	4,132	10,145	2,808		12,953
Reach D		8,903	3,420	45	12,323		8,903	3,420	12,323	1,357	9,624	3,748		13,372
Reach E		7,801	3,150	40	10,951		7,801	3,150	10,951	0	8,400	3,392		11,792
Reach F		9,006	2,939	33	11,945		9,006	2,939	11,945	0	9,530	3,110		12,640
Reach G		7,795	2,881	37	10,676		7,795	2,881	10,676	0	8,387	3,100		11,487
Reach H		9,537	3,459	36	12,996		9,537	3,459	12,996	0	10,103	3,665		13,768
Reach I		2,501	667	27	3,168		2,501	667	3,168	0	2,602	694		3,296
SECTION 104		305,202	5,867		311,069		305,202	5,867	311,069	281,665	305,391	5,914		311,305
Reach A	C	3,349	0		3,349		3,349	0	3,349	3,349	3,349	0		3,349
Reach B		116,390	5,867	25	122,257		116,390	5,867	122,257	92,853	116,579	5,914		122,493
Reach C		82,460	0		82,460		82,460	0	82,460	82,460	82,460	0		82,460
Reach D		91,286	0		91,286		91,286	0	91,286	91,286	91,286	0		91,286
Reach E		3,450	0		3,450		3,450	0	3,450	3,450	3,450	0		3,450
Reach F		2,740	0		2,740		2,740	0	2,740	2,740	2,740	0		2,740
Reach H		3,423	0		3,423		3,423	0	3,423	3,423	3,423	0		3,423
Reach I		2,104	0		2,104		2,104	0	2,104	2,104	2,104	0		2,104
30 PLAN/ENGINEERING/DESIGN	2	16,670	2,944		19,614		16,670	2,944	19,614	8,280	17,088	3,099		20,187
Reach A		1,631	414	25	2,045		1,631	414	2,045	3	1,677	425		2,102
Reach B		4,521	104	24	4,625		4,521	104	4,625	4,090	4,534	106		4,640
Reach C		4,555	308	47	4,863		4,555	308	4,863	3,896	4,608	333		4,941
Reach D		1,080	366	45	1,446		1,080	366	1,446	272	1,130	389		1,519
Reach E		1,170	473	40	1,643		1,170	473	1,643	0	1,244	503		1,747
Reach F		1,081	352	33	1,433		1,081	352	1,433	0	1,129	368		1,497
Reach G		1,177	432	37	1,609		1,177	432	1,609	8	1,250	459		1,709
Reach H		1,149	415	36	1,564		1,149	415	1,564	5	1,202	434		1,636
Reach I		306	80	27	386		306	80	386	6	314	82		396
31 CONSTRUCTION MANAGE/MT	2	5,723	1,832		7,555		5,723	1,832	7,555	560	6,050	1,954		8,004
Reach A		868	221	25	1,089		868	221	1,089	0	896	228		1,124
Reach B		760	56	24	816		760	56	816	530	762	56		818
Reach C		470	205	47	675		470	205	675	30	512	224		736
Reach D		538	244	45	782		538	244	782	0	590	267		857
Reach E		624	252	40	876		624	252	876	0	672	271		943
Reach F		721	235	33	956		721	235	956	0	764	248		1,012
Reach G		779	289	37	1,068		779	289	1,068	0	838	311		1,149
Reach H		763	277	36	1,040		763	277	1,040	0	809	293		1,102
Reach I		200	53	27	253		200	53	253	0	207	56		263
SUBTOTAL NON-FEDERAL (INCLUDES FED IRRIGATION SHARE)		568,209	86,133		654,342		568,209	86,133	654,342	307,343	580,626	90,558		671,184
NON-FEDERAL CONTRIBUTION (+)		45,741	9,537		55,278		45,741	9,537	55,278	3,077	47,521	10,097		57,618
SECTION 104 (-) Remaining Allowable		259,461	(3,641)		255,820		259,461	(3,641)	255,820	27,691	257,870	(4,168)		253,702
TOTAL NON-FEDERAL COSTS		\$354,489	\$99,311		\$453,800		\$354,489	\$99,311	\$453,800	\$282,729	\$370,277	\$104,823		\$475,100
TOTAL FEDERAL AND NON-FEDERAL COSTS, Total		\$920,487	\$191,073		\$1,111,560		\$920,487	\$191,073	\$1,111,560	\$312,433	\$956,298	\$202,602		\$1,158,900
Reach A														
FEDERAL COSTS														
11 LEVEES & FLOODWALLS		55,084	17,509	32	72,593	0.00	55,084	17,509	72,593	0	3.2	56,858	18,072	74,930
13 PUMPING PLANT		4,818	1,185	25	6,003	0.00	4,818	1,185	6,003	0	3.2	4,973	1,223	6,196
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		59,902	18,694		78,596		59,902	18,694	78,596	0	61,831	19,295		81,126
1 LANDS & DAMAGES, Admin. (1)		666	99	15	765	0.00	666	99	765	0	3.9	692	103	795
1 LANDS & DAMAGES, Real Estate		1,792	520	29	2,312	0.00	1,792	520	2,312	0	1.5	1,819	528	2,347
30 PLAN/ENGINEERING/DESIGN	A	12,946	1,217		14,163	0.00	12,946	1,217	14,163	3,961	13,536	1,297		14,833
FEDERAL		9,597	1,217	14	10,814	0.00	9,597	1,217	10,814	612	10,187	1,297		11,484
NON-FEDERAL - Section 104	A	3,349	0		3,349	0.00	3,349	0	3,349	3,349	0	3,349	0	3,349
31 CONSTRUCTION MANAGE/MT		4,792	1,496	31	6,288	0.00	4,792	1,496	6,288	0	7.7	5,163	1,612	6,775
TOTAL FEDERAL COSTS		\$80,098	\$22,026		\$102,124		\$80,098	\$22,026	\$102,124	\$3,961	\$83,041	\$22,835		\$105,876
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		23,347	5,612	24	28,959	0.00	23,347	5,612	28,959	417	1.5	23,693	5,696	29,389
2 RELOCATIONS		10,851	2,757	25	13,608	0.00	10,851	2,757	13,608	0	3.2	11,200	2,846	14,046
SECTION 104	C	3,349	0		3,349		3,349	0	3,349	3,349	0	3,349	0	3,349
30 PED Section 104		3,349	0		3,349		3,349	0	3,349	3,349	0	3,349	0	3,349
30 PLAN/ENGINEERING/DESIGN		1,631	414	25	2,045	0.00	1,631	414	2,045	3	2.8	1,677	425	2,102
31 CONSTRUCTION MANAGE/MT		868	221	25	1,089	0.00	868	221	1,089	0	3.2	896	228	1,124

****CONTRACT COST SUMMARY(CONT'D)****														
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010						AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010			FULLY FUNDED ESTIMATE... (3.....)					
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (%)	TOTAL (\$K)	SUNK COST (\$K)	OMB MIDPT(\$K)	COST (\$K)	CNTG (%)	FULLY FUNDED (\$K)	
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.														
TOTAL NON-FEDERAL COSTS		Contingency Applied To Remaining Cost Only			\$40,046 \$9,004 \$49,050			\$40,046 \$9,004 \$49,050			Sunk Cost Price Level (EPL): 1-Oct-2010			
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach A		\$116,795	\$31,030	\$147,825		\$116,795	\$31,030	\$147,825	\$4,381	\$120,507	\$32,030	\$152,537		
Reach B														
FEDERAL COSTS														
6 FISH & WILDLIFE FACILITIES		1,862	15	1,877		1,862	15	1,877	164	1,922	15	1,937		
FEDERAL	6	1,635	0	1,635	0.00	1,635	0	1,635	0	1,694	0	1,694		
NON-FEDERAL - Section 104	6	227	15	242	0.00	227	15	242	164	0.4	228	15	243	
11 LEVEES & FLOODWALLS		63,286	9,998	73,284		63,286	9,998	73,284	23,163	64,320	10,248	74,568		
FEDERAL	11	20,245	4,832	25,077	0.00	20,245	4,832	25,077	0	21,115	5,040	26,155		
NON-FEDERAL - Section 104	11	43,041	5,166	48,207	0.00	43,041	5,166	48,207	23,163	0.4	43,205	5,208	48,413	
13 PUMPING PLANT		13,840	3,375	17,215	0.00	13,840	3,375	17,215	0	14,400	3,512	17,912		
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		78,988	13,388	92,376		78,988	13,388	92,376	23,327	80,642	13,775	94,417		
1 LANDS & DAMAGES, Admin. (1		821	124	945	0.00	821	124	945	0	7.6	884	133	1,017	
1 LANDS & DAMAGES, Real Estate		4,147	1,701	41	5,848	0.00	4,147	1,701	5,848	0	3.2	4,278	1,755	6,033
30 PLAN/ENGINEERING/DESIGN		43,088	915	44,003		43,088	915	44,003	34,283	43,538	959	44,497		
FEDERAL	A	8,347	647	9	8,994	0.00	8,347	647	8,994	1,530	6.5	8,787	689	9,476
NON-FEDERAL - Section 104	A	34,741	268	13	35,009	0.00	34,741	268	35,009	32,753	0	34,751	270	35,021
31 CONSTRUCTION MANAGE'MT		41,108	1,074	42,182		41,108	1,074	42,182	36,773	41,394	1,142	42,536		
FEDERAL	A	2,727	656	24	3,383	0.00	2,727	656	3,383	0	10	2,999	721	3,720
NON-FEDERAL - Section 104	A	38,381	418	26	38,799	0.00	38,381	418	38,799	36,773	0	38,395	421	38,816
TOTAL FEDERAL COSTS		\$168,152	\$17,202	\$185,354		\$168,152	\$17,202	\$185,354	\$94,383	\$170,736	\$17,764	\$188,500		
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		40,931	14,146	38	55,077	0.00	40,931	14,146	55,077	3,503	3	42,114	14,592	56,706
2 RELOCATIONS		19,164	3,745	24	22,909	0.00	19,164	3,745	22,909	3,577	3.4	19,795	3,897	23,692
SECTION 104		116,390	5,867	122,257		116,390	5,867	122,257	92,853	116,579	5,914	122,493		
06 Fish and Wild Life	C	227	15	24	242		227	15	242	164	0.4	228	15	243
11 Levee and Floodwall	C	43,041	5,166	26	48,207		43,041	5,166	48,207	23,163	0.4	43,205	5,208	48,413
30 PED		34,741	268	13	35,009		34,741	268	35,009	32,753	0	34,751	270	35,021
31 CM		38,381	418	26	38,799		38,381	418	38,799	36,773	0	38,395	421	38,816
30 PLAN/ENGINEERING/DESIGN		4,521	104	24	4,625		4,521	104	4,625	4,090	0.3	4,534	106	4,640
31 CONSTRUCTION MANAGE'MT		760	56	24	816		760	56	816	530	0.2	762	56	818
TOTAL NON-FEDERAL COSTS		\$181,766	\$23,918	\$205,684		\$181,766	\$23,918	\$205,684	\$104,553	\$183,784	\$24,565	\$208,349		
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach B		\$233,528	\$35,253	\$268,781		\$233,528	\$35,253	\$268,781	\$106,083	\$237,941	\$36,415	\$274,356		
Reach C														
FEDERAL COSTS														
6 FISH & WILDLIFE FACILITIES		1,926	0	1,926		1,926	0	1,926	1,701	1,926	0	1,926		
FEDERAL	6	225	0	225	0.00	225	0	225	0	225	0	225		
NON-FEDERAL - Section 104	6	1,701	0	1,701	0.00	1,701	0	1,701	1,701	1,701	0	1,701		
11 LEVEES & FLOODWALLS		21,972	257	22,229		21,972	257	22,229	21,321	22,034	281	22,315		
FEDERAL	11	651	257	39	908	0.00	651	257	908	0	9.5	713	281	994
NON-FEDERAL - Section 104	11	21,321	0	21,321	0.00	21,321	0	21,321	21,321	0	21,321	0	21,321	
13 PUMPING PLANT		15,066	6,430	43	21,496		15,066	6,430	21,496	0	9.5	16,493	7,039	23,532
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		38,964	6,687	45,651		38,964	6,687	45,651	23,022	40,453	7,320	47,773		
1 LANDS & DAMAGES, Admin. (1		256	39	15	295	0.00	256	39	295	0	22	314	47	361
1 LANDS & DAMAGES, Real Estate		709	318	45	1,027	0.00	709	318	1,027	0	8.5	769	345	1,114
30 PLAN/ENGINEERING/DESIGN		26,040	327	26,367		26,040	327	26,367	23,682	26,540	396	26,936		
FEDERAL	A	3,163	327	14	3,490	0.00	3,163	327	3,490	805	16	3,663	396	4,059
NON FEDERAL - Section 104	A	22,877	0	22,877	0.00	22,877	0	22,877	22,877	0	22,877	0	22,877	
31 CONSTRUCTION MANAGE'MT		37,818	535	38,353		37,818	535	38,353	36,561	38,135	670	38,805		
FEDERAL	A	1,257	535	43	1,792	0.00	1,257	535	1,792	0	25	1,574	670	2,244
NON FEDERAL - Section 104	A	36,561	0	36,561	0.00	36,561	0	36,561	36,561	0	36,561	0	36,561	
TOTAL FEDERAL COSTS		\$103,787	\$7,906	\$111,693		\$103,787	\$7,906	\$111,693	\$83,265	\$106,211	\$8,778	\$114,989		
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		11,207	3,974	43	15,181	0.00	11,207	3,974	15,181	1,998	7.4	11,991	4,312	16,303
2 RELOCATIONS		9,625	2,565	47	12,190	0.00	9,625	2,565	12,190	4,132	6.3	10,145	2,808	12,953
SECTION 104		82,460	0	82,460		82,460	0	82,460	82,460	0	82,460	0	82,460	

****CONTRACT COST SUMMARY(CONT'D)****														
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010						AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010			FULLY FUNDED ESTIMATE... (3.....)					
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB MIDPT(%)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.														
06 Fish and Wild Life	C	1,701	0	1,701	1,701	0	1,701	0	1,701	1,701	0	1,701	1,701	
11 Levee and Floodwall		21,321	0	21,321	21,321	0	21,321	0	21,321	21,321	0	21,321	21,321	
30 PED		22,877	0	22,877	22,877	0	22,877	0	22,877	22,877	0	22,877	22,877	
31 CM		36,561	0	36,561	36,561	0	36,561	0	36,561	36,561	0	36,561	36,561	
30 PLAN/ENGINEERING/DESIGN		4,555	308	47	4,863	0.00	4,555	308	4,863	3,896	1.6	4,608	333	4,941
31 CONSTRUCTION MANAGE'MT		470	205	47	675	0.00	470	205	675	30	9	512	224	736
TOTAL NON-FEDERAL COSTS		\$108,317	\$7,052		\$115,369		\$108,317	\$7,052	\$115,369	\$92,516		\$109,716	\$7,677	\$117,393
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach C		\$129,644	\$14,958		\$144,602		\$129,644	\$14,958	\$144,602	\$93,321		\$133,467	\$16,455	\$149,922
Reach D														
FEDERAL COSTS														
11 LEVEES & FLOODWALLS	11	37,232	989	44	38,221	0.00	37,232	989	38,221	34,967	0	37,449	1,083	38,532
FEDERAL	11	2,265	989	44	3,254	0.00	2,265	989	3,254	2,482	0	2,482	1,083	3,565
NON FEDERAL - Section 104		34,967	0	34,967	34,967	0.00	34,967	0	34,967	34,967	0	34,967	0	34,967
13 PUMPING PLANT		2,820	1,387	49	4,207	0.00	2,820	1,387	4,207	0	9.6	3,089	1,520	4,609
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		40,052	2,376		42,428		40,052	2,376	42,428	34,967		40,538	2,603	43,141
1 LANDS & DAMAGES, Admin. (1)		85	13	15	98	0.00	85	13	98	0	22	104	16	120
1 LANDS & DAMAGES, Real Estate		1,580	932	59	2,512	0.00	1,580	932	2,512	0	8.5	1,714	1,012	2,726
30 PLAN/ENGINEERING/DESIGN	A	10,705	141	14	10,846	0.00	10,705	141	10,846	9,688	0	10,923	172	11,095
FEDERAL	A	1,903	141	14	2,044	0.00	1,903	141	2,044	886	12	2,121	172	2,293
NON FEDERAL - Section 104		8,802	0	8,802	8,802	0.00	8,802	0	8,802	8,802	0	8,802	0	8,802
31 CONSTRUCTION MANAGE'MT	A	47,924	190	47	48,114	0.00	47,924	190	48,114	47,517	0	48,028	238	48,266
FEDERAL	A	407	190	47	597	0.00	407	190	597	25	511	238	749	
NON FEDERAL - Section 104		47,517	0	47,517	47,517	0.00	47,517	0	47,517	47,517	0	47,517	0	47,517
TOTAL FEDERAL COSTS		\$100,346	\$3,652		\$103,998		\$100,346	\$3,652	\$103,998	\$92,172		\$101,307	\$4,041	\$105,348
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		3,633	1,532	59	5,165	0.00	3,633	1,532	5,165	1,021	6.8	3,856	1,662	5,518
2 RELOCATIONS		8,903	3,420	45	12,323	0.00	8,903	3,420	12,323	1,357	8.5	9,624	3,748	13,372
SECTION 104	C	91,286	0	91,286	91,286	0.00	91,286	0	91,286	91,286	0	91,286	0	91,286
11 Levee and Floodwall		34,967	0	34,967	34,967	0.00	34,967	0	34,967	34,967	0	34,967	0	34,967
30 PED		8,802	0	8,802	8,802	0.00	8,802	0	8,802	8,802	0	8,802	0	8,802
31 CM		47,517	0	47,517	47,517	0.00	47,517	0	47,517	47,517	0	47,517	0	47,517
30 PLAN/ENGINEERING/DESIGN		1,080	366	45	1,446	0.00	1,080	366	1,446	272	5	1,130	389	1,519
31 CONSTRUCTION MANAGE'MT		538	244	45	782	0.00	538	244	782	0	9.6	590	267	857
TOTAL NON-FEDERAL COSTS		\$105,440	\$5,562		\$111,002		\$105,440	\$5,562	\$111,002	\$93,936		\$106,486	\$6,066	\$112,552
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach D		\$114,500	\$9,214		\$123,714		\$114,500	\$9,214	\$123,714	\$94,822		\$116,507	\$10,107	\$126,614
Reach E														
FEDERAL COSTS														
6 FISH & WILDLIFE FACILITIES		4,907	1,810	37	6,717	0.00	4,907	1,810	6,717	0	7.7	5,283	1,950	7,233
11 LEVEES & FLOODWALLS		30,569	11,738	38	42,307	0.00	30,569	11,738	42,307	0	7.7	32,916	12,640	45,556
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		35,476	13,548		49,024		35,476	13,548	49,024	0		38,199	14,590	52,789
1 LANDS & DAMAGES, Admin. (1)		346	51	15	397	0.00	346	51	397	0	17	405	60	465
1 LANDS & DAMAGES, Real Estate		790	284	36	1,074	0.00	790	284	1,074	0	6.7	843	303	1,146
30 PLAN/ENGINEERING/DESIGN	A	8,239	810	19	9,049	0.00	8,239	810	9,049	3,982	15	8,928	942	9,870
FEDERAL	A	4,789	810	19	5,599	0.00	4,789	810	5,599	532	15	5,478	942	6,420
NON-FEDERAL - Section 104		3,450	0	3,450	3,450	0.00	3,450	0	3,450	3,450	0	3,450	0	3,450
31 CONSTRUCTION MANAGE'MT		2,838	1,084	38	3,922	0.00	2,838	1,084	3,922	0	20	3,407	1,301	4,708
TOTAL FEDERAL COSTS		\$47,689	\$15,777		\$63,466		\$47,689	\$15,777	\$63,466	\$3,982		\$51,782	\$17,196	\$68,978
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		25,076	8,175	33	33,251	0.00	25,076	8,175	33,251	378	6.6	26,730	8,722	35,452
2 RELOCATIONS		7,801	3,150	40	10,951	0.00	7,801	3,150	10,951	0	7.7	8,400	3,392	11,792
SECTION 104	C	3,450	0	3,450	3,450	0.00	3,450	0	3,450	3,450	0	3,450	0	3,450
30 PED		3,450	0	3,450	3,450	0.00	3,450	0	3,450	3,450	0	3,450	0	3,450
30 PLAN/ENGINEERING/DESIGN		1,170	473	40	1,643	0.00	1,170	473	1,643	0	6.3	1,244	503	1,747

****CONTRACT COST SUMMARY(CONT'D)****												
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010					AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010				FULLY FUNDED ESTIMATE... (3.....)			
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB MIDPT(%)	FULLY FUNDED (\$K)
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.												
31 CONSTRUCTION MANAGE'MT		624	252	40	876	0.00	624	252	876	0	7.6	672
TOTAL NON-FEDERAL COSTS		\$38,121	\$12,050		\$50,171		\$38,121	\$12,050	\$50,171	\$3,828		\$40,496
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach E		\$82,360	\$27,827		\$110,187		\$82,360	\$27,827	\$110,187	\$4,360		\$88,828
Reach F												
FEDERAL COSTS												
11 LEVEES & FLOODWALLS		35,245	11,261	32	46,506	0.00	35,245	11,261	46,506	0	5.8	37,296
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		35,245	11,261		46,506		35,245	11,261	46,506	0		37,296
1 LANDS & DAMAGES, Admin. (1		279	42	15	321	0.00	279	42	321	0	12	314
30 PLAN/ENGINEERING/DESIGN FEDERAL NON-FEDERAL - Section 104	A	6,969 4,229 2,740	577 577 0	14	7,546 4,806 2,740	0.00 0.00 0.00	6,969 4,229 2,740	577 577 0	7,546 4,806 2,740	2,740 0 2,740	11	7,440 4,700 2,740
31 CONSTRUCTION MANAGE'MT		2,820	901	32	3,721	0.00	2,820	901	3,721	0	15	3,238
TOTAL FEDERAL COSTS		\$45,313	\$12,781		\$58,094		\$45,313	\$12,781	\$58,094	\$2,740		\$48,288
NON-FEDERAL COSTS												
1 LANDS AND DAMAGES		9,220	4,547	50	13,767	0.00	9,220	4,547	13,767	99	4.9	9,667
2 RELOCATIONS		9,006	2,939	33	11,945	0.00	9,006	2,939	11,945	0	5.8	9,530
SECTION 104 30 PED	C	2,740 2,740	0 0		2,740 2,740		2,740 2,740	0 0	2,740 2,740	2,740 2,740	0	2,740 0
30 PLAN/ENGINEERING/DESIGN		1,081	352	33	1,433	0.00	1,081	352	1,433	0	4.5	1,129
31 CONSTRUCTION MANAGE'MT		721	235	33	956	0.00	721	235	956	0	5.9	764
TOTAL NON-FEDERAL COSTS		\$22,768	\$8,073		\$30,841		\$22,768	\$8,073	\$30,841	\$2,839		\$23,830
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach F		\$65,341	\$20,854		\$86,195		\$65,341	\$20,854	\$86,195	\$2,839		\$69,378
Reach G												
FEDERAL COSTS												
11 LEVEES & FLOODWALLS		25,543	9,472	37	35,015	0.00	25,543	9,472	35,015	0	7.6	27,485
13 PUMPING PLANT		2,078	745	36	2,823	0.00	2,078	745	2,823	0	7.6	2,236
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		27,621	10,217		37,838		27,621	10,217	37,838	0		29,721
1 LANDS & DAMAGES, Admin. (1		210	31	15	241	0.00	210	31	241	0	17	246
30 PLAN/ENGINEERING/DESIGN		3,065	428	14	3,493	0.00	3,065	428	3,493	0	16	3,555
31 CONSTRUCTION MANAGE'MT		2,043	756	37	2,799	0.00	2,043	756	2,799	0	20	2,448
TOTAL FEDERAL COSTS		\$32,939	\$11,432		\$44,371		\$32,939	\$11,432	\$44,371	\$0		\$35,970
NON-FEDERAL COSTS												
1 LANDS AND DAMAGES		13,118	5,222	40	18,340	0.00	13,118	5,222	18,340	0	6.7	13,996
2 RELOCATIONS		7,795	2,881	37	10,676	0.00	7,795	2,881	10,676	0	7.6	8,387
30 PLAN/ENGINEERING/DESIGN		1,177	432	37	1,609	0.00	1,177	432	1,609	8	6.2	1,250
31 CONSTRUCTION MANAGE'MT		779	289	37	1,068	0.00	779	289	1,068	0	7.6	838
TOTAL NON-FEDERAL COSTS		\$22,869	\$8,824		\$31,693		\$22,869	\$8,824	\$31,693	\$8		\$24,471
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach G		\$55,808	\$20,256		\$76,064		\$55,808	\$20,256	\$76,064	\$8		\$60,441
Reach H												
FEDERAL COSTS												
6 FISH & WILDLIFE FACILITIES		6,480	1,869	29	8,349	0.00	6,480	1,869	8,349	0	5.9	6,865
11 LEVEES & FLOODWALLS		30,435	9,966	33	40,401	0.00	30,435	9,966	40,401	0	5.9	32,242
13 PUMPING PLANT		2,227	654	29	2,881	0.00	2,227	654	2,881	0	5.9	2,359
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		39,142	12,489		51,631		39,142	12,489	51,631	0		41,466
1 LANDS & DAMAGES, Admin. (1		785	117	15	902	0.00	785	117	902	0	12	882
1 LANDS & DAMAGES, Real Estate		1,283	309	24	1,592	0.00	1,283	309	1,592	0	4.9	1,346

******CONTRACT COST SUMMARY(CONT'D)******

Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010							AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010				.FULLY FUNDED ESTIMATE...(3.....)			
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB COST (\$K)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)
Index Codes: 0 - no esc. applied; A - Administration; C - Combined Indexes; All other codes used coincides with the Code of Accounts.														
			Contingency Applied To Remaining Cost Only								Sunk Cost Price Level (EPL): 1-Oct-2010			
30 PLAN/ENGINEERING/DESIGN FEDERAL NON-FEDERAL - Section 104	A A	8,845 5,422 3,423	637 637 0	14	9,482 6,059 3,423	0.00 0.00	8,845 5,422 3,423	637 637 0	9,482 6,059 3,423	4,148 725 3,423	9,384 5,961 0	710 710 3,423	10,094 6,671 0	3,423
31 CONSTRUCTION MANAGE'MT		3,131	1,000	32	4,131	0.00	3,131	1,000	4,131	0	15	3,604	1,152	4,756
TOTAL FEDERAL COSTS		\$53,186	\$14,552		\$67,738		\$53,186	\$14,552	\$67,738	\$4,148		\$56,682	\$15,548	\$72,230
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		26,642	5,363	20	32,005	0.00	26,642	5,363	32,005	215	4.9	27,940	5,626	33,566
2 RELOCATIONS		9,537	3,459	36	12,996	0.00	9,537	3,459	12,996	0	5.9	10,103	3,665	13,768
SECTION 104 30 PED	C	3,423 3,423	0 0		3,423 3,423		3,423 3,423	0 0	3,423 3,423	3,423 3,423	0	3,423 3,423	0 0	3,423 3,423
30 PLAN/ENGINEERING/DESIGN		1,149	415	36	1,564	0.00	1,149	415	1,564	5	4.6	1,202	434	1,636
31 CONSTRUCTION MANAGE'MT		763	277	36	1,040	0.00	763	277	1,040	0	6	809	293	1,102
TOTAL NON-FEDERAL COSTS		\$41,514	\$9,514		\$51,028		\$41,514	\$9,514	\$51,028	\$3,643		\$43,477	\$10,018	\$53,495
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach H		\$91,277	\$24,066		\$115,343		\$91,277	\$24,066	\$115,343	\$4,368		\$96,736	\$25,566	\$122,302
Reach I														
FEDERAL COSTS														
11 LEVEES & FLOODWALLS		13,859	3,668	26	17,527	0.00	13,859	3,668	17,527	0	4	14,417	3,816	18,233
13 PUMPING PLANT		1,195	315	26	1,510	0.00	1,195	315	1,510	0	4	1,243	328	1,571
		15,054	3,983		19,037		15,054	3,983	19,037	0		15,660	4,144	19,804
		142	21	15	163	0.00	142	21	163	0	7.4	152	23	175
		3,910 1,806 2,104	238 238 0		4,148 2,044 2,104	0.00 0.00 0.00	3,910 1,806 2,104	238 238 0	4,148 2,044 2,104	2,104 0 2,104	0	4,026 1,922 2,104	253 253 0	4,279 2,175 2,104
30 PLAN/ENGINEERING/DESIGN FEDERAL NON-FEDERAL - Section 104	A A													
31 CONSTRUCTION MANAGE'MT		1,204	319	26	1,523	0.00	1,204	319	1,523	0	9.9	1,323	351	1,674
TOTAL FEDERAL COSTS		\$20,310	\$4,561		\$24,871		\$20,310	\$4,561	\$24,871	\$2,104		\$21,161	\$4,771	\$25,932
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		2,257	1,336	63	3,593	0.00	2,257	1,336	3,593	141	3	2,324	1,378	3,702
2 RELOCATIONS		2,501	667	27	3,168	0.00	2,501	667	3,168	0	4	2,602	694	3,296
SECTION 104 30 PED	C	2,104 2,104	0 0		2,104 2,104		2,104 2,104	0 0	2,104 2,104	2,104 2,104	0	2,104 2,104	0 0	2,104 2,104
30 PLAN/ENGINEERING/DESIGN		306	80	27	386	0.00	306	80	386	6	2.6	314	82	396
31 CONSTRUCTION MANAGE'MT		200	53	27	253	0.00	200	53	253	0	4	207	56	263
TOTAL NON-FEDERAL COSTS		\$7,368	\$2,136		\$9,504		\$7,368	\$2,136	\$9,504	\$2,251		\$7,551	\$2,210	\$9,761
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach I		\$25,574	\$6,697		\$32,271		\$25,574	\$6,697	\$32,271	\$2,251		\$26,608	\$6,981	\$33,589

GENERAL NOTES

- (1) Cultural Resources Preservation costs associated with mitigation and/or data recovery up to one percent of the total Federal cost are not subject to cost sharing.
- (2) Federal administrative costs for non-Federal land acquisition.
- (3) The Fully Funded cost estimate was prepared in compliance with OMB INDEXES EC-11-2-199, published on MAR. 31, 2010.
- (4) 01 Account for Land and Damages cost are from Real Estates.
- (5) Fully Funded Estimate was supported using Project Cost Estimate (PCE) spreadsheet.
- (6) 30 Account Planning, Engineering and Design and 31 Account Construction Management cost was provided by its respective organizations.
- (7) Federal 30 Account Planning, Engineering sunk cost to date is \$5,090,000.
- (8) Section 104 Sunk cost to date is \$307,343,000.
- (9) Total Sunk Cost to date is \$312,433,000

CONTINGENCY RATIONALE

- (A) CONTINGENCIES USED WAS DERIVED BY THE COST RISK ANALYSIS PROCESS AND IS BASED ON A 80% CONFIDENCE LEVEL.
NED RISK DATA WAS ABSTRACTED FROM THE LPP RISK MODEL. IT WAS ASSUMED THAT THE ANY RISK ASSOCIATED WITH THE LPP PLAN WOULD BE SIMILAR TO THE NED PLAN.

CHIEF, COST ENGINEERING

CHIEF, REAL ESTATE

PROJECT MANAGER

The estimate was prepared in accordance with current guidance. The estimate has undergone an independent technical review, and that all issues that may have been identified in the independent technical review have been resolved.

****TOTAL PROJECT COST SUMMARY****												8/26/2010		
THIS ESTIMATE IS BASED ON THE SCOPE CONTAINED IN THE POST AUTHORIZATION CHANGE REPORT, LPP PLAN														
PROJECT: NATOMAS PACR LOCATION: CALIFORNIA												U. S. ARMY CORPS OF ENGINEER, SACRAMENTO DISTRICT P.O.C.: JOE W. YEE, CHIEF, COST ENGINEERING SECTION		
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010						AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010						FULLY FUNDED ESTIMATE... (3.....)		
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB MIDPT(%)	FULLY FUNDED COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.														
Total														
FEDERAL COSTS														
6 FISH & WILDLIFE FACILITIES		15,175	3,694		18,869	15,175	3,694	18,869	1,865	15,996	3,945	19,941		
Reach B		1,862	15	1	1,877	1,862	15	1,877	164	1,922	15	1,937		
Reach C		1,926	0	0	1,926	1,926	0	1,926	1,701	1,926	0	1,926		
Reach E		4,907	1,810	37	6,717	4,907	1,810	6,717	0	5,283	1,950	7,233		
Reach H		6,480	1,869	29	8,349	6,480	1,869	8,349	0	6,865	1,980	8,845		
11 LEVEES & FLOODWALLS	11	338,254	79,096		417,350	338,254	79,096	417,350	90,921	350,477	83,211	433,688		
Reach A		55,084	17,509	32	72,593	55,084	17,509	72,593	0	56,858	18,072	74,930		
Reach B		74,105	11,997	25	86,102	74,105	11,997	86,102	26,288	75,147	12,250	87,397		
Reach C		25,943	257	39	26,200	25,943	257	26,200	25,292	26,005	281	26,286		
Reach D		41,814	1,080	44	42,894	41,814	1,080	42,894	39,341	42,050	1,184	43,234		
Reach E		33,402	12,879	39	46,281	33,402	12,879	46,281	0	35,967	13,868	49,835		
Reach F		36,823	11,766	32	48,589	36,823	11,766	48,589	0	38,966	12,450	51,416		
Reach G		26,789	9,974	37	36,763	26,789	9,974	36,763	0	28,825	10,732	39,557		
Reach H		30,435	9,966	33	40,401	30,435	9,966	40,401	0	32,242	10,558	42,800		
Reach I		13,859	3,668	26	17,527	13,859	3,668	17,527	0	14,417	3,816	18,233		
13 PUMPING PLANT	13	42,044	14,091		56,135	42,044	14,091	56,135	0	44,793	15,117	59,910		
Reach A		4,818	1,185	25	6,003	4,818	1,185	6,003	0	4,973	1,223	6,196		
Reach B		13,840	3,375	24	17,215	13,840	3,375	17,215	0	14,400	3,512	17,912		
Reach C		15,066	6,430	43	21,496	15,066	6,430	21,496	0	16,493	7,039	23,532		
Reach D		2,820	1,387	49	4,207	2,820	1,387	4,207	0	3,089	1,520	4,609		
Reach G		2,078	745	36	2,823	2,078	745	2,823	0	2,236	802	3,038		
Reach H		2,227	654	29	2,881	2,227	654	2,881	0	2,359	693	3,052		
Reach I		1,195	315	26	1,510	1,195	315	1,510	0	1,243	328	1,571		
18 CULT. RESRC. PRESERV.	(1)	5,660	918		6,578	5,660	918	6,578		5,885	954	6,839		
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS														
1 LANDS & DAMAGES, Admin	(2)	3,590	537		4,127	3,590	537	4,127	0	3,993	597	4,590		
Reach A	A	666	99	15	765	666	99	765	0	692	103	795		
Reach B		821	124	15	945	821	124	945	0	884	133	1,017		
Reach C		256	39	15	295	256	39	295	0	314	47	361		
Reach D		85	13	15	98	85	13	98	0	104	16	120		
Reach E		346	51	15	397	346	51	397	0	405	60	465		
Reach F		279	42	15	321	279	42	321	0	314	47	361		
Reach G		210	31	15	241	210	31	241	0	246	37	283		
Reach H		785	117	15	902	785	117	902	0	882	131	1,013		
Reach I		142	21	15	163	142	21	163	0	152	23	175		
1 LANDS & DAMAGES, Real Estate	C	10,301	4,064		14,365	10,301	4,064	14,365	0	10,769	4,267	15,036		
Reach A		1,792	520	29	2,312	1,792	520	2,312	0	1,819	528	2,347		
Reach B		4,147	1,701	41	5,848	4,147	1,701	5,848	0	4,278	1,755	6,033		
Reach C		709	318	45	1,027	709	318	1,027	0	769	345	1,114		
Reach D		1,580	932	59	2,512	1,580	932	2,512	0	1,714	1,012	2,726		
Reach E		790	284	36	1,074	790	284	1,074	0	843	303	1,146		
Reach H		1,283	309	24	1,592	1,283	309	1,592	0	1,346	324	1,670		
30 PLAN/ENGINEERING/DESIGN	A	125,320	5,514		130,834	125,320	5,514	130,834	84,588	129,501	6,106	135,607		
Reach A		12,946	1,217	14	14,163	12,946	1,217	14,163	3,961	13,536	1,297	14,833		
Reach B		43,880	1,022	11	44,902	43,880	1,022	44,902	34,283	44,335	1,066	45,401		
Reach C		26,040	327	14	26,367	26,040	327	26,367	23,682	26,540	396	26,936		
Reach D		10,746	148	14	10,894	10,746	148	10,894	9,688	10,973	180	11,153		
Reach E		8,579	874	19	9,453	8,579	874	9,453	3,982	9,325	1,015	10,340		
Reach F		7,159	602	14	7,761	7,159	602	7,761	2,740	7,652	669	8,321		
Reach G		3,215	449	14	3,664	3,215	449	3,664	0	3,730	520	4,250		
Reach H		8,845	637	14	9,482	8,845	637	9,482	4,148	9,384	710	10,094		
Reach I		3,910	238	13	4,148	3,910	238	4,148	2,104	4,026	253	4,279		
31 CONSTRUCTION MANAGE'MT	A	144,745	7,689		152,434	144,745	7,689	152,434	120,851	147,897	8,778	156,675		
Reach A		4,792	1,496	31	6,288	4,792	1,496	6,288	0	5,163	1,612	6,775		
Reach B		41,706	1,229	25	42,935	41,706	1,229	42,935	36,773	41,996	1,299	43,295		
Reach C		37,818	535	43	38,353	37,818	535	38,353	36,561	38,135	670	38,805		
Reach D		47,940	198	47	48,138	47,940	198	48,138	47,517	48,047	249	48,296		
Reach E		3,065	1,175	38	4,240	3,065	1,175	4,240	0	3,680	1,410	5,090		
Reach F		2,946	941	32	3,887	2,946	941	3,887	0	3,382	1,081	4,463		
Reach G		2,143	796	37	2,939	2,143	796	2,939	0	2,567	954	3,521		
Reach H		3,131	1,000	32	4,131	3,131	1,000	4,131	0	3,604	1,152	4,756		
Reach I		1,204	319	26	1,523	1,204	319	1,523	0	1,323	351	1,674		
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		685,089	115,603		800,692	685,089	115,603	800,692	298,225	709,311	122,975	832,286		
NON-FEDERAL CONTRIBUTION(-)		73,350	14,333		87,683	73,350	14,333	87,683	14,547	75,769	15,114	90,883		
SECTION 104 (-) - NED		45,741	9,508		55,249	45,741	9,508	55,249	253,974	47,521	10,082	57,603		
TOTAL FEDERAL NED COSTS		\$565,998	\$91,762		\$657,760	\$565,998	\$91,762	\$657,760	\$29,704	\$586,021	\$97,779	\$683,800		
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES	C	155,431	49,907		205,338	155,431	49,907	205,338	7,772	162,311	52,331	214,642		
Reach A		23,347	5,612	24	28,959	23,347	5,612	28,959	417	23,693	5,696	29,389		
Reach B		40,931	14,146	38	55,077	40,931	14,146	55,077	3,503	42,114	14,592	56,706		
Reach C		11,207	3,974	43	15,181	11,207	3,974	15,181	1,998	11,991	4,312	16,303		
Reach D		3,633	1,532	59	5,165	3,633	1,532	5,165	1,021	3,856	1,662	5,518		

****CONTRACT COST SUMMARY(CONT'D)****														
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010							AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010			FULLY FUNDED ESTIMATE... (3.....)				
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB MIDPT(%)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)
Index Codes: 0 - no esc.applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.														
		Contingency Applied To Remaining Cost Only								Sunk Cost Price Level (EPL): 1-Oct-2010				
Reach E		25,076	8,175	33	33,251		25,076	8,175	33,251	378	26,730	8,722	35,452	
Reach F		9,220	4,547	50	13,767		9,220	4,547	13,767	99	9,667	4,771	14,438	
Reach G		13,118	5,222	40	18,340		13,118	5,222	18,340	0	13,996	5,572	19,568	
Reach H		26,642	5,363	20	32,005		26,642	5,363	32,005	215	27,940	5,626	33,566	
Reach I		2,257	1,336	63	3,593		2,257	1,336	3,593	141	2,324	1,378	3,702	
2 RELOCATIONS		98,315	29,385		127,700		98,315	29,385	127,700	11,724	103,589	31,316	134,905	
Reach A	2	10,851	2,757	25	13,608		10,851	2,757	13,608	0	11,200	2,846	14,046	
Reach B		21,796	4,322	24	26,118		21,796	4,322	26,118	3,809	22,525	4,497	27,022	
Reach C		10,585	2,566	47	13,151		10,585	2,566	13,151	5,092	11,105	2,809	13,914	
Reach D		10,369	3,531	47	13,900		10,369	3,531	13,900	2,823	11,091	3,869	14,960	
Reach E		11,433	4,617	40	16,050		11,433	4,617	16,050	0	12,312	4,971	17,283	
Reach F		11,584	3,835	33	15,419		11,584	3,835	15,419	0	12,258	4,058	16,316	
Reach G		9,659	3,631	38	13,290		9,659	3,631	13,290	0	10,393	3,907	14,300	
Reach H		9,537	3,459	36	12,996		9,537	3,459	12,996	0	10,103	3,665	13,768	
Reach I		2,501	667	27	3,168		2,501	667	3,168	0	2,602	694	3,296	
SECTION 104 - NED		305,202	5,867		311,069		305,202	5,867	311,069	281,665	305,391	5,914	311,305	
30 PLAN/ENGINEERING/DESIGN		18,152	3,478		21,630		18,152	3,478	21,630	8,280	18,645	3,662	22,307	
Reach A	2	1,631	414	25	2,045		1,631	414	2,045	3	1,677	425	2,102	
Reach B		4,869	187	24	5,056		4,869	187	5,056	4,090	4,890	192	5,082	
Reach C		4,555	308	47	4,863		4,555	308	4,863	3,896	4,608	333	4,941	
Reach D		1,080	377	47	1,457		1,080	377	1,457	272	1,130	401	1,531	
Reach E		1,715	693	40	2,408		1,715	693	2,408	0	1,824	736	2,560	
Reach F		1,390	460	33	1,850		1,390	460	1,850	0	1,452	481	1,933	
Reach G		1,457	544	38	2,001		1,457	544	2,001	8	1,548	578	2,126	
Reach H		1,149	415	36	1,564		1,149	415	1,564	5	1,202	434	1,636	
Reach I		306	80	27	386		306	80	386	6	314	82	396	
31 CONSTRUCTION MANAGE'MT		6,593	2,147		8,740		6,593	2,147	8,740	560	6,968	2,292	9,260	
Reach A	2	868	221	25	1,089		868	221	1,089	0	896	228	1,124	
Reach B		946	100	24	1,046		946	100	1,046	530	949	101	1,050	
Reach C		470	205	47	675		470	205	675	30	511	225	736	
Reach D		538	252	47	790		538	252	790	0	590	276	866	
Reach E		915	369	40	1,284		915	369	1,284	0	986	397	1,383	
Reach F		927	307	33	1,234		927	307	1,234	0	981	325	1,306	
Reach G		966	363	38	1,329		966	363	1,329	0	1,039	391	1,430	
Reach H		763	277	36	1,040		763	277	1,040	0	809	293	1,102	
Reach I		200	53	27	253		200	53	253	0	207	56	263	
SUBTOTAL NON-FEDERAL (INCLUDES FED IRRIGATION SHARE)		583,693	90,784		674,477		583,693	90,784	674,477	310,001	596,904	95,515	692,419	
NON-FEDERAL CONTRIBUTION (+) Non-Federal Contribution - NED Additional Cost Above NED		73,350	14,333		87,683		73,350	14,333	87,683	14,547	75,769	15,114	90,883	
SECTION 104 (-) - NED		259,461	(3,641)		255,820		259,461	(3,641)	255,820	27,691	257,870	(4,168)	253,702	
TOTAL NON-FEDERAL COSTS		\$397,582	\$108,758		\$506,340		\$397,582	\$108,758	\$506,340	\$296,857	\$414,803	\$114,797	\$529,600	
TOTAL FEDERAL AND NON-FEDERAL COSTS, Total		\$963,580	\$200,520		\$1,164,100		\$963,580	\$200,520	\$1,164,100	\$326,561	\$1,000,824	\$212,576	\$1,213,400	
Reach A														
FEDERAL COSTS														
11 LEVEES & FLOODWALLS		55,084	17,509	32	72,593	0.00	55,084	17,509	72,593	0	3.2	56,858	18,072	74,930
13 PUMPING PLANT		4,818	1,185	25	6,003	0.00	4,818	1,185	6,003	0	3.2	4,973	1,223	6,196
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		59,902	18,694		78,596		59,902	18,694	78,596	0	61,831	19,295	81,126	
1 LANDS & DAMAGES, Admin. (1)		666	99	15	765	0.00	666	99	765	0	3.9	692	103	795
1 LANDS & DAMAGES, Real Estate		1,792	520	29	2,312	0.00	1,792	520	2,312	0	1.5	1,819	528	2,347
30 PLAN/ENGINEERING/DESIGN FEDERAL NON FEDERAL - Section 104	A A	12,946 9,597 3,349	1,217 1,217 0	14,163 10,814 3,349	2,045	0.00 0.00 0.00	12,946 9,597 3,349	1,217 1,217 0	14,163 10,814 3,349	3,961 612 3,349	13,536 10,187 0	1,297 1,297 0	14,833 11,484 3,349	
31 CONSTRUCTION MANAGE'MT		4,792	1,496	31	6,288	0.00	4,792	1,496	6,288	0	7.7	5,163	1,612	6,775
TOTAL FEDERAL NED COSTS		\$80,098	\$22,026		\$102,124		\$80,098	\$22,026	\$102,124	\$3,961	\$83,041	\$22,835	\$105,876	
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		23,347	5,612	24	28,959	0.00	23,347	5,612	28,959	417	1.5	23,693	5,696	29,389
2 RELOCATIONS		10,851	2,757	25	13,608	0.00	10,851	2,757	13,608	0	3.2	11,200	2,846	14,046
SECTION 104 - NED		3,349	0		3,349		3,349	0	3,349	3,349		3,349	0	3,349
30 PLAN/ENGINEERING/DESIGN		1,631	414	25	2,045	0.00	1,631	414	2,045	3	2.8	1,677	425	2,102
31 CONSTRUCTION MANAGE'MT		868	221	25	1,089	0.00	868	221	1,089	0	3.2	896	228	1,124
TOTAL NON-FEDERAL COSTS		\$40,046	\$9,004		\$49,050		\$40,046	\$9,004	\$49,050	\$3,769	\$40,815	\$9,195	\$50,010	
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach A		\$116,795	\$31,030		\$147,825		\$116,795	\$31,030	\$147,825	\$4,381	\$120,507	\$32,030	\$152,537	

****CONTRACT COST SUMMARY(CONT'D)****															
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010							AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010		FULLY FUNDED ESTIMATE... (3.....					
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB (\$K)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)	
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.															
Reach B															
FEDERAL COSTS							Contingency Applied To Remaining Cost Only							Sunk Cost Price Level (EPL): 1-Oct-2010	
6 FISH & WILDLIFE FACILITIES		1,862	15		1,877		1,862	15	1,877	164	1,922	15	1,937		
FEDERAL	6	1,635	0	0	1,635	0.00	1,635	0	1,635	0	1,694	0	1,694		
NON FEDERAL - Section 104	6	227	15	24	242	0.00	227	15	242	164	0.4	228	15	243	
11 LEVEES & FLOODWALLS		74,105	11,997		86,102		74,105	11,997	86,102	26,288	75,147	12,250	87,397		
FEDERAL	11	20,245	4,832	24	25,077	0.00	20,245	4,832	25,077	0	4	21,060	5,026	26,086	
NON FEDERAL - Section 104	11	53,860	7,165	26	61,025	0.00	53,860	7,165	61,025	26,288	0.5	54,087	7,224	61,311	
13 PUMPING PLANT		13,840	3,375	24	17,215	0.00	13,840	3,375	17,215	0	4	14,400	3,512	17,912	
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		89,807	15,387		105,194		89,807	15,387	105,194	26,452	91,469	15,777	107,246		
1 LANDS & DAMAGES, Admin. (1)		821	124	15	945	0.00	821	124	945	0	7.6	884	133	1,017	
1 LANDS & DAMAGES, Real Estate		4,147	1,701	41	5,848	0.00	4,147	1,701	5,848	0	3.2	4,278	1,755	6,033	
30 PLAN/ENGINEERING/DESIGN		43,880	1,022		44,902		43,880	1,022	44,902	34,283	44,335	1,066	45,401		
FEDERAL	A	8,347	647	9	8,994	0.00	8,347	647	8,994	1,530	5.4	8,787	689	9,476	
NON FEDERAL - Section 104	A	35,533	375	13	35,908	0.00	35,533	375	35,908	32,753	0	35,548	377	35,925	
31 CONSTRUCTION MANAGE'MT		41,706	1,229		42,935		41,706	1,229	42,935	36,773	41,996	1,299	43,295		
FEDERAL	A	2,727	656	24	3,383	0.00	2,727	656	3,383	0	10	2,999	721	3,720	
NON FEDERAL - Section 104	A	38,979	573	26	39,552	0.00	38,979	573	39,552	36,773	0.1	38,997	578	39,575	
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		180,361	19,463		199,824		180,361	19,463	199,824	97,508	182,962	20,030	202,992		
NON-FEDERAL CONTRIBUTION(-)		12,209	2,261		14,470		12,209	2,261	14,470	3,125	12,226	2,266	14,492		
TOTAL FEDERAL NED COSTS		\$168,152	\$17,202		\$185,354		\$168,152	\$17,202	\$185,354	\$94,383	\$170,736	\$17,764	\$188,500		
NON-FEDERAL COSTS															
1 LANDS AND DAMAGES		40,931	14,146	38	55,077	0.00	40,931	14,146	55,077	3,503	3	42,114	14,592	56,706	
2 RELOCATIONS		21,796	4,322	24	26,118	0.00	21,796	4,322	26,118	3,809	3.5	22,525	4,497	27,022	
SECTION 104 - NED		116,390	5,867		122,257		116,390	5,867	122,257	92,853	116,579	5,914	122,493		
30 PLAN/ENGINEERING/DESIGN		4,869	187	24	5,056	0.00	4,869	187	5,056	4,090	0.5	4,890	192	5,082	
31 CONSTRUCTION MANAGE'MT		946	100	24	1,046	0.00	946	100	1,046	530	0.4	949	101	1,050	
SUBTOTAL NON-FEDERAL (INCLUDES FED IRRIGATION SHARE)		184,932	24,622		209,554		184,932	24,622	209,554	104,785	187,057	25,296	212,353		
NON-FEDERAL CONTRIBUTION (+) Additional Cost Above NED		12,209	2,261		14,470		12,209	2,261	14,470	3,125	12,226	2,266	14,492		
TOTAL NON-FEDERAL COSTS		\$197,141	\$26,883		\$224,024		\$197,141	\$26,883	\$224,024	\$107,910	\$199,283	\$27,562	\$226,845		
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach B		\$248,903	\$38,218		\$287,121		\$248,903	\$38,218	\$287,121	\$109,440	\$253,440	\$39,412	\$292,852		
Reach C															
FEDERAL COSTS															
6 FISH & WILDLIFE FACILITIES		1,926	0		1,926		1,926	0	1,926	1,701	1,926	0	1,926		
FEDERAL	6	225	0	0	225	0.00	225	0	225	0	225	0	225		
NON FEDERAL - Section 104	6	1,701	0		1,701	0.00	1,701	0	1,701	1,701	1,701	0	1,701		
11 LEVEES & FLOODWALLS		25,943	257		26,200		25,943	257	26,200	25,292	26,005	281	26,286		
FEDERAL	11	651	257	39	908	0.00	651	257	908	0	9.5	713	281	994	
NON FEDERAL - Section 104	11	25,292	0		25,292	0.00	25,292	0	25,292	25,292	0	25,292	0	25,292	
13 PUMPING PLANT		15,066	6,430	43	21,496	0.00	15,066	6,430	21,496	0	9.5	16,493	7,039	23,532	
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		42,935	6,687		49,622		42,935	6,687	49,622	26,993	44,424	7,320	51,744		
1 LANDS & DAMAGES, Admin. (1)		256	39	15	295	0.00	256	39	295	0	22	314	47	361	
1 LANDS & DAMAGES, Real Estate		709	318	45	1,027	0.00	709	318	1,027	0	8.5	769	345	1,114	
30 PLAN/ENGINEERING/DESIGN		26,040	327		26,367		26,040	327	26,367	23,682	26,540	396	26,936		
FEDERAL	A	3,163	327	14	3,490	0.00	3,163	327	3,490	805	16	3,663	396	4,059	
NON FEDERAL - Section 104	A	22,877	0		22,877	0.00	22,877	0	22,877	22,877	0	22,877	0	22,877	
31 CONSTRUCTION MANAGE'MT		37,818	535		38,353		37,818	535	38,353	36,561	38,135	670	38,805		
FEDERAL	A	1,257	535	43	1,792	0.00	1,257	535	1,792	0	25	1,574	670	2,244	
NON FEDERAL - Section 104	A	36,561	0		36,561	0.00	36,561	0	36,561	36,561	0	36,561	0	36,561	
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		107,758	7,906		115,664		107,758	7,906	115,664	87,236	110,182	8,778	118,960		
NON-FEDERAL CONTRIBUTION(-)		3,971	0		3,971		3,971	0	3,971	3,971		3,971	0	3,971	
TOTAL FEDERAL NED COSTS		\$103,787	\$7,906		\$111,693		\$103,787	\$7,906	\$111,693	\$83,265	\$106,211	\$8,778	\$114,989		

****CONTRACT COST SUMMARY(CONT'D)****															
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010							AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010			FULLY FUNDED ESTIMATE... (3.....)					
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB MIDPT(%)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)	
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.															
NON-FEDERAL COSTS		Contingency Applied To Remaining Cost Only					Sunk Cost Price Level (EPL): 1-Oct-2010								
1 LANDS AND DAMAGES		11,207	3,974	43	15,181	0.00	11,207	3,974	15,181	1,998	7.4	11,991	4,312	16,303	
2 RELOCATIONS		10,585	2,566	47	13,151	0.00	10,585	2,566	13,151	5,092	5.8	11,105	2,809	13,914	
SECTION 104 - NED		82,460	0		82,460		82,460	0	82,460	82,460		82,460	0	82,460	
30 PLAN/ENGINEERING/DESIGN		4,555	308	47	4,863	0.00	4,555	308	4,863	3,896	1.6	4,608	333	4,941	
31 CONSTRUCTION MANAGE'MT		470	205	47	675	0.00	470	205	675	30	9	511	225	736	
SUBTOTAL NON-FEDERAL (INCLUDES FED IRRIGATION SHARE)		109,277	7,053		116,330		109,277	7,053	116,330	93,476		110,675	7,679	118,354	
NON-FEDERAL CONTRIBUTION (+) Additional Cost Above NED		3,971	0		3,971		3,971	0	3,971	3,971		3,971	0	3,971	
TOTAL NON-FEDERAL COSTS		\$113,248	\$7,053		\$120,301		\$113,248	\$7,053	\$120,301	\$97,447		\$114,646	\$7,679	\$122,325	
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach C		\$134,575	\$14,959		\$149,534		\$134,575	\$14,959	\$149,534	\$98,252		\$138,397	\$16,457	\$154,854	
Reach D															
FEDERAL COSTS															
11 LEVEES & FLOODWALLS		41,814	1,080		42,894	0.00	41,814	1,080	42,894	39,341		42,050	1,184	43,234	
FEDERAL		2,473	1,080	44	3,553	0.00	2,473	1,080	3,553	0	9.6	2,709	1,184	3,893	
NON FEDERAL - Section 104	11	39,341	0		39,341	0.00	39,341	0	39,341	39,341	0	39,341	0	39,341	
13 PUMPING PLANT		2,820	1,387	49	4,207	0.00	2,820	1,387	4,207	0	9.6	3,089	1,520	4,609	
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		44,634	2,467		47,101		44,634	2,467	47,101	39,341		45,139	2,704	47,843	
1 LANDS & DAMAGES, Admin. (1		85	13	15	98	0.00	85	13	98	0	22	104	16	120	
1 LANDS & DAMAGES, Real Estate		1,580	932	59	2,512	0.00	1,580	932	2,512	0	8.5	1,714	1,012	2,726	
30 PLAN/ENGINEERING/DESIGN		10,746	148		10,894	0.00	10,746	148	10,894	9,688		10,973	180	11,153	
FEDERAL		1,944	148	14	2,092	0.00	1,944	148	2,092	886	12	2,171	180	2,351	
NON FEDERAL - Section 104	A	8,802	0		8,802	0.00	8,802	0	8,802	8,802	0	8,802	0	8,802	
31 CONSTRUCTION MANAGE'MT		47,940	198		48,138	0.00	47,940	198	48,138	47,517		48,047	249	48,296	
FEDERAL		423	198	47	621	0.00	423	198	621	0	25	530	249	779	
NON FEDERAL - Section 104	A	47,517	0		47,517	0.00	47,517	0	47,517	47,517	0	47,517	0	47,517	
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		104,985	3,758		108,743		104,985	3,758	108,743	96,546		105,977	4,161	110,138	
NON-FEDERAL CONTRIBUTION(-)		4,639	106		4,745		4,639	106	4,745	4,374		4,670	120	4,790	
TOTAL FEDERAL NED COSTS		\$100,346	\$3,652		\$103,998		\$100,346	\$3,652	\$103,998	\$92,172		\$101,307	\$4,041	\$105,348	
NON-FEDERAL COSTS															
1 LANDS AND DAMAGES		3,633	1,532	59	5,165	0.00	3,633	1,532	5,165	1,021	6.8	3,856	1,662	5,518	
2 RELOCATIONS		10,369	3,531	47	13,900	0.00	10,369	3,531	13,900	2,823	7.6	11,091	3,869	14,960	
SECTION 104 - NED		91,286	0		91,286		91,286	0	91,286	91,286		91,286	0	91,286	
30 PLAN/ENGINEERING/DESIGN		1,080	377	47	1,457	0.00	1,080	377	1,457	272	5.1	1,130	401	1,531	
31 CONSTRUCTION MANAGE'MT		538	252	47	790	0.00	538	252	790	0	9.6	590	276	866	
SUBTOTAL NON-FEDERAL (INCLUDES FED IRRIGATION SHARE)		106,906	5,692		112,598		106,906	5,692	112,598	95,402		107,953	6,208	114,161	
NON-FEDERAL CONTRIBUTION (+) Additional Cost Above NED		4,639	106		4,745		4,639	106	4,745	4,374		4,670	120	4,790	
NON-FEDERAL CONTRIBUTION(-)		4,639	106		4,745		4,639	106	4,745	4,374		4,670	120	4,790	
TOTAL NON-FEDERAL COSTS		\$111,545	\$5,798		\$117,343		\$111,545	\$5,798	\$117,343	\$99,776		\$112,623	\$6,328	\$118,951	
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach D		\$120,605	\$9,450		\$130,055		\$120,605	\$9,450	\$130,055	\$100,662		\$122,644	\$10,369	\$133,013	
Reach E															
FEDERAL COSTS															
6 FISH & WILDLIFE FACILITIES		4,907	1,810	37	6,717	0.00	4,907	1,810	6,717	0	7.7	5283	1950	7233	
11 LEVEES & FLOODWALLS		33,402	12,879	39	46,281	0.00	33,402	12,879	46,281	0	7.7	35967	13868	49835	
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		38,309	14,689		52,998		38,309	14,689	52,998	0		41250	15818	57068	
1 LANDS & DAMAGES, Admin. (1		346	51	15	397	0.00	346	51	397	0	17	405	60	465	
1 LANDS & DAMAGES, Real Estate		790	284	36	1,074	0.00	790	284	1,074	0	6.7	843	303	1146	
30 PLAN/ENGINEERING/DESIGN		8,579	874		9,453	0.00	8,579	874	9,453	3,982		9325	1015	10340	
FEDERAL	A	5,129	874	19	6,003	0.00	5,129	874	6,003	532	15	5875	1015	6890	
NON FEDERAL - Section 104	A	3,450	0		3,450	0.00	3,450	0	3,450	3,450	0	3450	0	3450	

****CONTRACT COST SUMMARY(CONT'D)****														
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010					AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010				FULLY FUNDED ESTIMATE... (3..... SUNK COST OMB COST CNTG (\$K) (\$K) (\$K) (\$K)					
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	(\$K)	MIDPT(%)	(\$K)		
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.														
Contingency Applied To Remaining Cost Only														
31 CONSTRUCTION MANAGE'MT		3,065	1,175	38	4,240	0.00	3,065	1,175	4,240	0	20	3680	1410	5090
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		51,089	17,073		68,162		51,089	17,073	68,162	3,982		55503	18606	74109
NON-FEDERAL CONTRIBUTION(-)		3,400	1,296		4,696		3,400	1,296	4,696	0		3721	1410	5131
TOTAL FEDERAL NED COSTS		\$47,689	\$15,777		\$63,466		\$47,689	\$15,777	\$63,466	\$3,982		\$51,782	\$17,196	\$68,978
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		25,076	8,175	33	33,251	0.00	25,076	8,175	33,251	378	6.6	26,730	8,722	35,452
2 RELOCATIONS		11,433	4,617	40	16,050	0.00	11,433	4,617	16,050	0	7.7	12,312	4,971	17,283
SECTION 104 - NED		3,450	0		3,450		3,450	0	3,450	3,450		3,450	0	3,450
30 PLAN/ENGINEERING/DESIGN		1,715	693	40	2,408	0.00	1,715	693	2,408	0	6.3	1,824	736	2,560
31 CONSTRUCTION MANAGE'MT		915	369	40	1,284	0.00	915	369	1,284	0	7.7	986	397	1,383
SUBTOTAL NON-FEDERAL (INCLUDES FED IRRIGATION SHARE)		42,589	13,854		56,443		42,589	13,854	56,443	3,828		45,302	14,826	60,128
NON-FEDERAL CONTRIBUTION (+) Additional Cost Above NED		3,400	1,296		4,696		3,400	1,296	4,696	0		3,721	1,410	5,131
NON-FEDERAL CONTRIBUTION (-)		3,400	1,296		4,696		3,400	1,296	4,696	0		3,721	1,410	5,131
TOTAL NON-FEDERAL COSTS		\$45,989	\$15,150		\$61,139		\$45,989	\$15,150	\$61,139	\$3,828		\$49,023	\$16,236	\$65,259
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach E		\$90,228	\$30,927		\$121,155		\$90,228	\$30,927	\$121,155	\$4,360		\$97,355	\$33,432	\$130,787
Reach F														
FEDERAL COSTS														
11 LEVEES & FLOODWALLS		36,823	11,766	32	48,589	0.00	36,823	11,766	48,589	0	5.8	38,966	12,450	51,416
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		36,823	11,766		48,589		36,823	11,766	48,589	0		38,966	12,450	51,416
1 LANDS & DAMAGES, Admin. (1		279	42	15	321	0.00	279	42	321	0	12	314	47	361
30 PLAN/ENGINEERING/DESIGN	A	7,159	602		7,761	0.00	7,159	602	7,761	2,740		7,652	669	8,321
FEDERAL NON FEDERAL - Section 104	A	4,419	602	14	5,021	0.00	4,419	602	5,021	0	11	4,912	669	5,581
2,740		0			2,740	0.00	2,740	0	2,740	2,740		2,740	0	2,740
31 CONSTRUCTION MANAGE'MT		2,946	941	32	3,887	0.00	2,946	941	3,887	0	15	3,382	1,081	4,463
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		47,207	13,351		60,558		47,207	13,351	60,558	2,740		50,314	14,247	64,561
NON-FEDERAL CONTRIBUTION(-)		1,894	570		2,464		1,894	570	2,464	0		2,026	608	2,634
TOTAL FEDERAL NED COSTS		\$45,313	\$12,781		\$58,094		\$45,313	\$12,781	\$58,094	\$2,740		\$48,288	\$13,639	\$61,927
NON-FEDERAL COSTS														
1 LANDS AND DAMAGES		9,220	4,547	50	13,767	0.00	9,220	4,547	13,767	99	4.9	9,667	4,771	14,438
2 RELOCATIONS		11,584	3,835	33	15,419	0.00	11,584	3,835	15,419	0	5.8	12,258	4,058	16,316
SECTION 104 - NED		2,740	0		2,740		2,740	0	2,740	2,740		2,740	0	2,740
30 PLAN/ENGINEERING/DESIGN		1,390	460	33	1,850	0.00	1,390	460	1,850	0	4.5	1,452	481	1,933
31 CONSTRUCTION MANAGE'MT		927	307	33	1,234	0.00	927	307	1,234	0	5.8	981	325	1,306
SUBTOTAL NON-FEDERAL (INCLUDES FED IRRIGATION SHARE)		25,861	9,149		35,010		25,861	9,149	35,010	2,839		27,098	9,635	36,733
NON-FEDERAL CONTRIBUTION (+) Additional Cost Above NED		1,894	570		2,464		1,894	570	2,464	0		2,026	608	2,634
NON-FEDERAL CONTRIBUTION (-)		1,894	570		2,464		1,894	570	2,464	0		2,026	608	2,634
TOTAL NON-FEDERAL COSTS		\$27,755	\$9,719		\$37,474		\$27,755	\$9,719	\$37,474	\$2,839		\$29,124	\$10,243	\$39,367
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach F		\$70,328	\$22,500		\$92,828		\$70,328	\$22,500	\$92,828	\$2,839		\$74,672	\$23,882	\$98,554
Reach G														
FEDERAL COSTS														
11 LEVEES & FLOODWALLS		26,789	9,974	37	36,763	0.00	26,789	9,974	36,763	0	7.6	28,825	10,732	39,557
13 PUMPING PLANT		2,078	745	36	2,823	0.00	2,078	745	2,823	0	7.6	2,236	802	3,038
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		28,867	10,719		39,586		28,867	10,719	39,586	0		31,061	11,534	42,595
1 LANDS & DAMAGES, Admin. (1		210	31	15	241	0.00	210	31	241	0	17	246	37	283
30 PLAN/ENGINEERING/DESIGN		3,215	449	14	3,664	0.00	3,215	449	3,664	0	16	3,730	520	4,250

****CONTRACT COST SUMMARY(CONT'D)****															
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010					AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010				FULLY FUNDED ESTIMATE... (3.....)						
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB (\$K)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)	
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.															
31 CONSTRUCTION MANAGE'MT	Contingency Applied To Remaining Cost Only	2,143	796	37	2,939	0.00	2,143	796	2,939	0	20	2,567	954	3,521	
SUBTOTAL FEDERAL & NON-FEDERAL CONTRIBUTION		34,435	11,995		46,430		34,435	11,995	46,430	0		37,604	13,045	50,649	
NON-FEDERAL CONTRIBUTION(-)		1,496	563		2,059		1,496	563	2,059	0		1,634	613	2,247	
TOTAL FEDERAL NED COSTS		\$32,939	\$11,432		\$44,371		\$32,939	\$11,432	\$44,371	\$0		\$35,970	\$12,432	\$48,402	
NON-FEDERAL COSTS															
1 LANDS AND DAMAGES		13,118	5,222	40	18,340	0.00	13,118	5,222	18,340	0	6.7	13,996	5,572	19,568	
2 RELOCATIONS		9,659	3,631	38	13,290	0.00	9,659	3,631	13,290	0	7.6	10,393	3,907	14,300	
30 PLAN/ENGINEERING/DESIGN		1,457	544	38	2,001	0.00	1,457	544	2,001	8	6.2	1,548	578	2,126	
31 CONSTRUCTION MANAGE'MT		966	363	38	1,329	0.00	966	363	1,329	0	7.6	1,039	391	1,430	
SUBTOTAL NON-FEDERAL (INCLUDES FED IRRIGATION SHARE)		25,200	9,760		34,960		25,200	9,760	34,960	8		26,976	10,448	37,424	
NON-FEDERAL CONTRIBUTION (+) Additional Cost Above NED		1,496	563		2,059		1,496	563	2,059	0		1,634	613	2,247	
1,496		563			2,059		1,496	563	2,059	0		1,634	613	2,247	
TOTAL NON-FEDERAL COSTS		\$26,696	\$10,323		\$37,019		\$26,696	\$10,323	\$37,019	\$8		\$28,610	\$11,061	\$39,671	
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach G		\$59,635	\$21,755		\$81,390		\$59,635	\$21,755	\$81,390	\$8		\$64,580	\$23,493	\$88,073	
Reach H															
FEDERAL COSTS															
6 FISH & WILDLIFE FACILITIES		6,480	1,869	29	8,349	0.00	6,480	1,869	8,349	0	5.9	6,865	1,980	8,845	
11 LEVEES & FLOODWALLS		30,435	9,966	33	40,401	0.00	30,435	9,966	40,401	0	5.9	32,242	10,558	42,800	
13 PUMPING PLANT		2,227	654	29	2,881	0.00	2,227	654	2,881	0	5.9	2,359	693	3,052	
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		39,142	12,489		51,631		39,142	12,489	51,631	0		41,466	13,231	54,697	
1 LANDS & DAMAGES, Admin. (1		785	117	15	902	0.00	785	117	902	0	12	882	131	1,013	
1 LANDS & DAMAGES, Real Estate		1,283	309	24	1,592	0.00	1,283	309	1,592	0	4.9	1,346	324	1,670	
30 PLAN/ENGINEERING/DESIGN		8,845	637		9,482		8,845	637	9,482			4,148	9,384	710	10,094
FEDERAL		5,422	637	14	6,059	0.00	5,422	637	6,059	725	10	5,961	710	6,671	
NON FEDERAL - Section 104		3,423	0		3,423	0.00	3,423	0	3,423	3,423	0	3,423	0	3,423	
31 CONSTRUCTION MANAGE'MT		3,131	1,000	32	4,131	0.00	3,131	1,000	4,131	0	15	3,604	1,152	4,756	
TOTAL FEDERAL NED COSTS		\$53,186	\$14,552		\$67,738		\$53,186	\$14,552	\$67,738	\$4,148		\$56,682	\$15,548	\$72,230	
NON-FEDERAL COSTS															
1 LANDS AND DAMAGES		26,642	5,363	20	32,005	0.00	26,642	5,363	32,005	215	4.9	27,940	5,626	33,566	
2 RELOCATIONS		9,537	3,459	36	12,996	0.00	9,537	3,459	12,996	0	5.9	10,103	3,665	13,768	
SECTION 104 - NED		3,423	0		3,423		3,423	0	3,423	3,423		3,423	0	3,423	
30 PLAN/ENGINEERING/DESIGN		1,149	415	36	1,564	0.00	1,149	415	1,564	5	4.6	1,202	434	1,636	
31 CONSTRUCTION MANAGE'MT		763	277	36	1,040	0.00	763	277	1,040	0	6	809	293	1,102	
TOTAL NON-FEDERAL COSTS		\$41,514	\$9,514		\$51,028		\$41,514	\$9,514	\$51,028	\$3,643		\$43,477	\$10,018	\$53,495	
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach H		\$91,277	\$24,066		\$115,343		\$91,277	\$24,066	\$115,343	\$4,368		\$96,736	\$25,566	\$122,302	
Reach I															
FEDERAL COSTS															
11 LEVEES & FLOODWALLS		13,859	3,668	26	17,527	0.00	13,859	3,668	17,527	0	4	14,417	3,816	18,233	
13 PUMPING PLANT		1,195	315	26	1,510	0.00	1,195	315	1,510	0	4	1,243	328	1,571	
SUBTOTAL FEDERAL & NON-FEDERAL CONSTRUCTION COSTS		15,054	3,983		19,037		15,054	3,983	19,037	0		15,660	4,144	19,804	
1 LANDS & DAMAGES, Admin. (1		142	21	15	163	0.00	142	21	163	0	7.4	152	23	175	
30 PLAN/ENGINEERING/DESIGN		3,910	238		4,148		3,910	238	4,148	2,104		4,026	253	4,279	
FEDERAL		1,806	238	13	2,044	0.00	1,806	238	2,044	0	6.4	1,922	253	2,175	
NON FEDERAL - Section 104		2,104	0		2,104	0.00	2,104	0	2,104	2,104	0	2,104	0	2,104	
31 CONSTRUCTION MANAGE'MT		1,204	319	26	1,523	0.00	1,204	319	1,523	0	9.9	1,323	351	1,674	
TOTAL FEDERAL NED COSTS		\$20,310	\$4,561		\$24,871		\$20,310	\$4,561	\$24,871	\$2,104		\$21,161	\$4,771	\$25,932	
NON-FEDERAL COSTS															

****CONTRACT COST SUMMARY(CONT'D)****															
Current MCACES Estimate Prepared: 16-Aug-2010 Effective Price Level (EPL): 1-Oct-2010					AUTHORIZE/BUDGET PRICE LEVEL: 1-Oct-2010			FOLLY FUNDED ESTIMATE... (3.....							
ACCOUNT NO.	FEATURE DESCRIPTION	COST (\$K)	CNTG (\$K)	CNTG (%)	TOTAL (\$K)	OMB (%)	COST (\$K)	CNTG (\$K)	TOTAL (\$K)	SUNK COST (\$K)	OMB (\$K)	COST (\$K)	CNTG (\$K)	FULLY FUNDED (\$K)	
Index Codes: 0 - no esc. applied; A - Administration; C - Combined indexes; All other codes used coincides with the Code of Accounts.															
1	LANDS AND DAMAGES	2,257	1,336	63	3,593	0.00	2,257	1,336	3,593	141	3	2,324	1,378	3,702	
2	RELOCATIONS	2,501	667	27	3,168	0.00	2,501	667	3,168	0	4	2,602	694	3,296	
	SECTION 104 - NED	2,104	0		2,104		2,104	0	2,104		2,104	2,104	0	2,104	
30	PLAN/ENGINEERING/DESIGN	306	80	27	386	0.00	306	80	386	6	2.6	314	82	396	
31	CONSTRUCTION MANAGE'MT	200	53	27	253	0.00	200	53	253	0	4	207	56	263	
TOTAL NON-FEDERAL COSTS		\$7,368	\$2,136		\$9,504		\$7,368	\$2,136	\$9,504		\$2,251		\$7,551	\$2,210	\$9,761
TOTAL FEDERAL AND NON-FEDERAL COSTS, Reach I		\$25,574	\$6,697		\$32,271		\$25,574	\$6,697	\$32,271		\$2,251		\$26,608	\$6,981	\$33,589

CWE

The project area is comprised of nine reaches, designated A through I for economic evaluation and construction sequencing purposes. Costs for both the NED and locally preferred plan (LPP) have been developed. The Sacramento Area Flood Control Agency (SAFCA) has completed construction, or is in the process of doing so, much of the levee work in Reaches B, C & D (sans Pumping Station Modifications). These costs are shown as Section 104 work and include sunk costs for contracted work expected to be completed before 10/2010 and remaining work for ongoing projects SAFCA is providing for.

For the Locally Preferred Plan (LPP) or Early Implementation Plan (EIP), levees are raised to the 200 year water surface plus 3 ft (as determined by SAFCA) in areas where they are not already of sufficient height.

The National Economic Plan (NED), or Reduced Early Implementation Plan (REIP), does not involve raising the levees but does fix them in place and provide seepage control.

Work primarily involves increasing levee stability by increasing levee width and controlling seepage thru use of soil-bentonite slurry walls and in some cases, a seepage berm. A great deal of work is also required for many Pumping Stations/Plants and Private Irrigation Facilities where piping previously penetrated through the levee will now be relocated to pass above the nominal levee crown or 200 year water surface. Where this occurs, new pumps & motors must be provided. Where possible, a positive closure structures is placed in the levee instead of raising the pipes. In this case, the pumps do not need to be replaced. Many additional utility crossings (water, gas, electrical) of the levee also require relocating pipes/conduits.

Estimated by CESPK-ED-SC

Designed by HDR & USACE (Sacramento District)

Prepared by Robert Vrchoicky

Preparation Date 8/16/2010

Effective Date of Pricing 8/16/2010

Estimated Construction Time Days

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Project Notes.....	vii
NED	1
R-A-NED Reach A - NED.....	1
11 Levees and Floodwalls.....	1
13 Pumping Plants.....	1
02 Relocations	1
R-B-NED Reach B - NED.....	1
06 Fish & Wildlife Facilities	1
06-104 Fish & Wildlife Facilities - Section 104.....	1
11 Levees & Floodwalls.....	1
11-104 Levees & Floodwalls - Section 104.....	1
13 Pumping Plants.....	1
02 Relocations	1
R-C-NED Reach C - NED.....	1
06 Fish & Wildlife Facilities	1
06-104 Fish & Wildlife Facilities - Section 104.....	1
11 Levees & Floodwalls.....	1
11-104 Levees & Floodwalls - Section 104	1

13 Pumping Plants	1
02 Relocations	1
R-D-NED Reach D - NED	2
11 Levees & Floodwalls	2
11-104 Levees & Floodwalls - Section 104	2
13 Pumping Plants	2
02 Relocations	2
R-E-NED Reach E - NED	2
06 Fish & Wildlife	2
11 Levees & Floodwalls	2
02 Relocations	2
R-F-NED Reach F - NED	2
11 Levees and Floodwalls	2
02 Relocations	2
R-G-NED Reach G - NED	2
11 Levees and Floodwalls	2
13 Pumping Plants	2
02 Relocations	2

R-H-NED Reach H - NED.....	2
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11 Levees & Floodwalls.....	5
11-104 Levees & Floodwalls - Section 104.....	5
13 Pumping Plants.....	5
02 Relocations	5
R-E-LPP Reach E - LPP	5
06 Fish & Wildlife.....	5
11 Levees & Floodwalls.....	5

02 Relocations	5
R-F-LPP Reach F - LPP	5
11 Levees and Floodwalls.....	5
02 Relocations	5
R-G-LPP Reach G - LPP.....	5
11 Levees and Floodwalls.....	5
13 Pumping Plants.....	5
02 Relocations	5
R-H-LPP Reach H - LPP	5
06 Fish and Wildlife Facilities	5
11 Levees and Floodwalls.....	5
13 Pumping Plants.....	5
02 Relocations	5
R-I-LPP Reach I - LPP.....	6
11 Levees and Floodwalls.....	6
13 Pumping Plants.....	6
02 Relocations	6

Date Author Note

8/3/2010 Vrchoticky

File Location: CostEng on "Dolomite/Engineering/EDPublic"
F:\CivWorks\Projects\AmRiver - CommFeat_CWE&IGE-NatomasPACR
File Name: CWE-Natomas (6x10wk) "date of latest revision".mlp

BASIS OF DESIGN

This estimate is based on the draft report:

American River Common Features Project,

Natomas Post Authorization Change Report and Interim General Reevaluation Report

The type of solicitation is expected to be unrestricted IFB.

Note: Civil Design quantities are per three AE's (HDR, Wood Rodgers and Mead & Hunt) with spot checking by SPK. HDR also provided "bare cost" estimates for Pumping Plant modifications, Riverside Canal and well relocations.

PROJECT SCOPE/DESCRIPTION

The project area is comprised of nine reaches, designated A through I for economic evaluation and construction sequencing purposes. Costs for both the NED and locally preferred plan (LPP) have been developed. The Sacramento Area Flood Control Agency (SAFCA) has completed construction, or is in the process of doing so, much of the work in Reaches B, C & D (sans Pumping Station Modifications). These costs are shown as either sunk (omitted) for contracted work expected to be completed before 10/2010 or as Section 104 work for ongoing projects SAFCA is providing for.

The description of each reach, and typical work involved for each, is as follows:

Reach A: SREL from Interstate Highway 5 north to San Juan Road. (Adjacent levee, cutoff wall, Irrigation Canal, Pumping Plant Relocations (3) and Private Irrigation Facilities (1))

Reach B: SREL from San Juan Road north to Elverta Road. (Adjacent levee, cutoff wall, seepage berm, Irrigation/Drainage Canals (2), Pumping Plant Relocations (4))

Reach C: SREL from Elverta Road north to Sankey Road at the west end of the south levee of the NCC. (Adjacent levee, cutoff wall, seepage berm, Irrigation/Drainage Canals (2), Pumping Plant Relocations (2), Private Irrigation Facility)

Reach D: NCC south levee from Sankey Road north to Howsley Road. (Cutoff wall, Pumping Plant Relocations (3))

Reach E: PGCC west levee from Howsley Road north to Sankey Road. (Cutoff wall, Vinyl Sheet Pile, Private Irrigation Facilities (4))

Reach F: NEMDC west levee from Sankey Road south to Elverta Road. (Cutoff wall, Drained stability berm, flattened

Date Author Note

landside levee slope, Private Irrigation Facilities (5)

Reach G: NEMDC west levee from Elverta Road south to the pumping station just upstream of Dry Creek. (Cutoff wall, Pumping Plant Relocations, Private Irrigation Facilities (4))

Reach H: NEMDC west levee from the pumping station just upstream of Dry Creek south to Northgate Boulevard. (Cutoff wall, Jet Grouting, Pumping Plant Relocations (2))

Reach I: ARNL from Northgate Boulevard south to Interstate Highway 5. (Cutoff wall, Pumping Plant Relocations)

In addition, bridge work (removal & raise/replacement) is required for bridges in Reaches E-H

CONSTRUCTION SCHEDULE

Total Project Schedules including design, pre-construction, construction and post construction were developed using MS Project with construction durations based on those developed in MII. These were used to insure the project reaches could be completed within the construction windows and with the anticipated crews. It was determined that Reaches A, B, E, F, G & H will require two crews for slurry wall construction, excavation at the borrow areas and levee restoration. It was determined that Reach A would also require two construction seasons due to the long construction period for the deep slurry walls.

CONSTRUCTION WINDOWS

This estimate considers the construction work window for major construction activities to be May-Oct, April and November are available for mobilization and demobilization of equipment and non-flood protection items such as hydroseeding that do not change the effectiveness of flood control and drainage system.

OVERTIME

Overtime is included in this estimate. Assumption is 10 hr days, 6 days/week.

ACQUISITION PLAN

Construction Contracts are assumed to be design-bid-build, lowest competitive price.

CONTRACTING PLAN

The prime contractor is expected to be an earthwork contractor responsible for the general site work, borrow site excavation, levee degrading and rebuilding to the restored or new levee height.

Subcontractors are provided for two categories, miscellaneous/general and trucking:

Date Author Note

Miscellaneous/General Subcontractors are expected to be utilized for cutoff wall placement, pumping plant relocations, bridge relocations, jet grouting, sheet pile work, paving and hydroseeding.

PROJECT CONSTRUCTION

The project consists of 9 reaches (A-I) with multiple utility relocations for penetrations through the levees (primarily pumping plants and private irrigation facilities). Should the LPP ultimately be constructed, several bridges will also be raised.

SITE ACCESS

The project sites encompass the perimeter of the Natomas Basin in the Sacramento, CA area and are accessible by paved local roads. Certain reaches (B, C, D & E) are of close enough proximity to borrow areas that scrapers are a viable option for degrading of levees and levee restoration.

BORROW \ DISPOSAL AREAS

Many potential borrow areas have been identified in or very near to (such as the "Triangle") the Natomas basin and these are expected to provide the borrow required. Disposal of Debris is normal.

CONSTRUCTION METHODOLOGY

The construction methodologies are considered standard, except for deep (greater than 85 ft) cutoff wall excavation & placement. Below this depth a conventional long reach hydraulic excavator cannot be used. The method provided in the cost estimate opts for the contractor to utilize a hydraulic clamshell in excavating to the lower depths of the wall (the lower 18.5 ft for the extreme depth walls, 103.5 ft deep). The estimator realizes that production by the clamshell is much slower than that of the excavator but the extra depth is approximately 20% of that for the excavator and it is believed the 18.5 ft done by the clamshell will allow it to roughly keep up with the 85 ft done by the excavator. Other methods such as deep-soil-mixing are expected to be a contractor option. Deep soil mixing was examined but is expected to be slightly less cost effective than excavator/clamshell at this depth.

UNUSUAL CONDITIONS

No unusual conditions.

UNIQUE TECHNIQUES OF CONSTRUCTION

Proximity of existing bridge abutments or retaining walls require that jet grouting be performed in lieu of placing slurry

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cutoff walls in two short lengths of Reach H.

EQUIPMENT AND LABOR AVAILABILITY & DISTANCE TRAVELED

In an urban area such as Sacramento, equipment and labor is readily available within a 100 mile radius of the site.

ENVIRONMENTAL CONCERNS

Environment protection requires consideration of air, water, and land, and involves noise, solid-waste management and management of other pollutants. In order to prevent or provide for abatement and control of any environmental pollution arising from the work activities, the Contractor and his subcontractors in the performance of this contract, shall comply with all applicable Federal, State, and local laws, and regulations concerning environmental pollution control and abatement. The Contractor shall use best management practices at all times to minimize the potential for environmental impacts. A running 2% markup on construction equipment is provided to account for air quality considerations.

LABOR RATES, EQUIPMENT RATES, MATERIAL COSTS & SALES TAX

This estimate meets Davis Bacon wage rates for Davis Bacon wage determinations for the state of California, General Decision Numbers: CA 20100003 03/12/2010, CA 20100006 03/12/2010, CA 20100009 03/12/2010 and CA 20100026 03/12/2010.

Equipment unit costs were obtained from Quotes or verbal/telephone conversations with Contractors performing like or similar work and the MCACES Equipment Library.

Material prices were obtained from Quotes, supply catalogs, previous similar estimates, and the MCACES Cost Book.

Sales tax is applied at 8.75%.

CONTRACTOR MARKUPS

Profit is included for the prime contractor (8.48% based on PWG). Home Office Overhead is considered to be 7% for these relatively large projects. Job/Field Office Overhead (JOOH) is set at 10% for all reaches except Reach I, where it is set at 23%. Small Tool Markup is set at a running 2% of Labor costs. Bond is set at 0.7%.

Initially, JOOH was calculated independently for each reach (based on the developed construction schedule) with Small Tools set at 2% of Prime Contractor Labor. It is considered very likely however, that the contractors will be given the full

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construction season to complete the work (2 seasons in the case of Reach A). Reaches A-H typically showed a JOOH in the 8-11% range, with an average of about 9.5%. 10% was therefore chosen to be used uniformly in those reaches. Reach I has a somewhat higher JOOH due to a shorter calculated construction duration extended to allow the full construction season.

Likewise, bond was initially calculated based on Bond Class B. A weighted average was used for conformity of costs between like work in the NED vs the LPP.

Miscellaneous/General Subcontractors have profit set at of 10% , Home Office Overhead at 12% and Job Office Overhead at 15% (performs the majority of the cutoff wall/jet grouting/sheet pile/pumping plant/bridge work). Bond is set at 0.8%.

The Trucking/Hauling Subcontractors have profit set at of 10%, Home Office Overhead at 10% and Job Office Overhead at 5%. Bond again is set at 1.0%.

Productivity/Task Durations are based on production for 50 minutes/hr for meetings/breaks, accessing the working area/office trailer to get supplies.

Note: Gasoline and diesel fuel costs used in the estimate are the average costs in the Sacramento area as of July 2010. Off-road diesel costs are assumed at 90% of on-road.

BRIDGE RAISING COSTS

These were provided by Wood Rodgers an AE firm who provided the civil design for Reaches D-H. The costs are within reason when compared to "Comparative Bridge Costs" (January 2010) as set forth by Caltrans.

CWE

Prime Contractor Cost or Bid Cost w/o Esc Page 1

Description	Quantity	UOM	CostToPrime	JOOH_PRM	HOOH_PRM	Profit_PRM	Bond_PRM	ContractCost
NED	1.00	EA	363,735,688	26,413,228	19,227,092	24,922,705	2,231,758	455,633,744
R-A-NED Reach A - NED	1.00	EA	54,782,444	5,378,244	4,141,248	5,368,004	480,690	70,745,360
11 Levees and Floodwalls	1.00	EA	42,836,965	4,283,697	3,298,446	4,275,540	382,863	55,077,511
13 Pumping Plants	1.00	EA	3,747,294	374,729	288,542	374,016	33,492	4,818,074
02 Relocations	1.00	EA	8,198,184	719,818	554,260	718,448	64,335	10,849,776
R-B-NED Reach B - NED	1.00	EA	79,114,346	3,519,066	2,709,681	3,512,366	314,522	98,144,479
06 Fish & Wildlife Facilities	1.00	EA	0	0	0	0	0	1,635,000
06-104 Fish & Wildlife Facilities - Section 104	1.00	EA	57,771	0	0	0	0	227,262
11 Levees & Floodwalls	1.00	EA	15,746,711	1,574,671	1,212,497	1,571,673	140,739	20,246,290
11-104 Levees & Floodwalls - Section 104	1.00	EA	36,951,576	0	0	0	0	43,030,812
13 Pumping Plants	1.00	EA	10,764,869	1,076,487	828,895	1,074,437	96,213	13,840,901
02 Relocations	1.00	EA	15,593,420	867,908	668,289	866,256	77,571	19,164,215
R-C-NED Reach C - NED	1.00	EA	39,719,073	1,557,551	1,199,314	1,554,585	139,209	48,587,363
06 Fish & Wildlife Facilities	1.00	EA	0	0	0	0	0	225,000
06-104 Fish & Wildlife Facilities - Section 104	1.00	EA	58,620	0	0	0	0	1,700,802
11 Levees & Floodwalls	1.00	EA	505,949	50,595	38,958	50,499	4,522	650,522
11-104 Levees & Floodwalls - Section 104	1.00	EA	19,382,393	0	0	0	0	21,320,632
13 Pumping Plants	1.00	EA	11,717,469	1,171,747	902,245	1,169,516	104,727	15,065,703
02 Relocations	1.00	EA	8,054,643	335,209	258,111	334,571	29,960	9,624,704

CWE

Prime Contractor Cost or Bid Cost w/o Esc Page 2

Description	Quantity	UOM	CostToPrime	JOOH_PRM	HOOH_PRM	Profit_PRM	Bond_PRM	ContractCost
R-D-NED Reach D - NED	1.00	EA	42,845,481	982,419	756,462	980,548	87,805	48,954,845
11 Levees & Floodwalls	1.00	EA	1,761,281	176,128	135,619	175,793	15,742	2,264,562
11-104 Levees & Floodwalls - Section 104	1.00	EA	31,787,966	0	0	0	0	34,966,763
13 Pumping Plants	1.00	EA	2,193,513	219,351	168,901	218,934	19,605	2,820,304
02 Relocations	1.00	EA	7,102,721	586,939	451,943	585,822	52,459	8,903,217
R-E-NED Reach E - NED	1.00	EA	33,788,351	3,158,425	2,431,987	3,152,412	282,290	43,276,990
06 Fish & Wildlife	1.00	LS	3,867,988	201,389	155,069	201,005	17,999	4,906,977
11 Levees & Floodwalls	1.00	LS	23,774,870	2,377,487	1,830,665	2,372,960	212,492	30,568,474
02 Relocations	1.00	LS	6,145,493	579,549	446,253	578,446	51,798	7,801,539
R-F-NED Reach F - NED	1.00	EA	34,567,721	3,388,772	2,609,355	3,382,320	302,877	44,251,045
11 Levees and Floodwalls	1.00	EA	27,411,734	2,741,173	2,110,704	2,735,954	244,997	35,244,562
02 Relocations	1.00	LS	7,155,987	647,599	498,651	646,366	57,880	9,006,483
R-G-NED Reach G - NED	1.00	EA	27,661,797	2,715,180	2,090,688	2,710,010	242,674	35,420,349
11 Levees and Floodwalls	1.00	EA	19,870,168	1,987,017	1,530,003	1,983,233	177,593	25,548,014
13 Pumping Plants	1.00	EA	1,616,350	161,635	124,459	161,327	14,446	2,078,217
02 Relocations	1.00	LS	6,175,280	566,528	436,227	565,449	50,634	7,794,118
R-H-NED Reach H - NED	1.00	EA	39,046,654	2,905,311	2,237,090	2,899,780	259,667	48,699,264
06 Fish and Wildlife Facilities	1.00	LS	6,465,180	0	0	0	0	6,480,180
11 Levees and Floodwalls	1.00	EA	23,687,698	2,368,770	1,823,953	2,364,260	211,713	30,456,393
13 Pumping Plants	1.00	EA	1,732,066	173,207	133,369	172,877	15,481	2,227,000
02 Relocations	1.00	LS	7,161,710	363,335	279,768	362,643	32,474	9,535,692

CWE

Prime Contractor Cost or Bid Cost w/o Esc Page 3

Description	Quantity	UOM	CostToPrime	JOOH_PRM	HOOH_PRM	Profit_PRM	Bond_PRM	ContractCost
R-I-NED Reach I - NED	1.00	EA	12,209,820	2,808,259	1,051,266	1,362,680	122,024	17,554,049
11 Levees and Floodwalls	1.00	EA	9,639,973	2,217,194	830,002	1,075,872	96,341	13,859,381
13 Pumping Plants	1.00	EA	831,248	191,187	71,570	92,772	8,307	1,195,085
02 Relocations	1.00	LS	1,738,599	399,878	149,693	194,037	17,375	2,499,583

Description	Quantity	UOM	CostToPrime	JOOH_PRM	HOOH_PRM	Profit_PRM	Bond_PRM	ContractCost
LPP	1.00	EA	394,836,881	26,914,655	19,613,191	25,423,178	2,276,574	493,796,239
R-A-LPP Reach A - LPP	1.00	EA	54,782,444	5,378,244	4,141,248	5,368,004	480,690	70,745,360
11 Levees and Floodwalls	1.00	EA	42,836,965	4,283,697	3,298,446	4,275,540	382,863	55,077,511
13 Pumping Plants	1.00	EA	3,747,294	374,729	288,542	374,016	33,492	4,818,074
02 Relocations	1.00	EA	8,198,184	719,818	554,260	718,448	64,335	10,849,776
R-B-LPP Reach B - LPP	1.00	EA	90,241,870	3,519,066	2,709,681	3,512,366	314,522	111,596,269
06 Fish & Wildlife Facilities	1.00	EA	0	0	0	0	0	1,635,000
06-104 Fish & Wildlife Facilities - Section 104	1.00	EA	57,771	0	0	0	0	227,262
11 Levees & Floodwalls	1.00	EA	15,746,711	1,574,671	1,212,497	1,571,673	140,739	20,246,290
11-104 Levees & Floodwalls - Section 104	1.00	EA	45,948,278	0	0	0	0	53,850,689
13 Pumping Plants	1.00	EA	10,764,869	1,076,487	828,895	1,074,437	96,213	13,840,901
02 Relocations	1.00	EA	17,724,241	867,908	668,289	866,256	77,571	21,796,128
R-C-LPP Reach C - LPP	1.00	EA	44,202,371	1,557,551	1,199,314	1,554,585	139,209	53,518,991
06 Fish & Wildlife Facilities	1.00	EA	0	0	0	0	0	225,000
06-104 Fish & Wildlife Facilities - Section 104	1.00	EA	58,620	0	0	0	0	1,700,802
11 Levees & Floodwalls	1.00	EA	505,949	50,595	38,958	50,499	4,522	650,522
11-104 Levees & Floodwalls - Section 104	1.00	EA	22,992,454	0	0	0	0	25,291,699
13 Pumping Plants	1.00	EA	11,717,469	1,171,747	902,245	1,169,516	104,727	15,065,703
02 Relocations	1.00	EA	8,927,880	335,209	258,111	334,571	29,960	10,585,264

CWE

Prime Contractor Cost or Bid Cost w/o Esc Page 5

Description	Quantity	UOM	CostToPrime	JOOH_PRM	HOOH_PRM	Profit_PRM	Bond_PRM	ContractCost
R-D-LPP Reach D - LPP	1.00	EA	48,317,112	998,624	768,940	996,723	89,254	55,003,740
11 Levees & Floodwalls	1.00	EA	1,923,334	192,333	148,097	191,967	17,190	2,472,921
11-104 Levees & Floodwalls - Section 104	1.00	EA	35,764,544	0	0	0	0	39,340,998
13 Pumping Plants	1.00	EA	2,193,513	219,351	168,901	218,934	19,605	2,820,304
02 Relocations	1.00	EA	8,435,721	586,939	451,943	585,822	52,459	10,369,517
R-E-LPP Reach E - LPP	1.00	EA	38,552,931	3,428,031	2,639,584	3,421,504	306,386	49,742,795
06 Fish & Wildlife	1.00	LS	3,867,988	201,389	155,069	201,005	17,999	4,906,977
11 Levees & Floodwalls	1.00	EA	25,978,727	2,597,873	2,000,362	2,592,926	232,189	33,402,077
02 Relocations	1.00	LS	8,706,215	628,769	484,152	627,572	56,197	11,433,741
R-F-LPP Reach F - LPP	1.00	EA	37,569,397	3,506,996	2,700,387	3,500,318	313,444	48,409,289
11 Levees and Floodwalls	1.00	EA	28,641,933	2,864,193	2,205,429	2,858,740	255,992	36,826,287
02 Relocations	1.00	LS	8,927,463	642,802	494,958	641,579	57,452	11,583,001
R-G-LPP Reach G - LPP	1.00	EA	29,914,283	2,812,573	2,165,681	2,807,218	251,378	38,526,483
11 Levees and Floodwalls	1.00	EA	20,836,074	2,083,607	1,604,378	2,079,640	186,226	26,789,925
13 Pumping Plants	1.00	EA	1,616,350	161,635	124,459	161,327	14,446	2,078,217
02 Relocations	1.00	LS	7,461,860	567,330	436,844	566,250	50,706	9,658,341
R-H-LPP Reach H - LPP	1.00	EA	39,046,654	2,905,311	2,237,090	2,899,780	259,667	48,699,264
06 Fish and Wildlife Facilities	1.00	LS	6,465,180	0	0	0	0	6,480,180
11 Levees and Floodwalls	1.00	EA	23,687,698	2,368,770	1,823,953	2,364,260	211,713	30,456,393
13 Pumping Plants	1.00	EA	1,732,066	173,207	133,369	172,877	15,481	2,227,000
02 Relocations	1.00	LS	7,161,710	363,335	279,768	362,643	32,474	9,535,692

CWE

Prime Contractor Cost or Bid Cost w/o Esc Page 6

Description	Quantity	UOM	CostToPrime	JOOH_PRM	HOOH_PRM	Profit_PRM	Bond_PRM	ContractCost
R-I-LPP Reach I - LPP	1.00	EA	12,209,820	2,808,259	1,051,266	1,362,680	122,024	17,554,049
11 Levees and Floodwalls	1.00	EA	9,639,973	2,217,194	830,002	1,075,872	96,341	13,859,381
13 Pumping Plants	1.00	EA	831,248	191,187	71,570	92,772	8,307	1,195,085
02 Relocations	1.00	LS	1,738,599	399,878	149,693	194,037	17,375	2,499,583

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10									
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010	2011	2012	2013	2014	2015	2016	2017	2018		
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
1	Natomas PACR (NED)	2608.75 days	Mon 8/2/10	Sat 4/1/17														
2	Construction of Reaches A, B (remaining), H, I, E, F, G, and B,C,D (utility relocations)	2608.75 days	Mon 8/2/10	Sat 4/1/17														
3	Construction Contract 1 - Reach A	1433.75 days	Mon 8/2/10	Tue 4/1/14			SREL Sta 742+60 to Sta 956+83 and Sta 0+00 to 20+50. Work involves levee improvements and/or											
4	Design	390 days	Mon 8/2/10	Mon 8/1/11														
5	Collect field explorations	90 days	Mon 8/2/10	Mon 10/25/10	6													
6	Conduct geotechnical evaluation	90 days	Mon 10/25/10	Mon 1/17/11	5	7												
7	Develop Basis of Design Report	30 days	Mon 1/17/11	Mon 2/14/11	6	8												
8	Develop Plans & Specifications	180 days	Mon 2/14/11	Mon 8/1/11	7													
9	Pre-Construction	96.25 days	Mon 10/3/11	Sat 12/31/11														
10	Project Bid	41.25 days	Mon 10/3/11	Thu 11/10/11	11													
11	Award Task Order	8.75 days	Thu 11/10/11	Fri 11/18/11	10	12												
12	Construction Contract Awarded	0 days	Fri 11/18/11	Fri 11/18/11	11	13FS+6.25 days												
13	Issue NTP	0 days	Thu 11/24/11	Thu 11/24/11	12FS+6.25 days	14FS+1.25 days												
14	NTP Acknowledged	0 days	Fri 11/25/11	Fri 11/25/11	13FS+1.25 days	15												
15	Pre-Con Meeting	1.25 days	Fri 11/25/11	Sat 11/26/11	14	16												
16	Prepare Pre-Construction Submittals	28.75 days	Sat 11/26/11	Fri 12/23/11	15	17SS												
17	Corps Approve Pre-Construction Submittals	37.5 days	Sat 11/26/11	Sat 12/31/11	16SS													
18	Construction	605.69 days	Mon 4/2/12	Fri 10/18/13														
19	Levees & Floodwalls	603.5 days	Mon 4/2/12	Wed 10/16/13														
20	Levees	603.5 days	Mon 4/2/12	Wed 10/16/13														
21	Season 1	241.25 days	Mon 4/2/12	Tue 11/13/12														
22	Site Mobilization - Levees	18 days	Mon 4/2/12	Wed 4/18/12	23,74SS,127SS													
23	Haul Roads & Drainage	6 days	Wed 4/18/12	Tue 4/24/12	22	24SS												
24	SWPP Installation - Levees	5 days	Wed 4/18/12	Mon 4/23/12	23SS		full duration of levee constr											
25	Clearing & Grubbing	3 days	Tue 5/1/12	Thu 5/3/12		26SS+2 days												
26	Levee Stripping	12 days	Wed 5/2/12	Mon 5/14/12	25SS+2 days	35SS+2 days												
27	Site Mobilization - Borrow Areas	18 days	Mon 4/2/12	Wed 4/18/12		28												
28	Haul Roads & Drainage - Borrow Areas	6 days	Wed 4/18/12	Tue 4/24/12	27	29SS												
29	SWPP Installation - Borrow Areas	2 days	Wed 4/18/12	Fri 4/20/12	28SS	30	full duration of borrow area use											
30	Borrow Areas - Surface Layer Removal & Stockpile	13 days	Fri 4/20/12	Wed 5/2/12	29													
31	Borrow Areas - Excavation & Hauling (to replace std depth CO Wall Waste)	28 days	Fri 5/4/12	Wed 5/30/12	35SS		assumes 2 crews used											

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
32	Borrow Areas - Excavation & Hauling (to replace deep CO Wall Waste)	115 days	Wed 5/30/12	Fri 9/14/12 36SS			assumes 2 crews used																						
33	Borrow Areas - Excavation & Hauling	143 days	Thu 5/24/12	Thu 10/4/12 37SS			assumes 2 crews used																						
34	Site Mobilization - Slurry Wall	15 days	Tue 4/17/12	Tue 5/1/12 35SS-18 days																									
35	Slurry Wall Construction (depth less than 75')	28 days	Fri 5/4/12	Wed 5/30/12 26SS+2 days	36,31SS,37SS+ days,34SS-18 days																								
36	Slurry Wall Construction (depth 75' or more)	115 days	Wed 5/30/12	Fri 9/14/12 35	38,32SS	Assumes 2 crews used																							
37	Select/Levee Fill & Random Fill	143 days	Thu 5/24/12	Thu 10/4/12 35SS+21 days	33SS,41,39FF+ days	assumes 2 crews used																							
38	Demob - Slurry Wall	12 days	Fri 9/14/12	Wed 9/26/12 36																									
39	Maintenance Road - ABC	3 days	Sat 10/6/12	Tue 10/9/12 37FF+5 days	40																								
40	Revegetation/Hydroseed	10 days	Tue 10/9/12	Thu 10/18/12 39																									
41	Surface Layer Restoration - Borrow Areas	15 days	Thu 10/4/12	Thu 10/18/12 37	42																								
42	Demob - Borrow Areas	6 days	Thu 10/18/12	Wed 10/24/12 41	43																								
43	Site Cleanup/Finish Work - Borrow Areas	5 days	Wed 10/24/12	Mon 10/29/12 42	44																								
44	Weather Delays	6 days	Mon 10/29/12	Sat 11/3/12 43	45																								
45	Demob - Levee Areas	5 days	Sat 11/3/12	Thu 11/8/12 44	46																								
46	Site Cleanup/Finish Work - Levee Areas	5 days	Thu 11/8/12	Tue 11/13/12 45																									
47	Season 2	213.5 days	Mon 4/1/13	Wed 10/16/13																									
48	Site Mobilization - Levees - Season 1	18 days	Mon 4/1/13	Wed 4/17/13	49																								
49	Haul Roads & Drainage	6 days	Wed 4/17/13	Tue 4/23/13 48	50SS																								
50	SWPP Installation - Levees	5 days	Wed 4/17/13	Mon 4/22/13 49SS		full duration of levee constr																							
51	Clearing & Grubbing	3 days	Wed 5/1/13	Fri 5/3/13	52SS+2 days																								
52	Levee Stripping	12 days	Thu 5/2/13	Tue 5/14/13 51SS+2 days	60SS+2 days																								
53	Site Mobilization - Borrow Areas	18 days	Mon 4/1/13	Wed 4/17/13	54																								
54	Haul Roads & Drainage - Borrow Areas	6 days	Wed 4/17/13	Tue 4/23/13 53	55SS																								
55	SWPP Installation - Borrow Areas	2 days	Wed 4/17/13	Fri 4/19/13 54SS	56	full duration of borrow area use																							
56	Borrow Areas - Surface Layer Removal & Stockpile	13 days	Fri 4/19/13	Wed 5/1/13 55																									
57	Borrow Areas - Excavation & Hauling (to replace deep CO Wall Waste)	115 days	Sat 5/4/13	Tue 8/20/13 60SS		assumes 2 crews used																							
58	Borrow Areas - Excavation & Hauling	115 days	Fri 5/24/13	Mon 9/9/13 61SS		assumes 2 crews used																							

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																					
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018						
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2			
59	Site Mobilization - Slurry Wall	15 days	Wed 4/17/13	Wed 5/1/13	60SS-18 days																									
60	Slurry Wall Construction (depth 75' or more)	115 days	Sat 5/4/13	Tue 8/20/13	52SS+2 days	57SS,62,61SS+	Assumes 2 crews used days,59SS-18 days,101SS+20 days,110SS+45																							
61	Select/Levee Fill & Random Fill	115 days	Fri 5/24/13	Mon 9/9/13	60SS+21 days	58SS,65,63FF+	asssumes 2 crews used days																							
62	Demob - Slurry Wall	12 days	Tue 8/20/13	Fri 8/30/13	60																									
63	Maintenance Road - ABC	3 days	Tue 9/10/13	Fri 9/13/13	61FF+5 days	64																								
64	Revegetation/Hydroseed	10 days	Fri 9/13/13	Mon 9/23/13	63																									
65	Surface Layer Restoration - Borrow Areas	15 days	Mon 9/9/13	Mon 9/23/13	61	66																								
66	Demob - Borrow Areas	5 days	Mon 9/23/13	Fri 9/27/13	65	67																								
67	Site Cleanup/Finish Work - Borrow Areas	5 days	Fri 9/27/13	Wed 10/2/13	66	68																								
68	Weather Delays	6 days	Wed 10/2/13	Mon 10/7/13	67	69																								
69	Demob - Levee Areas	5 days	Mon 10/7/13	Fri 10/11/13	68	70																								
70	Site Cleanup/Finish Work - Levee Areas	5 days	Fri 10/11/13	Wed 10/16/13	69	127FF,126FF																								
71	Relocations	605.69 days	Mon 4/2/12	Fri 10/18/13																										
72	Utilities	605.69 days	Mon 4/2/12	Fri 10/18/13																										
73	Season 1	115.19 days	Mon 4/2/12	Wed 7/18/12																										
74	Site Mobilization - for Util Relocations	15 days	Mon 4/2/12	Mon 4/16/12	22SS	75																								
75	Utility Poles	100 days	Mon 4/16/12	Wed 7/18/12	74		1/day																							
76	Site Demob - for Util Relocations	15 days	Mon 4/2/12	Sat 4/14/12																										
77	Season 2	215.5 days	Mon 4/1/13	Fri 10/18/13																										
78	Site Mobilization - for Util Relocations	15 days	Mon 4/1/13	Mon 4/15/13																										
79	Riverside Canal, SREL 3B	168 days	Wed 5/1/13	Fri 10/4/13		124																								
80	Demo	16 days	Wed 5/1/13	Wed 5/15/13		81FF																								
81	Clear & Grub	8 days	Wed 5/8/13	Wed 5/15/13	80FF	82SS+2 days																								
82	Stripping	11 days	Fri 5/10/13	Mon 5/20/13	81SS+2 days	84FF+1 day																								
83	Compacted Embankment	89 days	Thu 6/13/13	Wed 9/4/13	89FS+5 days	85FF+20 days																								
84	Excavation to Stockpile	3 days	Sat 5/18/13	Tue 5/21/13	82FF+1 day	89,90																								
85	Concrete Canal Lining	14 days	Tue 9/10/13	Mon 9/23/13	83FF+20 days	86																								
86	ABC	9 days	Mon 9/23/13	Wed 10/2/13	85	88																								
87	Field Irrigation Turnouts	10 days	Sat 6/8/13	Tue 6/18/13	89																									
88	Erosion Control Seeding	3 days	Wed 10/2/13	Fri 10/4/13	86																									

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AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018			
								H1	H2																		
89	30-IN Solid Wall HDPE Pipeline	20 days	Tue 5/21/13	Sat 6/8/13 84		83FS+5 days,87																					
90	Pumping Plant Outfall	20 days	Tue 5/21/13	Sat 6/8/13 84		91SS																					
91	Water Control Facilities	30 days	Tue 5/21/13	Tue 6/18/13 90SS																							
92	Private Irrigation Facility Relocation (Tennet-Labvitch)	60 days	Wed 5/1/13	Wed 6/26/13			Sta ~853+00																				
93	Demo	2 days	Wed 5/1/13	Thu 5/2/13		94SS																					
94	Earthwork	20 days	Wed 5/1/13	Mon 5/20/13 93SS		95																					
95	Well Drilling	10 days	Mon 5/20/13	Wed 5/29/13 94		96																					
96	Well Development	5 days	Wed 5/29/13	Mon 6/3/13 95		97																					
97	Concrete Pad	5 days	Mon 6/3/13	Fri 6/7/13 96		98FS+10 days																					
98	Pump & Discharge Pipe	10 days	Mon 6/17/13	Wed 6/26/13 97FS+10 days	99FF																						
99	Electrical Service	10 days	Mon 6/17/13	Wed 6/26/13 98FF																							
100	Pumping Plant - Sump 160	80 days	Thu 5/23/13	Tue 8/6/13			Sta ~900+00																				
101	Demo	16 days	Thu 5/23/13	Fri 6/7/13 60SS+20 days	102FF		expected to commence about 20 days before levee construction reaches this point																				
102	Earthwork	4 days	Mon 6/3/13	Fri 6/7/13 101FF	104																						
103	Roads	4 days	Fri 8/2/13	Tue 8/6/13 108	106FF																						
104	Pipes	12 days	Fri 6/7/13	Tue 6/18/13 102	105SS																						
105	Positive Closure Vault	30 days	Fri 6/7/13	Fri 7/5/13 104SS	107																						
106	Security Fence	2 days	Sat 8/3/13	Tue 8/6/13 103FF																							
107	Pumps & Motors	30 days	Fri 7/5/13	Fri 8/2/13 105	108FF																						
108	Power & Controls	30 days	Fri 7/5/13	Fri 8/2/13 107FF	103																						
109	RD 1000, PP No 1A	56 days	Sat 6/15/13	Wed 8/7/13			Sta ~924+50																				
110	Demo	6 days	Sat 6/15/13	Fri 6/21/13 60SS+45 days	111		expected to commence about 20 days before levee construction reaches this point																				
111	Site Work	12 days	Fri 6/21/13	Tue 7/2/13 110	112																						
112	Construct Chamber for Sluice Gates & Flap Gates	10 days	Tue 7/2/13	Thu 7/11/13 111	113FS+10 days																						
113	New Slide/Sluice Gates	8 days	Sat 7/20/13	Mon 7/29/13 112FS+10 days	114																						
114	New Flap Gates & Power Winch for Opening	5 days	Mon 7/29/13	Fri 8/2/13 113	115FF+5 days																						
115	Pwr & Controls for Gate Facilities	10 days	Mon 7/29/13	Wed 8/7/13 114FF+5 days																							
116	RD 1000, PP No 1B	78 days	Sat 6/15/13	Tue 8/27/13			Sta ~924+50																				
117	Demo	13 days	Sat 6/15/13	Thu 6/27/13 60SS+45 days	118FF		expected to commence about 20 days before levee construction reaches this point																				
118	Earthwork	3 days	Tue 6/25/13	Thu 6/27/13 117FF	120																						
119	Roads	5 days	Thu 8/22/13	Tue 8/27/13 123																							

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10									
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010	2011	2012	2013	2014	2015	2016	2017	2018		
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H1	
120	Pipes	10 days	Thu 6/27/13	Sat 7/6/13	118	121SS												
121	Positive Closure Vault	30 days	Thu 6/27/13	Thu 7/25/13	120SS	122												
122	Pumps & Motors	30 days	Thu 7/25/13	Thu 8/22/13	121	123FF												
123	Power & Controls	30 days	Thu 7/25/13	Thu 8/22/13	122FF	119												
124	Site Demob - for Util Relocations	15 days	Fri 10/4/13	Fri 10/18/13	79													
125	Engineering during Construction, S&A and Construction Completion	605 days	Mon 4/2/12	Fri 10/18/13														
126	Engineering During Construction	605 days	Mon 4/2/12	Fri 10/18/13	22SS,70FF													
127	Supervision and Administration	605 days	Mon 4/2/12	Fri 10/18/13	22SS,70FF	128FF												
128	Construction Completion	0 days	Fri 10/18/13	Fri 10/18/13	127FF	130												
129	Inspection and Construction per Punch List	9 days	Fri 10/18/13	Sat 10/26/13														
130	PreFinal Inspection	2 days	Fri 10/18/13	Sat 10/19/13	128	131												
131	Contractor Implement Punch List Items	6 days	Sat 10/19/13	Fri 10/25/13	130	132												
132	Final Inspection	1 day	Fri 10/25/13	Sat 10/26/13	131	133,135												
133	Construction Physical Completion	0 days	Sat 10/26/13	Sat 10/26/13	132	136												
134	Project Closeout	167.25 days	Sat 10/26/13	Tue 4/1/14														
135	Construction Prepares Project Completion Letter	6 days	Sat 10/26/13	Fri 11/1/13	132													
136	Contractors Complete As-Builts	24 days	Sat 10/26/13	Mon 11/18/13	133	137												
137	Submit As-Builts	1 day	Mon 11/18/13	Tue 11/19/13	136	138												
138	Notice of Completion/Assumption of OMRR&R	0 days	Tue 11/19/13	Tue 11/19/13	137													
139	Project Fiscally Complete	0 days	Tue 4/1/14	Tue 4/1/14														
140	Construction Contract 2 - Reach B (remaining work)	977.5 days	Sat 10/1/11	Tue 4/1/14			SREL Sta 635+00 to 742+60 - Work involves changes to several pumping plants and canal											
141	Design	390 days	Sat 10/1/11	Sat 9/29/12														
142	Collect field explorations	90 days	Sat 10/1/11	Sat 12/24/11		143												
143	Conduct geotechnical evaluation	90 days	Sat 12/24/11	Sat 3/17/12	142	144												
144	Develop Basis of Design Report	30 days	Sat 3/17/12	Sat 4/14/12	143	145												
145	Develop Plans & Specifications	180 days	Sat 4/14/12	Sat 9/29/12	144													
146	Pre-Construction	96.25 days	Mon 10/1/12	Sat 12/29/12														
147	Project Bid	41.25 days	Mon 10/1/12	Thu 11/8/12		148												
148	Award Task Order	8.75 days	Thu 11/8/12	Fri 11/16/12	147	149												
149	Construction Contract Awarded	0 days	Fri 11/16/12	Fri 11/16/12	148	150FS+6.25 days												
150	Issue NTP	0 days	Thu 11/22/12	Thu 11/22/12	149	151FS+1.25 days												
151	NTP Acknowledged	0 days	Fri 11/23/12	Fri 11/23/12	150	152												

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE										Fri 8/13/10															
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
152	Pre-Con Meeting	1.25 days	Fri 11/23/12	Sat 11/24/12 151		153																			
153	Prepare Pre-Construction Submittals	28.75 days	Sat 11/24/12	Fri 12/21/12 152		154SS																			
154	Corps Approve Pre-Construction Submittals	37.5 days	Sat 11/24/12	Sat 12/29/12 153SS																					
155	Construction	196.5 days	Mon 4/1/13	Tue 10/1/13																					
156	Levees & Floodwalls	196.5 days	Mon 4/1/13	Tue 10/1/13																					
157	Levees	196.5 days	Mon 4/1/13	Tue 10/1/13																					
158	General Construction Schedule	196.5 days	Mon 4/1/13	Tue 10/1/13																					
159	Season 1	196.5 days	Mon 4/1/13	Tue 10/1/13																					
160	Site Mobilization - Levees	18 days	Mon 4/1/13	Wed 4/17/13		161,218SS,219																			
161	Haul Roads & Drainage	6 days	Wed 4/17/13	Tue 4/23/13 160		162SS																			
162	SWPP Installation - Levees	8 days	Wed 4/17/13	Wed 4/24/13 161SS			full duration of levee constr																		
163	Clearing & Grubbing	3 days	Wed 5/1/13	Fri 5/3/13		164SS+2 days																			
164	Levee Stripping	12 days	Thu 5/2/13	Tue 5/14/13 163SS+2 days		173SS+2 days																			
165	Site Mobilization - Borrow Areas	18 days	Mon 4/1/13	Wed 4/17/13		166																			
166	Haul Roads & Drainage - Borrow Areas	6 days	Wed 4/17/13	Tue 4/23/13 165		167SS																			
167	SWPP Installation - Borrow Areas	2 days	Wed 4/17/13	Fri 4/19/13 166SS		168	full duration of borrow area use																		
168	Borrow Areas - Surface Layer Removal & Stockpile	10 days	Fri 4/19/13	Mon 4/29/13 167																					
169	Borrow Areas - Excavation & Hauling (to replace std depth CO Wall Waste)	34 days	Sat 5/4/13	Wed 6/5/13 173SS																					
170	Borrow Areas - Excavation & Hauling (to replace deep CO Wall Waste)	62 days	Wed 6/5/13	Fri 8/2/13 174SS																					
171	Borrow Areas - Excavation & Hauling	96 days	Fri 5/24/13	Wed 8/21/13 175SS			assumes 2 crews used																		
172	Site Mobilization - Slurry Wall	15 days	Wed 4/17/13	Wed 5/1/13 173SS-18 days																					
173	Slurry Wall Construction (depth 75' or more)	34 days	Sat 5/4/13	Wed 6/5/13 164SS+2 days	169SS,172SS-1 days,174,175SS days,200SS																				
174	Slurry Wall Construction (depth less than 75')	62 days	Wed 6/5/13	Fri 8/2/13 173	170SS,176,211 assumes 2 crews used days																				
175	Select/Levee Fill & Random Fill	96 days	Fri 5/24/13	Wed 8/21/13 173SS+21 days	171SS,179,177 assumes 2 crews used days																				
176	Demob - Slurry Wall	12 days	Fri 8/2/13	Tue 8/13/13 174																					
177	Maintenance Road - ABC	4 days	Thu 8/22/13	Mon 8/26/13 175FF+5 days	178																				
178	Revegetation/Hydroseed	16 days	Mon 8/26/13	Tue 9/10/13 177																					
179	Surface Layer Restoration - Borrow Areas	15 days	Wed 8/21/13	Wed 9/4/13 175	180																				

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
180	Demob - Borrow Areas	5 days	Wed 9/4/13	Mon 9/9/13 179	181																								
181	Site Cleanup/Finish Work - Borrow Areas	5 days	Mon 9/9/13	Fri 9/13/13 180	182																								
182	Weather Delays	6 days	Fri 9/13/13	Thu 9/19/13 181	183																								
183	Demob - Levee Areas	6 days	Thu 9/19/13	Wed 9/25/13 182	184																								
184	Site Cleanup/Finish Work - Levee Areas	6 days	Wed 9/25/13	Tue 10/1/13 183	218FF,219FF,2																								
185	Relocations	185.5 days	Mon 4/1/13	Fri 9/20/13																									
186	Utilities	185.5 days	Mon 4/1/13	Fri 9/20/13																									
187	Site Mobilization - for Util Relocations	15 days	Mon 4/1/13	Mon 4/15/13	188																								
188	Utility Poles	60 days	Mon 4/15/13	Mon 6/10/13 187		1/day																							
189	Elkhorn PP, Phase 2	100 days	Wed 5/1/13	Fri 8/2/13																									
190	Demo	5 days	Wed 5/1/13	Mon 5/6/13	191																								
191	Earthwork	8 days	Mon 5/6/13	Mon 5/13/13 190	193																								
192	Roads	4 days	Fri 7/26/13	Tue 7/30/13 197	195FF,198																								
193	Pipes	14 days	Mon 5/13/13	Sat 5/25/13 191	194SS																								
194	Positive Closure Vault	40 days	Mon 5/13/13	Wed 6/19/13 193SS	196																								
195	Pump Platform Rehab	20 days	Thu 7/11/13	Tue 7/30/13 192FF																									
196	Pumps & Motors	40 days	Wed 6/19/13	Fri 7/26/13 194	197FF																								
197	Power & Controls	30 days	Fri 6/28/13	Fri 7/26/13 196FF	192																								
198	Bank Stabilization	3 days	Tue 7/30/13	Fri 8/2/13 192																									
199	RD 1000, PP No 3	134 days	Sat 5/4/13	Fri 9/6/13		Sta ~676+00																							
200	Demo	35 days	Sat 5/4/13	Thu 6/6/13 173SS	201	expected to commence about 35 days before levee construction reaches this point																							
201	Earthwork	10 days	Thu 6/6/13	Sat 6/15/13 200	203																								
202	Roads	4 days	Thu 8/29/13	Mon 9/2/13 207	205FF,208																								
203	Pipes	20 days	Sat 6/15/13	Thu 7/4/13 201	204SS																								
204	Positive Closure & Flow Meter Vaults	40 days	Sat 6/15/13	Tue 7/23/13 203SS	206,209																								
205	Security Fence	2 days	Fri 8/30/13	Mon 9/2/13 202FF																									
206	Pumps & Motors	40 days	Tue 7/23/13	Thu 8/29/13 204	207FF																								
207	Power & Controls	30 days	Thu 8/1/13	Thu 8/29/13 206FF	202																								
208	Flap Gates	5 days	Mon 9/2/13	Fri 9/6/13 202	216																								
209	C-I-P Concrete Baffles	30 days	Tue 7/23/13	Tue 8/20/13 204																									
210	Riverside PP, Phase 1	37 days	Fri 6/28/13	Fri 8/2/13		Sta ~707+50																							

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AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
211	Demo	2 days	Fri 6/28/13	Mon 7/1/13	174SS+25 days	212FF	expected to commence about 5 days before levee construction reaches this point																			
212	Earthwork	2 days	Fri 6/28/13	Mon 7/1/13	211FF	213																				
213	Pipes	5 days	Mon 7/1/13	Fri 7/5/13	212	214SS																				
214	Flow Meter Vault	30 days	Mon 7/1/13	Mon 7/29/13	213SS	215																				
215	Bollards	5 days	Mon 7/29/13	Fri 8/2/13	214																					
216	Site Demobilization - for Util Relocations	15 days	Fri 9/6/13	Fri 9/20/13	208																					
217	Engineering during Construction, S&A and Construction Completion	195 days	Tue 4/2/13	Tue 10/1/13																						
218	Engineering During Construction	195 days	Tue 4/2/13	Tue 10/1/13	160SS,184FF																					
219	Supervision and Administration	195 days	Tue 4/2/13	Tue 10/1/13	160SS,184FF																					
220	Construction Completion	0 days	Tue 10/1/13	Tue 10/1/13	184FF	222																				
221	Inspection and Construction per Punch List	8.75 days	Tue 10/1/13	Wed 10/9/13																						
222	PreFinal Inspection	1.25 days	Tue 10/1/13	Wed 10/2/13	220	223																				
223	Contractor Implement Punch List Items	6.25 days	Wed 10/2/13	Tue 10/8/13	222	224																				
224	Final Inspection	1.25 days	Tue 10/8/13	Wed 10/9/13	223	225,227																				
225	Construction Physical Completion	0 days	Wed 10/9/13	Wed 10/9/13	224	228																				
226	Project Closeout	186 days	Wed 10/9/13	Tue 4/1/14																						
227	Construction Prepares Project Completion Letter	6.25 days	Wed 10/9/13	Tue 10/15/13	224																					
228	Contractors Complete As-Builts	28.75 days	Wed 10/9/13	Tue 11/5/13	225	229																				
229	Submit As-Builts	1.25 days	Tue 11/5/13	Wed 11/6/13	228	230																				
230	Notice of Completion/Assumption of OMRR&R	0 days	Wed 11/6/13	Wed 11/6/13	229																					
231	Project Fiscally Complete	0 days	Tue 4/1/14	Tue 4/1/14																						
232	Construction Contract 3 - Reach H	1010 days	Mon 10/1/12	Fri 5/1/15			Sta 0+00 to 237+00 - Work involves levee improvements and/or soil bentonite slurry wall.																			
233	Design	390 days	Mon 10/1/12	Mon 9/30/13																						
234	Collect field explorations	90 days	Mon 10/1/12	Mon 12/24/12		235																				
235	Conduct geotechnical evaluation	90 days	Mon 12/24/12	Mon 3/18/13	234	236																				
236	Develop Basis of Design Report	30 days	Mon 3/18/13	Mon 4/15/13	235	237																				
237	Develop Plans & Specifications	180 days	Mon 4/15/13	Mon 9/30/13	236	239																				
238	Pre-Construction	96.25 days	Tue 10/1/13	Mon 12/30/13																						
239	Project Bid	41.25 days	Tue 10/1/13	Fri 11/8/13	237	240																				
240	Award Task Order	8.75 days	Fri 11/8/13	Sat 11/16/13	239	241																				
241	Construction Contract Awarded	0 days	Sat 11/16/13	Sat 11/16/13	240	242FS+6.25 days																				
242	Issue NTP	0 days	Fri 11/22/13	Fri 11/22/13	241FS+6.25 days	243FS+1.25 days																				

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE										Fri 8/13/10															
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
243	NTP Acknowledged	0 days	Sat 11/23/13	Sat 11/23/13 242FS+1.25 days	244																				
244	Pre-Con Meeting	1.25 days	Sat 11/23/13	Mon 11/25/13 243		245																			
245	Prepare Pre-Construction Submittals	28.75 days	Mon 11/25/13	Sat 12/21/13 244		246SS																			
246	Corps Approve Pre-Construction Submittals	37.5 days	Mon 11/25/13	Mon 12/30/13 245SS																					
247	Construction	249.5 days	Tue 4/1/14	Wed 11/19/14																					
248	Levees & Floodwalls	198.75 days	Tue 4/1/14	Fri 10/3/14																					
249	Levees	198.75 days	Tue 4/1/14	Fri 10/3/14																					
250	Site Mobilization - Levees	18 days	Tue 4/1/14	Thu 4/17/14	251,299SS																				
251	Haul Roads & Drainage	6 days	Thu 4/17/14	Wed 4/23/14 250	252SS	maintain for full duration of levee constr																			
252	SWPP Installation - Levees	13 days	Thu 4/17/14	Tue 4/29/14 251SS		full duration of levee constr																			
253	Clearing & Grubbing	5 days	Thu 5/1/14	Tue 5/6/14	254SS+2 days, 282SS																				
254	Levee Stripping	16 days	Fri 5/2/14	Sat 5/17/14 253SS+2 days	255SS+2 days	2 crews																			
255	Levee Degrading	31 days	Mon 5/5/14	Tue 6/3/14 254SS+2 days	262SS+2 days	2 crews																			
256	Site Mobilization - Borrow Areas	18 days	Thu 5/1/14	Sat 5/17/14	257																				
257	Haul Roads & Drainage - Borrow Areas	5 days	Sat 5/17/14	Thu 5/22/14 256	258SS	full duration of borrow area use																			
258	SWPP Installation - Borrow Areas	2 days	Sat 5/17/14	Tue 5/20/14 257SS		full duration of borrow area use																			
259	Surface Layer Removal & Stockpile - Borrow Areas	5 days	Tue 7/1/14	Sat 7/5/14 260SS-2 days		0.66 AC/hr, 4 scrapers																			
260	Excavation & Hauling - Borrow Areas	70 days	Thu 7/3/14	Sat 9/6/14 264SS	259SS-2 days																				
261	Site Mobilization - Slurry Wall	18 days	Sat 4/19/14	Tue 5/6/14 262SS-18 days	265SS+12 days																				
262	Slurry Wall Construction	90 days	Tue 5/6/14	Tue 7/29/14 255SS+2 days	261SS-18 days, 303SS, 260SS, 263SS+12 days	2 rigs/crews																			
263	Embankment Fill, from Levee Degrading	50 days	Sat 5/17/14	Thu 7/3/14 262SS+12 days	264	2 crews																			
264	Embankment Fill, from Borrow	70 days	Thu 7/3/14	Sat 9/6/14 263	260SS, 271, 269	2 crews																			
265	Site Mobilization - Jet Grouting	18 days	Thu 5/1/14	Sat 5/17/14 261SS+12 days																					
266	Jet Grouting Construction	60 days	Sat 5/17/14	Sat 7/12/14 262SS+12 days	267, 307SS+12 days, 315SS+55 days, 316SS+55 days	assume start about 2 weeks after slurry wall																			
267	Demob - Jet Grouting	12 days	Sat 7/12/14	Thu 7/24/14 266																					
268	Demob - Slurry Wall	12 days	Tue 7/29/14	Sat 8/9/14 262																					
269	Bike Trail (at Levee Crown)	10 days	Sat 9/6/14	Tue 9/16/14 264	274, 270FF+6 days																				
270	Revegetation/Hydroseed	18 days	Thu 9/4/14	Mon 9/22/14 269FF+6 days		3.72 AC/day																			
271	Surface Layer Restoration - Borrow Areas	5 days	Sat 9/6/14	Thu 9/11/14 264	272																				
272	Demob - Borrow Areas	6 days	Thu 9/11/14	Wed 9/17/14 271	273																				

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
273	Site Cleanup/Finish Work - Borrow Areas	6 days	Wed 9/17/14	Tue 9/23/14 272																									
274	Weather Delays	6.25 days	Tue 9/16/14	Mon 9/22/14 269	275																								
275	Demob - Levee Areas	6 days	Mon 9/22/14	Sat 9/27/14 274	276																								
276	Site Cleanup/Finish Work - Levee Areas	6 days	Sat 9/27/14	Fri 10/3/14 275	334FF																								
277	Relocations	249.5 days	Tue 4/1/14	Wed 11/19/14																									
278	Roads, Construction Activities	249.5 days	Tue 4/1/14	Wed 11/19/14																									
279	Site Mobilization - for Rd Relocations	15 days	Tue 4/1/14	Tue 4/15/14																									
280	Paving Demo	34 days	Thu 5/1/14	Mon 6/2/14																									
281	Demolition	34 days	Thu 5/1/14	Mon 6/2/14																									
282	Arden-Garden Connector	8 days	Thu 5/1/14	Thu 5/8/14 253SS	283																								
283	Bike Trail at Levee Crown	23 days	Thu 5/8/14	Thu 5/29/14 282	284																								
284	East Levee Road	3 days	Thu 5/29/14	Mon 6/2/14 283	287FF																								
285	Dead End Roads	5 days	Thu 5/1/14	Tue 5/6/14	286	about 2 days each but will be done as levee improvement passes thru area																							
286	Natoma Street	2 days	Tue 5/6/14	Wed 5/7/14 285		will be done as levee improvement passes thru area																							
287	Northgate Blvd	6 days	Tue 5/27/14	Mon 6/2/14 284FF		will be done as levee improvement passes thru area																							
288	Road Surfacing	64 days	Sat 9/6/14	Wed 11/5/14																									
289	Site Work	64 days	Sat 9/6/14	Wed 11/5/14																									
290	Arden-Garden Connector	40 days	Sat 9/6/14	Tue 10/14/14 264	291																								
291	Bike Trail at Levee Crown	12 days	Tue 10/14/14	Sat 10/25/14 290	292																								
292	East Levee Road	12 days	Sat 10/25/14	Wed 11/5/14 291	296																								
293	Dead End Roads	10 days	Sat 9/6/14	Tue 9/16/14 264		about 2 days each but will be done as levee improvement passes thru area																							
294	Natoma Street	5 days	Sat 9/6/14	Thu 9/11/14 264		will be done as levee improvement passes thru area																							
295	Northgate Blvd	15 days	Sat 9/6/14	Sat 9/20/14 264		will be done as levee improvement passes thru area																							
296	Site Demobilization - for Rd Relocations	15 days	Wed 11/5/14	Wed 11/19/14 292	336FF,337FF																								
297	Cemeteries, Utils, Structures	241.5 days	Tue 4/1/14	Wed 11/12/14																									
298	Utils	241.5 days	Tue 4/1/14	Wed 11/12/14																									
299	Site Mobilization - for Util Relocations	18 days	Tue 4/1/14	Thu 4/17/14 250SS	301																								
300	Electrical	56 days	Thu 4/17/14	Mon 6/9/14																									
301	Utility Poles	56 days	Thu 4/17/14	Mon 6/9/14 299		1/day																							
302	Utility Crossing Relocations	45 days	Tue 5/6/14	Tue 6/17/14																									
303	6" Gas Main	30 days	Tue 5/6/14	Tue 6/3/14 262SS	304SS,305SS																								

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE										Fri 8/13/10															
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
304	8" Water Main	30 days	Tue 5/6/14	Tue 6/3/14	303SS																				
305	Fiber Optic Line	45 days	Tue 5/6/14	Tue 6/17/14	303SS																				
306	PP - Sump 102	77 days	Thu 5/29/14	Fri 8/8/14			Sta ~59+80																		
307	Demo	8 days	Thu 5/29/14	Thu 6/5/14	266SS+12 days	308	expected to commence about 10 days before levee construction reaches this point																		
308	Earthwork	5 days	Thu 6/5/14	Tue 6/10/14	307	310																			
309	Roads	4 days	Tue 8/5/14	Fri 8/8/14	313																				
310	Pipes	8 days	Tue 6/10/14	Tue 6/17/14	308	311SS																			
311	Positive Closure Vault	30 days	Tue 6/10/14	Tue 7/8/14	310SS	312																			
312	Pumps & Motors	30 days	Tue 7/8/14	Tue 8/5/14	311	313FF																			
313	Power & Controls	30 days	Tue 7/8/14	Tue 8/5/14	312FF	309																			
314	RD 1000, PP No 8	124 days	Tue 7/8/14	Fri 10/31/14			Sta ~178+00																		
315	Temporary Fencing	5 days	Tue 7/8/14	Sat 7/12/14	266SS+55 days		expected to commence about 10 days before levee construction reaches this point																		
316	Asphalt Removal	1 day	Tue 7/8/14	Wed 7/9/14	266SS+55 days	328SS																			
317	Excavate, Fill & Compact	5 days	Sat 7/26/14	Thu 7/31/14	328	318																			
318	Remove Existing WSP	1 day	Thu 7/31/14	Fri 8/1/14	317	319																			
319	Positive Closure Vault	60 days	Fri 8/1/14	Fri 9/26/14	318	320,322																			
320	Closure Valve, 54-IN	3 days	Fri 9/26/14	Mon 9/29/14	319	321																			
321	Dismantling Joint, 54-IN	2 days	Mon 9/29/14	Wed 10/1/14	320																				
322	Closure Valve, 36-IN	3 days	Fri 9/26/14	Mon 9/29/14	319	323																			
323	Dismantling Joint, 36-IN	2 days	Mon 9/29/14	Wed 10/1/14	322	324																			
324	Siphon Breakers	2 days	Wed 10/1/14	Thu 10/2/14	323	325																			
325	Backfill	1 day	Thu 10/2/14	Fri 10/3/14	324	326,327																			
326	ABC	1 day	Fri 10/3/14	Sat 10/4/14	325																				
327	Electrical Control Equipment	30 days	Fri 10/3/14	Fri 10/31/14	325	329																			
328	Locate & Relocate Utils prior to excavation	20 days	Tue 7/8/14	Sat 7/26/14	316SS	317																			
329	Site Demobilization - for Util Relocations	12 days	Fri 10/31/14	Wed 11/12/14	327																				
330	Fish & Wildlife Facilities	150 days	Fri 5/16/14	Fri 10/3/14																					
331	Wildlife Facilities & Sanctuaries	150 days	Fri 5/16/14	Fri 10/3/14																					
332	Dry Creek	150 days	Fri 5/16/14	Fri 10/3/14																					
333	Woodland Corridor & Enhancement	150 days	Fri 5/16/14	Fri 10/3/14																					
334	Mob, Prep Work, Planting & Irrigation, Demob	150 days	Fri 5/16/14	Fri 10/3/14	276FF		sans O&M																		

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AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
335	Engineering during Construction, S&A and Construction Completion	249 days	Tue 4/1/14	Wed 11/19/14																						
336	Engineering During Construction	249 days	Tue 4/1/14	Wed 11/19/14	296FF																					
337	Supervision and Administration	249 days	Tue 4/1/14	Wed 11/19/14	296FF	338FF																				
338	Construction Completion	0 days	Wed 11/19/14	Wed 11/19/14	337FF	340																				
339	Inspection and Construction per Punch List	8.75 days	Wed 11/19/14	Thu 11/27/14																						
340	PreFinal Inspection	1.25 days	Wed 11/19/14	Thu 11/20/14	338	341																				
341	Contractor Implement Punch List Items	6.25 days	Thu 11/20/14	Wed 11/26/14	340	342																				
342	Final Inspection	1.25 days	Wed 11/26/14	Thu 11/27/14	341	343,345																				
343	Construction Physical Completion	0 days	Thu 11/27/14	Thu 11/27/14	342	346																				
344	Project Closeout	165.5 days	Thu 11/27/14	Fri 5/1/15																						
345	Construction Prepares Project Completion Letter	6.25 days	Thu 11/27/14	Wed 12/3/14	342																					
346	Contractors Complete As-Builts	28.75 days	Thu 11/27/14	Wed 12/24/14	343	347																				
347	Submit As-Builts	1.25 days	Wed 12/24/14	Thu 12/25/14	346	348																				
348	Notice of Completion/Assumption of OMRR&R	0 days	Thu 12/25/14	Thu 12/25/14	347																					
349	Project Fiscally Complete	0 days	Fri 5/1/15	Fri 5/1/15																						
350	Construction Contract 4- Reach I	976.25 days	Mon 10/3/11	Tue 4/1/14																						
351	Design	390 days	Mon 10/3/11	Mon 10/1/12																						
352	Collect field explorations	90 days	Mon 10/3/11	Mon 12/26/11		353																				
353	Conduct geotechnical evaluation	90 days	Mon 12/26/11	Mon 3/19/12	352	354																				
354	Develop Basis of Design Report	30 days	Mon 3/19/12	Mon 4/16/12	353	355																				
355	Develop Plans & Specifications	180 days	Mon 4/16/12	Mon 10/1/12	354																					
356	Pre-Construction	96.25 days	Mon 10/1/12	Sat 12/29/12																						
357	Project Bid	41.25 days	Mon 10/1/12	Thu 11/8/12		358																				
358	Award Task Order	8.75 days	Thu 11/8/12	Fri 11/16/12	357	359																				
359	Construction Contract Awarded	0 days	Fri 11/16/12	Fri 11/16/12	358	360FS+6.25 days																				
360	Issue NTP	0 days	Thu 11/22/12	Thu 11/22/12	359FS+6.25 days	361FS+1.25 days																				
361	NTP Acknowledged	0 days	Fri 11/23/12	Fri 11/23/12	362	362																				
362	Pre-Con Meeting	1.25 days	Fri 11/23/12	Sat 11/24/12	361	363																				
363	Prepare Pre-Construction Submittals	28.75 days	Sat 11/24/12	Fri 12/21/12	362	364SS																				
364	Corps Approve Pre-Construction Submittals	37.5 days	Sat 11/24/12	Sat 12/29/12	363SS																					
365	Construction	188 days	Mon 4/1/13	Mon 9/23/13																						
366	Levees & Floodwalls	188 days	Mon 4/1/13	Mon 9/23/13	419FF,420FF																					
367	Levees	188 days	Mon 4/1/13	Mon 9/23/13																						

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
368	Site Mobilization - Levees	15 days	Mon 4/1/13	Mon 4/15/13		369,402SS																							
369	Haul Roads & Drainage	3.75 days	Mon 4/15/13	Thu 4/18/13	368	370SS																							
370	Care & Diversion of Water - Erosion Control - SWPC	1.25 days	Fri 9/6/13	Sat 9/7/13	369SS,392FF		full duration of levee constr																						
371	Clearing & Grubbing	5 days	Wed 5/1/13	Mon 5/6/13		372SS+2.5 days																							
372	Levee Stripping	8.75 days	Fri 5/3/13	Sat 5/11/13	371SS+2.5 days	373SS+2.5 days																							
373	Levee Degrading	42.5 days	Mon 5/6/13	Fri 6/14/13	372SS+2.5 days	374SS,381SS+1 days																							
374	Temporary Fill, Placement	42.5 days	Mon 5/6/13	Fri 6/14/13	373SS																								
375	Site Mobilization - Borrow Areas	15 days	Tue 5/21/13	Tue 6/4/13	380SS+25 days	376																							
376	Haul Roads & Drainage - Borrow Areas	3.75 days	Tue 6/4/13	Fri 6/7/13	375	377SS																							
377	Care & Diversion of Water - Erosion Control - SWPC - Borrow Areas	1.25 days	Sat 9/21/13	Mon 9/23/13	376SS,391FF		full duration of borrow area use																						
378	Surface Layer Removal & Stockpile - Borrow Areas	5 days	Tue 7/30/13	Sat 8/3/13	379SS-2.5 days																								
379	Excavation & Hauling - Borrow Areas	35 days	Thu 8/1/13	Tue 9/3/13	383SS	378SS-2.5 days																							
380	Site Mobilization - Slurry Wall	15 days	Sat 4/27/13	Sat 5/11/13	381SS-15 days	375SS+25 days																							
381	Slurry Wall Construction	67 days	Sat 5/11/13	Fri 7/12/13	373SS+6.25 days	380SS-15 days,406SS,382 days,383FF+12																							
382	Embankment Fill, from Levee Degrading	46.25 days	Wed 6/19/13	Thu 8/1/13	381FF+21 days	383,386FF,387, days																							
383	Emankment Fill, from Borrow	35 days	Thu 8/1/13	Tue 9/3/13	381FF+12.5 days,382	379SS,384,385																							
384	Demob - Slurry Wall	15 days	Tue 9/3/13	Tue 9/17/13	383																								
385	Temporary Fill, Removal	15 days	Tue 8/20/13	Tue 9/3/13	383FF	388,392																							
386	Maintenance Road - ABC	12.5 days	Sat 7/20/13	Thu 8/1/13	382FF																								
387	Revegetation/Hydroseed	8.75 days	Thu 8/1/13	Fri 8/9/13	382																								
388	Surface Layer Restoration - Borrow Areas	5 days	Tue 9/3/13	Sat 9/7/13	385	389																							
389	Weather Delays	6.25 days	Sat 9/7/13	Fri 9/13/13	388	390																							
390	Demob - Borrow Areas	5 days	Fri 9/13/13	Wed 9/18/13	389	391																							
391	Site Cleanup/Finish Work - Borrow Areas	5 days	Wed 9/18/13	Mon 9/23/13	390	377FF																							
392	Demob - Levee Areas	5 days	Tue 9/3/13	Sat 9/7/13	385	370FF,393																							
393	Site Cleanup/Finish Work - Levee Areas	5 days	Sat 9/7/13	Thu 9/12/13	392																								
394	Relocations	165.75 days	Mon 4/1/13	Mon 9/2/13																									
395	Roads, Construction Activities	149.25 days	Mon 4/1/13	Sat 8/17/13																									
396	Site Mobilization - for Rd Relocations	15 days	Mon 4/1/13	Mon 4/15/13		397																							
397	Demo Pavement	20 days	Mon 4/15/13	Fri 5/3/13	396																								

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
398	AC Pavement	10 days	Thu 7/25/13	Sat 8/3/13	382FF+2.5 days	399																							
399	Site Demobilization - for Rd Relocations	15 days	Sat 8/3/13	Sat 8/17/13	398																								
400	Cemeteries, Utils, Structures	165.75 days	Mon 4/1/13	Mon 9/2/13																									
401	Utils	165.75 days	Mon 4/1/13	Mon 9/2/13																									
402	Site Mobilization - for Util Relocations	15 days	Mon 4/1/13	Mon 4/15/13	368SS	404																							
403	Electrical	40 days	Mon 4/15/13	Wed 5/22/13																									
404	Utility Poles	40 days	Mon 4/15/13	Wed 5/22/13	402		1/day																						
405	Utility Crossing Relocations	45 days	Sat 5/11/13	Sat 6/22/13																									
406	Mechanical	45 days	Sat 5/11/13	Sat 6/22/13	381SS	407SS																							
407	Electrical	45 days	Sat 5/11/13	Sat 6/22/13	406SS																								
408	Pump Station Rehab	87 days	Thu 5/30/13	Mon 8/19/13																									
409	PP - Sump 58	87 days	Thu 5/30/13	Mon 8/19/13			Sta ~70+00																						
410	Demo	12 days	Thu 5/30/13	Mon 6/10/13	381SS+20 days	411	expected to commence about 15 days before levee construction reaches this point																						
411	Earthwork	6 days	Mon 6/10/13	Sat 6/15/13	410	413																							
412	Roads	4 days	Thu 8/15/13	Mon 8/19/13	416	417																							
413	Pipes	5 days	Sat 6/15/13	Thu 6/20/13	411	414																							
414	Positive Closure Vault	30 days	Thu 6/20/13	Thu 7/18/13	413	415																							
415	Pumps & Motors	30 days	Thu 7/18/13	Thu 8/15/13	414	416FF																							
416	Power & Controls	30 days	Thu 7/18/13	Thu 8/15/13	415FF	412																							
417	Site Demobilization - for Util Relocations	15 days	Mon 8/19/13	Mon 9/2/13	412																								
418	Engineering during Construction, S&A and Construction Completion	188 days	Mon 4/1/13	Mon 9/23/13																									
419	Engineering During Construction	188 days	Mon 4/1/13	Mon 9/23/13	366FF																								
420	Supervision and Administration	188 days	Mon 4/1/13	Mon 9/23/13	366FF	421FF																							
421	Construction Completion	0 days	Mon 9/23/13	Mon 9/23/13	420FF	423																							
422	Inspection and Construction per Punch List	8.75 days	Mon 9/23/13	Tue 10/1/13																									
423	PreFinal Inspection	1.25 days	Mon 9/23/13	Tue 9/24/13	421	424																							
424	Contractor Implement Punch List Items	6.25 days	Tue 9/24/13	Mon 9/30/13	423	425																							
425	Final Inspection	1.25 days	Mon 9/30/13	Tue 10/1/13	424	426,428																							
426	Construction Physical Completion	0 days	Tue 10/1/13	Tue 10/1/13	425	429																							
427	Project Closeout	194.5 days	Tue 10/1/13	Tue 4/1/14																									
428	Construction Prepares Project Completion Letter	6.25 days	Tue 10/1/13	Mon 10/7/13	425																								

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AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2																
429	Contractors Complete As-Builts	28.75 days	Tue 10/1/13	Mon 10/28/13 426	430																				
430	Submit As-Builts	1.25 days	Mon 10/28/13	Tue 10/29/13 429	431																				
431	Notice of Completion/Assumption of OMRR&R	0 days	Tue 10/29/13	Tue 10/29/13 430																					
432	Project Fiscally Complete	0 days	Tue 4/1/14	Tue 4/1/14																					
433	Construction Contract 5 - Reach E	848.5 days	Tue 10/1/13	Tue 12/1/15			Sta 287+37 to 461+31 - Howsley Road to Sankey Road - Work involves levee improvements and/or																		
434	Design	390 days	Tue 10/1/13	Tue 9/30/14																					
435	Collect field explorations	90 days	Tue 10/1/13	Tue 12/24/13	436																				
436	Conduct geotechnical evaluation	90 days	Tue 12/24/13	Tue 3/18/14 435	437																				
437	Develop Basis of Design Report	30 days	Tue 3/18/14	Tue 4/15/14 436	438																				
438	Develop Plans & Specifications	180 days	Tue 4/15/14	Tue 9/30/14 437																					
439	Pre-Construction	96.25 days	Wed 10/1/14	Tue 12/30/14																					
440	Project Bid	41.25 days	Wed 10/1/14	Sat 11/8/14	441																				
441	Award Task Order	8.75 days	Sat 11/8/14	Mon 11/17/14 440	442																				
442	Construction Contract Awarded	0 days	Mon 11/17/14	Mon 11/17/14 441	443	443FS+6.25 days																			
443	Issue NTP	0 days	Sat 11/22/14	Sat 11/22/14 442FS+6.25 days	444	444FS+1.25 days																			
444	NTP Acknowledged	0 days	Mon 11/24/14	Mon 11/24/14 443FS+1.25 days	445																				
445	Pre-Con Meeting	1.25 days	Mon 11/24/14	Tue 11/25/14 444	446																				
446	Prepare Pre-Construction Submittals	28.75 days	Tue 11/25/14	Mon 12/22/14 445	447SS																				
447	Corps Approve Pre-Constructon Submittals	37.5 days	Tue 11/25/14	Tue 12/30/14 446SS																					
448	Construction	223.5 days	Wed 4/1/15	Mon 10/26/15																					
449	Levees & Floodwalls	185.75 days	Wed 4/1/15	Mon 9/21/15																					
450	Levees	185.75 days	Wed 4/1/15	Mon 9/21/15																					
451	Site Mobilization - Levees	18 days	Wed 4/1/15	Fri 4/17/15	452,484SS																				
452	Haul Roads & Drainage	6 days	Fri 4/17/15	Thu 4/23/15 451	453SS																				
453	SWPP Installation - Levees	12 days	Tue 8/18/15	Sat 8/29/15 452SS,474FF		full duration of levee constr																			
454	Clearing & Grubbing (also tree removal)	18 days	Fri 5/1/15	Mon 5/18/15	455SS+2 days																				
455	Levee Stripping	18 days	Sat 5/2/15	Wed 5/20/15 454SS+2 days	464SS+2 days,456SS+2																				
456	Levee Degrading	15 days	Tue 5/5/15	Tue 5/19/15 455SS+2 days																					
457	Site Mobilization - Borrow Areas	15 days	Wed 4/29/15	Wed 5/13/15 463SS+12 days	458																				
458	Haul Roads & Drainage - Borrow Areas	5 days	Wed 5/13/15	Mon 5/18/15 457	459																				
459	SWPP Installation - Borrow Areas	2 days	Mon 5/18/15	Wed 5/20/15 458	460	full duration of borrow area use																			
460	Surface Layer Removal & Stockpile - Borrow Areas	26 days	Wed 5/20/15	Fri 6/12/15 459		double crews																			

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
461	Excavation & Hauling - Borrow Areas	48 days	Wed 6/24/15	Fri 8/7/15 464FF+21 days			double crews																						
462	Vinyl Sheet Pile	80 days	Mon 5/25/15	Fri 8/7/15 465FF																									
463	Site Mobilization - Slurry Wall	18 days	Fri 4/17/15	Tue 5/5/15 464SS-18 days	457SS+12 days																								
464	Slurry Wall Construction	81 days	Tue 5/5/15	Mon 7/20/15 455SS+2 days	461FF+21 days, 463SS-18 days, 465FF+21		double rig/crews																						
465	Embankment Fill, from Borrow	54 days	Thu 6/18/15	Fri 8/7/15 464FF+21 days	462FF, 470FF+2 days, 466, 468FF		double crews																						
466	Demob - Slurry Wall	12 days	Fri 8/7/15	Wed 8/19/15 465																									
467	Quarry Stone	40 days	Wed 7/1/15	Fri 8/7/15 465FF																									
468	Maintenance Road - ABC	22 days	Sat 7/18/15	Fri 8/7/15 465FF																									
469	Revegetation/Hydroseed	18 days	Fri 8/7/15	Tue 8/25/15 465	474																								
470	Surface Layer Restoration - Borrow Areas	26 days	Fri 8/7/15	Mon 8/31/15 465FF+25 days	471		double crews																						
471	Weather Delays	6.25 days	Mon 8/31/15	Sat 9/5/15 470	472																								
472	Demob - Borrow Areas	6 days	Sat 9/5/15	Fri 9/11/15 471	473																								
473	Site Cleanup/Finish Work - Borrow Areas	10 days	Fri 9/11/15	Mon 9/21/15 472																									
474	Demob - Levee Areas	5 days	Tue 8/25/15	Sat 8/29/15 469	453FF, 475																								
475	Site Cleanup/Finish Work - Levee Areas	5 days	Sat 8/29/15	Thu 9/3/15 474																									
476	Relocations	223.5 days	Wed 4/1/15	Mon 10/26/15	500FF, 501FF																								
477	Roads, Construction Activities	223.5 days	Wed 4/1/15	Mon 10/26/15																									
478	Roads	223.5 days	Wed 4/1/15	Mon 10/26/15																									
479	Site Mobilization - for Rd Relocations	18 days	Wed 4/1/15	Fri 4/17/15																									
480	Natomas Rd	73 days	Fri 8/7/15	Thu 10/15/15 465	482																								
481	Access Road (at berm adjacent to canal relocation)	25 days	Fri 8/7/15	Mon 8/31/15 465																									
482	Site Demobilization - for Rd Relocations	12 days	Thu 10/15/15	Mon 10/26/15 480																									
483	Utils	197.5 days	Wed 4/1/15	Fri 10/2/15																									
484	Site Mobilization - for Util Relocations	15 days	Wed 4/1/15	Wed 4/15/15 451SS	486, 496																								
485	Electrical	35 days	Wed 4/15/15	Mon 5/18/15																									
486	Utility Poles	35 days	Wed 4/15/15	Mon 5/18/15 484	1/day																								
487	Utility Crossing Relocations	42.5 days	Tue 5/5/15	Sat 6/13/15																									
488	Culverts	32.5 days	Tue 5/5/15	Thu 6/4/15 464SS	489																								
489	12" Discharge Pipe	10 days	Thu 6/4/15	Sat 6/13/15 488																									
490	Private Irrigation Relocations	150 days	Fri 5/1/15	Fri 9/18/15																									

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																					
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018						
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2			
491	Brookfield	90 days	Fri 5/1/15	Fri 7/24/15		492,493SS																								
492	Linn	30 days	Fri 7/24/15	Fri 8/21/15	491																									
493	Odysseus	120 days	Fri 5/1/15	Fri 8/21/15	491SS	494																								
494	Kaufman	30 days	Fri 8/21/15	Fri 9/18/15	493	498																								
495	Canal Relocations	15 days	Wed 4/15/15	Wed 4/29/15																										
496	Drainage Canal Relocations	10 days	Wed 4/15/15	Fri 4/24/15	484	497																								
497	Irrigation Canal Relocations	5 days	Fri 4/24/15	Wed 4/29/15	496																									
498	Site Demobilization - for Util Relocations	15 days	Fri 9/18/15	Fri 10/2/15	494																									
499	Engineering during Construction, S&A and Construction Completion	223 days	Wed 4/1/15	Mon 10/26/15																										
500	Engineering During Construction	223 days	Wed 4/1/15	Mon 10/26/15	476FF																									
501	Supervision and Administration	223 days	Wed 4/1/15	Mon 10/26/15	476FF	502FF																								
502	Construction Completion	0 days	Mon 10/26/15	Mon 10/26/15	501FF	504																								
503	Inspection and Construction per Punch List	8.75 days	Mon 10/26/15	Tue 11/3/15																										
504	PreFinal Inspection	1.25 days	Mon 10/26/15	Tue 10/27/15	502	505																								
505	Contractor Implement Punch List Items	6.25 days	Tue 10/27/15	Mon 11/2/15	504	506																								
506	Final Inspection	1.25 days	Mon 11/2/15	Tue 11/3/15	505	507,509																								
507	Construction Physical Completion	0 days	Tue 11/3/15	Tue 11/3/15	506	510																								
508	Project Closeout	262.25 days	Wed 4/1/15	Tue 12/1/15																										
509	Construction Prepares Project Completion Letter	6.25 days	Tue 11/3/15	Mon 11/9/15	506																									
510	Contractors Complete As-Builts	28.75 days	Tue 11/3/15	Mon 11/30/15	507	511																								
511	Submit As-Builts	1.25 days	Mon 11/30/15	Tue 12/1/15	510	512																								
512	Notice of Completion/Assumption of OMRR&R	0 days	Tue 12/1/15	Tue 12/1/15	511																									
513	Project Fiscally Complete	0 days	Wed 4/1/15	Wed 4/1/15																										
514	Construction Contract 6 Reach F	977.5 days	Mon 10/1/12	Wed 4/1/15																										
515	Design	390 days	Mon 10/1/12	Mon 9/30/13																										
516	Collect field explorations	90 days	Mon 10/1/12	Mon 12/24/12		517																								
517	Conduct geotechnical evaluation	90 days	Mon 12/24/12	Mon 3/18/13	516	518																								
518	Develop Basis of Design Report	30 days	Mon 3/18/13	Mon 4/15/13	517	519																								
519	Develop Plans & Specifications	180 days	Mon 4/15/13	Mon 9/30/13	518																									
520	Pre-Construction	96.25 days	Tue 10/1/13	Mon 12/30/13																										
521	Project Bid	41.25 days	Tue 10/1/13	Fri 11/8/13		522																								
522	Award Task Order	8.75 days	Fri 11/8/13	Sat 11/16/13	521	523																								

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																			
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018				
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
523	Construction Contract Awarded	0 days	Sat 11/16/13	Sat 11/16/13 522	524FS+6.25 days																							
524	Issue NTP	0 days	Fri 11/22/13	Fri 11/22/13 523FS+6.25 days	525FS+1.25 days																							
525	NTP Acknowledged	0 days	Sat 11/23/13	Sat 11/23/13 524FS+1.25 days	526																							
526	Pre-Con Meeting	1.25 days	Sat 11/23/13	Mon 11/25/13 525	527																							
527	Prepare Pre-Construction Submittals	28.75 days	Mon 11/25/13	Sat 12/21/13 526	528SS																							
528	Corps Approve Pre-Construction Submittals	37.5 days	Mon 11/25/13	Mon 12/30/13 527SS																								
529	Construction	215 days	Fri 3/14/14	Wed 10/1/14																								
530	Levees & Floodwalls	197 days	Tue 4/1/14	Wed 10/1/14	586FF, 587FF																							
531	Levees	197 days	Tue 4/1/14	Wed 10/1/14																								
532	Site Mobilization - Levees - 1	15 days	Tue 4/1/14	Tue 4/15/14	533, 535, 536																							
533	Haul Roads & Drainage	3.75 days	Tue 4/15/14	Fri 4/18/14 532	534																							
534	Care & Diversion of Water - Erosion Control - SWPC	1.25 days	Fri 9/19/14	Sat 9/20/14 533, 554FF		full duration of levee constr																						
535	Demo, Commercial Building	40 days	Tue 4/15/14	Thu 5/22/14 532																								
536	Demo, Homes	25 days	Tue 4/15/14	Thu 5/8/14 532																								
537	Clearing & Grubbing, Levee Stripping (plus tree removal)	21 days	Thu 5/1/14	Tue 5/20/14	538SS+2.5 days																							
538	Levee Degrading	30 days	Sat 5/3/14	Sat 5/31/14 537SS+2.5 days	544SS+2.5 days, 545SS+6.1																							
539	Site Mobilization - Borrow Areas	15 days	Thu 5/1/14	Thu 5/15/14	540																							
540	Haul Roads & Drainage - Borrow Areas	5 days	Thu 5/15/14	Tue 5/20/14 539	541SS																							
541	Care & Diversion of Water - Erosion Control - SWPC - Borrow Areas	1.25 days	Tue 9/30/14	Wed 10/1/14 540SS, 553FF		full duration of borrow area use																						
542	Surface Layer Removal & Stockpile - Borrow Areas	35 days	Wed 6/11/14	Mon 7/14/14 545FF-6.25 days	543SS+2.5 days	double crews																						
543	Excavation & Hauling - Borrow Areas	105 days	Fri 6/13/14	Fri 9/19/14 542SS+2.5 days		double crews																						
544	Site Mobilization - Slurry Wall - Season 1	15 days	Tue 5/6/14	Tue 5/20/14 538SS+2.5 days																								
545	Slurry Wall Construction	76.5 days	Fri 5/9/14	Sat 7/19/14 538SS+6.25 days	542FF-6.25 days, 546FF+39 days	double crews																						
546	Emankment Fill, from Borrow	109 days	Thu 5/15/14	Mon 8/25/14 545FF+39 days	550FF+25 days, 547, 549, 5	double crews																						
547	Demob - Slurry Wall - Season 1	15 days	Mon 8/25/14	Mon 9/8/14 546																								
548	Maintenance Road - ABC	15 days	Sat 8/16/14	Sat 8/30/14 546FF+6.25 days																								
549	Revegetation/Hydroseed	24 days	Mon 8/25/14	Tue 9/16/14 546	551, 554																							
550	Surface Layer Restoration - Borrow Areas - Season 1	35 days	Fri 8/15/14	Wed 9/17/14 546FF+25 days		double crews																						
551	Weather Delays	6.25 days	Tue 9/16/14	Mon 9/22/14 549	552																							
552	Demob - Borrow Areas	5 days	Mon 9/22/14	Fri 9/26/14 551	553																							

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
553	Site Cleanup/Finish Work - Borrow Areas	5 days	Fri 9/26/14	Wed 10/1/14 552	541FF																								
554	Demob - Levee Areas	5 days	Tue 9/16/14	Sat 9/20/14 549	534FF,555																								
555	Site Cleanup/Finish Work - Levee Areas	5 days	Sat 9/20/14	Thu 9/25/14 554																									
556	Relocations	187.5 days	Tue 4/1/14	Tue 9/23/14																									
557	Roads, Construction Activities	160 days	Tue 4/1/14	Thu 8/28/14																									
558	Site Mobilization - for Rd Relocations	15 days	Tue 4/1/14	Tue 4/15/14	561																								
559	Road Surfacing	130 days	Tue 4/15/14	Thu 8/14/14																									
560	Site Work	130 days	Tue 4/15/14	Thu 8/14/14																									
561	Private Driveways	50 days	Tue 4/15/14	Sat 5/31/14 558	562																								
562	Natomas Road	80 days	Sat 5/31/14	Thu 8/14/14 561	564																								
563	Access Road (at berm adjacent to canal relocation)	25 days	Fri 5/23/14	Mon 6/16/14 577																									
564	Site Demobilization - for Rd Relocations	15 days	Thu 8/14/14	Thu 8/28/14 562																									
565	Cemeteries, Utils, Structures	187.5 days	Tue 4/1/14	Tue 9/23/14																									
566	Utils	187.5 days	Tue 4/1/14	Tue 9/23/14																									
567	Site Mobilization - for Util Relocations	15 days	Tue 4/1/14	Tue 4/15/14	569																								
568	Electrical	68 days	Tue 4/15/14	Tue 6/17/14																									
569	Utility Poles	68 days	Tue 4/15/14	Tue 6/17/14 567	584	1/day																							
570	Utility Crossing Relocations	150 days	Thu 5/1/14	Thu 9/18/14																									
571	Schiedel	30 days	Thu 5/1/14	Thu 5/29/14	572																								
572	De Wit	30 days	Thu 5/29/14	Thu 6/26/14 571	573																								
573	Calif Sunshine Fisheries	30 days	Thu 6/26/14	Thu 7/24/14 572	574																								
574	Odysseus	30 days	Thu 7/24/14	Thu 8/21/14 573	575																								
575	Family Real Properties	30 days	Thu 8/21/14	Thu 9/18/14 574	584																								
576	Canal Relocations	24 days	Thu 5/1/14	Fri 5/23/14																									
577	Reiego Rd Canal Relocations	24 days	Thu 5/1/14	Fri 5/23/14	563																								
578	Stripping	2 days	Thu 5/1/14	Fri 5/2/14	580																								
579	Compacted Embankment	7 days	Thu 5/15/14	Wed 5/21/14 583	582																								
580	Excavation to Stockpile	6 days	Fri 5/2/14	Thu 5/8/14 578	581																								
581	Field Irrigation Turnouts	2 days	Thu 5/8/14	Sat 5/10/14 580	583																								
582	Erosion Control Seeding	2 days	Wed 5/21/14	Fri 5/23/14 579																									
583	Misc Sitework	5 days	Sat 5/10/14	Thu 5/15/14 581	579																								

CESPK AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2																
584	Site Demob - for Util Relocations	5 days	Thu 9/18/14	Tue 9/23/14 569,575																					
585	Engineering during Construction, S&A and Construction Completion	215 days	Fri 3/14/14	Wed 10/1/14																					
586	Engineering During Construction	215 days	Fri 3/14/14	Wed 10/1/14 530FF																					
587	Supervision and Administration	215 days	Fri 3/14/14	Wed 10/1/14 530FF	588FF																				
588	Construction Completion	0 days	Wed 10/1/14	Wed 10/1/14 587FF	590																				
589	Inspection and Construction per Punch List	8.75 days	Wed 10/1/14	Thu 10/9/14																					
590	PreFinal Inspection	1.25 days	Wed 10/1/14	Thu 10/2/14 588	591																				
591	Contractor Implement Punch List Items	6.25 days	Thu 10/2/14	Wed 10/8/14 590	592																				
592	Final Inspection	1.25 days	Wed 10/8/14	Thu 10/9/14 591	593,595																				
593	Construction Physical Completion	0 days	Thu 10/9/14	Thu 10/9/14 592	596																				
594	Project Closeout	185.5 days	Thu 10/9/14	Wed 4/1/15																					
595	Construction Prepares Project Completion Letter	6.25 days	Thu 10/9/14	Wed 10/15/14 592																					
596	Contractors Complete As-Builts	28.75 days	Thu 10/9/14	Wed 11/5/14 593	597																				
597	Submit As-Builts	1.25 days	Wed 11/5/14	Thu 11/6/14 596	598																				
598	Notice of Completion/Assumption of OMRR&R	0 days	Thu 11/6/14	Thu 11/6/14 597																					
599	Project Fiscally Complete	0 days	Wed 4/1/15	Wed 4/1/15																					
600	Construction Contract 7 - Reach G	978.75 days	Tue 10/1/13	Fri 4/1/16																					
601	Design	390 days	Tue 10/1/13	Tue 9/30/14																					
602	Collect field explorations	90 days	Tue 10/1/13	Tue 12/24/13	603																				
603	Conduct geotechnical evaluation	90 days	Tue 12/24/13	Tue 3/18/14 602	604																				
604	Develop Basis of Design Report	30 days	Tue 3/18/14	Tue 4/15/14 603	605																				
605	Develop Plans & Specifications	180 days	Tue 4/15/14	Tue 9/30/14 604																					
606	Pre-Construction	96.25 days	Wed 10/1/14	Tue 12/30/14																					
607	Project Bid	41.25 days	Wed 10/1/14	Sat 11/8/14	608																				
608	Award Task Order	8.75 days	Sat 11/8/14	Mon 11/17/14 607	609																				
609	Construction Contract Awarded	0 days	Mon 11/17/14	Mon 11/17/14 608	610FS+6.25 days																				
610	Issue NTP	0 days	Sat 11/22/14	Sat 11/22/14 609FS+6.25 days	611FS+1.25 days																				
611	NTP Acknowledged	0 days	Mon 11/24/14	Mon 11/24/14 610FS+1.25 days	612																				
612	Pre-Con Meeting	1.25 days	Mon 11/24/14	Tue 11/25/14 611	613																				
613	Prepare Pre-Construction Submittals	28.75 days	Tue 11/25/14	Mon 12/22/14 612	614SS																				
614	Corps Approve Pre-Construction Submittals	37.5 days	Tue 11/25/14	Tue 12/30/14 613SS																					
615	Construction	189.5 days	Wed 4/1/15	Thu 9/24/15																					
616	Levees & Floodwalls	189.5 days	Wed 4/1/15	Thu 9/24/15	672FF,673FF																				

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
617	Levees	189.5 days	Wed 4/1/15	Thu 9/24/15																									
618	Site Mobilization - Levees	15 days	Wed 4/1/15	Wed 4/15/15		619,621,650SS																							
619	Haul Roads & Drainage	3.75 days	Wed 4/15/15	Sat 4/18/15 618	620SS																								
620	Care & Diversion of Water - Erosion Control - SWPC	1.25 days	Thu 9/3/15	Fri 9/4/15 619SS,639FF			full duration of levee constr																						
621	Demo, Homes	40 days	Wed 4/15/15	Fri 5/22/15 618																									
622	Clearing & Grubbing, Levee Stripping (plus tree removal)	31 days	Fri 5/1/15	Fri 5/29/15	623SS+2.5 days																								
623	Levee Degrading	27 days	Mon 5/4/15	Thu 5/28/15 622SS+2.5 days	630SS+6.25 days																								
624	Site Mobilization - Borrow Areas	15 days	Tue 5/19/15	Tue 6/2/15 629SS+25 days	625,627																								
625	Haul Roads & Drainage - Borrow Areas	5 days	Tue 6/2/15	Sat 6/6/15 624	626SS																								
626	Care & Diversion of Water - Erosion Control - SWPC - Borrow Areas	1.25 days	Wed 9/23/15	Thu 9/24/15 625SS,638FF			full duration of borrow area use																						
627	Surface Layer Removal & Stockpile - Borrow Areas	48 days	Tue 6/2/15	Thu 7/16/15 624																									
628	Excavation & Hauling - Borrow Areas	85 days	Fri 5/29/15	Mon 8/17/15 630FF+38 days			double crew																						
629	Site Mobilization - Slurry Wall	15 days	Sat 4/25/15	Sat 5/9/15 630SS-15 days	624SS+25 days																								
630	Slurry Wall Construction	69 days	Sat 5/9/15	Mon 7/13/15 623SS+6.25 days	628FF+38 days,629SS-15 days,631FF+38		double rigs/cres																						
631	Emankment Fill, from Borrow	90 days	Mon 5/25/15	Mon 8/17/15 630FF+38 days	635FF+25 days,632FF,634		double crew																						
632	Maintenance Road - ABC	12.5 days	Wed 8/5/15	Mon 8/17/15 631FF																									
633	Demob - Slurry Wall	15 days	Mon 7/13/15	Mon 7/27/15 630																									
634	Revegetation/Hydroseed	15 days	Mon 8/17/15	Mon 8/31/15 631	639																								
635	Surface Layer Restoration - Borrow Areas	48 days	Mon 7/27/15	Wed 9/9/15 631FF+25 days	636		double crews																						
636	Weather Delays	6.25 days	Wed 9/9/15	Tue 9/15/15 635	637																								
637	Demob - Borrow Areas	5 days	Tue 9/15/15	Sat 9/19/15 636	638																								
638	Site Cleanup/Finish Work - Borrow Areas	5 days	Sat 9/19/15	Thu 9/24/15 637	626FF																								
639	Demob - Levee Areas	5 days	Mon 8/31/15	Fri 9/4/15 634	620FF,640																								
640	Site Cleanup/Finish Work - Levee Areas	5 days	Fri 9/4/15	Wed 9/9/15 639																									
641	Relocations	172.5 days	Wed 4/1/15	Wed 9/9/15																									
642	Roads, Construction Activities	172.5 days	Wed 4/1/15	Wed 9/9/15																									
643	Site Mobilization - for Rd Relocations	15 days	Wed 4/1/15	Wed 4/15/15	644																								
644	Private Driveways	115 days	Wed 4/15/15	Fri 7/31/15 643																									
645	Natomas Road	80 days	Fri 6/12/15	Wed 8/26/15 631FF	647																								
646	Access Road (at berm adjacent to canal relocation)	42 days	Fri 5/15/15	Tue 6/23/15 669																									

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
647	Site Demobilization - for Rd Relocations	15 days	Wed 8/26/15	Wed 9/9/15 645																									
648	Cemeteries, Utils, Structures	161.25 days	Wed 4/1/15	Sat 8/29/15																									
649	Utils	161.25 days	Wed 4/1/15	Sat 8/29/15																									
650	Site Mobilization - for Util Relocations	15 days	Wed 4/1/15	Wed 4/15/15 618SS	669,652,654																								
651	Electrical	51 days	Wed 4/15/15	Mon 6/1/15																									
652	Utility Poles	51 days	Wed 4/15/15	Mon 6/1/15 650	670	1/day																							
653	Utility Crossing Relocations	128.75 days	Fri 5/1/15	Sat 8/29/15																									
654	Well Relocations	120 days	Fri 5/1/15	Fri 8/21/15 650	670																								
655	Avids	30 days	Fri 5/1/15	Fri 5/29/15	656																								
656	Cayocca	30 days	Fri 5/29/15	Fri 6/26/15 655	657																								
657	Driggs	30 days	Fri 6/26/15	Fri 7/24/15 656	658																								
658	Hendrix	30 days	Fri 7/24/15	Fri 8/21/15 657																									
659	PP - No 6	100 days	Thu 5/28/15	Sat 8/29/15			Sta ~362+50																						
660	Demo	21 days	Thu 5/28/15	Tue 6/16/15 630SS+20 days	661	expected to commence about 25 days before levee construction reaches this point																							
661	Earthwork	5 days	Tue 6/16/15	Sat 6/20/15 660	663																								
662	Roads	4 days	Tue 8/25/15	Sat 8/29/15 667	665FF																								
663	Pipes	10 days	Sat 6/20/15	Tue 6/30/15 661	664																								
664	Positive Closure Vault	30 days	Tue 6/30/15	Tue 7/28/15 663	666																								
665	Security Fence	3 days	Wed 8/26/15	Sat 8/29/15 662FF																									
666	Pumps & Motors	30 days	Tue 7/28/15	Tue 8/25/15 664	667FF																								
667	Power & Controls	30 days	Tue 7/28/15	Tue 8/25/15 666FF	662																								
668	Canal Relocations	32.5 days	Wed 4/15/15	Fri 5/15/15																									
669	Drainage Canal Relocations	32.5 days	Wed 4/15/15	Fri 5/15/15 650	646																								
670	Site Demob - for Util Relocations	5 days	Fri 8/21/15	Wed 8/26/15 652,654																									
671	Engineering during Construction, S&A and Construction Completion	189 days	Wed 4/1/15	Thu 9/24/15																									
672	Engineering During Construction	189 days	Wed 4/1/15	Thu 9/24/15 616FF																									
673	Supervision and Administration	189 days	Wed 4/1/15	Thu 9/24/15 616FF	674FF																								
674	Construction Completion	0 days	Thu 9/24/15	Thu 9/24/15 673FF	676																								
675	Inspection and Construction per Punch List	8.75 days	Thu 9/24/15	Fri 10/2/15																									
676	PreFinal Inspection	1.25 days	Thu 9/24/15	Fri 9/25/15 674	677																								
677	Contractor Implement Punch List Items	6.25 days	Fri 9/25/15	Thu 10/1/15 676	678																								

CESPK AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2																
678	Final Inspection	1.25 days	Thu 10/1/15	Fri 10/2/15 677	679,681																				
679	Construction Physical Completion	0 days	Fri 10/2/15	Fri 10/2/15 678	682																				
680	Project Closeout	194.25 days	Fri 10/2/15	Fri 4/1/16																					
681	Construction Prepares Project Completion Letter	6.25 days	Fri 10/2/15	Thu 10/8/15 678																					
682	Contractors Complete As-Builts	28.75 days	Fri 10/2/15	Thu 10/29/15 679	683																				
683	Submit As-Builts	1.25 days	Thu 10/29/15	Fri 10/30/15 682	684																				
684	Notice of Completion/Assumption of OMRR&R	0 days	Fri 10/30/15	Fri 10/30/15 683																					
685	Project Fiscally Complete	0 days	Fri 4/1/16	Fri 4/1/16																					
686	Construction Contract 8 - Reaches B, C, and D (utility relocations)	978.75 days	Wed 10/1/14	Sat 4/1/17																					
687	Design	390 days	Wed 10/1/14	Wed 9/30/15																					
688	Collect field explorations	90 days	Wed 10/1/14	Wed 12/24/14	689																				
689	Conduct geotechnical evaluation	90 days	Wed 12/24/14	Wed 3/18/15 688	690																				
690	Develop Basis of Design Report	30 days	Wed 3/18/15	Wed 4/15/15 689	691																				
691	Develop Plans & Specifications	180 days	Wed 4/15/15	Wed 9/30/15 690																					
692	Pre-Construction	96.25 days	Sat 10/3/15	Fri 1/1/16																					
693	Project Bid	41.25 days	Sat 10/3/15	Wed 11/11/15	694																				
694	Award Task Order	8.75 days	Wed 11/11/15	Thu 11/19/15 693	695																				
695	Construction Contract Awarded	0 days	Thu 11/19/15	Thu 11/19/15 694	696FS+6.25 days																				
696	Issue NTP	0 days	Wed 11/25/15	Wed 11/25/15 695FS+6.25 days	697FS+1.25 days																				
697	NTP Acknowledged	0 days	Thu 11/26/15	Thu 11/26/15 696FS+1.25 days	698																				
698	Pre-Con Meeting	1.25 days	Thu 11/26/15	Fri 11/27/15 697	699																				
699	Prepare Pre-Construction Submittals	28.75 days	Fri 11/27/15	Thu 12/24/15 698	700SS																				
700	Corps Approve Pre-Constructon Submittals	37.5 days	Fri 11/27/15	Fri 1/1/16 699SS																					
701	Construction	244 days	Fri 4/1/16	Tue 11/15/16																					
702	Levees, fill slurry wall gaps	165.94 days	Fri 4/1/16	Fri 9/2/16																					
703	Mobilization	18 days	Fri 4/1/16	Mon 4/18/16																					
704	Reach B	100.13 days	Mon 5/2/16	Wed 8/3/16																					
705	Elkhorn PP	78.81 days	Mon 5/2/16	Thu 7/14/16																					
706	Clearing & Grubbing	1 day	Mon 5/2/16	Mon 5/2/16	707																				
707	Stripping	1 day	Mon 5/2/16	Tue 5/3/16 706	708																				
708	Levee Degrading	2 days	Tue 5/3/16	Thu 5/5/16 707	710																				

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
709	Levee Fill	3 days	Thu 6/16/16	Sat 6/18/16	710FS+21 days	711																							
710	Cutoff Wall	10 days	Thu 5/5/16	Fri 5/27/16	708		709FS+21 days,717FS+2																						
711	Revegetation	1 day	Mon 6/20/16	Thu 7/14/16	709																								
712	RD 1000, PP No 5	75.13 days	Wed 5/25/16	Wed 8/3/16																									
713	Clearing & Grubbing	1 day	Wed 5/25/16	Wed 5/25/16		714																							
714	Stripping	1 day	Wed 5/25/16	Thu 5/26/16	713	715																							
715	Levee Degrading	2 days	Thu 5/26/16	Sat 5/28/16	714																								
716	Levee Fill	3 days	Wed 7/6/16	Sat 7/9/16	717FS+21 days	718																							
717	Cutoff Wall	5 days	Mon 5/30/16	Thu 6/16/16	710FS+2 days	716FS+21 days,725FS+2																							
718	Revegetation	1 day	Sat 7/9/16	Wed 8/3/16	716																								
719	Reach C	75.19 days	Tue 6/14/16	Tue 8/23/16																									
720	Prichard PP & RD 1000, PP No 2	75.19 days	Tue 6/14/16	Tue 8/23/16																									
721	Clearing & Grubbing	1 day	Tue 6/14/16	Tue 6/14/16		722																							
722	Stripping	1 day	Tue 6/14/16	Wed 6/15/16	721	723																							
723	Levee Degrading	2 days	Wed 6/15/16	Fri 6/17/16	722																								
724	Levee Fill	3 days	Tue 7/26/16	Fri 7/29/16	725FS+21 days	726																							
725	Cutoff Wall	5 days	Sat 6/18/16	Wed 7/6/16	717FS+2 days	724FS+21 days,772,779																							
726	Revegetation	1 day	Fri 7/29/16	Tue 8/23/16	724	727																							
727	Demobilization	12 days	Tue 8/23/16	Fri 9/2/16	726																								
728	Relocations	244 days	Fri 4/1/16	Tue 11/15/16		819FF,818FF																							
729	Mobilization	18 days	Fri 4/1/16	Mon 4/18/16																									
730	Reach B	138.63 days	Mon 5/2/16	Thu 9/8/16																									
731	W Drainage Canal (EOPC)	47.5 days	Mon 5/2/16	Wed 6/15/16																									
732	Demolition	12.5 days	Mon 5/2/16	Fri 5/13/16																									
733	Clearing & Grubbing	3.75 days	Mon 5/2/16	Thu 5/5/16		734																							
734	Stripping	11.25 days	Thu 5/5/16	Mon 5/16/16	733	735SS+2.5 days																							
735	Excavation	25 days	Sat 5/7/16	Tue 5/31/16	734SS+2.5 days	736																							
736	Fill	10 days	Tue 5/31/16	Thu 6/9/16	735	737																							
737	Demob	6.25 days	Thu 6/9/16	Wed 6/15/16	736																								
738	Elkhorn PP	100.56 days	Sat 5/14/16	Tue 8/16/16																									
739	Demo	5 days	Sat 5/14/16	Thu 5/19/16		740																							

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Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018			
								H1	H2																		
740	Earthwork	8 days	Thu 5/19/16	Thu 5/26/16	739	742																					
741	Roads	4 days	Wed 8/10/16	Sat 8/13/16	746	744FF,747																					
742	Pipes	14 days	Fri 5/27/16	Thu 6/9/16	740,710	743SS	follows cutoff wall placement																				
743	Positive Closure & Flow Meter Vaults	40 days	Fri 5/27/16	Mon 7/4/16	742SS	745																					
744	Pump Platform Rehabilitation	15 days	Mon 8/1/16	Sat 8/13/16	741FF																						
745	Pumps & Motors	40 days	Mon 7/4/16	Wed 8/10/16	743	746FF																					
746	Power & Controls	30 days	Wed 7/13/16	Wed 8/10/16	745FF	741																					
747	Bank Stabilization	2 days	Mon 8/15/16	Tue 8/16/16	741																						
748	Riverside PP, Phase 2	108 days	Mon 5/2/16	Wed 8/10/16			assumption is this takes place after the Riverside Canal work																				
749	Demo	17 days	Mon 5/2/16	Tue 5/17/16		750																					
750	Earthwork	2 days	Tue 5/17/16	Thu 5/19/16	749	752																					
751	Roads	4 days	Tue 8/2/16	Fri 8/5/16	756	754FF,757																					
752	Pipes	10 days	Thu 5/19/16	Sat 5/28/16	750	753SS																					
753	Positive Closure & Flow Meter Vaults	40 days	Thu 5/19/16	Sat 6/25/16	752SS	755																					
754	Security Fence	2 days	Wed 8/3/16	Fri 8/5/16	751FF																						
755	Pumps & Motors	40 days	Sat 6/25/16	Tue 8/2/16	753	756FF																					
756	Power & Controls	30 days	Tue 7/5/16	Tue 8/2/16	755FF	751																					
757	Flow Meters	5 days	Fri 8/5/16	Wed 8/10/16	751																						
758	RD 1000, PP No 5	109.88 days	Sat 5/28/16	Thu 9/8/16																							
759	Demo	17 days	Sat 5/28/16	Mon 6/13/16		760																					
760	Earthwork	2 days	Mon 6/13/16	Wed 6/15/16	759	762																					
761	Roads	4 days	Tue 8/30/16	Sat 9/3/16	766	764FF,767																					
762	Pipes	10 days	Thu 6/16/16	Sat 6/25/16	760,717	763SS	follows cutoff wall placement																				
763	Positive Closure & Flow Meter Vaults	40 days	Thu 6/16/16	Sat 7/23/16	762SS	765																					
764	Security Fence	2 days	Thu 9/1/16	Sat 9/3/16	761FF																						
765	Pumps & Motors	40 days	Sat 7/23/16	Tue 8/30/16	763	766FF																					
766	Power & Controls	30 days	Tue 8/2/16	Tue 8/30/16	765FF	761																					
767	Flow Meters	5 days	Sat 9/3/16	Thu 9/8/16	761																						
768	Reach C	109.94 days	Fri 6/17/16	Wed 9/28/16																							
769	Prichard PP	40.94 days	Mon 6/27/16	Wed 8/3/16																							
770	Demo	2 days	Mon 6/27/16	Tue 6/28/16		771																					

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Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
771	Earthwork	7 days	Tue 6/28/16	Tue 7/5/16 770	772																					
772	Pipes	9 days	Wed 7/6/16	Fri 7/15/16 771,725	773SS	follows cutoff wall placement																				
773	Transition Structure	30 days	Wed 7/6/16	Wed 8/3/16 772SS	774SS																					
774	Concrete Outlet Structure	30 days	Wed 7/6/16	Wed 8/3/16 773SS																						
775	RD 1000, PP No 2	109.94 days	Fri 6/17/16	Wed 9/28/16																						
776	Demo	17 days	Fri 6/17/16	Sat 7/2/16	777																					
777	Earthwork	2 days	Sat 7/2/16	Tue 7/5/16 776	779																					
778	Roads	4 days	Mon 9/19/16	Fri 9/23/16 783	781FF,784																					
779	Pipes	10 days	Wed 7/6/16	Fri 7/15/16 777,725	780SS	follows cutoff wall placement																				
780	Positive Closure & Flow Meter Vaults	40 days	Wed 7/6/16	Fri 8/12/16 779SS	782																					
781	Security Fence	2 days	Wed 9/21/16	Fri 9/23/16 778FF																						
782	Pumps & Motors	40 days	Fri 8/12/16	Mon 9/19/16 780	783FF																					
783	Power & Controls	30 days	Mon 8/22/16	Mon 9/19/16 782FF	778																					
784	Flow Meters	5 days	Fri 9/23/16	Wed 9/28/16 778																						
785	Reach D	199.5 days	Mon 5/2/16	Thu 11/3/16																						
786	RD 1000, PP No 4	65 days	Mon 5/2/16	Fri 7/1/16																						
787	Demo	2 days	Mon 5/2/16	Tue 5/3/16	788																					
788	Earthwork	2 days	Tue 5/3/16	Thu 5/5/16 787	790																					
789	Roads	1 day	Thu 6/30/16	Fri 7/1/16 793																						
790	Concrete Footing	10 days	Thu 5/5/16	Sat 5/14/16 788	791SS																					
791	New Building	50 days	Thu 5/5/16	Tue 6/21/16 790SS	792																					
792	Pumps & Motors	10 days	Tue 6/21/16	Thu 6/30/16 791	793FF																					
793	Power & Controls	10 days	Tue 6/21/16	Thu 6/30/16 792FF	789																					
794	Bennett PP	110 days	Fri 7/1/16	Wed 10/12/16																						
795	Demo	20 days	Fri 7/1/16	Wed 7/20/16	796																					
796	Earthwork	6 days	Wed 7/20/16	Mon 7/25/16 795	798																					
797	Roads	4 days	Fri 10/7/16	Wed 10/12/16 802	803FF																					
798	Pipes	9 days	Mon 7/25/16	Wed 8/3/16 796	799SS	follows cutoff wall placement																				
799	Positive Closure & Flow Meter Vaults	40 days	Mon 7/25/16	Wed 8/31/16 798SS	801,800FF,804I																					
800	Concrete Outlet Structure	30 days	Wed 8/3/16	Wed 8/31/16 799FF																						
801	Pumps & Motors	40 days	Wed 8/31/16	Fri 10/7/16 799	802FF																					

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																						
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018							
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2				
802	Power & Controls	30 days	Fri 9/9/16	Fri 10/7/16	801FF	797																									
803	Security Fence	2 days	Mon 10/10/16	Wed 10/12/16	797FF																										
804	Misc Repairs	15 days	Wed 8/17/16	Wed 8/31/16	799FF																										
805	Northern PP	112 days	Fri 7/22/16	Thu 11/3/16																											
806	Demo	20 days	Fri 7/22/16	Wed 8/10/16		807																									
807	Earthwork	8 days	Wed 8/10/16	Wed 8/17/16	806	809																									
808	Roads	4 days	Mon 10/31/16	Thu 11/3/16	813	814FF,816																									
809	Pipes	13 days	Wed 8/17/16	Mon 8/29/16	807	810SS	follows cutoff wall placement																								
810	Positive Closure & Flow Meter Vaults	40 days	Wed 8/17/16	Fri 9/23/16	809SS	812,811FF,815I																									
811	Concrete Outlet Structure	30 days	Fri 8/26/16	Fri 9/23/16	810FF																										
812	Pumps & Motors	40 days	Fri 9/23/16	Mon 10/31/16	810	813FF																									
813	Power & Controls	30 days	Mon 10/3/16	Mon 10/31/16	812FF	808																									
814	Security Fence	2 days	Wed 11/2/16	Thu 11/3/16	808FF																										
815	Misc Repairs	15 days	Fri 9/9/16	Fri 9/23/16	810FF																										
816	Demobilization	12 days	Thu 11/3/16	Tue 11/15/16	808																										
817	Engineering during Construction, S&A and Construction Completion	204 days	Mon 5/9/16	Tue 11/15/16																											
818	Engineering During Construction	204 days	Mon 5/9/16	Tue 11/15/16	728FF																										
819	Supervision and Administration	204 days	Mon 5/9/16	Tue 11/15/16	728FF	820FF																									
820	Construction Completion	0 days	Tue 11/15/16	Tue 11/15/16	819FF	822																									
821	Inspection and Construction per Punch List	8.75 days	Tue 11/15/16	Wed 11/23/16																											
822	PreFinal Inspection	1.25 days	Tue 11/15/16	Wed 11/16/16	820	823																									
823	Contractor Implement Punch List Items	6.25 days	Wed 11/16/16	Tue 11/22/16	822	824																									
824	Final Inspection	1.25 days	Tue 11/22/16	Wed 11/23/16	823	825,827																									
825	Construction Physical Completion	0 days	Wed 11/23/16	Wed 11/23/16	824	828																									
826	Project Closeout	138.5 days	Wed 11/23/16	Sat 4/1/17																											
827	Construction Prepares Project Completion Letter	6.25 days	Wed 11/23/16	Tue 11/29/16	824																										
828	Contractors Complete As-Builts	28.75 days	Wed 11/23/16	Tue 12/20/16	825	829																									
829	Submit As-Builts	1.25 days	Tue 12/20/16	Wed 12/21/16	828	830																									
830	Notice of Completion/Assumption of OMRR&R	0 days	Wed 12/21/16	Wed 12/21/16	829																										
831	Project Fiscally Complete	0 days	Sat 4/1/17	Sat 4/1/17																											

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10									
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010	2011	2012	2013	2014	2015	2016	2017	2018		
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
1	Natomas PACR (LPP)	2608.75 days	Mon 8/2/10	Sat 4/1/17														
2	Construction of Reaches A, B (remaining), H, I, E, F, G, and B,C,D (utility relocations)	2608.75 days	Mon 8/2/10	Sat 4/1/17														
3	Construction Contract 1 - Reach A	1433.75 days	Mon 8/2/10	Tue 4/1/14			SREL Sta 742+60 to Sta 956+83 and Sta 0+00 to 20+50. Work involves levee improvements and/or											
4	Design	390 days	Mon 8/2/10	Mon 8/1/11														
5	Collect field explorations	90 days	Mon 8/2/10	Mon 10/25/10	6													
6	Conduct geotechnical evaluation	90 days	Mon 10/25/10	Mon 1/17/11	5	7												
7	Develop Basis of Design Report	30 days	Mon 1/17/11	Mon 2/14/11	6	8												
8	Develop Plans & Specifications	180 days	Mon 2/14/11	Mon 8/1/11	7													
9	Pre-Construction	96.25 days	Mon 10/3/11	Sat 12/31/11														
10	Project Bid	41.25 days	Mon 10/3/11	Thu 11/10/11	11													
11	Award Task Order	8.75 days	Thu 11/10/11	Fri 11/18/11	10	12												
12	Construction Contract Awarded	0 days	Fri 11/18/11	Fri 11/18/11	11	13FS+6.25 days												
13	Issue NTP	0 days	Thu 11/24/11	Thu 11/24/11	12FS+6.25 days	14FS+1.25 days												
14	NTP Acknowledged	0 days	Fri 11/25/11	Fri 11/25/11	13FS+1.25 days	15												
15	Pre-Con Meeting	1.25 days	Fri 11/25/11	Sat 11/26/11	14	16												
16	Prepare Pre-Construction Submittals	28.75 days	Sat 11/26/11	Fri 12/23/11	15	17SS												
17	Corps Approve Pre-Construction Submittals	37.5 days	Sat 11/26/11	Sat 12/31/11	16SS													
18	Construction	605.69 days	Mon 4/2/12	Fri 10/18/13														
19	Levees & Floodwalls	603.5 days	Mon 4/2/12	Wed 10/16/13														
20	Levees	603.5 days	Mon 4/2/12	Wed 10/16/13														
21	Season 1	241.25 days	Mon 4/2/12	Tue 11/13/12														
22	Site Mobilization - Levees	18 days	Mon 4/2/12	Wed 4/18/12	23,74SS,127SS													
23	Haul Roads & Drainage	6 days	Wed 4/18/12	Tue 4/24/12	22	24SS												
24	SWPP Installation - Levees	5 days	Wed 4/18/12	Mon 4/23/12	23SS		full duration of levee constr											
25	Clearing & Grubbing	3 days	Tue 5/1/12	Thu 5/3/12		26SS+2 days												
26	Levee Stripping	12 days	Wed 5/2/12	Mon 5/14/12	25SS+2 days	35SS+2 days												
27	Site Mobilization - Borrow Areas	18 days	Mon 4/2/12	Wed 4/18/12		28												
28	Haul Roads & Drainage - Borrow Areas	6 days	Wed 4/18/12	Tue 4/24/12	27	29SS												
29	SWPP Installation - Borrow Areas	2 days	Wed 4/18/12	Fri 4/20/12	28SS	30	full duration of borrow area use											
30	Borrow Areas - Surface Layer Removal & Stockpile	13 days	Fri 4/20/12	Wed 5/2/12	29													
31	Borrow Areas - Excavation & Hauling (to replace std depth CO Wall Waste)	28 days	Fri 5/4/12	Wed 5/30/12	35SS		assumes 2 crews used											

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
32	Borrow Areas - Excavation & Hauling (to replace deep CO Wall Waste)	115 days	Wed 5/30/12	Fri 9/14/12 36SS			assumes 2 crews used																						
33	Borrow Areas - Excavation & Hauling	143 days	Thu 5/24/12	Thu 10/4/12 37SS			assumes 2 crews used																						
34	Site Mobilization - Slurry Wall	15 days	Tue 4/17/12	Tue 5/1/12 35SS-18 days																									
35	Slurry Wall Construction (depth less than 75')	28 days	Fri 5/4/12	Wed 5/30/12 26SS+2 days	36,31SS,37SS+ days,34SS-18 days																								
36	Slurry Wall Construction (depth 75' or more)	115 days	Wed 5/30/12	Fri 9/14/12 35	38,32SS	Assumes 2 crews used																							
37	Select/Levee Fill & Random Fill	143 days	Thu 5/24/12	Thu 10/4/12 35SS+21 days	33SS,41,39FF+ days	assumes 2 crews used																							
38	Demob - Slurry Wall	12 days	Fri 9/14/12	Wed 9/26/12 36																									
39	Maintenance Road - ABC	3 days	Sat 10/6/12	Tue 10/9/12 37FF+5 days	40																								
40	Revegetation/Hydroseed	10 days	Tue 10/9/12	Thu 10/18/12 39																									
41	Surface Layer Restoration - Borrow Areas	15 days	Thu 10/4/12	Thu 10/18/12 37	42																								
42	Demob - Borrow Areas	6 days	Thu 10/18/12	Wed 10/24/12 41	43																								
43	Site Cleanup/Finish Work - Borrow Areas	5 days	Wed 10/24/12	Mon 10/29/12 42	44																								
44	Weather Delays	6 days	Mon 10/29/12	Sat 11/3/12 43	45																								
45	Demob - Levee Areas	5 days	Sat 11/3/12	Thu 11/8/12 44	46																								
46	Site Cleanup/Finish Work - Levee Areas	5 days	Thu 11/8/12	Tue 11/13/12 45																									
47	Season 2	213.5 days	Mon 4/1/13	Wed 10/16/13																									
48	Site Mobilization - Levees - Season 1	18 days	Mon 4/1/13	Wed 4/17/13	49																								
49	Haul Roads & Drainage	6 days	Wed 4/17/13	Tue 4/23/13 48	50SS																								
50	SWPP Installation - Levees	5 days	Wed 4/17/13	Mon 4/22/13 49SS		full duration of levee constr																							
51	Clearing & Grubbing	3 days	Wed 5/1/13	Fri 5/3/13	52SS+2 days																								
52	Levee Stripping	12 days	Thu 5/2/13	Tue 5/14/13 51SS+2 days	60SS+2 days																								
53	Site Mobilization - Borrow Areas	18 days	Mon 4/1/13	Wed 4/17/13	54																								
54	Haul Roads & Drainage - Borrow Areas	6 days	Wed 4/17/13	Tue 4/23/13 53	55SS																								
55	SWPP Installation - Borrow Areas	2 days	Wed 4/17/13	Fri 4/19/13 54SS	56	full duration of borrow area use																							
56	Borrow Areas - Surface Layer Removal & Stockpile	13 days	Fri 4/19/13	Wed 5/1/13 55																									
57	Borrow Areas - Excavation & Hauling (to replace deep CO Wall Waste)	115 days	Sat 5/4/13	Tue 8/20/13 60SS		assumes 2 crews used																							
58	Borrow Areas - Excavation & Hauling	115 days	Fri 5/24/13	Mon 9/9/13 61SS		assumes 2 crews used																							

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2																
59	Site Mobilization - Slurry Wall	15 days	Wed 4/17/13	Wed 5/1/13	60SS-18 days																				
60	Slurry Wall Construction (depth 75' or more)	115 days	Sat 5/4/13	Tue 8/20/13	52SS+2 days	57SS,62,61SS+	Assumes 2 crews used days,59SS-18 days,101SS+20 days,110SS+45																		
61	Select/Levee Fill & Random Fill	115 days	Fri 5/24/13	Mon 9/9/13	60SS+21 days	58SS,65,63FF+	asssumes 2 crews used days																		
62	Demob - Slurry Wall	12 days	Tue 8/20/13	Fri 8/30/13	60																				
63	Maintenance Road - ABC	3 days	Tue 9/10/13	Fri 9/13/13	61FF+5 days	64																			
64	Revegetation/Hydroseed	10 days	Fri 9/13/13	Mon 9/23/13	63																				
65	Surface Layer Restoration - Borrow Areas	15 days	Mon 9/9/13	Mon 9/23/13	61	66																			
66	Demob - Borrow Areas	5 days	Mon 9/23/13	Fri 9/27/13	65	67																			
67	Site Cleanup/Finish Work - Borrow Areas	5 days	Fri 9/27/13	Wed 10/2/13	66	68																			
68	Weather Delays	6 days	Wed 10/2/13	Mon 10/7/13	67	69																			
69	Demob - Levee Areas	5 days	Mon 10/7/13	Fri 10/11/13	68	70																			
70	Site Cleanup/Finish Work - Levee Areas	5 days	Fri 10/11/13	Wed 10/16/13	69	127FF,126FF																			
71	Pumping Plants & Relocations	605.69 days	Mon 4/2/12	Fri 10/18/13																					
72	Utilities	605.69 days	Mon 4/2/12	Fri 10/18/13																					
73	Season 1	115.19 days	Mon 4/2/12	Wed 7/18/12																					
74	Site Mobilization - for Util Relocations	15 days	Mon 4/2/12	Mon 4/16/12	22SS	75																			
75	Utility Poles	100 days	Mon 4/16/12	Wed 7/18/12	74	1/day																			
76	Site Demob - for Util Relocations	15 days	Mon 4/2/12	Sat 4/14/12																					
77	Season 2	215.5 days	Mon 4/1/13	Fri 10/18/13																					
78	Site Mobilization - for Util Relocations	15 days	Mon 4/1/13	Mon 4/15/13																					
79	Riverside Canal, SREL 3B	168 days	Wed 5/1/13	Fri 10/4/13		124																			
80	Demo	16 days	Wed 5/1/13	Wed 5/15/13		81FF																			
81	Clear & Grub	8 days	Wed 5/8/13	Wed 5/15/13	80FF	82SS+2 days																			
82	Stripping	11 days	Fri 5/10/13	Mon 5/20/13	81SS+2 days	84FF+1 day																			
83	Compacted Embankment	89 days	Thu 6/13/13	Wed 9/4/13	89FS+5 days	85FF+20 days																			
84	Excavation to Stockpile	3 days	Sat 5/18/13	Tue 5/21/13	82FF+1 day	89,90																			
85	Concrete Canal Lining	14 days	Tue 9/10/13	Mon 9/23/13	83FF+20 days	86																			
86	ABC	9 days	Mon 9/23/13	Wed 10/2/13	85	88																			
87	Field Irrigation Turnouts	10 days	Sat 6/8/13	Tue 6/18/13	89																				
88	Erosion Control Seeding	3 days	Wed 10/2/13	Fri 10/4/13	86																				

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018			
								H1	H2																		
89	30-IN Solid Wall HDPE Pipeline	20 days	Tue 5/21/13	Sat 6/8/13 84		83FS+5 days,87																					
90	Pumping Plant Outfall	20 days	Tue 5/21/13	Sat 6/8/13 84		91SS																					
91	Water Control Facilities	30 days	Tue 5/21/13	Tue 6/18/13 90SS																							
92	Private Irrigation Facility Relocation (Tennet-Labvitch)	60 days	Wed 5/1/13	Wed 6/26/13			Sta ~853+00																				
93	Demo	2 days	Wed 5/1/13	Thu 5/2/13		94SS																					
94	Earthwork	20 days	Wed 5/1/13	Mon 5/20/13 93SS		95																					
95	Well Drilling	10 days	Mon 5/20/13	Wed 5/29/13 94		96																					
96	Well Development	5 days	Wed 5/29/13	Mon 6/3/13 95		97																					
97	Concrete Pad	5 days	Mon 6/3/13	Fri 6/7/13 96		98FS+10 days																					
98	Pump & Discharge Pipe	10 days	Mon 6/17/13	Wed 6/26/13 97FS+10 days		99FF																					
99	Electrical Service	10 days	Mon 6/17/13	Wed 6/26/13 98FF																							
100	Pumping Plant - Sump 160	80 days	Thu 5/23/13	Tue 8/6/13			Sta ~900+00																				
101	Demo	16 days	Thu 5/23/13	Fri 6/7/13 60SS+20 days		102FF	expected to commence about 20 days before levee construction reaches this point																				
102	Earthwork	4 days	Mon 6/3/13	Fri 6/7/13 101FF		104																					
103	Roads	4 days	Fri 8/2/13	Tue 8/6/13 108		106FF																					
104	Pipes	12 days	Fri 6/7/13	Tue 6/18/13 102		105SS																					
105	Positive Closure Vault	30 days	Fri 6/7/13	Fri 7/5/13 104SS		107																					
106	Security Fence	2 days	Sat 8/3/13	Tue 8/6/13 103FF																							
107	Pumps & Motors	30 days	Fri 7/5/13	Fri 8/2/13 105		108FF																					
108	Power & Controls	30 days	Fri 7/5/13	Fri 8/2/13 107FF		103																					
109	RD 1000, PP No 1A	56 days	Sat 6/15/13	Wed 8/7/13			Sta ~924+50																				
110	Demo	6 days	Sat 6/15/13	Fri 6/21/13 60SS+45 days		111	expected to commence about 20 days before levee construction reaches this point																				
111	Site Work	12 days	Fri 6/21/13	Tue 7/2/13 110		112																					
112	Construct Chamber for Sluice Gates & Flap Gates	10 days	Tue 7/2/13	Thu 7/11/13 111		113FS+10 days																					
113	New Slide/Sluice Gates	8 days	Sat 7/20/13	Mon 7/29/13 112FS+10 days		114																					
114	New Flap Gates & Power Winch for Opening	5 days	Mon 7/29/13	Fri 8/2/13 113		115FF+5 days																					
115	Pwr & Controls for Gate Facilities	10 days	Mon 7/29/13	Wed 8/7/13 114FF+5 days																							
116	RD 1000, PP No 1B	78 days	Sat 6/15/13	Tue 8/27/13			Sta ~924+50																				
117	Demo	13 days	Sat 6/15/13	Thu 6/27/13 60SS+45 days		118FF	expected to commence about 20 days before levee construction reaches this point																				
118	Earthwork	3 days	Tue 6/25/13	Thu 6/27/13 117FF		120																					
119	Roads	5 days	Thu 8/22/13	Tue 8/27/13 123																							

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE								Fri 8/13/10									
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010	2011	2012	2013	2014	2015	2016	2017	2018	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	
120	Pipes	10 days	Thu 6/27/13	Sat 7/6/13	118	121SS											
121	Positive Closure Vault	30 days	Thu 6/27/13	Thu 7/25/13	120SS	122											
122	Pumps & Motors	30 days	Thu 7/25/13	Thu 8/22/13	121	123FF											
123	Power & Controls	30 days	Thu 7/25/13	Thu 8/22/13	122FF	119											
124	Site Demob - for Util Relocations	15 days	Fri 10/4/13	Fri 10/18/13	79												
125	Engineering during Construction, S&A and Construction Completion	605 days	Mon 4/2/12	Fri 10/18/13													
126	Engineering During Construction	605 days	Mon 4/2/12	Fri 10/18/13	22SS,70FF												
127	Supervision and Administration	605 days	Mon 4/2/12	Fri 10/18/13	22SS,70FF	128FF											
128	Construction Completion	0 days	Fri 10/18/13	Fri 10/18/13	127FF	130											
129	Inspection and Construction per Punch List	9 days	Fri 10/18/13	Sat 10/26/13													
130	PreFinal Inspection	2 days	Fri 10/18/13	Sat 10/19/13	128	131											
131	Contractor Implement Punch List Items	6 days	Sat 10/19/13	Fri 10/25/13	130	132											
132	Final Inspection	1 day	Fri 10/25/13	Sat 10/26/13	131	133,135											
133	Construction Physical Completion	0 days	Sat 10/26/13	Sat 10/26/13	132	136											
134	Project Closeout	167.25 days	Sat 10/26/13	Tue 4/1/14													
135	Construction Prepares Project Completion Letter	6 days	Sat 10/26/13	Fri 11/1/13	132												
136	Contractors Complete As-Builts	24 days	Sat 10/26/13	Mon 11/18/13	133	137											
137	Submit As-Builts	1 day	Mon 11/18/13	Tue 11/19/13	136	138											
138	Notice of Completion/Assumption of OMRR&R	0 days	Tue 11/19/13	Tue 11/19/13	137												
139	Project Fiscally Complete	0 days	Tue 4/1/14	Tue 4/1/14													
140	Construction Contract 2 - Reach B (remaining work)	977.5 days	Fri 10/1/10	Mon 4/1/13			SREL Sta 635+00 to 742+60 - Work involves changes to several pumping plants and canal										
141	Design	390 days	Fri 10/1/10	Fri 9/30/11													
142	Collect field explorations	90 days	Fri 10/1/10	Fri 12/24/10		143											
143	Conduct geotechnical evaluation	90 days	Fri 12/24/10	Fri 3/18/11	142	144											
144	Develop Basis of Design Report	30 days	Fri 3/18/11	Fri 4/15/11	143	145											
145	Develop Plans & Specifications	180 days	Fri 4/15/11	Fri 9/30/11	144												
146	Pre-Construction	96.25 days	Mon 10/3/11	Sat 12/31/11													
147	Project Bid	41.25 days	Mon 10/3/11	Thu 11/10/11		148											
148	Award Task Order	8.75 days	Thu 11/10/11	Fri 11/18/11	147	149											
149	Construction Contract Awarded	0 days	Fri 11/18/11	Fri 11/18/11	148	150FS+6.25 days											
150	Issue NTP	0 days	Thu 11/24/11	Thu 11/24/11	149	151FS+1.25 days											
151	NTP Acknowledged	0 days	Fri 11/25/11	Fri 11/25/11	150	152											

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
152	Pre-Con Meeting	1.25 days	Fri 11/25/11	Sat 11/26/11	151	153																				
153	Prepare Pre-Construction Submittals	28.75 days	Sat 11/26/11	Fri 12/23/11	152	154SS																				
154	Corps Approve Pre-Construction Submittals	37.5 days	Sat 11/26/11	Sat 12/31/11	153SS																					
155	Construction	195.44 days	Mon 4/2/12	Mon 10/1/12																						
156	Levees & Floodwalls	195.25 days	Mon 4/2/12	Mon 10/1/12																						
157	Levees	195.25 days	Mon 4/2/12	Mon 10/1/12																						
158	General Construction Schedule	195.25 days	Mon 4/2/12	Mon 10/1/12																						
159	Season 1	195.25 days	Mon 4/2/12	Mon 10/1/12																						
160	Site Mobilization - Levees	18 days	Mon 4/2/12	Wed 4/18/12		161,218SS,219																				
161	Haul Roads & Drainage	6 days	Wed 4/18/12	Tue 4/24/12	160	162SS																				
162	SWPP Installation - Levees	8 days	Wed 4/18/12	Wed 4/25/12	161SS		full duration of levee constr																			
163	Clearing & Grubbing	3 days	Tue 5/1/12	Thu 5/3/12		164SS+2 days																				
164	Levee Stripping	12 days	Wed 5/2/12	Mon 5/14/12	163SS+2 days	173SS+2 days																				
165	Site Mobilization - Borrow Areas	18 days	Mon 4/2/12	Wed 4/18/12		166																				
166	Haul Roads & Drainage - Borrow Areas	6 days	Wed 4/18/12	Tue 4/24/12	165	167SS																				
167	SWPP Installation - Borrow Areas	2 days	Wed 4/18/12	Fri 4/20/12	166SS	168	full duration of borrow area use																			
168	Borrow Areas - Surface Layer Removal & Stockpile	10 days	Fri 4/20/12	Mon 4/30/12	167																					
169	Borrow Areas - Excavation & Hauling (to replace std depth CO Wall Waste)	34 days	Fri 5/4/12	Tue 6/5/12	173SS																					
170	Borrow Areas - Excavation & Hauling (to replace deep CO Wall Waste)	62 days	Tue 6/5/12	Thu 8/2/12	174SS																					
171	Borrow Areas - Excavation & Hauling	96 days	Thu 5/24/12	Tue 8/21/12	175SS		assumes 2 crews used																			
172	Site Mobilization - Slurry Wall	15 days	Tue 4/17/12	Tue 5/1/12	173SS-18 days																					
173	Slurry Wall Construction (depth 75' or more)	34 days	Fri 5/4/12	Tue 6/5/12	164SS+2 days	169SS,172SS-1 days,174,175SS days,200SS																				
174	Slurry Wall Construction (depth less than 75')	62 days	Tue 6/5/12	Thu 8/2/12	173	170SS,176,211 assumes 2 crews used days																				
175	Select/Levee Fill & Random Fill	96 days	Thu 5/24/12	Tue 8/21/12	173SS+21 days	171SS,179,177 assumes 2 crews used days																				
176	Demob - Slurry Wall	12 days	Thu 8/2/12	Mon 8/13/12	174																					
177	Maintenance Road - ABC	4 days	Wed 8/22/12	Sat 8/25/12	175FF+5 days	178																				
178	Revegetation/Hydroseed	16 days	Sat 8/25/12	Mon 9/10/12	177																					
179	Surface Layer Restoration - Borrow Areas	15 days	Tue 8/21/12	Tue 9/4/12	175	180																				

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2																
180	Demob - Borrow Areas	5 days	Tue 9/4/12	Sat 9/8/12 179	181																				
181	Site Cleanup/Finish Work - Borrow Areas	5 days	Sat 9/8/12	Thu 9/13/12 180	182																				
182	Weather Delays	6 days	Thu 9/13/12	Wed 9/19/12 181	183																				
183	Demob - Levee Areas	6 days	Wed 9/19/12	Tue 9/25/12 182	184																				
184	Site Cleanup/Finish Work - Levee Areas	6 days	Tue 9/25/12	Mon 10/1/12 183	218FF,219FF,2																				
185	Pumping Plants & Relocations	184.44 days	Mon 4/2/12	Thu 9/20/12																					
186	Utilities	184.44 days	Mon 4/2/12	Thu 9/20/12																					
187	Site Mobilization - for Util Relocations	15 days	Mon 4/2/12	Sat 4/14/12	188																				
188	Utility Poles	60 days	Mon 4/16/12	Sat 6/9/12 187			1/day																		
189	Elkhorn PP, Phase 2	100 days	Tue 5/1/12	Thu 8/2/12																					
190	Demo	5 days	Tue 5/1/12	Sat 5/5/12	191																				
191	Earthwork	8 days	Sat 5/5/12	Sat 5/12/12 190	193																				
192	Roads	4 days	Thu 7/26/12	Mon 7/30/12 197	195FF,198																				
193	Pipes	14 days	Sat 5/12/12	Fri 5/25/12 191	194SS																				
194	Positive Closure Vault	40 days	Sat 5/12/12	Tue 6/19/12 193SS	196																				
195	Pump Platform Rehab	20 days	Wed 7/11/12	Mon 7/30/12 192FF																					
196	Pumps & Motors	40 days	Tue 6/19/12	Thu 7/26/12 194	197FF																				
197	Power & Controls	30 days	Thu 6/28/12	Thu 7/26/12 196FF	192																				
198	Bank Stabilization	3 days	Mon 7/30/12	Thu 8/2/12 192																					
199	RD 1000, PP No 3	134 days	Fri 5/4/12	Thu 9/6/12			Sta ~676+00																		
200	Demo	35 days	Fri 5/4/12	Wed 6/6/12 173SS	201		expected to commence about 35 days before levee construction reaches this point																		
201	Earthwork	10 days	Wed 6/6/12	Fri 6/15/12 200	203																				
202	Roads	4 days	Wed 8/29/12	Sat 9/1/12 207	205FF,208																				
203	Pipes	20 days	Fri 6/15/12	Wed 7/4/12 201	204SS																				
204	Positive Closure & Flow Meter Vaults	40 days	Fri 6/15/12	Mon 7/23/12 203SS	206,209																				
205	Security Fence	2 days	Thu 8/30/12	Sat 9/1/12 202FF																					
206	Pumps & Motors	40 days	Mon 7/23/12	Wed 8/29/12 204	207FF																				
207	Power & Controls	30 days	Wed 8/1/12	Wed 8/29/12 206FF	202																				
208	Flap Gates	5 days	Sat 9/1/12	Thu 9/6/12 202	216																				
209	C-I-P Concrete Baffles	30 days	Mon 7/23/12	Mon 8/20/12 204																					
210	Riverside PP, Phase 1	37 days	Thu 6/28/12	Thu 8/2/12			Sta ~707+50																		

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010	2011	2012	2013	2014	2015	2016	2017	2018		
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H1	
211	Demo	2 days	Thu 6/28/12	Sat 6/30/12	174SS+25 days	212FF	expected to commence about 5 days before levee construction reaches this point											
212	Earthwork	2 days	Thu 6/28/12	Sat 6/30/12	211FF	213												
213	Pipes	5 days	Sat 6/30/12	Thu 7/5/12	212	214SS												
214	Flow Meter Vault	30 days	Sat 6/30/12	Sat 7/28/12	213SS	215												
215	Bollards	5 days	Sat 7/28/12	Thu 8/2/12	214													
216	Site Demobilization - for Util Relocations	15 days	Thu 9/6/12	Thu 9/20/12	208													
217	Engineering during Construction, S&A and Construction Completion	195 days	Mon 4/2/12	Mon 10/1/12														
218	Engineering During Construction	195 days	Mon 4/2/12	Mon 10/1/12	160SS,184FF													
219	Supervision and Administration	195 days	Mon 4/2/12	Mon 10/1/12	160SS,184FF													
220	Construction Completion	0 days	Mon 10/1/12	Mon 10/1/12	184FF	222												
221	Inspection and Construction per Punch List	8.75 days	Mon 10/1/12	Tue 10/9/12														
222	PreFinal Inspection	1.25 days	Mon 10/1/12	Tue 10/2/12	220	223												
223	Contractor Implement Punch List Items	6.25 days	Tue 10/2/12	Mon 10/8/12	222	224												
224	Final Inspection	1.25 days	Mon 10/8/12	Tue 10/9/12	223	225,227												
225	Construction Physical Completion	0 days	Tue 10/9/12	Tue 10/9/12	224	228												
226	Project Closeout	186 days	Tue 10/9/12	Mon 4/1/13														
227	Construction Prepares Project Completion Letter	6.25 days	Tue 10/9/12	Mon 10/15/12	224													
228	Contractors Complete As-Builts	28.75 days	Tue 10/9/12	Mon 11/5/12	225	229												
229	Submit As-Builts	1.25 days	Mon 11/5/12	Tue 11/6/12	228	230												
230	Notice of Completion/Assumption of OMRR&R	0 days	Tue 11/6/12	Tue 11/6/12	229													
231	Project Fiscally Complete	0 days	Mon 4/1/13	Mon 4/1/13														
232	Construction Contract 3 - Reach H	976.25 days	Mon 10/3/11	Tue 4/1/14			Sta 0+00 to 237+00 - Work involves levee improvements and/or soil bentonite slurry wall.											
233	Design	390 days	Mon 10/3/11	Mon 10/1/12														
234	Collect field explorations	90 days	Mon 10/3/11	Mon 12/26/11	235													
235	Conduct geotechnical evaluation	90 days	Mon 12/26/11	Mon 3/19/12	234	236												
236	Develop Basis of Design Report	30 days	Mon 3/19/12	Mon 4/16/12	235	237												
237	Develop Plans & Specifications	180 days	Mon 4/16/12	Mon 10/1/12	236	239												
238	Pre-Construction	96.25 days	Mon 10/1/12	Sat 12/29/12														
239	Project Bid	41.25 days	Mon 10/1/12	Thu 11/8/12	237	240												
240	Award Task Order	8.75 days	Thu 11/8/12	Fri 11/16/12	239	241												
241	Construction Contract Awarded	0 days	Fri 11/16/12	Fri 11/16/12	240	242FS+6.25 days												
242	Issue NTP	0 days	Thu 11/22/12	Thu 11/22/12	241FS+6.25 days	243FS+1.25 days												

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2																
243	NTP Acknowledged	0 days	Fri 11/23/12	Fri 11/23/12 242FS+1.25 days	244																				
244	Pre-Con Meeting	1.25 days	Fri 11/23/12	Sat 11/24/12 243	245																				
245	Prepare Pre-Construction Submittals	28.75 days	Sat 11/24/12	Fri 12/21/12 244	246SS																				
246	Corps Approve Pre-Construction Submittals	37.5 days	Sat 11/24/12	Sat 12/29/12 245SS																					
247	Construction	249.5 days	Mon 4/1/13	Tue 11/19/13																					
248	Levees & Floodwalls	198.75 days	Mon 4/1/13	Thu 10/3/13																					
249	Levees	198.75 days	Mon 4/1/13	Thu 10/3/13																					
250	Site Mobilization - Levees	18 days	Mon 4/1/13	Wed 4/17/13	251,304SS																				
251	Haul Roads & Drainage	6 days	Wed 4/17/13	Tue 4/23/13 250	252SS	maintain for full duration of levee constr																			
252	SWPP Installation - Levees	13 days	Wed 4/17/13	Mon 4/29/13 251SS		full duration of levee constr																			
253	Clearing & Grubbing	5 days	Wed 5/1/13	Mon 5/6/13	254SS+2 days, 282SS																				
254	Levee Stripping	16 days	Thu 5/2/13	Fri 5/17/13 253SS+2 days	255SS+2 days	2 crews																			
255	Levee Degrading	31 days	Sat 5/4/13	Mon 6/3/13 254SS+2 days	262SS+2 days	2 crews																			
256	Site Mobilization - Borrow Areas	18 days	Wed 5/1/13	Fri 5/17/13	257																				
257	Haul Roads & Drainage - Borrow Areas	5 days	Fri 5/17/13	Wed 5/22/13 256	258SS	full duration of borrow area use																			
258	SWPP Installation - Borrow Areas	2 days	Fri 5/17/13	Mon 5/20/13 257SS		full duration of borrow area use																			
259	Surface Layer Removal & Stockpile - Borrow Areas	5 days	Mon 7/1/13	Fri 7/5/13 260SS-2 days		0.66 AC/hr, 4 scrapers																			
260	Excavation & Hauling - Borrow Areas	70 days	Wed 7/3/13	Fri 9/6/13 264SS	259SS-2 days																				
261	Site Mobilization - Slurry Wall	18 days	Fri 4/19/13	Mon 5/6/13 262SS-18 days	299SS, 265SS+ days																				
262	Slurry Wall Construction	90 days	Mon 5/6/13	Mon 7/29/13 255SS+2 days	261SS-18 days, 308SS, 268 days, 263SS+12	2 rigs/crews																			
263	Embankment Fill, from Levee Degrading	50 days	Fri 5/17/13	Wed 7/3/13 262SS+12 days	264	2 crews																			
264	Embankment Fill, from Borrow	70 days	Wed 7/3/13	Fri 9/6/13 263	260SS, 271, 269	2 crews																			
265	Site Mobilization - Jet Grouting	18 days	Wed 5/1/13	Fri 5/17/13 261SS+12 days																					
266	Jet Grouting Construction	60 days	Fri 5/17/13	Fri 7/12/13 262SS+12 days	267, 312SS+12 days, 320SS+55 days, 321SS+55	assume start about 2 weeks after slurry wall																			
267	Demob - Jet Grouting	12 days	Fri 7/12/13	Wed 7/24/13 266																					
268	Demob - Slurry Wall	12 days	Mon 7/29/13	Fri 8/9/13 262																					
269	Bike Trail (at Levee Crown)	10 days	Fri 9/6/13	Mon 9/16/13 264	274,270FF+6 days																				
270	Revegetation/Hydroseed	18 days	Wed 9/4/13	Sat 9/21/13 269FF+6 days		3.72 AC/day																			
271	Surface Layer Restoration - Borrow Areas	5 days	Fri 9/6/13	Wed 9/11/13 264	272																				
272	Demob - Borrow Areas	6 days	Wed 9/11/13	Tue 9/17/13 271	273																				

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AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
273	Site Cleanup/Finish Work - Borrow Areas	6 days	Tue 9/17/13	Mon 9/23/13	272																					
274	Weather Delays	6.25 days	Mon 9/16/13	Sat 9/21/13	269	275																				
275	Demob - Levee Areas	6 days	Sat 9/21/13	Fri 9/27/13	274	276																				
276	Site Cleanup/Finish Work - Levee Areas	6 days	Fri 9/27/13	Thu 10/3/13	275	339FF																				
277	Pumping Plants & Relocations	249.5 days	Mon 4/1/13	Tue 11/19/13																						
278	Roads, Construction Activities	248.25 days	Tue 4/2/13	Tue 11/19/13																						
279	Site Mobilization - for Rd Relocations	15 days	Tue 4/2/13	Tue 4/16/13																						
280	Paving Demo	34 days	Wed 5/1/13	Sat 6/1/13																						
281	Demolition	34 days	Wed 5/1/13	Sat 6/1/13																						
282	Arden-Garden Connector	8 days	Wed 5/1/13	Wed 5/8/13	253SS	283																				
283	Bike Trail at Levee Crown	23 days	Wed 5/8/13	Wed 5/29/13	282	284																				
284	East Levee Road	3 days	Wed 5/29/13	Sat 6/1/13	283	287FF																				
285	Dead End Roads	5 days	Wed 5/1/13	Mon 5/6/13		286	about 2 days each but will be done as levee improvement passes thru area																			
286	Natoma Street	2 days	Mon 5/6/13	Tue 5/7/13	285		will be done as levee improvement passes thru area																			
287	Northgate Blvd	6 days	Mon 5/27/13	Sat 6/1/13	284FF		will be done as levee improvement passes thru area																			
288	Road Surfacing	64 days	Fri 9/6/13	Tue 11/5/13																						
289	Site Work	64 days	Fri 9/6/13	Tue 11/5/13																						
290	Arden-Garden Connector	40 days	Fri 9/6/13	Mon 10/14/13	264	291																				
291	Bike Trail at Levee Crown	12 days	Mon 10/14/13	Fri 10/25/13	290	292																				
292	East Levee Road	12 days	Fri 10/25/13	Tue 11/5/13	291	296																				
293	Dead End Roads	10 days	Fri 9/6/13	Mon 9/16/13	264		about 2 days each but will be done as levee improvement passes thru area																			
294	Natoma Street	5 days	Fri 9/6/13	Wed 9/11/13	264		will be done as levee improvement passes thru area																			
295	Northgate Blvd	15 days	Fri 9/6/13	Fri 9/20/13	264		will be done as levee improvement passes thru area																			
296	Site Demobilization - for Rd Relocations	15 days	Tue 11/5/13	Tue 11/19/13	292	341FF,342FF																				
297	Bridge Modifications, W El Camino	205 days	Fri 4/19/13	Mon 10/28/13																						
298	Site Work	205 days	Fri 4/19/13	Mon 10/28/13																						
299	Mob for Bridge Work	15 days	Fri 4/19/13	Fri 5/3/13	261SS	300																				
300	Bridge Modifications, W El Camino	180 days	Fri 5/3/13	Fri 10/18/13	299	301																				
301	Demob for Bridge Work	10 days	Fri 10/18/13	Mon 10/28/13	300																					
302	Cemeteries, Utils, Structures	241.5 days	Mon 4/1/13	Tue 11/12/13																						
303	Utils	241.5 days	Mon 4/1/13	Tue 11/12/13																						

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
304	Site Mobilization - for Util Relocations	18 days	Mon 4/1/13	Wed 4/17/13	250SS	306																				
305	Electrical	56 days	Wed 4/17/13	Sat 6/8/13																						
306	Utility Poles	56 days	Wed 4/17/13	Sat 6/8/13	304		1/day																			
307	Utility Crossing Relocations	45 days	Mon 5/6/13	Mon 6/17/13																						
308	6" Gas Main	30 days	Mon 5/6/13	Mon 6/3/13	262SS	309SS,310SS																				
309	8" Water Main	30 days	Mon 5/6/13	Mon 6/3/13	308SS																					
310	Fiber Optic Line	45 days	Mon 5/6/13	Mon 6/17/13	308SS																					
311	PP - Sump 102	77 days	Wed 5/29/13	Thu 8/8/13			Sta ~59+80																			
312	Demo	8 days	Wed 5/29/13	Wed 6/5/13	266SS+12 days	313	expected to commence about 10 days before levee construction reaches this point																			
313	Earthwork	5 days	Wed 6/5/13	Mon 6/10/13	312	315																				
314	Roads	4 days	Mon 8/5/13	Thu 8/8/13	318																					
315	Pipes	8 days	Mon 6/10/13	Mon 6/17/13	313	316SS																				
316	Positive Closure Vault	30 days	Mon 6/10/13	Mon 7/8/13	315SS	317																				
317	Pumps & Motors	30 days	Mon 7/8/13	Mon 8/5/13	316	318FF																				
318	Power & Controls	30 days	Mon 7/8/13	Mon 8/5/13	317FF	314																				
319	RD 1000, PP No 8	124 days	Mon 7/8/13	Thu 10/31/13			Sta ~178+00																			
320	Temporary Fencing	5 days	Mon 7/8/13	Fri 7/12/13	266SS+55 days		expected to commence about 10 days before levee construction reaches this point																			
321	Asphalt Removal	1 day	Mon 7/8/13	Tue 7/9/13	266SS+55 days	333SS																				
322	Excavate, Fill & Compact	5 days	Fri 7/26/13	Wed 7/31/13	333	323																				
323	Remove Existing WSP	1 day	Wed 7/31/13	Thu 8/1/13	322	324																				
324	Positive Closure Vault	60 days	Thu 8/1/13	Thu 9/26/13	323	325,327																				
325	Closure Valve, 54-IN	3 days	Thu 9/26/13	Sat 9/28/13	324	326																				
326	Dismantling Joint, 54-IN	2 days	Sat 9/28/13	Tue 10/1/13	325																					
327	Closure Valve, 36-IN	3 days	Thu 9/26/13	Sat 9/28/13	324	328																				
328	Dismantling Joint, 36-IN	2 days	Sat 9/28/13	Tue 10/1/13	327	329																				
329	Siphon Breakers	2 days	Tue 10/1/13	Wed 10/2/13	328	330																				
330	Backfill	1 day	Wed 10/2/13	Thu 10/3/13	329	331,332																				
331	ABC	1 day	Thu 10/3/13	Fri 10/4/13	330																					
332	Electrical Control Equipment	30 days	Thu 10/3/13	Thu 10/31/13	330	334																				
333	Locate & Relocate Utils prior to excavation	20 days	Mon 7/8/13	Fri 7/26/13	321SS	322																				
334	Site Demobilization - for Util Relocations	12 days	Thu 10/31/13	Tue 11/12/13	332																					

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
335	Fish & Wildlife Facilities	150 days	Thu 5/16/13	Thu 10/3/13																						
336	Wildlife Facilities & Sanctuaries	150 days	Thu 5/16/13	Thu 10/3/13																						
337	Dry Creek	150 days	Thu 5/16/13	Thu 10/3/13																						
338	Woodland Corridor & Enhancement	150 days	Thu 5/16/13	Thu 10/3/13																						
339	Mob, Prep Work, Planting & Irrigation, Demob	150 days	Thu 5/16/13	Thu 10/3/13	276FF		sans O&M																			
340	Engineering during Construction, S&A and Construction Completion	249 days	Mon 4/1/13	Tue 11/19/13																						
341	Engineering During Construction	249 days	Mon 4/1/13	Tue 11/19/13	296FF																					
342	Supervision and Administration	249 days	Mon 4/1/13	Tue 11/19/13	296FF	343FF																				
343	Construction Completion	0 days	Tue 11/19/13	Tue 11/19/13	342FF	345																				
344	Inspection and Construction per Punch List	8.75 days	Tue 11/19/13	Wed 11/27/13																						
345	PreFinal Inspection	1.25 days	Tue 11/19/13	Wed 11/20/13	343	346																				
346	Contractor Implement Punch List Items	6.25 days	Wed 11/20/13	Tue 11/26/13	345	347																				
347	Final Inspection	1.25 days	Tue 11/26/13	Wed 11/27/13	346	348,350																				
348	Construction Physical Completion	0 days	Wed 11/27/13	Wed 11/27/13	347	351																				
349	Project Closeout	133 days	Wed 11/27/13	Tue 4/1/14																						
350	Construction Prepares Project Completion Letter	6.25 days	Wed 11/27/13	Tue 12/3/13	347																					
351	Contractors Complete As-Builts	28.75 days	Wed 11/27/13	Tue 12/24/13	348	352																				
352	Submit As-Builts	1.25 days	Tue 12/24/13	Wed 12/25/13	351	353																				
353	Notice of Completion/Assumption of OMRR&R	0 days	Wed 12/25/13	Wed 12/25/13	352																					
354	Project Fiscally Complete	0 days	Tue 4/1/14	Tue 4/1/14																						
355	Construction Contract 4- Reach I	976.25 days	Mon 10/3/11	Tue 4/1/14																						
356	Design	390 days	Mon 10/3/11	Mon 10/1/12																						
357	Collect field explorations	90 days	Mon 10/3/11	Mon 12/26/11		358																				
358	Conduct geotechnical evaluation	90 days	Mon 12/26/11	Mon 3/19/12	357	359																				
359	Develop Basis of Design Report	30 days	Mon 3/19/12	Mon 4/16/12	358	360																				
360	Develop Plans & Specifications	180 days	Mon 4/16/12	Mon 10/1/12	359																					
361	Pre-Construction	96.25 days	Mon 10/1/12	Sat 12/29/12																						
362	Project Bid	41.25 days	Mon 10/1/12	Thu 11/8/12		363																				
363	Award Task Order	8.75 days	Thu 11/8/12	Fri 11/16/12	362	364																				
364	Construction Contract Awarded	0 days	Fri 11/16/12	Fri 11/16/12	363		365FS+6.25 days																			
365	Issue NTP	0 days	Thu 11/22/12	Thu 11/22/12	364FS+6.25 days	366FS+1.25 days																				
366	NTP Acknowledged	0 days	Fri 11/23/12	Fri 11/23/12	365FS+1.25 days	367																				

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
367	Pre-Con Meeting	1.25 days	Fri 11/23/12	Sat 11/24/12	366	368																				
368	Prepare Pre-Construction Submittals	28.75 days	Sat 11/24/12	Fri 12/21/12	367	369SS																				
369	Corps Approve Pre-Constructon Submittals	37.5 days	Sat 11/24/12	Sat 12/29/12	368SS																					
370	Construction	188 days	Mon 4/1/13	Mon 9/23/13																						
371	Levees & Floodwalls	188 days	Mon 4/1/13	Mon 9/23/13		424FF,425FF																				
372	Levees	188 days	Mon 4/1/13	Mon 9/23/13																						
373	Site Mobilization - Levees	15 days	Mon 4/1/13	Mon 4/15/13		374,407SS																				
374	Haul Roads & Drainage	3.75 days	Mon 4/15/13	Thu 4/18/13	373	375SS																				
375	Care & Diversion of Water - Erosion Control - SWPC	1.25 days	Fri 9/6/13	Sat 9/7/13	374SS,397FF		full duration of levee constr																			
376	Clearing & Grubbing	5 days	Wed 5/1/13	Mon 5/6/13		377SS+2.5 days																				
377	Levee Stripping	8.75 days	Fri 5/3/13	Sat 5/11/13	376SS+2.5 days	378SS+2.5 days																				
378	Levee Degrading	42.5 days	Mon 5/6/13	Fri 6/14/13	377SS+2.5 days	379SS,386SS+1 days																				
379	Temporary Fill, Placement	42.5 days	Mon 5/6/13	Fri 6/14/13	378SS																					
380	Site Mobilization - Borrow Areas	15 days	Tue 5/21/13	Tue 6/4/13	385SS+25 days	381																				
381	Haul Roads & Drainage - Borrow Areas	3.75 days	Tue 6/4/13	Fri 6/7/13	380	382SS																				
382	Care & Diversion of Water - Erosion Control - SWPC - Borrow Areas	1.25 days	Sat 9/21/13	Mon 9/23/13	381SS,396FF		full duration of borrow area use																			
383	Surface Layer Removal & Stockpile - Borrow Areas	5 days	Tue 7/30/13	Sat 8/3/13	384SS-2.5 days																					
384	Excavation & Hauling - Borrow Areas	35 days	Thu 8/1/13	Tue 9/3/13	388SS	383SS-2.5 days																				
385	Site Mobilization - Slurry Wall	15 days	Sat 4/27/13	Sat 5/11/13	386SS-15 days	380SS+25 days																				
386	Slurry Wall Construction	67 days	Sat 5/11/13	Fri 7/12/13	378SS+6.25 days	385SS-15 days,411SS,38 days,388FF+12																				
387	Embankment Fill, from Levee Degrading	46.25 days	Wed 6/19/13	Thu 8/1/13	386FF+21 days	388,391FF,392, days																				
388	Emankment Fill, from Borrow	35 days	Thu 8/1/13	Tue 9/3/13	386FF+12.5 days,387	384SS,389,390																				
389	Demob - Slurry Wall	15 days	Tue 9/3/13	Tue 9/17/13	388																					
390	Temporary Fill, Removal	15 days	Tue 8/20/13	Tue 9/3/13	388FF	393,397																				
391	Maintenance Road - ABC	12.5 days	Sat 7/20/13	Thu 8/1/13	387FF																					
392	Revegetation/Hydroseed	8.75 days	Thu 8/1/13	Fri 8/9/13	387																					
393	Surface Layer Restoration - Borrow Areas	5 days	Tue 9/3/13	Sat 9/7/13	390	394																				
394	Weather Delays	6.25 days	Sat 9/7/13	Fri 9/13/13	393	395																				
395	Demob - Borrow Areas	5 days	Fri 9/13/13	Wed 9/18/13	394	396																				
396	Site Cleanup/Finish Work - Borrow Areas	5 days	Wed 9/18/13	Mon 9/23/13	395	382FF																				

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ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2																
397	Demob - Levee Areas	5 days	Tue 9/3/13	Sat 9/7/13	390	375FF,398																			
398	Site Cleanup/Finish Work - Levee Areas	5 days	Sat 9/7/13	Thu 9/12/13	397																				
399	Pumping Plants & Relocations	165.75 days	Mon 4/1/13	Mon 9/2/13																					
400	Roads, Construction Activities	149.25 days	Mon 4/1/13	Sat 8/17/13																					
401	Site Mobilization - for Rd Relocations	15 days	Mon 4/1/13	Mon 4/15/13		402																			
402	Demo Pavement	20 days	Mon 4/15/13	Fri 5/3/13	401																				
403	AC Pavement	10 days	Thu 7/25/13	Sat 8/3/13	387FF+2.5 days	404																			
404	Site Demobilization - for Rd Relocations	15 days	Sat 8/3/13	Sat 8/17/13	403																				
405	Cemeteries, Utils, Structures	165.75 days	Mon 4/1/13	Mon 9/2/13																					
406	Utils	165.75 days	Mon 4/1/13	Mon 9/2/13																					
407	Site Mobilization - for Util Relocations	15 days	Mon 4/1/13	Mon 4/15/13	373SS	409																			
408	Electrical	40 days	Mon 4/15/13	Wed 5/22/13																					
409	Utility Poles	40 days	Mon 4/15/13	Wed 5/22/13	407		1/day																		
410	Utility Crossing Relocations	45 days	Sat 5/11/13	Sat 6/22/13																					
411	Mechanical	45 days	Sat 5/11/13	Sat 6/22/13	386SS	412SS																			
412	Electrical	45 days	Sat 5/11/13	Sat 6/22/13	411SS																				
413	Pump Station Rehab	87 days	Thu 5/30/13	Mon 8/19/13																					
414	PP - Sump 58	87 days	Thu 5/30/13	Mon 8/19/13			Sta ~70+00																		
415	Demo	12 days	Thu 5/30/13	Mon 6/10/13	386SS+20 days	416	expected to commence about 15 days before levee construction reaches this point																		
416	Earthwork	6 days	Mon 6/10/13	Sat 6/15/13	415	418																			
417	Roads	4 days	Thu 8/15/13	Mon 8/19/13	421	422																			
418	Pipes	5 days	Sat 6/15/13	Thu 6/20/13	416	419																			
419	Positive Closure Vault	30 days	Thu 6/20/13	Thu 7/18/13	418	420																			
420	Pumps & Motors	30 days	Thu 7/18/13	Thu 8/15/13	419	421FF																			
421	Power & Controls	30 days	Thu 7/18/13	Thu 8/15/13	420FF	417																			
422	Site Demobilization - for Util Relocations	15 days	Mon 8/19/13	Mon 9/2/13	417																				
423	Engineering during Construction, S&A and Construction Completion	188 days	Mon 4/1/13	Mon 9/23/13																					
424	Engineering During Construction	188 days	Mon 4/1/13	Mon 9/23/13	371FF																				
425	Supervision and Administration	188 days	Mon 4/1/13	Mon 9/23/13	371FF	426FF																			
426	Construction Completion	0 days	Mon 9/23/13	Mon 9/23/13	425FF	428																			
427	Inspection and Construction per Punch List	8.75 days	Mon 9/23/13	Tue 10/1/13																					

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE										Fri 8/13/10															
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2				
428	PreFinal Inspection	1.25 days	Mon 9/23/13	Tue 9/24/13 426		429																			
429	Contractor Implement Punch List Items	6.25 days	Tue 9/24/13	Mon 9/30/13 428		430																			
430	Final Inspection	1.25 days	Mon 9/30/13	Tue 10/1/13 429		431,433																			
431	Construction Physical Completion	0 days	Tue 10/1/13	Tue 10/1/13 430		434																			
432	Project Closeout	194.5 days	Tue 10/1/13	Tue 4/1/14																					
433	Construction Prepares Project Completion Letter	6.25 days	Tue 10/1/13	Mon 10/7/13 430																					
434	Contractors Complete As-Builts	28.75 days	Tue 10/1/13	Mon 10/28/13 431		435																			
435	Submit As-Builts	1.25 days	Mon 10/28/13	Tue 10/29/13 434		436																			
436	Notice of Completion/Assumption of OMRR&R	0 days	Tue 10/29/13	Tue 10/29/13 435																					
437	Project Fiscally Complete	0 days	Tue 4/1/14	Tue 4/1/14																					
438	Construction Contract 5 - Reach E	977.5 days	Mon 10/1/12	Wed 4/1/15																					
439	Design	390 days	Mon 10/1/12	Mon 9/30/13																					
440	Collect field explorations	90 days	Mon 10/1/12	Mon 12/24/12		441																			
441	Conduct geotechnical evaluation	90 days	Mon 12/24/12	Mon 3/18/13 440		442																			
442	Develop Basis of Design Report	30 days	Mon 3/18/13	Mon 4/15/13 441		443																			
443	Develop Plans & Specifications	180 days	Mon 4/15/13	Mon 9/30/13 442																					
444	Pre-Construction	96.25 days	Tue 10/1/13	Mon 12/30/13																					
445	Project Bid	41.25 days	Tue 10/1/13	Fri 11/8/13		446																			
446	Award Task Order	8.75 days	Fri 11/8/13	Sat 11/16/13 445		447																			
447	Construction Contract Awarded	0 days	Sat 11/16/13	Sat 11/16/13 446		448FS+6.25 days																			
448	Issue NTP	0 days	Fri 11/22/13	Fri 11/22/13 447FS+6.25 days		449FS+1.25 days																			
449	NTP Acknowledged	0 days	Sat 11/23/13	Sat 11/23/13 448FS+1.25 days		450																			
450	Pre-Con Meeting	1.25 days	Sat 11/23/13	Mon 11/25/13 449		451																			
451	Prepare Pre-Construction Submittals	28.75 days	Mon 11/25/13	Sat 12/21/13 450		452SS																			
452	Corps Approve Pre-Construction Submittals	37.5 days	Mon 11/25/13	Mon 12/30/13 451SS																					
453	Construction	223.5 days	Tue 4/1/14	Sat 10/25/14																					
454	Levees & Floodwalls	185.75 days	Tue 4/1/14	Sat 9/20/14																					
455	Levees	185.75 days	Tue 4/1/14	Sat 9/20/14																					
456	Site Mobilization - Levees	18 days	Tue 4/1/14	Thu 4/17/14		457,496SS																			
457	Haul Roads & Drainage	6 days	Thu 4/17/14	Wed 4/23/14 456		458SS																			
458	SWPP Installation - Levees	12 days	Wed 8/20/14	Sat 8/30/14 457SS,479FF			full duration of levee constr																		
459	Clearing & Grubbing (also tree removal)	20 days	Thu 5/1/14	Tue 5/20/14		460SS+2 days																			
460	Levee Stripping	21 days	Fri 5/2/14	Thu 5/22/14 459SS+2 days		469SS+2 days,461SS+2																			

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
461	Levee Degrading	15 days	Mon 5/5/14	Mon 5/19/14	460SS+2 days																				
462	Site Mobilization - Borrow Areas	15 days	Tue 4/29/14	Tue 5/13/14	468SS+12 days	463																			
463	Haul Roads & Drainage - Borrow Areas	5 days	Tue 5/13/14	Sat 5/17/14	462	464																			
464	SWPP Installation - Borrow Areas	2 days	Sat 5/17/14	Tue 5/20/14	463	465	full duration of borrow area use																		
465	Surface Layer Removal & Stockpile - Borrow Areas	46 days	Tue 5/20/14	Tue 7/1/14	464		double crews																		
466	Excavation & Hauling - Borrow Areas	84 days	Wed 5/21/14	Thu 8/7/14	469FF+21 days		double crews																		
467	Vinyl Sheet Pile	80 days	Sat 5/24/14	Thu 8/7/14	470FF																				
468	Site Mobilization - Slurry Wall	18 days	Thu 4/17/14	Mon 5/5/14	469SS-18 days	462SS+12 days, 491SS																			
469	Slurry Wall Construction	81 days	Mon 5/5/14	Sat 7/19/14	460SS+2 days	466FF+21 days, 468SS-18 days, 470FF+21	double rig/crews																		
470	Embankment Fill, from Borrow	84 days	Wed 5/21/14	Thu 8/7/14	469FF+21 days	467FF, 475FF+21 days	double crews																		
471	Demob - Slurry Wall	12 days	Thu 8/7/14	Tue 8/19/14	470																				
472	Quarry Stone	46 days	Thu 6/26/14	Thu 8/7/14	470FF																				
473	Maintenance Road - ABC	22 days	Fri 7/18/14	Thu 8/7/14	470FF																				
474	Revegetation/Hydroseed	20 days	Thu 8/7/14	Tue 8/26/14	470	479																			
475	Surface Layer Restoration - Borrow Areas	45 days	Sat 7/19/14	Sat 8/30/14	470FF+25 days	476	double crews																		
476	Weather Delays	6.25 days	Sat 8/30/14	Fri 9/5/14	475	477																			
477	Demob - Borrow Areas	6 days	Fri 9/5/14	Thu 9/11/14	476	478																			
478	Site Cleanup/Finish Work - Borrow Areas	10 days	Thu 9/11/14	Sat 9/20/14	477																				
479	Demob - Levee Areas	5 days	Tue 8/26/14	Sat 8/30/14	474	458FF, 480																			
480	Site Cleanup/Finish Work - Levee Areas	5 days	Sat 8/30/14	Thu 9/4/14	479																				
481	Relocations	223.5 days	Tue 4/1/14	Sat 10/25/14																					
482	Roads, Construction Activities	223.5 days	Tue 4/1/14	Sat 10/25/14																					
483	Roads	223.5 days	Tue 4/1/14	Sat 10/25/14																					
484	Site Mobilization - for Rd Relocations	18 days	Tue 4/1/14	Thu 4/17/14																					
485	Howsley Road	30 days	Thu 8/7/14	Thu 9/4/14	470																				
486	Fifeld Road	5 days	Thu 8/7/14	Tue 8/12/14	470																				
487	Natomas Rd	73 days	Thu 8/7/14	Wed 10/15/14	470	489																			
488	Access Road (at berm adjacent to canal relocation)	25 days	Thu 8/7/14	Sat 8/30/14	470																				
489	Site Demobilization - for Rd Relocations	12 days	Wed 10/15/14	Sat 10/25/14	487	512FF, 513FF																			
490	Bridge Modifications, Howsley Rd & Fifeld Rd	200 days	Thu 4/17/14	Tue 10/21/14																					

CESPK AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2																
491	Mob for Bridge Work	15 days	Thu 4/17/14	Thu 5/1/14 468SS	492																				
492	Bridge Modifications, Howsley Road	120 days	Thu 5/1/14	Thu 8/21/14 491	494,493SS+60 days																				
493	Bridge Modifications, Fifeld Road	120 days	Thu 6/26/14	Thu 10/16/14 492SS+60 days	494																				
494	Demob for Bridge Work	5 days	Thu 10/16/14	Tue 10/21/14 492,493																					
495	Utils	197.5 days	Tue 4/1/14	Thu 10/2/14																					
496	Site Mobilization - for Util Relocations	15 days	Tue 4/1/14	Tue 4/15/14 456SS	498,508																				
497	Electrical	35 days	Tue 4/15/14	Sat 5/17/14																					
498	Utility Poles	35 days	Tue 4/15/14	Sat 5/17/14 496		1/day																			
499	Utility Crossing Relocations	42.5 days	Mon 5/5/14	Fri 6/13/14																					
500	Culverts	32.5 days	Mon 5/5/14	Wed 6/4/14 469SS	501																				
501	12" Discharge Pipe	10 days	Wed 6/4/14	Fri 6/13/14 500																					
502	Private Irrigation Relocations	150 days	Thu 5/1/14	Thu 9/18/14																					
503	Brookfield	90 days	Thu 5/1/14	Thu 7/24/14	504,505SS																				
504	Linn	30 days	Thu 7/24/14	Thu 8/21/14 503																					
505	Odysseus	120 days	Thu 5/1/14	Thu 8/21/14 503SS	506																				
506	Kaufman	30 days	Thu 8/21/14	Thu 9/18/14 505	510																				
507	Canal Relocations	15 days	Tue 4/15/14	Tue 4/29/14																					
508	Drainage Canal Relocations	10 days	Tue 4/15/14	Thu 4/24/14 496	509																				
509	Irrigation Canal Relocations	5 days	Thu 4/24/14	Tue 4/29/14 508																					
510	Site Demobilization - for Util Relocations	15 days	Thu 9/18/14	Thu 10/2/14 506																					
511	Engineering during Construction, S&A and Construction Completion	223.5 days	Tue 4/1/14	Sat 10/25/14																					
512	Engineering During Construction	223.5 days	Tue 4/1/14	Sat 10/25/14 489FF																					
513	Supervision and Administration	223.5 days	Tue 4/1/14	Sat 10/25/14 489FF	514FF																				
514	Construction Completion	0 days	Sat 10/25/14	Sat 10/25/14 513FF	516																				
515	Inspection and Construction per Punch List	8.75 days	Sat 10/25/14	Mon 11/3/14																					
516	PreFinal Inspection	1.25 days	Sat 10/25/14	Mon 10/27/14 514	517																				
517	Contractor Implement Punch List Items	6.25 days	Mon 10/27/14	Sat 11/1/14 516	518																				
518	Final Inspection	1.25 days	Sat 11/1/14	Mon 11/3/14 517	519,521																				
519	Construction Physical Completion	0 days	Mon 11/3/14	Mon 11/3/14 518	522																				
520	Project Closeout	159 days	Mon 11/3/14	Wed 4/1/15																					
521	Construction Prepares Project Completion Letter	6.25 days	Mon 11/3/14	Sat 11/8/14 518																					

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AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018			
								H1	H2																		
522	Contractors Complete As-Builts	28.75 days	Mon 11/3/14	Sat 11/29/14 519	523																						
523	Submit As-Builts	1.25 days	Sat 11/29/14	Mon 12/1/14 522	524																						
524	Notice of Completion/Assumption of OMRR&R	0 days	Mon 12/1/14	Mon 12/1/14 523																							
525	Project Fiscally Complete	0 days	Wed 4/1/15	Wed 4/1/15																							
526	Construction Contract 6 Reach F	977.5 days	Mon 10/1/12	Wed 4/1/15			Sta 426+30 to 678+85 - Sankey Road to Elverta Road - Work involves levee improvements and/or																				
527	Design	390 days	Mon 10/1/12	Mon 9/30/13																							
528	Collect field explorations	90 days	Mon 10/1/12	Mon 12/24/12	529																						
529	Conduct geotechnical evaluation	90 days	Mon 12/24/12	Mon 3/18/13 528	530																						
530	Develop Basis of Design Report	30 days	Mon 3/18/13	Mon 4/15/13 529	531																						
531	Develop Plans & Specifications	180 days	Mon 4/15/13	Mon 9/30/13 530																							
532	Pre-Construction	96.25 days	Tue 10/1/13	Mon 12/30/13																							
533	Project Bid	41.25 days	Tue 10/1/13	Fri 11/8/13	534																						
534	Award Task Order	8.75 days	Fri 11/8/13	Sat 11/16/13 533	535																						
535	Construction Contract Awarded	0 days	Sat 11/16/13	Sat 11/16/13 534	536FS+6.25 days																						
536	Issue NTP	0 days	Fri 11/22/13	Fri 11/22/13 535FS+6.25 days	537FS+1.25 days																						
537	NTP Acknowledged	0 days	Sat 11/23/13	Sat 11/23/13 536FS+1.25 days	538																						
538	Pre-Con Meeting	1.25 days	Sat 11/23/13	Mon 11/25/13 537	539																						
539	Prepare Pre-Construction Submittals	28.75 days	Mon 11/25/13	Sat 12/21/13 538	540SS																						
540	Corps Approve Pre-Constructon Submittals	37.5 days	Mon 11/25/13	Mon 12/30/13 539SS																							
541	Construction	215 days	Tue 4/1/14	Sat 10/18/14																							
542	Levees & Floodwalls	198 days	Tue 4/1/14	Thu 10/2/14																							
543	Levees	198 days	Tue 4/1/14	Thu 10/2/14																							
544	Site Mobilization - Levees - 1	15 days	Tue 4/1/14	Tue 4/15/14	545,547,548																						
545	Haul Roads & Drainage	3.75 days	Tue 4/15/14	Fri 4/18/14 544	546																						
546	Care & Diversion of Water - Erosion Control - SWPC	1.25 days	Sat 9/20/14	Mon 9/22/14 545,566FF		full duration of levee constr																					
547	Demo, Commercial Building	40 days	Tue 4/15/14	Thu 5/22/14 544																							
548	Demo, Homes	25 days	Tue 4/15/14	Thu 5/8/14 544																							
549	Clearing & Grubbing, Levee Stripping (plus tree removal)	22 days	Thu 5/1/14	Wed 5/21/14	550SS+2.5 days																						
550	Levee Degrading	30 days	Sat 5/3/14	Sat 5/31/14 549SS+2.5 days	556SS+2.5 days,557SS+6.1																						
551	Site Mobilization - Borrow Areas	15 days	Thu 5/1/14	Thu 5/15/14	552																						
552	Haul Roads & Drainage - Borrow Areas	5 days	Thu 5/15/14	Tue 5/20/14 551	553SS																						
553	Care & Diversion of Water - Erosion Control - SWPC - Borrow Areas	1.25 days	Wed 10/1/14	Thu 10/2/14 552SS,565FF		full duration of borrow area use																					

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
554	Surface Layer Removal & Stockpile - Borrow Areas	85 days	Fri 4/25/14	Mon 7/14/14 557FF-6.25 days	555SS+2.5 days	double crews																							
555	Excavation & Hauling - Borrow Areas	128 days	Mon 4/28/14	Mon 8/25/14 554SS+2.5 days		double crews																							
556	Site Mobilization - Slurry Wall - Season 1	15 days	Tue 5/6/14	Tue 5/20/14 550SS+2.5 days																									
557	Slurry Wall Construction	76.5 days	Fri 5/9/14	Sat 7/19/14 550SS+6.25 days	554FF-6.25 days, 558FF+39 days	double crews																							
558	Emankment Fill, from Borrow	129 days	Sat 4/26/14	Mon 8/25/14 557FF+39 days	562FF+25 days, 559, 561, 562	double crews																							
559	Demob - Slurry Wall - Season 1	15 days	Mon 8/25/14	Mon 9/8/14 558																									
560	Maintenance Road - ABC	15 days	Sat 8/16/14	Sat 8/30/14 558FF+6.25 days																									
561	Revegetation/Hydroseed	25 days	Mon 8/25/14	Wed 9/17/14 558	563, 566																								
562	Surface Layer Restoration - Borrow Areas - Season 1	52.5 days	Wed 7/30/14	Wed 9/17/14 558FF+25 days		double crews																							
563	Weather Delays	6.25 days	Wed 9/17/14	Tue 9/23/14 561	564																								
564	Demob - Borrow Areas	5 days	Tue 9/23/14	Sat 9/27/14 563	565																								
565	Site Cleanup/Finish Work - Borrow Areas	5 days	Sat 9/27/14	Thu 10/2/14 564	553FF																								
566	Demob - Levee Areas	5 days	Wed 9/17/14	Mon 9/22/14 561	546FF, 567																								
567	Site Cleanup/Finish Work - Levee Areas	5 days	Mon 9/22/14	Fri 9/26/14 566																									
568	Relocations	215 days	Tue 4/1/14	Sat 10/18/14	604FF, 605FF																								
569	Roads, Construction Activities	215 days	Tue 4/1/14	Sat 10/18/14																									
570	Site Mobilization - for Rd Relocations	15 days	Tue 4/1/14	Tue 4/15/14	579, 573																								
571	Road Surfacing	130 days	Tue 4/15/14	Thu 8/14/14																									
572	Site Work	130 days	Tue 4/15/14	Thu 8/14/14																									
573	Private Driveways	50 days	Tue 4/15/14	Sat 5/31/14 570	574																								
574	Natomas Road	80 days	Sat 5/31/14	Thu 8/14/14 573	576																								
575	Access Road (at berm adjacent to canal relocation)	25 days	Fri 5/23/14	Mon 6/16/14 595																									
576	Site Demobilization - for Rd Relocations	15 days	Thu 8/14/14	Thu 8/28/14 574																									
577	Bridge Modifications, Riego Rd & Elverta Rd	200 days	Tue 4/15/14	Sat 10/18/14																									
578	Site Work	200 days	Tue 4/15/14	Sat 10/18/14																									
579	Mob for Bridge Work	15 days	Tue 4/15/14	Tue 4/29/14 570	580																								
580	Bridge Modifications, Riego Rd	120 days	Tue 4/29/14	Tue 8/19/14 579	582, 581SS+60 days																								
581	Bridge Modifications, Elverta Rd	120 days	Tue 6/24/14	Tue 10/14/14 580SS+60 days	582																								
582	Demob for Bridge Work	5 days	Tue 10/14/14	Sat 10/18/14 581, 580																									
583	Cemeteries, Utils, Structures	187.5 days	Tue 4/1/14	Tue 9/23/14																									

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																			
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018				
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
584	Utils	187.5 days	Tue 4/1/14	Tue 9/23/14																								
585	Site Mobilization - for Util Relocations	15 days	Tue 4/1/14	Tue 4/15/14		587																						
586	Electrical	68 days	Tue 4/15/14	Tue 6/17/14																								
587	Utility Poles	68 days	Tue 4/15/14	Tue 6/17/14	585	602	1/day																					
588	Utility Crossing Relocations	150 days	Thu 5/1/14	Thu 9/18/14																								
589	Schiedel	30 days	Thu 5/1/14	Thu 5/29/14		590																						
590	De Wit	30 days	Thu 5/29/14	Thu 6/26/14	589	591																						
591	Calif Sunshine Fisheries	30 days	Thu 6/26/14	Thu 7/24/14	590	592																						
592	Odysseus	30 days	Thu 7/24/14	Thu 8/21/14	591	593																						
593	Family Real Properties	30 days	Thu 8/21/14	Thu 9/18/14	592	602																						
594	Canal Relocations	24 days	Thu 5/1/14	Fri 5/23/14																								
595	Reiego Rd Canal Relocations	24 days	Thu 5/1/14	Fri 5/23/14		575																						
596	Stripping	2 days	Thu 5/1/14	Fri 5/2/14		598																						
597	Compacted Embankment	7 days	Thu 5/15/14	Wed 5/21/14	601	600																						
598	Excavation to Stockpile	6 days	Fri 5/2/14	Thu 5/8/14	596	599																						
599	Field Irrigation Turnouts	2 days	Thu 5/8/14	Sat 5/10/14	598	601																						
600	Erosion Control Seeding	2 days	Wed 5/21/14	Fri 5/23/14	597																							
601	Misc Sitework	5 days	Sat 5/10/14	Thu 5/15/14	599	597																						
602	Site Demob - for Util Relocations	5 days	Thu 9/18/14	Tue 9/23/14	587,593																							
603	Engineering during Construction, S&A and Construction Completion	215 days	Tue 4/1/14	Sat 10/18/14																								
604	Engineering During Construction	215 days	Tue 4/1/14	Sat 10/18/14	568FF																							
605	Supervision and Administration	215 days	Tue 4/1/14	Sat 10/18/14	568FF	606FF																						
606	Construction Completion	0 days	Sat 10/18/14	Sat 10/18/14	605FF	608																						
607	Inspection and Construction per Punch List	8.75 days	Sat 10/18/14	Mon 10/27/14																								
608	PreFinal Inspection	1.25 days	Sat 10/18/14	Mon 10/20/14	606	609																						
609	Contractor Implement Punch List Items	6.25 days	Mon 10/20/14	Sat 10/25/14	608	610																						
610	Final Inspection	1.25 days	Sat 10/25/14	Mon 10/27/14	609	611,613																						
611	Construction Physical Completion	0 days	Mon 10/27/14	Mon 10/27/14	610	614																						
612	Project Closeout	167.5 days	Mon 10/27/14	Wed 4/1/15																								
613	Construction Prepares Project Completion Letter	6.25 days	Mon 10/27/14	Sat 11/1/14	610																							
614	Contractors Complete As-Builts	28.75 days	Mon 10/27/14	Sat 11/22/14	611	615																						

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE										Fri 8/13/10															
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2
615	Submit As-Builts	1.25 days	Sat 11/22/14	Mon 11/24/14 614		616																			
616	Notice of Completion/Assumption of OMRR&R	0 days	Mon 11/24/14	Mon 11/24/14 615																					
617	Project Fiscally Complete	0 days	Wed 4/1/15	Wed 4/1/15																					
618	Construction Contract 7 - Reach G	978.75 days	Tue 10/1/13	Fri 4/1/16			Sta 237+00 to 426+30 - Elverta Road to NEMDC Pump Station - Work involves levee improvements																		
619	Design	390 days	Tue 10/1/13	Tue 9/30/14																					
620	Collect field explorations	90 days	Tue 10/1/13	Tue 12/24/13		621																			
621	Conduct geotechnical evaluation	90 days	Tue 12/24/13	Tue 3/18/14 620		622																			
622	Develop Basis of Design Report	30 days	Tue 3/18/14	Tue 4/15/14 621		623																			
623	Develop Plans & Specifications	180 days	Tue 4/15/14	Tue 9/30/14 622																					
624	Pre-Construction	96.25 days	Wed 10/1/14	Tue 12/30/14																					
625	Project Bid	41.25 days	Wed 10/1/14	Sat 11/8/14		626																			
626	Award Task Order	8.75 days	Sat 11/8/14	Mon 11/17/14 625		627																			
627	Construction Contract Awarded	0 days	Mon 11/17/14	Mon 11/17/14 626		628FS+6.25 days																			
628	Issue NTP	0 days	Sat 11/22/14	Sat 11/22/14 627FS+6.25 days		629FS+1.25 days																			
629	NTP Acknowledged	0 days	Mon 11/24/14	Mon 11/24/14 628FS+1.25 days		630																			
630	Pre-Con Meeting	1.25 days	Mon 11/24/14	Tue 11/25/14 629		631																			
631	Prepare Pre-Construction Submittals	28.75 days	Tue 11/25/14	Mon 12/22/14 630		632SS																			
632	Corps Approve Pre-Construction Submittals	37.5 days	Tue 11/25/14	Tue 12/30/14 631SS																					
633	Construction	189.5 days	Wed 4/1/15	Thu 9/24/15																					
634	Levees & Floodwalls	189.5 days	Wed 4/1/15	Thu 9/24/15		695FF,696FF																			
635	Levees	189.5 days	Wed 4/1/15	Thu 9/24/15																					
636	Site Mobilization - Levees	15 days	Wed 4/1/15	Wed 4/15/15		637,639,673SS																			
637	Haul Roads & Drainage	3.75 days	Wed 4/15/15	Sat 4/18/15 636		638SS																			
638	Care & Diversion of Water - Erosion Control - SWPC	1.25 days	Thu 9/3/15	Fri 9/4/15 637SS,657FF			full duration of levee constr																		
639	Demo, Homes	40 days	Wed 4/15/15	Fri 5/22/15 636																					
640	Clearing & Grubbing, Levee Stripping (plus tree removal)	32 days	Fri 5/1/15	Sat 5/30/15		641SS+2.5 days																			
641	Levee Degrading	27 days	Mon 5/4/15	Thu 5/28/15 640SS+2.5 days	648SS+6.25 days																				
642	Site Mobilization - Borrow Areas	15 days	Tue 5/19/15	Tue 6/2/15 647SS+25 days	643,645																				
643	Haul Roads & Drainage - Borrow Areas	5 days	Tue 6/2/15	Sat 6/6/15 642	644SS																				
644	Care & Diversion of Water - Erosion Control - SWPC - Borrow Areas	1.25 days	Wed 9/23/15	Thu 9/24/15 643SS,656FF			full duration of borrow area use																		
645	Surface Layer Removal & Stockpile - Borrow Areas	60 days	Tue 6/2/15	Tue 7/28/15 642																					
646	Excavation & Hauling - Borrow Areas	107 days	Sat 5/9/15	Mon 8/17/15 648FF+38 days		double crew																			

CESPK

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018			
								H1	H2																		
647	Site Mobilization - Slurry Wall	15 days	Sat 4/25/15	Sat 5/9/15	648SS-15 days	642SS+25 days																					
648	Slurry Wall Construction	69 days	Sat 5/9/15	Mon 7/13/15	641SS+6.25 days	646FF+38 days,647SS-15 days,649FF+38	double rigs/cres																				
649	Emankment Fill, from Borrow	107 days	Sat 5/9/15	Mon 8/17/15	648FF+38 days	653FF+25 days,650FF,652	double crew																				
650	Maintenance Road - ABC	12.5 days	Wed 8/5/15	Mon 8/17/15	649FF																						
651	Demob - Slurry Wall	15 days	Mon 7/13/15	Mon 7/27/15	648																						
652	Revegetation/Hydroseed	15 days	Mon 8/17/15	Mon 8/31/15	649	657																					
653	Surface Layer Restoration - Borrow Areas	60 days	Wed 7/15/15	Wed 9/9/15	649FF+25 days	654	double crews																				
654	Weather Delays	6.25 days	Wed 9/9/15	Tue 9/15/15	653	655																					
655	Demob - Borrow Areas	5 days	Tue 9/15/15	Sat 9/19/15	654	656																					
656	Site Cleanup/Finish Work - Borrow Areas	5 days	Sat 9/19/15	Thu 9/24/15	655	644FF																					
657	Demob - Levee Areas	5 days	Mon 8/31/15	Fri 9/4/15	652	638FF,658																					
658	Site Cleanup/Finish Work - Levee Areas	5 days	Fri 9/4/15	Wed 9/9/15	657																						
659	Pumping Plants & Relocations	185 days	Wed 4/1/15	Mon 9/21/15																							
660	Roads, Construction Activities	185 days	Wed 4/1/15	Mon 9/21/15																							
661	Site Mobilization - for Rd Relocations	15 days	Wed 4/1/15	Wed 4/15/15		662																					
662	Private Driveways	115 days	Wed 4/15/15	Fri 7/31/15	661																						
663	Natomas Road	80 days	Fri 6/12/15	Wed 8/26/15	649FF	665																					
664	Access Road (at berm adjacent to canal relocation)	42 days	Fri 5/15/15	Tue 6/23/15	692																						
665	Site Demobilization - for Rd Relocations	15 days	Wed 8/26/15	Wed 9/9/15	663																						
666	Bridge Modifications	170 days	Wed 4/15/15	Mon 9/21/15																							
667	Site Work	170 days	Wed 4/15/15	Mon 9/21/15																							
668	Mob for Bridge Work	15 days	Wed 4/15/15	Wed 4/29/15		669																					
669	Bridge Modifications, Elkhorn Blvd	150 days	Wed 4/29/15	Wed 9/16/15	668	670																					
670	Demob for Bridge Work	5 days	Wed 9/16/15	Mon 9/21/15	669																						
671	Cemeteries, Utils, Structures	161.25 days	Wed 4/1/15	Sat 8/29/15																							
672	Utils	161.25 days	Wed 4/1/15	Sat 8/29/15																							
673	Site Mobilization - for Util Relocations	15 days	Wed 4/1/15	Wed 4/15/15	636SS	692,675,677																					
674	Electrical	51 days	Wed 4/15/15	Mon 6/1/15																							
675	Utility Poles	51 days	Wed 4/15/15	Mon 6/1/15	673	693	1/day																				
676	Utility Crossing Relocations	128.75 days	Fri 5/1/15	Sat 8/29/15																							

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
677	Well Relocations	120 days	Fri 5/1/15	Fri 8/21/15 673	693																								
678	Avids	30 days	Fri 5/1/15	Fri 5/29/15	679																								
679	Cayocca	30 days	Fri 5/29/15	Fri 6/26/15 678	680																								
680	Driggs	30 days	Fri 6/26/15	Fri 7/24/15 679	681																								
681	Hendrix	30 days	Fri 7/24/15	Fri 8/21/15 680																									
682	PP - No 6	100 days	Thu 5/28/15	Sat 8/29/15			Sta ~362+50																						
683	Demo	21 days	Thu 5/28/15	Tue 6/16/15 648SS+20 days	684		expected to commence about 25 days before levee construction reaches this point																						
684	Earthwork	5 days	Tue 6/16/15	Sat 6/20/15 683	686																								
685	Roads	4 days	Tue 8/25/15	Sat 8/29/15 690	688FF																								
686	Pipes	10 days	Sat 6/20/15	Tue 6/30/15 684	687																								
687	Positive Closure Vault	30 days	Tue 6/30/15	Tue 7/28/15 686	689																								
688	Security Fence	3 days	Wed 8/26/15	Sat 8/29/15 685FF																									
689	Pumps & Motors	30 days	Tue 7/28/15	Tue 8/25/15 687	690FF																								
690	Power & Controls	30 days	Tue 7/28/15	Tue 8/25/15 689FF	685																								
691	Canal Relocations	32.5 days	Wed 4/15/15	Fri 5/15/15																									
692	Drainage Canal Relocations	32.5 days	Wed 4/15/15	Fri 5/15/15 673	664																								
693	Site Demob - for Util Relocations	5 days	Fri 8/21/15	Wed 8/26/15 675,677																									
694	Engineering during Construction, S&A and Construction Completion	189 days	Wed 4/1/15	Thu 9/24/15																									
695	Engineering During Construction	189 days	Wed 4/1/15	Thu 9/24/15 634FF																									
696	Supervision and Administration	189 days	Wed 4/1/15	Thu 9/24/15 634FF	697FF																								
697	Construction Completion	0 days	Thu 9/24/15	Thu 9/24/15 696FF	699																								
698	Inspection and Construction per Punch List	8.75 days	Thu 9/24/15	Fri 10/2/15																									
699	PreFinal Inspection	1.25 days	Thu 9/24/15	Fri 9/25/15 697	700																								
700	Contractor Implement Punch List Items	6.25 days	Fri 9/25/15	Thu 10/1/15 699	701																								
701	Final Inspection	1.25 days	Thu 10/1/15	Fri 10/2/15 700	702,704																								
702	Construction Physical Completion	0 days	Fri 10/2/15	Fri 10/2/15 701	705																								
703	Project Closeout	194.25 days	Fri 10/2/15	Fri 4/1/16																									
704	Construction Prepares Project Completion Letter	6.25 days	Fri 10/2/15	Thu 10/8/15 701																									
705	Contractors Complete As-Builts	28.75 days	Fri 10/2/15	Thu 10/29/15 702	706																								
706	Submit As-Builts	1.25 days	Thu 10/29/15	Fri 10/30/15 705	707																								
707	Notice of Completion/Assumption of OMRR&R	0 days	Fri 10/30/15	Fri 10/30/15 706																									

CESPK

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018		
								H1	H2																	
708	Project Fiscally Complete	0 days	Fri 4/1/16	Fri 4/1/16																					◆ 4/1	
709	Construction Contract 8 - Reaches B, C, and D (utility relocations)	978.75 days	Wed 10/1/14	Sat 4/1/17			Work consists of required changes to Pumping Plants in Reaches B, C & D. Gaps were left in the cutoff.																			
710	Design	390 days	Wed 10/1/14	Wed 9/30/15																						
711	Collect field explorations	90 days	Wed 10/1/14	Wed 12/24/14		712																				
712	Conduct geotechnical evaluation	90 days	Wed 12/24/14	Wed 3/18/15	711	713																				
713	Develop Basis of Design Report	30 days	Wed 3/18/15	Wed 4/15/15	712	714																				
714	Develop Plans & Specifications	180 days	Wed 4/15/15	Wed 9/30/15	713																					
715	Pre-Construction	96.25 days	Sat 10/3/15	Fri 1/1/16																						
716	Project Bid	41.25 days	Sat 10/3/15	Wed 11/11/15		717																				
717	Award Task Order	8.75 days	Wed 11/11/15	Thu 11/19/15	716	718																				
718	Construction Contract Awarded	0 days	Thu 11/19/15	Thu 11/19/15	717	719FS+6.25 days																				
719	Issue NTP	0 days	Wed 11/25/15	Wed 11/25/15	718FS+6.25 days	720FS+1.25 days																				
720	NTP Acknowledged	0 days	Thu 11/26/15	Thu 11/26/15	719FS+1.25 days	721																				
721	Pre-Con Meeting	1.25 days	Thu 11/26/15	Fri 11/27/15	720	722																				
722	Prepare Pre-Construction Submittals	28.75 days	Fri 11/27/15	Thu 12/24/15	721	723SS																				
723	Corps Approve Pre-Constructon Submittals	37.5 days	Fri 11/27/15	Fri 1/1/16	722SS																					
724	Construction	245.06 days	Fri 4/1/16	Wed 11/16/16																						
725	Levees, fill slurry wall gaps	199.56 days	Fri 4/1/16	Tue 10/4/16																						
726	Mobilization	18 days	Fri 4/1/16	Mon 4/18/16																						
727	Reach B	100.13 days	Mon 5/2/16	Wed 8/3/16																						
728	Elkhorn PP	78.81 days	Mon 5/2/16	Thu 7/14/16																						
729	Clearing & Grubbing	1 day	Mon 5/2/16	Mon 5/2/16	730																					
730	Stripping	1 day	Mon 5/2/16	Tue 5/3/16	729	731																				
731	Levee Degrading	2 days	Tue 5/3/16	Thu 5/5/16	730	733																				
732	Levee Fill	3 days	Thu 6/16/16	Sat 6/18/16	733FS+21 days	734																				
733	Cutoff Wall	10 days	Thu 5/5/16	Fri 5/27/16	731	732FS+21 days,740FS+2																				
734	Revegetation	1 day	Mon 6/20/16	Thu 7/14/16	732																					
735	RD 1000, PP No 5	75.13 days	Wed 5/25/16	Wed 8/3/16																						
736	Clearing & Grubbing	1 day	Wed 5/25/16	Wed 5/25/16	737																					
737	Stripping	1 day	Wed 5/25/16	Thu 5/26/16	736	738																				
738	Levee Degrading	2 days	Thu 5/26/16	Sat 5/28/16	737																					

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
739	Levee Fill	3 days	Wed 7/6/16	Sat 7/9/16	740FS+21 days	741																							
740	Cutoff Wall	5 days	Mon 5/30/16	Thu 6/16/16	733FS+2 days	739FS+21 days,748FS+2																							
741	Revegetation	1 day	Sat 7/9/16	Wed 8/3/16	739																								
742	Reach C	75.19 days	Tue 6/14/16	Tue 8/23/16																									
743	Prichard PP & RD 1000, PP No 2	75.19 days	Tue 6/14/16	Tue 8/23/16																									
744	Clearing & Grubbing	1 day	Tue 6/14/16	Tue 6/14/16		745																							
745	Stripping	1 day	Tue 6/14/16	Wed 6/15/16	744	746																							
746	Levee Degrading	2 days	Wed 6/15/16	Fri 6/17/16	745																								
747	Levee Fill	3 days	Tue 7/26/16	Fri 7/29/16	748FS+21 days	749																							
748	Cutoff Wall	5 days	Sat 6/18/16	Wed 7/6/16	740FS+2 days	747FS+21 days,810,817,7																							
749	Revegetation	1 day	Fri 7/29/16	Tue 8/23/16	747																								
750	Reach D	99.56 days	Mon 7/4/16	Tue 10/4/16																									
751	Bennett PP	75.25 days	Mon 7/4/16	Mon 9/12/16																									
752	Clearing & Grubbing	1 day	Mon 7/4/16	Mon 7/4/16		753																							
753	Stripping	1 day	Mon 7/4/16	Tue 7/5/16	752	754																							
754	Levee Degrading	2 days	Tue 7/5/16	Thu 7/7/16	753																								
755	Levee Fill	3 days	Mon 8/15/16	Thu 8/18/16	756FS+21 days	757																							
756	Cutoff Wall	5 days	Fri 7/8/16	Tue 7/26/16	748FS+2 days	755FS+21 days,763FS+2																							
757	Revegetation	1 day	Thu 8/18/16	Mon 9/12/16	755	765																							
758	Northern PP	77.06 days	Mon 7/25/16	Tue 10/4/16																									
759	Clearing & Grubbing	1 day	Mon 7/25/16	Mon 7/25/16		760																							
760	Stripping	1 day	Mon 7/25/16	Tue 7/26/16	759	761																							
761	Levee Degrading	2 days	Tue 7/26/16	Thu 7/28/16	760																								
762	Levee Fill	3 days	Wed 9/7/16	Fri 9/9/16	763FS+21 days	764																							
763	Cutoff Wall	8 days	Thu 7/28/16	Thu 8/18/16	756FS+2 days	762FS+21 days,847																							
764	Revegetation	1 day	Fri 9/9/16	Tue 10/4/16	762																								
765	Demobilization	12 days	Mon 9/12/16	Thu 9/22/16	757																								
766	Pumping Plants & Relocations	245.06 days	Fri 4/1/16	Wed 11/16/16		857FF,856FF																							
767	Mobilization	18 days	Fri 4/1/16	Mon 4/18/16																									
768	Reach B	138.63 days	Mon 5/2/16	Thu 9/8/16																									
769	W Drainage Canal (EOPC)	47.5 days	Mon 5/2/16	Wed 6/15/16																									

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																			
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018				
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
770	Demolition	12.5 days	Mon 5/2/16	Fri 5/13/16																								
771	Clearing & Grubbing	3.75 days	Mon 5/2/16	Thu 5/5/16		772																						
772	Stripping	11.25 days	Thu 5/5/16	Mon 5/16/16	771	773SS+2.5 days																						
773	Excavation	25 days	Sat 5/7/16	Tue 5/31/16	772SS+2.5 days	774																						
774	Fill	10 days	Tue 5/31/16	Thu 6/9/16	773	775																						
775	Demob	6.25 days	Thu 6/9/16	Wed 6/15/16	774																							
776	Elkhorn PP	100.56 days	Sat 5/14/16	Tue 8/16/16																								
777	Demo	5 days	Sat 5/14/16	Thu 5/19/16		778																						
778	Earthwork	8 days	Thu 5/19/16	Thu 5/26/16	777	780																						
779	Roads	4 days	Wed 8/10/16	Sat 8/13/16	784	782FF,785																						
780	Pipes	14 days	Fri 5/27/16	Thu 6/9/16	778,733	781SS	follows cutoff wall placement																					
781	Positive Closure & Flow Meter Vaults	40 days	Fri 5/27/16	Mon 7/4/16	780SS	783																						
782	Pump Platform Rehabilitation	15 days	Mon 8/1/16	Sat 8/13/16	779FF																							
783	Pumps & Motors	40 days	Mon 7/4/16	Wed 8/10/16	781	784FF																						
784	Power & Controls	30 days	Wed 7/13/16	Wed 8/10/16	783FF	779																						
785	Bank Stabilization	2 days	Mon 8/15/16	Tue 8/16/16	779																							
786	Riverside PP, Phase 2	108 days	Mon 5/2/16	Wed 8/10/16			assumption is this takes place after the Riverside Canal work																					
787	Demo	17 days	Mon 5/2/16	Tue 5/17/16		788																						
788	Earthwork	2 days	Tue 5/17/16	Thu 5/19/16	787	790																						
789	Roads	4 days	Tue 8/2/16	Fri 8/5/16	794	792FF,795																						
790	Pipes	10 days	Thu 5/19/16	Sat 5/28/16	788	791SS																						
791	Positive Closure & Flow Meter Vaults	40 days	Thu 5/19/16	Sat 6/25/16	790SS	793																						
792	Security Fence	2 days	Wed 8/3/16	Fri 8/5/16	789FF																							
793	Pumps & Motors	40 days	Sat 6/25/16	Tue 8/2/16	791	794FF																						
794	Power & Controls	30 days	Tue 7/5/16	Tue 8/2/16	793FF	789																						
795	Flow Meters	5 days	Fri 8/5/16	Wed 8/10/16	789																							
796	RD 1000, PP No 5	109.88 days	Sat 5/28/16	Thu 9/8/16																								
797	Demo	17 days	Sat 5/28/16	Mon 6/13/16		798																						
798	Earthwork	2 days	Mon 6/13/16	Wed 6/15/16	797	800																						
799	Roads	4 days	Tue 8/30/16	Sat 9/3/16	804	802FF,805																						
800	Pipes	10 days	Thu 6/16/16	Sat 6/25/16	798,740	801SS	follows cutoff wall placement																					

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																				
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018					
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2		
801	Positive Closure & Flow Meter Vaults	40 days	Thu 6/16/16	Sat 7/23/16	800SS	803																							
802	Security Fence	2 days	Thu 9/1/16	Sat 9/3/16	799FF																								
803	Pumps & Motors	40 days	Sat 7/23/16	Tue 8/30/16	801	804FF																							
804	Power & Controls	30 days	Tue 8/2/16	Tue 8/30/16	803FF	799																							
805	Flow Meters	5 days	Sat 9/3/16	Thu 9/8/16	799																								
806	Reach C	109.94 days	Fri 6/17/16	Wed 9/28/16																									
807	Prichard PP	40.94 days	Mon 6/27/16	Wed 8/3/16																									
808	Demo	2 days	Mon 6/27/16	Tue 6/28/16		809																							
809	Earthwork	7 days	Tue 6/28/16	Tue 7/5/16	808	810																							
810	Pipes	9 days	Wed 7/6/16	Fri 7/15/16	809,748	811SS	follows cutoff wall placement																						
811	Transition Structure	30 days	Wed 7/6/16	Wed 8/3/16	810SS	812SS																							
812	Concrete Outlet Structure	30 days	Wed 7/6/16	Wed 8/3/16	811SS																								
813	RD 1000, PP No 2	109.94 days	Fri 6/17/16	Wed 9/28/16																									
814	Demo	17 days	Fri 6/17/16	Sat 7/2/16		815																							
815	Earthwork	2 days	Sat 7/2/16	Tue 7/5/16	814	817																							
816	Roads	4 days	Mon 9/19/16	Fri 9/23/16	821	819FF,822																							
817	Pipes	10 days	Wed 7/6/16	Fri 7/15/16	815,748	818SS	follows cutoff wall placement																						
818	Positive Closure & Flow Meter Vaults	40 days	Wed 7/6/16	Fri 8/12/16	817SS	820																							
819	Security Fence	2 days	Wed 9/21/16	Fri 9/23/16	816FF																								
820	Pumps & Motors	40 days	Fri 8/12/16	Mon 9/19/16	818	821FF																							
821	Power & Controls	30 days	Mon 8/22/16	Mon 9/19/16	820FF	816																							
822	Flow Meters	5 days	Fri 9/23/16	Wed 9/28/16	816																								
823	Reach D	200.56 days	Mon 5/2/16	Fri 11/4/16																									
824	RD 1000, PP No 4	65 days	Mon 5/2/16	Fri 7/1/16																									
825	Demo	2 days	Mon 5/2/16	Tue 5/3/16		826																							
826	Earthwork	2 days	Tue 5/3/16	Thu 5/5/16	825	828																							
827	Roads	1 day	Thu 6/30/16	Fri 7/1/16	831																								
828	Concrete Footing	10 days	Thu 5/5/16	Sat 5/14/16	826	829SS																							
829	New Building	50 days	Thu 5/5/16	Tue 6/21/16	828SS	830																							
830	Pumps & Motors	10 days	Tue 6/21/16	Thu 6/30/16	829	831FF																							
831	Power & Controls	10 days	Tue 6/21/16	Thu 6/30/16	830FF	827																							

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE									Fri 8/13/10																			
ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018				
								H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	H1	H2	
832	Bennett PP	111.25 days	Fri 7/1/16	Thu 10/13/16																								
833	Demo	20 days	Fri 7/1/16	Wed 7/20/16		834																						
834	Earthwork	6 days	Wed 7/20/16	Mon 7/25/16	833	836																						
835	Roads	4 days	Sat 10/8/16	Thu 10/13/16	840	841FF																						
836	Pipes	9 days	Tue 7/26/16	Thu 8/4/16	834,756	837SS	follows cutoff wall placement																					
837	Positive Closure & Flow Meter Vaults	40 days	Tue 7/26/16	Thu 9/1/16	836SS	839,838FF,842I																						
838	Concrete Outlet Structure	30 days	Thu 8/4/16	Thu 9/1/16	837FF																							
839	Pumps & Motors	40 days	Thu 9/1/16	Sat 10/8/16	837	840FF																						
840	Power & Controls	30 days	Sat 9/10/16	Sat 10/8/16	839FF	835																						
841	Security Fence	2 days	Tue 10/11/16	Thu 10/13/16	835FF																							
842	Misc Repairs	15 days	Thu 8/18/16	Thu 9/1/16	837FF																							
843	Northern PP	113.06 days	Fri 7/22/16	Fri 11/4/16																								
844	Demo	20 days	Fri 7/22/16	Wed 8/10/16		845																						
845	Earthwork	8 days	Wed 8/10/16	Wed 8/17/16	844	847																						
846	Roads	4 days	Tue 11/1/16	Fri 11/4/16	851	852FF																						
847	Pipes	13 days	Thu 8/18/16	Tue 8/30/16	845,763	848SS	follows cutoff wall placement																					
848	Positive Closure & Flow Meter Vaults	40 days	Thu 8/18/16	Sat 9/24/16	847SS	850,849FF,853I																						
849	Concrete Outlet Structure	30 days	Sat 8/27/16	Sat 9/24/16	848FF																							
850	Pumps & Motors	40 days	Sat 9/24/16	Tue 11/1/16	848	851FF																						
851	Power & Controls	30 days	Tue 10/4/16	Tue 11/1/16	850FF	846																						
852	Security Fence	2 days	Thu 11/3/16	Fri 11/4/16	846FF	854																						
853	Misc Repairs	15 days	Sat 9/10/16	Sat 9/24/16	848FF																							
854	Demobilization	12 days	Fri 11/4/16	Wed 11/16/16	852																							
855	Engineering during Construction, S&A and Construction Completion	156 days	Thu 6/23/16	Wed 11/16/16																								
856	Engineering During Construction	156 days	Thu 6/23/16	Wed 11/16/16	766FF																							
857	Supervision and Administration	156 days	Thu 6/23/16	Wed 11/16/16	766FF	858FF																						
858	Construction Completion	0 days	Wed 11/16/16	Wed 11/16/16	857FF	860																						
859	Inspection and Construction per Punch List	8.75 days	Wed 11/16/16	Thu 11/24/16																								
860	PreFinal Inspection	1.25 days	Wed 11/16/16	Thu 11/17/16	858	861																						
861	Contractor Implement Punch List Items	6.25 days	Thu 11/17/16	Wed 11/23/16	860	862																						
862	Final Inspection	1.25 days	Wed 11/23/16	Thu 11/24/16	861	863,865																						

CESPK

AMERICAN RIVER COMMON FEATURES WRDA 1996 REMAINING SITES PROJECT SCHEDULE

Fri 8/13/10

ID	Task Name	Duration	Start	Finish	Predecessors	Successors	Notes	2010		2011		2012		2013		2014		2015		2016		2017		2018	
								H1	H2	H1	H2														
863	Construction Physical Completion	0 days	Thu 11/24/16	Thu 11/24/16 862	866																			◆ 11/24	
864	Project Closeout	137.44 days	Thu 11/24/16	Sat 4/1/17																				◆ 4/1	
865	Construction Prepares Project Completion Letter	6.25 days	Thu 11/24/16	Wed 11/30/16 862																				I	
866	Contractors Complete As-Builts	28.75 days	Thu 11/24/16	Wed 12/21/16 863	867																			◆ 12/22	
867	Submit As-Builts	1.25 days	Wed 12/21/16	Thu 12/22/16 866	868																				
868	Notice of Completion/Assumption of OMRR&R	0 days	Thu 12/22/16	Thu 12/22/16 867																					
869	Project Fiscally Complete	0 days	Sat 4/1/17	Sat 4/1/17																				◆ 4/1	

(B L A N K)



**US Army Corps
of Engineers®**

**American River Common Features Project
Natomas Post Authorization Change Report and
Interim General Reevaluation Report Design Level
Project Cost and Schedule Risk Analysis Report**

Prepared for:

U.S. Army Corps of Engineers,
Sacramento District

Prepared by:

U.S. Army Corps of Engineers
Cost Engineering Directory of Expertise, Walla Walla

September 21, 2010

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EXECUTIVE SUMMARY

Under the auspices of the US Army Corps of Engineers (USACE), Sacramento District, this report presents a recommendation for the project cost and schedule contingencies for the American River Common Features Project, Natomas Post Authorization Change Report National Economic Development Plan (Natomas Project). In compliance with Engineer Regulation (ER) 1110-2-1302 CIVIL WORKS COST ENGINEERING, dated September 15, 2008, a formal risk analysis study was conducted for the development of contingency on the total project cost. The purpose of this risk analysis study was to establish project contingencies by identifying and measuring the cost and schedule impact of project uncertainties with respect to the estimated total project cost.

The cost and schedule risk analysis relies upon information for both the National Economic Development (NED) Plan, and the Locally Preferred Plan (LPP). Due to the complexity of the estimates, and the nature of the work, the risk analysis was developed from the estimate supporting the LPP. However, the Cost and Schedule Risk Analysis Report, herein, refers to both the NED Plan and LPP costs with contingencies applied, as developed for the LPP cost estimates. For comparison purposes, the price level costs for both the NED Plan and the LPP are provided in Table ES-1 below.

Note that during the course of risk study, it became clear that risks varied between contracts and cost feature accounts. Those risk variances related to the understanding that there were construction contracts already completed, some underway, and various contracts in various stages of design and projected schedule. It was also understood that the technical construction elements varied per contracts and that the differing cost feature accounts also varied in risk. For this reason, and to better enable project management of costs per contract and feature, it was decided that the risk models should be developed at the contract and feature cost levels. Upon completion of the study, the average total contingency would then be presented, knowing that the subfeature levels carried the different studied risks and resulting contingency values.

Table ES-1. NED Plan vs. LPP Price Level Comparison

Estimate (\$1,000s)	NED Plan (\$1,000s)	LPP (\$1,000s)
Sunk Costs	\$312,433	\$326,561
Estimated Balance to Complete	\$608,054	\$637,019
Most Likely Project Cost	\$920,487	\$963,580
Balance to Complete Costs with Contingency (80% Confidence Level)	\$1,111,560	\$1,164,000

Specific to the Natomas Project (NED Plan), the most likely project cost (at price level) is estimated at approximately \$920 Million. Based on the results of the analysis, the recommended contingency is \$191 Million, or 31%, reflecting total price level project costs (including sunk costs and balance to finish) of \$1.1 Billion.

Specific to the Natomas Project (LPP), the most likely project cost (at price level) is estimated at approximately \$964 Million. Based on the results of the analysis, the recommended contingency is \$201 Million, or 31%, reflecting total price level project costs (including sunk costs and balance to finish) of \$1.2 Billion.

The PDT performed risk analysis using the *Monte Carlo* technique, producing the aforementioned contingencies and identifying key risk drivers.

The following tables portray the contingency results for both the NED and LPP based on an 80% confidence level that includes both cost and schedule risks related to dollars. This presentation is per USACE Civil Works guidance. The contingency percent is a weighted average of the contingencies determined at the contract and cost feature account level.

Table ES-2. Contingency Analysis Table (NED Plan)

Most Likely Cost Estimate	\$920,487,000	
Confidence Level	Value (\$1,000s)	Contingency (%)
50%	\$979,787	9.75%
80%	\$1,111,560	31.42%
100%	\$1,611,132	113.58%

Note: A P100 confidence level is an abstract concept for illustration only, as the nature of risk and uncertainty (specifically the presence of “unknown unknowns”) makes 100% confidence a theoretical impossibility.

Table ES-3. Contingency Analysis Table (LPP)

Most Likely Cost Estimate	\$963,580,000	
Confidence Level	Value (\$1,000s)	Contingency (%)
50%	\$1,026,435	9.87%
80%	\$1,164,100	31.48%
100%	\$1,687,076	113.58%

Note: A P100 confidence level is an abstract concept for illustration only, as the nature of risk and uncertainty (specifically the presence of “unknown unknowns”) makes 100% confidence a theoretical impossibility.

KEY FINDINGS/OBSERVATIONS RECOMMENDATIONS

The key cost risk driver identified through sensitivity analysis were Unexpected Escalation on Key Materials and Uncertainty with the Cutoff Wall for the Reach A Levees and Floodwalls, which together contribute over 31 percent of the statistical cost variance.

The key schedule risk drivers identified through sensitivity analysis were Easement Acquisition for the Reach A Relocations, Pumping Plant, and Levees and Floodwall Accounts, which contributes nearly 30 percent of the statistical schedule variance.

Recommendations, as detailed within the main report, include the implementation of cost and schedule contingencies, further iterative study of risks throughout the project life-cycle, potential mitigation throughout the PED phase, and proactive monitoring and control of risk identified in this study.

MAIN REPORT

1.0 PURPOSE

Under the auspices of the US Army Corps of Engineers (USACE), Sacramento District, this report presents a recommendation for the project cost and schedule contingencies for the American River Common Features Project, Natomas Post Authorization Change Report National Economic Development Plan.

2.0 BACKGROUND

This CSRA report is for the American River Common Features Project, Natomas Post Authorization Change Report National Economic Development Plan (Natomas Project). The project covers approximately 42 miles of levee repairs protecting the Natomas basin portion of the City of Sacramento; the levee repairs primarily focus on seepage and stability deficiency remediation. The Natomas Project is a feasibility study, that if acted upon by Congress, will lead to design and construction efforts. As discussed above, this CSRA will act as a tool for managing risks during the design and construction phases.

As a part of this effort, Sacramento District requested that the USACE Cost Engineering Directory of Expertise for Civil Works (Cost Engineering Dx) provide an agency technical review (ATR) of the cost estimate and schedule for Recommended Project Plan. That tasking also included providing a risk analysis report, substantiating the resulting contingencies.

3.0 REPORT SCOPE

The scope of the risk analysis report is to calculate and present the cost and schedule contingencies at the 80 percent confidence level using the risk analysis processes, as mandated by U.S. Army Corps of Engineers (USACE) Engineer Regulation (ER) 1110-2-1150, Engineering and Design for Civil Works, ER 1110-2-1302, Civil Works Cost Engineering, and Engineer Technical Letter 1110-2-573, Construction Cost Estimating Guide for Civil Works. The report presents the contingency results for cost risks for all project features. The study and presentation does not include consideration for life cycle costs.

3.1 Project Scope

The American River Watershed Investigation began shortly after the flood of 1986. The flood of 1986 nearly led to the inundation of the City of Sacramento. The Sacramento

District completed a feasibility study in 1991. The recommended plan from this study was a new flood control dam in the Auburn Canyon upstream of the existing Folsom Dam and Reservoir, along with levee improvements in the City of Sacramento. Congress chose not to act upon Auburn Dam and instead directed the Corps to address various aspects of this as part of a supplemental study. The Sacramento District completed this supplemental study in 1996, with essentially the same recommended plan. Again, Congress chose not to act on Auburn Dam, and instead authorized the American River Common Features Project as part of WRDA 1996, in order to start design and construction on elements that were common to all plans presented in the 1991 and 1996 studies. Common features for the most part included levee improvements on the American and Sacramento Rivers with regards to seepage and stability deficiency remediation. The authorization for the Common Features project was modified as part of WRDA 1999 to include additional levee improvements needed to work with the plan Congress choose, Folsom Dam improvements. Common Features was authorized once more in order to adjust a 902 limit, as part of the EWDA of 2004. For a more thorough discussion of the Common Features project background, refer to the main Natomas Project report.

The Natomas Project addresses levee deficiency remediation of the approximately 42 miles of levee completely surrounding the basin. The remediation includes construction of seepage cutoff walls, seepage berms, stability berms, and adjacent levees, depending on specific deficiencies in a given reach. In addition to the general remediation, there are also utilities requiring additional work, in order to remediate the seepage and stability deficiencies. Utility types are widespread but the major utility efforts involve pump station relocations and bridge improvements. Pump stations are being addressed by either completely replacing the pump station and taking outlet pipes up and over the levee, or simply replacing the pipes through the levee and including a positive closure device on the new pipes. The second option is much less expensive and preferable. However, the first option is required at various pump stations because the actual pumping plant is in the way of the necessary levee improvements.

For the Natomas Project, feasibility level geotechnical and civil designs have occurred for the seepage and stability deficiency remediation and for the utility relocations. Information from this design effort has been used in developing the cost estimate. The cost estimate has been developed using the software package MII, which is a cost estimating software package.

3.2 USACE Risk Analysis Process

The risk analysis process for this study follows the USACE Headquarters requirements as well as the guidance provided by the Cost Engineering Dx. The risk analysis process reflected within this report uses probabilistic cost and schedule risk analysis methods within the framework of the Crystal Ball software. Furthermore, the scope of the report includes the identification and communication of important steps, logic, key

assumptions, limitations, and decisions to help ensure that risk analysis results can be appropriately interpreted.

Risk analysis results are also intended to provide project leadership with contingency information for scheduling, budgeting, and project control purposes, as well as to provide tools to support decision making and risk management as the project progresses through planning and implementation. To fully recognize its benefits, cost and schedule risk analysis should be considered as an ongoing process conducted concurrent to, and iteratively with, other important project processes such as scope and execution plan development, resource planning, procurement planning, cost estimating, budgeting and scheduling.

In addition to broadly defined risk analysis standards and recommended practices, this risk analysis was performed to meet the requirements and recommendations of the following documents and sources:

- Cost and Schedule Risk Analysis Process guidance prepared by the USACE Cost Engineering Dx.
- Engineer Regulation (ER) 1110-2-1302 CIVIL WORKS COST ENGINEERING, dated September 15, 2008.
- Engineer Technical Letter (ETL) CONSTRUCTION COST ESTIMATING GUIDE FOR CIVIL WORKS, dated September 30, 2008.

4.0 METHODOLOGY / PROCESS

The risk analysis process for this study is intended to determine the probability of various cost outcomes and quantify the required contingency needed in the cost estimate to achieve any desired level of cost confidence.

In simple terms, contingency is an amount added to an estimate to allow for items, conditions or events for which the occurrence or impact is uncertain and that experience suggests will likely result in additional costs being incurred or additional time being required. The amount of contingency included in project control plans depends, at least in part, on the project leadership's willingness to accept risk of project overruns. The less risk that project leadership is willing to accept the more contingency should be applied in the project control plans. The risk of overrun is expressed, in a probabilistic context, using confidence levels.

The Cost Dx guidance for cost and schedule risk analysis generally focuses on the 80-percent level of confidence (P80) for cost contingency calculation. It should be noted

that use of P80 as a decision criteria is a risk averse approach (whereas the use of P50 would be a risk neutral approach, and use of levels less than 50 percent would be risk seeking). Thus, a P80 confidence level results in greater contingency as compared to a P50 confidence level. The selection of contingency at a particular confidence level is ultimately the decision and responsibility of the project's District and/or Division management.

The risk analysis process uses *Monte Carlo* techniques to determine probabilities and contingency. The *Monte Carlo* techniques are facilitated computationally by a commercially available risk analysis software package (Crystal Ball) that is an add-in to Microsoft Excel. Cost estimates are packaged into an Excel format and used directly for cost risk analysis purposes. The level of detail recreated in the Excel-format schedule is sufficient for risk analysis purposes that reflect the established risk register, but generally less than that of the native format.

The primary steps, in functional terms, of the risk analysis process are described in the following subsections. Risk analysis results are provided in Section 6.

4.1 Identify and Assess Risk Factors

Identifying the risk factors via the PDT is considered a qualitative process that results in establishing a risk register that serves as the document for the quantitative study using the Crystal Ball risk software. Risk factors are events and conditions that may influence or drive uncertainty in project performance. They may be inherent characteristics or conditions of the project or external influences, events, or conditions such as weather or economic conditions. Risk factors may have either favorable or unfavorable impacts on project cost and schedule.

Checklists or historical databases of common risk factors are sometimes used to facilitate risk factor identification. However, key risk factors are often unique to a project and not readily derivable from historical information. Therefore, input from the entire PDT was obtained using creative processes such as brainstorming or other facilitated risk assessment meetings.

The Sacramento District assembled a risk team comprised of key PDT members and a risk analysis representative from the Cost Engineering Dx to further augment labor, expertise and information gathering.

A meeting was held on May 11th and 12th, 2010, near the Sacramento District, USACE, with the PDT members, sponsors of the project, consultants to the district, and Sacramento and Walla Walla District facilitators. This meeting focused primarily on risk identification using brainstorming techniques, but also included some facilitated discussions based on risk factors common to projects of similar scope and geographic location. Those in attendance of this meeting can be found in Table 1 below.

Table 1. Initial Risk Register Development Meeting Attendees

Organization	Discipline
USACE	Cost Risk Facilitator
USACE	Project Manager
USACE	Civil Designer
USACE	Geotechnical Engineer
USACE	Cost Engineer
USACE	Hydraulic Engineer
USACE	GIS Specialist
USACE	Construction Engineer
USACE	Contracting Specialist
USACE	Planner
USACE	Environmental Scientist
USACE	Real Estate Specialist
Calif. DWR	Project Manager
SAFCA	Project Manager
SAFCA	Planner
URS	Administrative Support
MBK Engineers	Project Manager
MBK Engineers	Civil Designer
HDR	Civil Designer
Wood Rodgers	Civil Designer
Mead & Hunt	Civil Designer
Kleinfelder	Geotechnical Engineer

Subsequent meetings focused primarily on identifying project management and programmatic risks, risk factor assessment, and quantification; any new risk factors were also addressed during the follow-up discussions. Risk factors were identified and quantified through several face-to-face meetings, telephone calls, and email correspondence. Individuals who were involved with the follow-up discussions were the same as in the initial risk analysis work shop.

4.2 Quantify Risk Factor Impacts

During the course of risk study, it became clear that risks varied between contracts and cost feature accounts. Those risk variances related to the understanding that there were construction contracts already completed, some underway, and various contracts in various stages of design and projected schedule. It was also understood that the technical construction elements varied per contracts and that the differing cost feature accounts also varied in risk. For this reason, and to better enable project management of costs per contract and feature, it was decided that the risk models should be

developed at the contract and feature cost levels. Upon completion of the study, the average total contingency would then be presented, knowing that the subfeature levels carried the different studied risks and resulting contingency values.

The quantitative impacts of risk factors on project plans were analyzed using a combination of professional judgment, empirical data and analytical techniques. Risk factor impacts were quantified using probability distributions (density functions) because risk factors are entered into the Crystal Ball software in the form of probability density functions.

Similar to the identification and assessment process, risk factor quantification involved multiple project team disciplines and functions. However, the quantification process relied more extensively on collaboration between cost engineering and risk analysis team members with lesser inputs from other functions and disciplines. This process used an iterative approach to estimate the following elements of each risk factor:

- Maximum possible value for the risk factor
- Minimum possible value for the risk factor
- Most likely value (the statistical mode), if applicable
- Nature of the probability density function used to approximate risk factor uncertainty
- Mathematical correlations between risk factors
- Affected cost estimate and schedule elements

The resulting product from the PDT discussions is captured within a risk register as presented in section 6 for both cost and schedule risk concerns. Note that the risk register records the PDT's risk concerns, discussions related to those concerns, and potential impacts to the current cost and schedule estimates. The concerns and discussions support the team's decisions related to event likelihood, impact, and the resulting risk levels for each risk event.

4.3 Analyze Cost Estimate and Schedule Contingency

Contingency is analyzed using the Crystal Ball software, an add-in to the Microsoft Excel format of the cost estimate and schedule. *Monte Carlo* simulations are performed by applying the risk factors (quantified as probability density functions) to the appropriate estimated cost and schedule elements identified by the PDT.

Contingencies are calculated by applying only the moderate and high level risks identified for each option (i.e., low-level risks are typically not considered, but remain within the risk register to serve historical purposes as well as support follow-on risk studies as the project and risks evolve).

For the cost estimate, the contingency is calculated as the difference between the P80 cost forecast and the baseline cost estimate. Each option-specific contingency is then allocated on a civil works feature level based on the dollar-weighted relative risk of each feature as quantified by *Monte Carlo* simulation. Standard deviation is used as the feature-specific measure of risk for contingency allocation purposes. This approach results in a relatively larger portion of all the project feature cost contingency being allocated to features with relatively higher estimated cost uncertainty.

5.0 PROJECT ASSUMPTIONS

The following data sources and assumptions were used in quantifying the costs associated with the Natomas Project.

- a. The Excel file “Natomas Apr 5 2010wRISKv4” was the basis for the cost and schedule risk analyses.
- b. The cost comparisons and risk analyses performed and reflected within this report are based on design scope and estimates that are at the preconstruction engineering and design (PED) level.
- c. The schedule was analyzed for impact to the project cost in terms of uncaptured escalation (variance from OMB factors and the local market).
- d. Per the Sacramento District’s research on the comparative inflation rates between the Civil Works Construction Cost Index System (CWCCIS) rates and the local Sacramento area historical inflation rates, the typical inflation rate in the Sacramento Metro area is approximately 3%. The projected inflationary difference accounts for approximately 10% of the recommended contingency of 31%.
- e. The Cost Dx guidance generally focuses on the eighty-percent level of confidence (P80) for cost contingency calculation. For this risk analysis, the eighty-percent level of confidence (P80) was used. It should be noted that the use of P80 as a decision criteria is a moderately risk averse approach, generally resulting in higher cost contingencies. However, the P80 level of confidence also assumes a small degree of risk that the recommended contingencies may be inadequate to capture actual project costs.
- g. Low level risk impacts should be maintained in project management documentation, and reviewed at each project milestone to determine if they should be placed on the risk “watch list” for further monitoring and evaluation.

6.0 RESULTS

The cost and schedule risk analysis results are provided in the following sections. In addition to contingency calculation results, sensitivity analyses are presented to provide decision makers with an understanding of variability and the key contributors to the cause of this variability.

6.1 Risk Register

A risk register is a tool commonly used in project planning and risk analysis. The complete risk register includes low level risks, as well as additional information regarding the nature and impacts of each risk.

It is important to note that a risk register can be an effective tool for managing identified risks throughout the project life cycle. As such, it is generally recommended that risk registers be updated as the designs, cost estimates, and schedule are further refined, especially on large projects with extended schedules. Recommended uses of the risk register going forward include:

- Documenting risk mitigation strategies being pursued in response to the identified risks and their assessment in terms of probability and impact.
- Providing project sponsors, stakeholders, and leadership/management with a documented framework from which risk status can be reported in the context of project controls.
- Communicating risk management issues.
- Providing a mechanism for eliciting feedback and project control input.
- Identifying risk transfer, elimination, or mitigation actions required for implementation of risk management plans.

6.2 Cost Contingency and Sensitivity Analysis

Tables 2 and 3 provide the construction cost contingencies calculated for the P80 confidence level and rounded to the nearest thousand for both the NED Plan and LPP. The construction cost contingencies for the P50 and P100 confidence levels are also provided for illustrative purposes only. The contingency percents presented are a weighted average of the contingencies determined at the contract and cost feature account level.

At the P80 confidence level, contingency was quantified as approximately \$191 Million for the NED Plan and \$201 Million for the LPP (31% of the baseline cost estimate). For comparison, the cost contingency at the P50 and P100 confidence levels was quantified as 10% and 114% of the baseline cost estimate, respectively.

Table 2. Project Cost Contingency Summary (NED Plan)

Risk Analysis Forecast	Baseline Estimate	Total Contingency ^{1,2} (\$)	Total Contingency (%)
50% Confidence Level			
Project Cost (in 1,000s)	\$920,487	\$59,300	9.75%
80% Confidence Level			
Project Cost (in 1,000s)	\$920,487	\$191,073	31.42%
100% Confidence Level			
Project Cost (in 1,000s)	\$920,487	\$690,645	113.58%

Notes:

- 1) These figures combine uncertainty in the baseline cost estimates and schedule.
- 2) A P100 confidence level is an abstract concept for illustration only, as the nature of risk and uncertainty (specifically the presence of "unknown unknowns") makes 100% confidence a theoretical impossibility.

Table 3. Project Cost Contingency Summary (LPP)

Risk Analysis Forecast	Baseline Estimate	Total Contingency ^{1,2} (\$)	Total Contingency (%)
50% Confidence Level			
Project Cost (in 1,000s)	\$963,580	\$62,855	9.87%
80% Confidence Level			
Project Cost (in 1,000s)	\$963,580	\$200,520	31.48%
100% Confidence Level			
Project Cost (in 1,000s)	\$963,580	\$723,496	113.58%

Notes:

- 1) These figures combine uncertainty in the baseline cost estimates and schedule.
- 2) A P100 confidence level is an abstract concept for illustration only, as the nature of risk and uncertainty (specifically the presence of "unknown unknowns") makes 100% confidence a theoretical impossibility.

6.2.1 Sensitivity Analysis

Sensitivity analysis generally ranks the relative impact of each risk/opportunity as a percentage of total cost uncertainty. The Crystal Ball software uses a statistical measure (contribution to variance) that approximates the impact of each risk/opportunity contributing to variability of cost outcomes during *Monte Carlo* simulation.

Key cost drivers identified in the sensitivity analysis can be used to support development of a risk management plan that will facilitate control of risk factors and

their potential impacts throughout the project lifecycle. Together with the risk register, sensitivity analysis results can also be used to support development of strategies to eliminate, mitigate, accept or transfer key risks.

6.2.2 Sensitivity Analysis Results

The risks/opportunities considered as key or primary cost drivers are ranked in order of importance in contribution to variance bar charts. Opportunities that have a potential to reduce project cost and are shown with a negative sign; risks are shown with a positive sign to reflect the potential to increase project cost. A longer bar in the sensitivity analysis chart represents a greater potential impact to total project cost.

Figure 1 presents a sensitivity analysis for cost growth risk from the high level cost risks identified in the risk register. Likewise, Figure 2 presents a sensitivity analysis for schedule growth risk from the high level schedule risks identified in the risk register.

6.3 Schedule and Contingency Risk Analysis

Table 4 provides the schedule duration contingencies calculated for the P80 confidence level. The schedule duration contingencies for the P50 and P100 confidence levels are also provided for illustrative purposes.

Schedule duration contingency was quantified as 13 months based on the P80 level of confidence. The schedule contingencies were calculated by applying the high level schedule risks identified in the risk register for each option to the durations of critical path and near critical path tasks.

Table 4. Schedule Duration Contingency Summary (NED Plan and LPP)

Risk Analysis Forecast	Baseline Schedule Duration (months)	Contingency ¹ (months)
50% Confidence Level		
Project Duration	54.5	6.7
80% Confidence Level		
Project Duration	54.5	13.0
100% Confidence Level		
Project Duration	54.5	50.3

Notes:

- 1) The schedule was not resource loaded and contained open-ended tasks and non-zero lags (gaps in the logic between tasks) that limit the overall utility of the schedule risk analysis. These issues should be considered as limitations in the utility of the schedule contingency data presented in Table 4.
- 2) A P100 confidence level is an abstract concept for illustration only, as the nature of risk and uncertainty (specifically the presence of "unknown unknowns") makes 100% confidence a theoretical impossibility.

Figure 1. Cost Sensitivity Analysis (NED Plan and LPP)

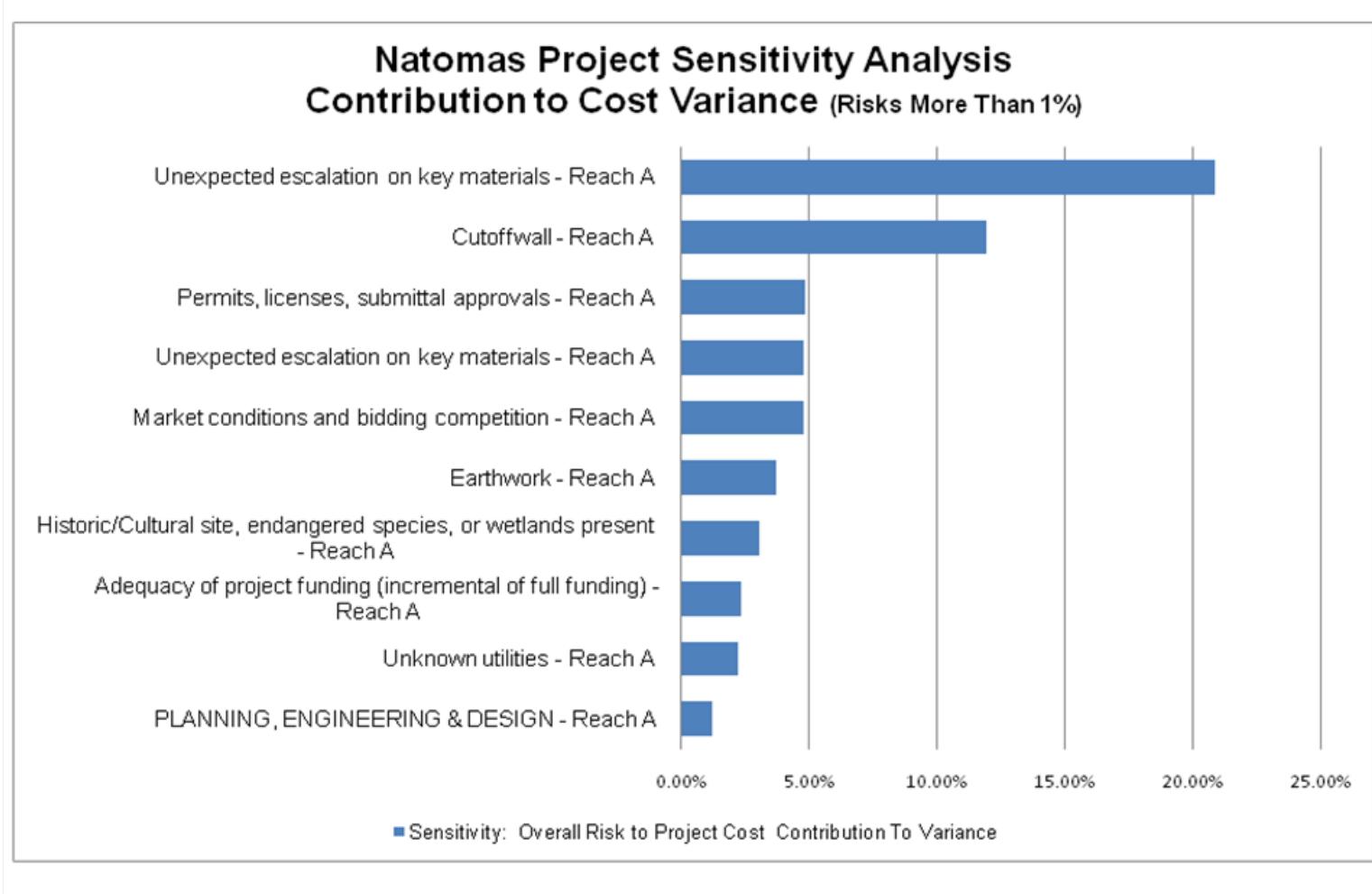
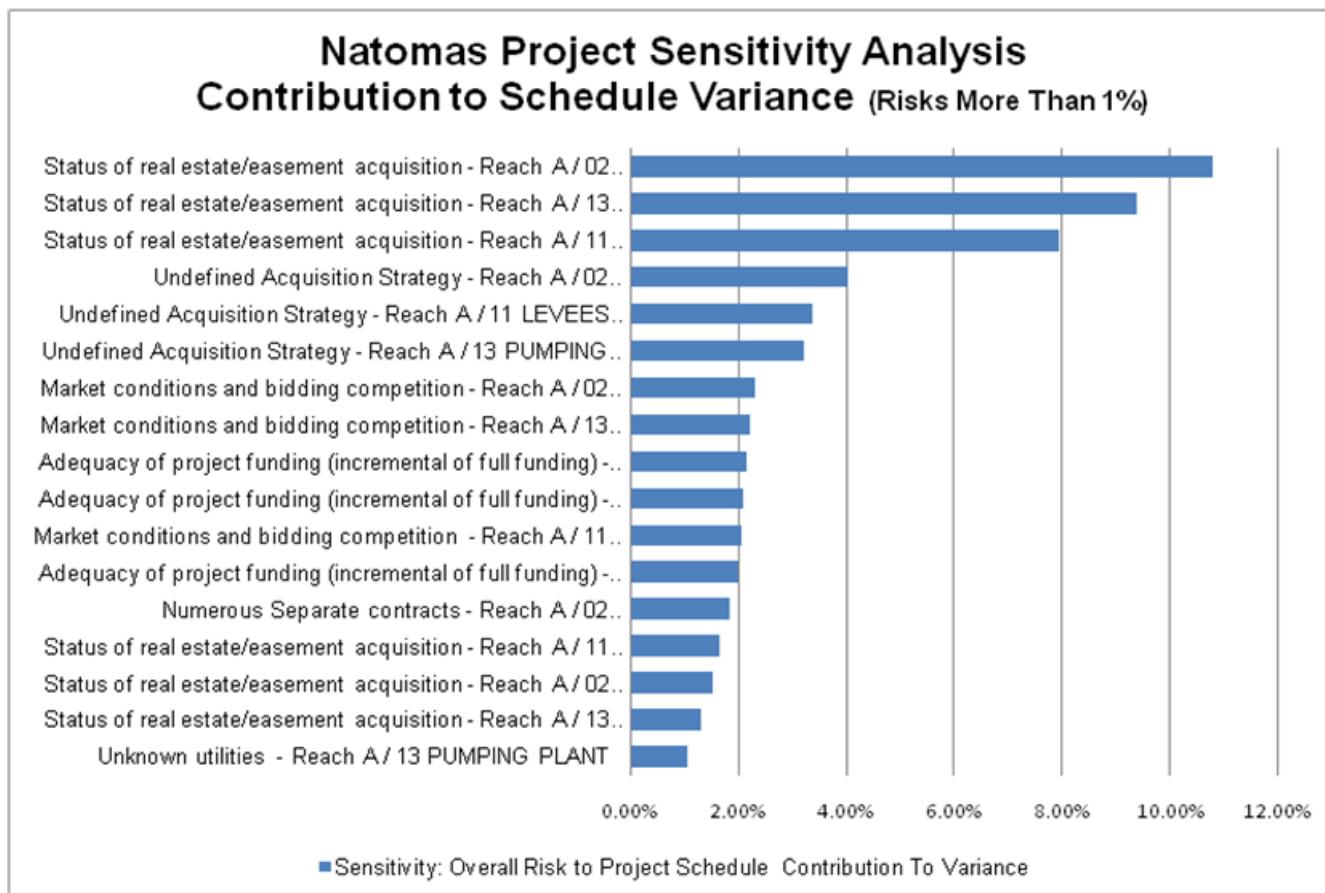


Figure 2. Schedule Sensitivity Analysis (NED Plan and LPP)



7.0 MAJOR FINDINGS/OBSERVATIONS/RECOMMENDATIONS

This section provides a summary of significant risk analysis results that are identified in the preceding sections of the report. Risk analysis results are intended to provide project leadership with contingency information for scheduling, budgeting, and project control purposes, as well as to provide tools to support decision making and risk management as projects progress through planning and implementation. Because of the potential for use of risk analysis results for such diverse purposes, this section also reiterates and highlights important steps, logic, key assumptions, limitations, and decisions to help ensure that the risk analysis results are appropriately interpreted.

7.1 Major Findings/Observations

Project cost comparison summaries are provided in Tables 5 and 6. Additional major findings and observations of the risk analysis are listed below.

1. The key cost risk driver identified through sensitivity analysis were Unexpected Escalation on Key Materials and Uncertainty with the Cutoff Wall for the Reach A Levees and Floodwalls, which together contribute over 31 percent of the statistical cost variance.
2. The key schedule risk driver identified through sensitivity analysis was Easement Acquisition for the Reach A Relocations, Pumping Plant, and Levees and Floodwall Accounts, which contributes nearly 30 percent of the statistical schedule variance.
3. The schedule was not resource loaded and contains open-ended tasks, and non-zero lags (gaps in the logic between tasks) that limit the overall utility of the schedule risk analysis. These issues should be considered as limitations in the utility of the schedule contingency data presented. Schedule contingency impacts presented in this analysis are based solely on projected “Hotel” costs. Resource impacts related to potential schedule delays could not be evaluated.
4. Operation and maintenance activities were not included in the cost estimate or schedules. Therefore, a full lifecycle risk analysis could not be performed. Risk analysis results or conclusions could be significantly different if the necessary operation and maintenance activities were included.

Table 5. Project Cost Comparison Summary – NED Plan (Federal and Non-Federal Costs)

Confidence Level	Project Cost (\$ in 1,000s)	Contingency (%)
P0	\$880,617	-6.56%
P10	\$933,081	2.07%
P20	\$945,958	4.19%
P30	\$958,360	6.23%
P40	\$970,064	8.15%
P50	\$979,787	9.75%
P60	\$994,738	12.21%
P70	\$1,039,707	19.61%
P80	\$1,111,560	31.42%
P90	\$1,179,336	42.57%
P100	\$1,611,132	113.58%

Table 6. Project Cost Comparison Summary – LPP (Federal and Non-Federal Costs)

Confidence Level	Project Cost (\$ in 1,000s)	Contingency (%)
P0	\$922,915	-6.38%
P10	\$977,503	2.19%
P20	\$991,367	4.36%
P30	\$1,004,154	6.37%
P40	\$1,015,142	8.09%
P50	\$1,026,435	9.87%
P60	\$1,041,524	12.24%
P70	\$1,088,930	19.68%
P80	\$1,164,100	31.48%
P90	\$1,235,817	42.74%
P100	\$1,687,076	113.58%

Figure 3. Project Cost Summary (NED Plan)

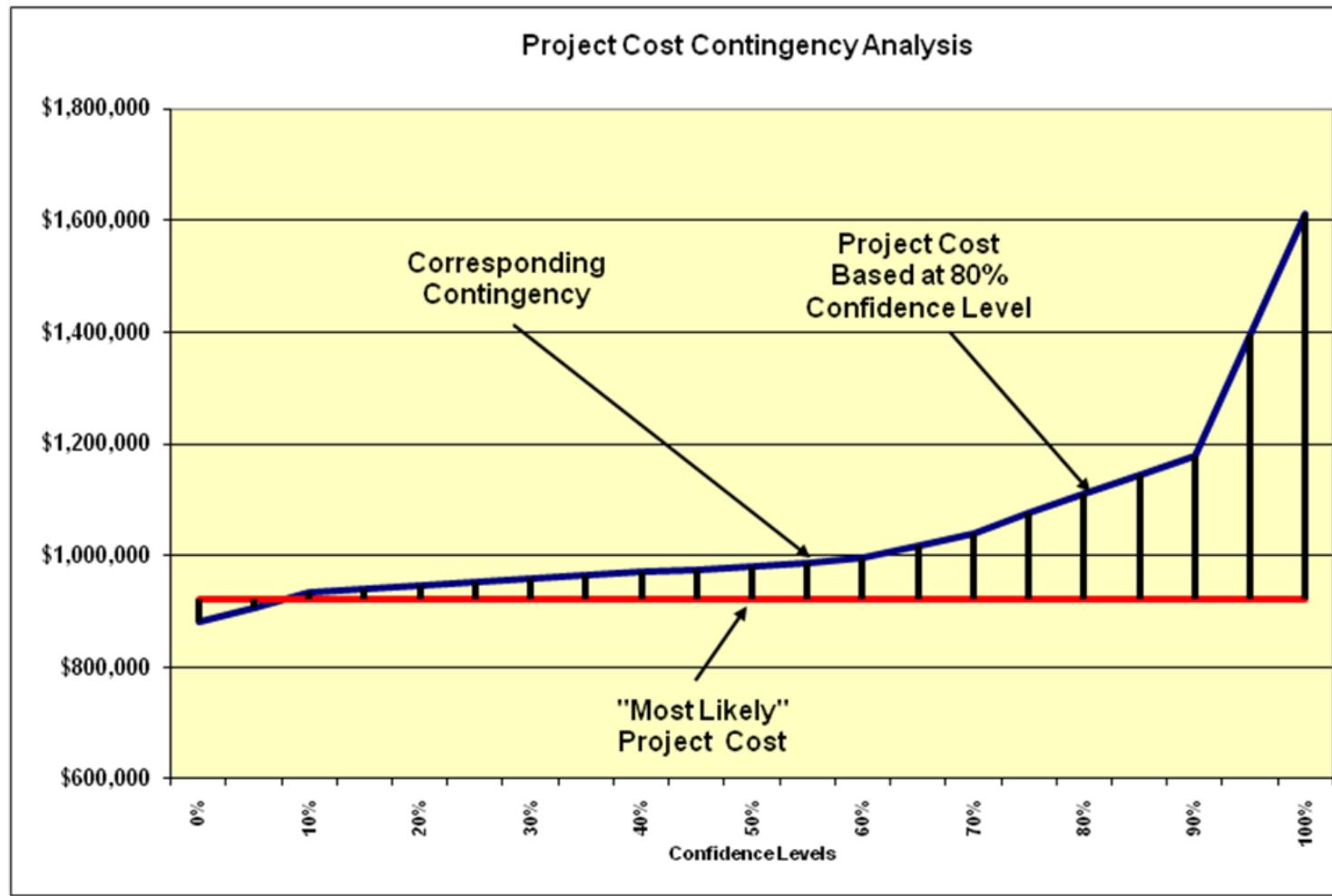
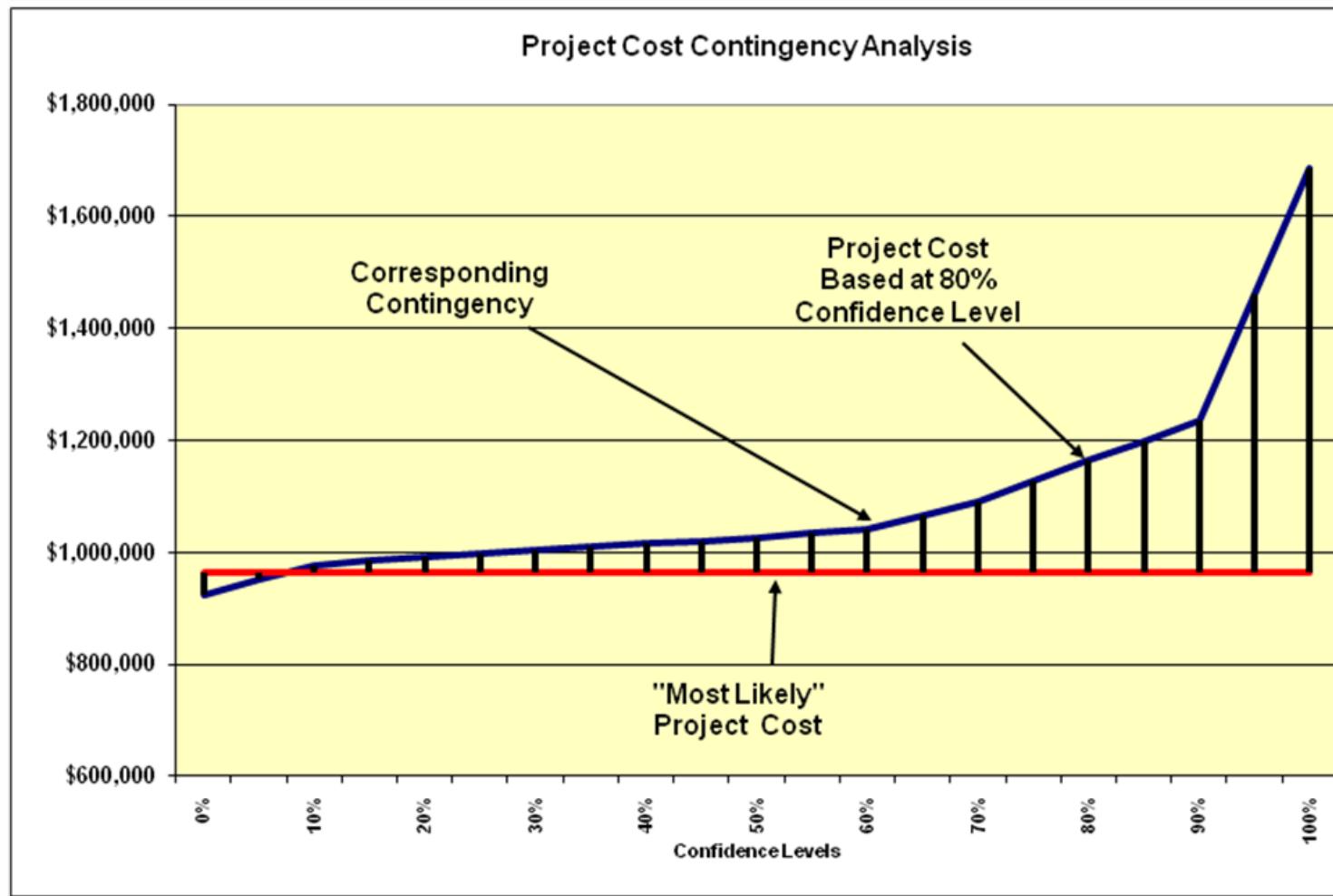


Figure 4. Project Cost Summary (LPP)



7.2 Recommendations

Risk Management is an all-encompassing, iterative, and life-cycle process of project management. The Project Management Institute's (PMI) *A Guide to the Project Management Body of Knowledge (PMBOK® Guide)*, 4th edition, states that "project risk management includes the processes concerned with conducting risk management planning, identification, analysis, responses, and monitoring and control on a project." Risk identification and analysis are processes within the knowledge area of risk management. Its outputs pertinent to this effort include the risk register, risk quantification (risk analysis model), contingency report, and the sensitivity analysis.

The intended use of these outputs is implementation by the project leadership with respect to risk responses (such as mitigation) and risk monitoring and control. In short, the effectiveness of the project risk management effort requires that the proactive management of risks not conclude with the study completed in this report.

The Cost and Schedule Risk Analysis (CSRA) produced by the PDT identifies issues that require the development of subsequent risk response and mitigation plans. This section provides a list of recommendations for continued management of the risks identified and analyzed in this study. Note that this list is not all inclusive and should not substitute a formal risk management and response plan.

1. Risk Management: Project leadership should use of the outputs created during the risk analysis effort as tools in future risk management processes. The risk register should be updated at each major project milestone. The results of the sensitivity analysis may also be used for response planning strategy and development. These tools should be used in conjunction with regular risk review meetings.

2. Risk Analysis Updates: Project leadership should review risk items identified in the original risk register and add others, as required, throughout the project life-cycle. Risks should be reviewed for status and reevaluation (using qualitative measure, at a minimum) and placed on risk management watch lists if any risk's likelihood or impact significantly increases. Project leadership should also be mindful of the potential for secondary (new risks created specifically by the response to an original risk) and residual risks (risks that remain and have unintended impact following response).

****** SUMMARY OF TOTAL PROJECT ANNUAL COST******

August 25, 2010

PROJECT: NATOMAS PACR, NED
LOCATION: CALIFORNIA
INTEREST RATE: 4.375%

U. S. ARMY CORPS OF ENGINEER
SACRAMENTO DISTRICT

ITEM	COST (\$)
Effective Price Level (EPL): 1-Oct-2010	
A. INVESTMENT COST	
1. FEDERAL TOTAL	733,107,000
2. NON-FEDERAL TOTAL	<u>530,466,000</u>
TOTAL PROJECT INVESTMENT	\$1,263,573,000
B. ANNUAL COSTS	
1. FEDERAL TOTAL	36,345,000
2. NON-FEDERAL TOTAL	<u>31,479,000</u>
TOTAL ANNUAL COST	\$67,824,000

DETAILED ESTIMATE OF ANNUAL COST

ITEM	COST (\$)
Effective Price Level (EPL): 1-Oct-2010	
A. INVESTMENT COST	
1. FEDERAL	
a. First Cost	657,760,000
Less 18. Cultural Resources Preservation (-)	6,578,000
b. Interest During Construction (+)	<u>81,925,000</u>
TOTAL	\$733,107,000
2. NON-FEDERAL	
a. First Cost	453,800,000
b. Interest During Construction	<u>76,666,000</u>
TOTAL	<u>\$530,466,000</u>
TOTAL PROJECT INVESTMENT	\$1,263,573,000
B. ANNUAL COSTS	
1. FEDERAL	
a. Interest and Amortization:	
Interest @	4.375%
Amortization @	0.583%
Amortization Period	50
TOTAL	\$36,345,000
2. NON-FEDERAL	
a. Interest and Amortization:	
Interest @	4.375%
Amortization @	0.583%
Amortization Period	50
c. Maintenance And Operation:	5,180,000
02--- Relocations	953,000
06--- Fish & Wildlife Facil.	160,000
11--- Levees	3,163,000
13--- Pumping Plants	<u>904,000</u>
TOTAL	<u>\$31,479,000</u>
TOTAL ANNUAL COST	\$67,824,000

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION										
PROJECT: NATOMAS PACR, NED LOCATION: CALIFORNIA INTEREST RATE: 4.375%										
ACCOUNT NUMBER	DESCRIPTION	AMOUNT (\$)	CONTRACT		PLANT USAGE DATE	INTEREST DURING CONSTRUCTION				
			START DATE	END DATE						
Effective Price Level (EPL): 1-Oct-2010										
FEDERAL COSTS										
1	LANDS AND DAMAGES, Administration	4,127,000				169,402				
	Reach A	765,000	Oct-11	Apr-12	Oct-13	59,552				
	Reach B	945,000	Oct-12	Apr-13	Oct-13	30,870				
	Reach C	295,000	Oct-15	Apr-16	Oct-16	9,655				
	Reach D	98,000	Oct-15	Apr-16	Oct-16	3,207				
	Reach E	397,000	Oct-14	Apr-15	Oct-15	12,969				
	Reach F	321,000	Oct-13	Apr-14	Oct-14	10,486				
	Reach G	241,000	Oct-14	Apr-15	Oct-15	7,873				
	Reach H	902,000	Oct-13	Apr-14	Oct-14	29,465				
	Reach I	163,000	Oct-12	Apr-13	Oct-13	5,325				
1	LANDS AND DAMAGES, Real Estate	14,365,000				573,924				
	Reach A	2,312,000	Oct-11	Apr-12	Oct-13	179,979				
	Reach B	5,848,000	Oct-12	Apr-13	Oct-13	191,034				
	Reach C	1,027,000	Oct-15	Apr-16	Oct-16	33,611				
	Reach D	2,512,000	Oct-15	Apr-16	Oct-16	82,211				
	Reach E	1,074,000	Oct-14	Apr-15	Oct-15	35,084				
	Reach H	1,592,000	Oct-13	Apr-14	Oct-14	52,005				
6	FISH & WILDLIFE FACILITIES	18,869,000				1,111,404				
3--	WILDLIFE FACILITIES & SANCTUARIES									
	Reach B									
	FEDERAL	1,635,000	Apr-13	Apr-13	Oct-13	35,481				
	NON-FEDERAL - Section 104									
		14,000	Oct-08	Oct-09	Oct-13	2,977				
		150,000	Oct-09	Oct-10	Oct-13	24,273				
		78,000	Apr-11	Oct-11	Oct-13	7,901				
	Reach C									
	FEDERAL	225,000	Oct-07	Oct-08	Oct-16	98,877				
	NON-FEDERAL - Section 104									
		1,139,000	Oct-06	Oct-07	Oct-16	572,367				
		498,000	Oct-07	Oct-08	Oct-16	218,848				
		64,000	Oct-09	Oct-10	Oct-16	20,559				
	Reach E	6,717,000	Apr-15	Nov-15	Oct-15	61,416				
	Reach H	8,349,000	Apr-14	Nov-14	Oct-14	68,705				
11	LEVEES AND FLOODWALLS	388,083,000				31,854,047				
	Reach A	72,593,000	Apr-12	Oct-13	Oct-13	2,270,341				
	Reach B									
	FEDERAL	25,077,000	Apr-13	Oct-13	Oct-13	259,298				
	NON-FEDERAL - Section 104									
		199,000	Oct-08	Oct-09	Oct-13	42,317				
		5,176,000	Oct-09	Oct-10	Oct-13	837,578				
		17,788,000	Oct-08	Oct-09	Oct-13	3,782,602				
		25,044,000	Apr-11	Oct-11	Oct-13	2,536,967				
	Reach C									
	FEDERAL	908,000	Apr-16	Oct-16	Oct-16	9,011				
	NON-FEDERAL - Section 104									
		1,189,000	Oct-08	Oct-09	Oct-16	450,674				
		63,000	Oct-08	Oct-09	Oct-16	23,879				
		2,568,000	Oct-08	Oct-09	Oct-16	973,364				
		2,568,000	Oct-09	Oct-10	Oct-16	824,924				
		1,407,000	Oct-09	Oct-10	Oct-16	451,973				
		3,537,000	Oct-09	Oct-10	Oct-16	1,136,198				
		3,537,000	Oct-09	Oct-10	Oct-16	1,136,198				
		2,488,000	Oct-09	Oct-10	Oct-16	799,225				
		3,964,000	Oct-09	Oct-10	Oct-16	1,273,364				
	Reach D									
	FEDERAL	3,254,000	Apr-16	Nov-16	Oct-16	27,231				
	NON-FEDERAL - Section 104									
		3,111,000	Oct-08	Oct-09	Oct-16	1,179,181				
		13,835,000	Oct-08	Oct-09	Oct-16	5,243,962				
		12,876,000	Oct-08	Oct-09	Oct-16	4,880,466				
		3,289,000	Oct-08	Oct-09	Oct-16	1,246,649				
		1,856,000	Oct-08	Oct-09	Oct-16	703,491				
	Reach E	42,307,000	Apr-15	Nov-15	Oct-15	386,828				
	Reach F	46,506,000	Apr-14	Oct-14	Oct-14	480,876				
	Reach G	35,015,000	Apr-15	Oct-15	Oct-15	375,833				
	Reach H	40,401,000	Apr-14	Nov-14	Oct-14	332,463				
	Reach I	17,527,000	Apr-13	Oct-13	Oct-13	189,154				

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION(CONT'ED)						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT (\$)	CONTRACT		PLANT USAGE DATE	INTEREST DURING CONSTRUCTION
			START DATE	END DATE		
Effective Price Level (EPL): 1-Oct-2010						
13	PUMPING PLANT	56,135,000				684,592
	Reach A	6,003,000	Apr-12	Oct-13	Oct-13	187,743
	Reach B	17,215,000	Apr-13	Oct-13	Oct-13	178,004
	Reach C	21,496,000	Apr-16	Oct-16	Oct-16	213,334
	Reach D	4,207,000	Apr-16	Nov-16	Oct-16	35,206
	Reach G	2,823,000	Apr-15	Oct-15	Oct-15	30,301
	Reach H	2,881,000	Apr-14	Nov-14	Oct-14	23,708
	Reach I	1,510,000	Apr-13	Oct-13	Oct-13	16,296
18	CULTURAL RESOURCE PRES. (NO IDC)	6,578,000				
30	PLANNING, ENGR. & DESIGN	129,097,000				27,408,098
	Reach A FEDERAL					
		124,000	Oct-08	Oct-09	Oct-13	26,368
		488,000	Oct-09	Oct-10	Oct-13	78,968
		10,202,000	Oct-11	Oct-13	Oct-13	434,551
	NON-FEDERAL - Section 104					
		43,000	Oct-06	Oct-07	Oct-13	13,813
		56,000	Oct-07	Oct-08	Oct-13	14,884
		764,000	Oct-08	Oct-09	Oct-13	162,464
		2,486,000	Oct-09	Oct-10	Oct-13	402,283
	Reach B FEDERAL					
		310,000	Oct-08	Oct-09	Oct-13	65,921
		1,220,000	Oct-09	Oct-10	Oct-13	197,420
		7,464,000	Oct-11	Oct-13	Oct-13	325,240
	NON-FEDERAL - Section 104					
		53,000	Oct-05	Oct-06	Oct-13	20,089
		507,000	Oct-06	Oct-07	Oct-13	162,865
		5,620,000	Oct-07	Oct-08	Oct-13	1,493,668
		12,757,000	Oct-08	Oct-09	Oct-13	2,712,765
		13,816,000	Oct-09	Oct-10	Oct-13	2,235,698
		2,256,000	Oct-10	Oct-11	Oct-13	255,200
	Reach C FEDERAL					
		163,000	Oct-08	Oct-09	Oct-16	61,783
		642,000	Oct-09	Oct-10	Oct-16	206,231
		2,685,000	Oct-14	Oct-16	Oct-16	115,744
	NON-FEDERAL - Section 104					
		613,000	Oct-05	Oct-06	Oct-16	348,339
		4,083,000	Oct-06	Oct-07	Oct-16	2,051,778
		9,647,000	Oct-07	Oct-08	Oct-16	4,239,410
		7,137,000	Oct-08	Oct-09	Oct-16	2,705,179
		1,397,000	Oct-09	Oct-10	Oct-16	448,761
	Reach D FEDERAL					
		179,000	Oct-08	Oct-09	Oct-16	67,847
		707,000	Oct-09	Oct-10	Oct-16	227,111
		1,158,000	Oct-14	Nov-16	Oct-16	47,563
	NON-FEDERAL - Section 104					
		839,000	Oct-05	Oct-06	Oct-16	476,764
		1,604,000	Oct-06	Oct-07	Oct-16	806,038
		2,457,000	Oct-07	Oct-09	Oct-16	1,005,616
		3,361,000	Oct-08	Oct-09	Oct-16	1,273,940
		541,000	Oct-09	Oct-10	Oct-16	173,787
	Reach E FEDERAL					
		108,000	Oct-08	Oct-09	Oct-15	34,676
		424,000	Oct-09	Oct-10	Oct-15	112,658
		5,067,000	Oct-13	Nov-15	Oct-15	213,253
	NON-FEDERAL - Section 104					
		193,000	Oct-06	Oct-07	Oct-15	84,798
		1,470,000	Oct-07	Oct-08	Oct-15	557,065
		1,294,000	Oct-08	Oct-09	Oct-15	415,474
		493,000	Oct-09	Oct-10	Oct-15	130,991
	Reach F FEDERAL					
		4,806,000	Oct-12	Oct-14	Oct-14	209,120
	NON-FEDERAL - Section 104					
		98,000	Oct-06	Oct-07	Oct-14	37,146
		829,000	Oct-07	Oct-08	Oct-14	266,238
		1,116,000	Oct-08	Oct-09	Oct-14	296,524
		697,000	Oct-09	Oct-10	Oct-14	148,216
	Reach G FEDERAL					
		3,493,000	Oct-13	Oct-15	Oct-15	153,444
	Reach H FEDERAL					

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION(CONT'ED)						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT (\$)	CONTRACT		PLANT USAGE DATE	INTEREST DURING CONSTRUCTION
			START DATE	END DATE		
Effective Price Level (EPL): 1-Oct-2010						
		147,000	Oct-08	Oct-09	Oct-14	39,058
		578,000	Oct-09	Oct-10	Oct-14	122,911
		5,334,000	Oct-12	Nov-14	Oct-14	217,645
	NON-FEDERAL - Section 104					
		3,000	Oct-05	Oct-06	Oct-14	1,318
		101,000	Oct-06	Oct-07	Oct-14	38,283
		1,567,000	Oct-07	Oct-08	Oct-14	503,250
		1,263,000	Oct-08	Oct-09	Oct-14	335,582
		489,000	Oct-09	Oct-10	Oct-14	103,985
	Reach I					
	FEDERAL	2,044,000	Oct-11	Oct-13	Oct-13	90,041
	NON-FEDERAL - Section 104					
		29,000	Oct-05	Oct-06	Oct-13	10,992
		128,000	Oct-06	Oct-07	Oct-13	41,118
		354,000	Oct-07	Oct-08	Oct-13	94,085
		676,000	Oct-08	Oct-09	Oct-13	143,751
		917,000	Oct-09	Oct-10	Oct-13	148,388
31	CONSTRUCTION MANAGEMENT	151,033,000				39,012,376
	Reach A					
	FEDERAL	6,288,000	Apr-12	Oct-13	Oct-13	196,657
	Reach B					
	FEDERAL	3,383,000	Apr-13	Oct-13	Oct-13	34,980
	NON-FEDERAL - Section 104					
		4,000	Oct-06	Oct-07	Oct-13	1,285
		2,000	Oct-07	Oct-08	Oct-13	532
		2,642,000	Oct-08	Oct-09	Oct-13	561,819
		34,125,000	Oct-09	Oct-10	Oct-13	5,522,091
		2,026,000	Apr-11	Oct-11	Oct-13	205,235
	Reach C					
	FEDERAL	1,792,000	Apr-16	Oct-16	Oct-16	17,784
	NON-FEDERAL - Section 104					
		779,000	Oct-06	Oct-07	Oct-16	391,461
		2,675,000	Oct-07	Oct-08	Oct-16	1,175,539
		5,588,000	Oct-08	Oct-09	Oct-16	2,118,053
		27,519,000	Oct-09	Oct-10	Oct-16	8,839,983
	Reach D					
	FEDERAL	597,000	Apr-16	Nov-16	Oct-16	4,996
	NON-FEDERAL - Section 104					
		13,395,000	Oct-06	Oct-07	Oct-16	6,731,220
		9,061,000	Oct-07	Oct-08	Oct-16	3,981,891
		18,143,000	Oct-08	Oct-09	Oct-16	6,876,848
		6,918,000	Oct-09	Oct-10	Oct-16	2,222,283
	Reach E					
	Reach F	3,922,000	Apr-15	Nov-15	Oct-15	35,860
	Reach G	3,721,000	Apr-14	Oct-15	Oct-14	13,386
	Reach H	2,799,000	Apr-15	Oct-15	Oct-15	30,043
	Reach I	4,131,000	Apr-14	Nov-14	Oct-14	33,994
		1,523,000	Apr-13	Oct-13	Oct-13	16,436
	CASH CONTRIBUTION (-)	55,278,000	Apr-12		Oct-16	5,682,155
	SECTION 104 (-)	<u>55,249,000</u>	Oct-11	Oct-11	Oct-16	<u>13,206,567</u>
	TOTAL FEDERAL COST	\$657,760,000				\$81,925,121
NON-FEDERAL COSTS						
1	LANDS AND DAMAGES	205,338,000				9,538,509
	Reach A					
		369,000	Oct-09	Oct-10	Oct-13	59,711
		19,000	Oct-09	Oct-10	Oct-13	3,075
		6,000	Oct-09	Oct-10	Oct-13	971
		23,000	Oct-09	Oct-10	Oct-13	3,722
		28,542,000	Oct-11	Apr-12	Oct-13	2,221,872
	Reach B					
		1,869,000	Oct-09	Oct-10	Oct-13	302,441
		849,000	Oct-09	Oct-10	Oct-13	137,385
		283,000	Oct-09	Oct-10	Oct-13	45,795
		12,000	Oct-09	Oct-10	Oct-13	1,942
		490,000	Oct-09	Oct-10	Oct-13	79,292
		51,574,000	Oct-12	Apr-13	Oct-13	1,684,744
	Reach C					
		1,014,000	Oct-09	Oct-10	Oct-16	325,729
		578,000	Oct-09	Oct-10	Oct-16	185,672
		193,000	Oct-09	Oct-10	Oct-16	61,998
		213,000	Oct-09	Oct-10	Oct-16	68,422
		13,183,000	Oct-15	Apr-16	Oct-16	431,442

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION(CONT'ED)						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT (\$)	CONTRACT		PLANT USAGE DATE	INTEREST DURING CONSTRUCTION
			START DATE	END DATE		
Effective Price Level (EPL): 1-Oct-2010						
	Reach D					
		515,000	Oct-09	Oct-10	Oct-16	165,434
		306,000	Oct-09	Oct-10	Oct-16	98,297
		102,000	Oct-09	Oct-10	Oct-16	32,766
		7,000	Oct-09	Oct-10	Oct-16	2,249
		91,000	Oct-09	Oct-10	Oct-16	29,232
		4,144,000	Oct-15	Apr-16	Oct-16	135,621
	Reach E					
		195,000	Oct-09	Oct-10	Oct-15	51,812
		61,000	Oct-09	Oct-10	Oct-15	16,208
		20,000	Oct-09	Oct-10	Oct-15	5,314
		102,000	Oct-09	Oct-10	Oct-15	27,102
		32,873,000	Oct-14	Apr-15	Oct-15	1,073,847
	Reach F					
		82,000	Oct-09	Oct-10	Oct-14	17,437
		7,000	Oct-09	Oct-10	Oct-14	1,489
		2,000	Oct-09	Oct-10	Oct-14	425
		1,000	Oct-09	Oct-10	Oct-14	213
		7,000	Oct-09	Oct-10	Oct-14	1,489
		13,668,000	Oct-13	Apr-14	Oct-14	446,486
	Reach G					
		18,340,000	Oct-14	Apr-15	Oct-15	599,104
	Reach H					
		140,000	Oct-09	Oct-10	Oct-14	29,771
		21,000	Oct-09	Oct-10	Oct-14	4,466
		7,000	Oct-09	Oct-10	Oct-14	1,489
		47,000	Oct-09	Oct-10	Oct-14	9,995
		31,790,000	Oct-13	Apr-14	Oct-14	1,038,469
	Reach I					
		70,000	Oct-09	Oct-10	Oct-13	11,327
		15,000	Oct-09	Oct-10	Oct-13	2,427
		5,000	Oct-09	Oct-10	Oct-13	809
		51,000	Oct-09	Oct-10	Oct-13	8,253
		3,452,000	Oct-12	Apr-13	Oct-13	112,765
2	RELOCATIONS	110,766,000				3,720,395
	Constr. Activities	110,766,000				3,720,395
3--	CEMETERIES, UTILITIES, & STRUCTURES					
	Reach A					
		13,608,000	Apr-12	Oct-13	Oct-13	425,589
	Reach B					
		280,000	Oct-09	Oct-10	Oct-13	45,309
		1,766,000	Oct-09	Oct-10	Oct-13	285,773
		1,206,000	Oct-09	Oct-10	Oct-13	195,154
		318,000	Oct-09	Oct-10	Oct-13	51,459
		2,000	Oct-09	Oct-10	Oct-13	324
		5,000	Oct-09	Oct-10	Oct-13	809
		19,332,000	Apr-13	Oct-13	Oct-13	199,894
	Reach C					
		296,000	Oct-08	Oct-09	Oct-16	112,195
		16,000	Oct-09	Oct-10	Oct-16	5,140
		87,000	Oct-08	Oct-09	Oct-16	32,976
		348,000	Oct-09	Oct-10	Oct-16	111,789
		360,000	Oct-09	Oct-10	Oct-16	115,644
		262,000	Oct-09	Oct-10	Oct-16	84,163
		14,000	Oct-08	Oct-09	Oct-16	5,307
		832,000	Oct-09	Oct-10	Oct-16	267,265
		6,000	Oct-08	Oct-09	Oct-16	2,274
		1,911,000	Oct-09	Oct-10	Oct-16	613,874
		8,058,000	Apr-16	Oct-16	Oct-16	79,970
	Reach D					
		778,000	Oct-08	Oct-09	Oct-16	294,890
		562,000	Oct-08	Oct-09	Oct-16	213,018
		17,000	Oct-08	Oct-09	Oct-16	6,444
		10,966,000	Apr-16	Nov-16	Oct-16	91,768
	Reach E					
		10,951,000	Apr-15	Nov-15	Oct-15	100,129
	Reach F					
		11,945,000	Apr-14	Oct-14	Oct-14	123,512
	Reach G					
		10,676,000	Apr-15	Oct-15	Oct-15	114,591
	Reach H					
		12,996,000	Apr-14	Nov-14	Oct-14	106,945
	Reach I					
		3,168,000	Apr-13	Oct-13	Oct-13	34,190
	SECTION 215	311,069,000				66,126,418
		311,069,000	Apr-12	Apr-12	Oct-16	66,126,418
30	PLANNING, ENGR. & DESIGN	19,614,000				3,045,817
		3,000	Oct-09	Oct-10	Oct-13	485
		2,042,000	Oct-11	Oct-13	Oct-13	86,978
		406,000	Oct-07	Oct-08	Oct-13	107,906
		1,444,000	Oct-08	Oct-09	Oct-13	307,065

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION(CONT'ED)						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT (\$)	CONTRACT		PLANT USAGE DATE	INTEREST DURING CONSTRUCTION
			START DATE	END DATE		
Effective Price Level (EPL): 1-Oct-2010						
		2,240,000	Oct-09	Oct-10	Oct-13	362,476
		535,000	Oct-11	Oct-13	Oct-13	23,312
		211,000	Oct-05	Oct-06	Oct-16	119,901
		697,000	Oct-06	Oct-07	Oct-16	350,255
		1,073,000	Oct-07	Oct-08	Oct-16	471,534
		1,214,000	Oct-08	Oct-09	Oct-16	460,150
		701,000	Oct-09	Oct-10	Oct-16	225,184
		967,000	Oct-14	Oct-16	Oct-16	41,685
		170,000	Oct-08	Oct-09	Oct-16	64,436
		102,000	Oct-09	Oct-10	Oct-16	32,766
		1,174,000	Oct-13	Oct-15	Oct-16	105,341
Reach E		1,643,000	Oct-13	Nov-15	Oct-15	69,148
Reach F		1,433,000	Oct-12	Oct-14	Oct-14	62,353
		8,000	Oct-09	Oct-10	Oct-15	2,126
		1,601,000	Oct-13	Oct-15	Oct-15	70,330
		5,000	Oct-09	Oct-10	Oct-14	1,063
		1,559,000	Oct-12	Nov-14	Oct-14	63,612
		6,000	Oct-09	Oct-10	Oct-13	971
		380,000	Oct-11	Oct-13	Oct-13	16,740
31	CONSTRUCTION MANAGEMENT	7,555,000				297,795
	Reach A	1,089,000	Apr-12	Oct-13	Oct-13	34,058
		74,000	Oct-08	Oct-09	Oct-13	15,736
		456,000	Oct-09	Oct-10	Oct-13	73,790
		286,000	Apr-11	Oct-11	Oct-13	28,972
		22,000	Oct-08	Oct-09	Oct-16	8,339
		8,000	Oct-09	Oct-10	Oct-16	2,570
		645,000	Apr-16	Oct-16	Oct-16	6,401
		782,000	Apr-16	Nov-16	Oct-16	6,544
Reach E		876,000	Apr-15	Nov-15	Oct-16	46,514
Reach F		956,000	Apr-14	Oct-14	Oct-15	52,120
Reach G		1,068,000	Apr-15	Oct-15	Oct-15	11,463
Reach H		1,040,000	Apr-14	Nov-14	Oct-14	8,558
Reach I		253,000	Apr-13	Oct-13	Oct-13	2,730
CASH CONTRIBUTION (+)		55,278,000	Apr-12		Oct-16	5,682,155
SECTION 104 (-)		<u>255,820,000</u>	Apr-12	Apr-12	Oct-16	<u>54,381,697</u>
TOTAL NON-FEDERAL		\$453,800,000				\$76,666,368
TOTAL		\$1,111,560,000				\$158,591,489

DETAILED ESTIMATE OF M & O COSTS & REPLACEMENT COSTS								
		Price level %Increase	1.00	1.5063	Factor			
		Price Level of M&O costs	Oct-10	2620				
		Effective Price Date (EPD)	Oct-10	2620				
ACCOUNT NUMBER	ITEM	ANNUAL COST (\$)	FACTOR (%)	M&O COST (\$)	PROJECT LIFE YRS	ITEM LIFE YRS	FACTOR (%)	REPLACEMENT COST (\$)
Effective Price Level (EPL): 1-Oct-2010								
02---	Relocations							
	Reach A, Pumps	100000	1.5	150625				
	Reach B, Pumps	150000	1.5	225938				
	Reach C, Pumps	75000	1.5	112969				
	Reach D, Pumps	100000	1.5	150625				
	Reach E, Pumps	35000	1.5	52719				
	Reach G, Pumps	35000	1.5	52719				
	Reach H, Pumps	70000	1.5	105438				
	Reach I, Pumps	35000	1.5	52719				
	Reach A, Drainage Swale and Storm Drainage I	7500	1.5	11297				
	Reach B, Drainage Swale and Storm Drainage I	12500	1.5	18828				
	Reach C, Drainage Swale and Storm Drainage I	12500	1.5	<u>18828</u>				
	Relocations				952703			0
06---	Fish & Wildlife Facil.							
	Reach A	13137	1.5	19788				
	Reach B	39370	1.5	59301				
	Reach C	26683	1.5	40191				
	Reach D	6808	1.5	10255				
	Reach E	11852	1.5	17852				
	Reach F	1773	1.5	2671				
	Reach G	1346	1.5	2027				
	Reach H	2362	1.5	3558				
	Reach I	2698	1.5	<u>4064</u>				
	Fish & Wildlife Facil.				159706			0
11---	Levees							
	Reach A	265000	1.5	399156				
	Reach B	610000	1.5	918813				
	Reach C	325000	1.5	489531				
	Reach D	300000	1.5	451875				
	Reach E	100000	1.5	150625				
	Reach F	150000	1.5	225938				
	Reach G	100000	1.5	150625				
	Reach H	150000	1.5	225938				
	Reach I	100000	1.5	<u>150625</u>				
	Levees				3163125			0
13---	Pumping Plants							
	Reach A, Pumps	100000	1.5	150625				
	Reach B, Pumps	150000	1.5	225938				
	Reach C, Pumps	75000	1.5	112969				
	Reach D, Pumps	100000	1.5	150625				
	Reach E, Pumps	35000	1.5	52719				
	Reach G, Pumps	35000	1.5	52719				
	Reach H, Pumps	70000	1.5	105438				
	Reach I, Pumps	35000	1.5	<u>52719</u>				
	Pumping Plants				903750			0
SUMMARY								
02---	Relocations				952703			0
06---	Fish & Wildlife Facil.				159706			0
11---	Levees				3163125			0
13---	Pumping Plants				<u>903750</u>			0
	TOTAL				\$5,179,284			\$0

****** SUMMARY OF TOTAL PROJECT ANNUAL COST******

August 25, 2010

PROJECT: NATOMAS PACR, LPP
LOCATION: CALIFORNIA
INTEREST RATE: 4.375%

U. S. ARMY CORPS OF ENGINEER
SACRAMENTO DISTRICT

ITEM	COST (\$)
Effective Price Level (EPL): 1-Oct-2010	
A. INVESTMENT COST	
1. FEDERAL TOTAL	734,698,000
2. NON-FEDERAL TOTAL	<u>587,901,000</u>
TOTAL PROJECT INVESTMENT	\$1,322,599,000
B. ANNUAL COSTS	
1. FEDERAL TOTAL	36,424,000
2. NON-FEDERAL TOTAL	<u>34,327,000</u>
TOTAL ANNUAL COST	\$70,751,000

DETAILED ESTIMATE OF ANNUAL COST

ITEM	COST (\$)
Effective Price Level (EPL): 1-Oct-2010	
A. INVESTMENT COST	
1. FEDERAL	
a. First Cost	657,760,000
Less 18. Cultural Resources Preservation (-)	6,578,000
b. Interest During Construction (+)	<u>83,516,000</u>
TOTAL	\$734,698,000
2. NON-FEDERAL	
a. First Cost	506,340,000
b. Interest During Construction	<u>81,561,000</u>
TOTAL	<u>\$587,901,000</u>
TOTAL PROJECT INVESTMENT	\$1,322,599,000
B. ANNUAL COSTS	
1. FEDERAL	
a. Interest and Amortization:	
Interest @	4.375%
Amortization @	0.583%
Amortization Period	50
TOTAL	\$36,424,000
2. NON-FEDERAL	
a. Interest and Amortization:	
Interest @	4.375%
Amortization @	0.583%
Amortization Period	50
c. Maintenance And Operation:	5,180,000
02--- Relocations	953,000
06--- Fish & Wildlife Facil.	160,000
11--- Levees	3,163,000
13--- Pumping Plants	904,000
TOTAL	<u>\$34,327,000</u>
TOTAL ANNUAL COST	\$70,751,000

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION						
PROJECT: NATOMAS PACR, LPP						
LOCATION: CALIFORNIA						
INTEREST RATE: 4.375%						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT CONTRACT (\$)	START DATE	END USAGE DATE	PLANT DATE	INTEREST DURING CONSTRUCTION
Effective Price Level (EPL): 1-Oct-2010						
FEDERAL COSTS						
1	LANDS AND DAMAGES, Administration	4,127,000				169,402
	Reach A	765,000	Oct-11	Apr-12	Oct-13	59,552
	Reach B	945,000	Oct-12	Apr-13	Oct-13	30,870
	Reach C	295,000	Oct-15	Apr-16	Oct-16	9,655
	Reach D	98,000	Oct-15	Apr-16	Oct-16	3,207
	Reach E	397,000	Oct-14	Apr-15	Oct-15	12,969
	Reach F	321,000	Oct-13	Apr-14	Oct-14	10,486
	Reach G	241,000	Oct-14	Apr-15	Oct-15	7,873
	Reach H	902,000	Oct-13	Apr-14	Oct-14	29,465
	Reach I	163,000	Oct-12	Apr-13	Oct-13	5,325
1	LANDS AND DAMAGES, Real Estate	14,365,000				573,924
	Reach A	2,312,000	Oct-11	Apr-12	Oct-13	179,979
	Reach B	5,848,000	Oct-12	Apr-13	Oct-13	191,034
	Reach C	1,027,000	Oct-15	Apr-16	Oct-16	33,611
	Reach D	2,512,000	Oct-15	Apr-16	Oct-16	82,211
	Reach E	1,074,000	Oct-14	Apr-15	Oct-15	35,084
	Reach H	1,592,000	Oct-13	Apr-14	Oct-14	52,005
6	FISH & WILDLIFE FACILITIES	18,869,000				1,111,404
3--	WILDLIFE FACILITIES & SANCTUARIES					
	Reach B					
	FEDERAL	1,635,000	Apr-13	Apr-13	Oct-13	35,481
	NON-FEDERAL - Section 104					
		14,000	Oct-08	Oct-09	Oct-13	2,977
		150,000	Oct-09	Oct-10	Oct-13	24,273
		78,000	Apr-11	Oct-11	Oct-13	7,901
	Reach C					
	FEDERAL	225,000	Oct-07	Oct-08	Oct-16	98,877
	NON-FEDERAL - Section 104					
		1,139,000	Oct-06	Oct-07	Oct-16	572,367
		498,000	Oct-07	Oct-08	Oct-16	218,848
		64,000	Oct-09	Oct-10	Oct-16	20,559
	Reach E	6,717,000	Apr-15	Nov-15	Oct-15	61,416
	Reach H	8,349,000	Apr-14	Nov-14	Oct-14	68,705
11	LEVEES AND FLOODWALLS	417,350,000				36,556,947
	Reach A	72,593,000	Apr-12	Oct-13	Oct-13	2,270,341
	Reach B					
	FEDERAL	25,077,000	Apr-13	Oct-13	Oct-13	259,298
	NON-FEDERAL - Section 104					
		199,000	Oct-08	Oct-09	Oct-13	42,317
		5,176,000	Oct-09	Oct-10	Oct-13	837,578
		20,913,000	Oct-08	Oct-09	Oct-13	4,447,131
		34,737,000	Apr-11	Oct-11	Oct-13	3,518,872
	Reach C					
	FEDERAL	908,000	Apr-16	Oct-16	Oct-16	9,011
	NON-FEDERAL - Section 104					
		1,611,000	Oct-08	Oct-09	Oct-16	610,627
		85,000	Oct-08	Oct-09	Oct-16	32,218
		2,882,000	Oct-08	Oct-09	Oct-16	1,092,381
		2,881,000	Oct-09	Oct-10	Oct-16	925,469
		1,564,000	Oct-09	Oct-10	Oct-16	502,407
		4,499,000	Oct-09	Oct-10	Oct-16	1,445,223
		4,498,000	Oct-09	Oct-10	Oct-16	1,444,902
		3,308,000	Oct-09	Oct-10	Oct-16	1,062,635
		3,964,000	Oct-09	Oct-10	Oct-16	1,273,364
	Reach D					
	FEDERAL	3,553,000	Apr-16	Nov-16	Oct-16	29,733
	NON-FEDERAL - Section 104					
		3,679,000	Oct-08	Oct-09	Oct-16	1,394,473
		14,272,000	Oct-08	Oct-09	Oct-16	5,409,600
		13,317,000	Oct-08	Oct-09	Oct-16	5,047,621
		5,919,000	Oct-08	Oct-09	Oct-16	2,243,513
		2,154,000	Oct-08	Oct-09	Oct-16	816,443
	Reach E	46,281,000	Apr-15	Nov-15	Oct-15	423,164
	Reach F	48,589,000	Apr-14	Oct-14	Oct-14	502,414
	Reach G	36,763,000	Apr-15	Oct-15	Oct-15	394,595
	Reach H	40,401,000	Apr-14	Nov-14	Oct-14	332,463
	Reach I	17,527,000	Apr-13	Oct-13	Oct-13	189,154

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION(CONT'ED)						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT CONTRACT (\$)	CONTRACT		PLANT DATE	INTEREST DURING CONSTRUCTION
			START DATE	END USAGE DATE		
Effective Price Level (EPL): 1-Oct-2010						
13	PUMPING PLANT	56,135,000				684,592
	Reach A	6,003,000	Apr-12	Oct-13	Oct-13	187,743
	Reach B	17,215,000	Apr-13	Oct-13	Oct-13	178,004
	Reach C	21,496,000	Apr-16	Oct-16	Oct-16	213,334
	Reach D	4,207,000	Apr-16	Nov-16	Oct-16	35,206
	Reach G	2,823,000	Apr-15	Oct-15	Oct-15	30,301
	Reach H	2,881,000	Apr-14	Nov-14	Oct-14	23,708
	Reach I	1,510,000	Apr-13	Oct-13	Oct-13	16,296
18	CULTURAL RESOURCE PRES. (NO IDC)	6,578,000				
30	PLANNING, ENGR. & DESIGN	130,834,000				27,545,634
	Reach A FEDERAL					
		124,000	Oct-08	Oct-09	Oct-13	26,368
		488,000	Oct-09	Oct-10	Oct-13	78,968
		10,202,000	Oct-11	Oct-13	Oct-13	434,551
	NON-FEDERAL - Section 104					
		43,000	Oct-06	Oct-07	Oct-13	13,813
		56,000	Oct-07	Oct-08	Oct-13	14,884
		764,000	Oct-08	Oct-09	Oct-13	162,464
		2,486,000	Oct-09	Oct-10	Oct-13	402,283
	Reach B FEDERAL					
		310,000	Oct-08	Oct-09	Oct-13	65,921
		1,220,000	Oct-09	Oct-10	Oct-13	197,420
		7,464,000	Oct-11	Oct-13	Oct-13	325,240
	NON-FEDERAL - Section 104					
		53,000	Oct-05	Oct-06	Oct-13	20,089
		507,000	Oct-06	Oct-07	Oct-13	162,865
		5,620,000	Oct-07	Oct-08	Oct-13	1,493,668
		12,757,000	Oct-08	Oct-09	Oct-13	2,712,765
		13,816,000	Oct-09	Oct-10	Oct-13	2,235,698
		3,155,000	Oct-10	Oct-11	Oct-13	356,895
	Reach C FEDERAL					
		163,000	Oct-08	Oct-09	Oct-16	61,783
		642,000	Oct-09	Oct-10	Oct-16	206,231
		2,685,000	Oct-14	Oct-16	Oct-16	115,744
	NON-FEDERAL - Section 104					
		613,000	Oct-05	Oct-06	Oct-16	348,339
		4,083,000	Oct-06	Oct-07	Oct-16	2,051,778
		9,647,000	Oct-07	Oct-08	Oct-16	4,239,410
		7,137,000	Oct-08	Oct-09	Oct-16	2,705,179
		1,397,000	Oct-09	Oct-10	Oct-16	448,761
	Reach D FEDERAL					
		179,000	Oct-08	Oct-09	Oct-16	67,847
		707,000	Oct-09	Oct-10	Oct-16	227,111
		1,206,000	Oct-14	Nov-16	Oct-16	49,534
	NON-FEDERAL - Section 104					
		839,000	Oct-05	Oct-06	Oct-16	476,764
		1,604,000	Oct-06	Oct-07	Oct-16	806,038
		2,457,000	Oct-07	Oct-09	Oct-16	1,005,616
		3,361,000	Oct-08	Oct-09	Oct-16	1,273,940
		541,000	Oct-09	Oct-10	Oct-16	173,787
	Reach E FEDERAL					
		108,000	Oct-08	Oct-09	Oct-15	34,676
		424,000	Oct-09	Oct-10	Oct-15	112,658
		5,471,000	Oct-13	Nov-15	Oct-15	230,256
	NON-FEDERAL - Section 104					
		193,000	Oct-06	Oct-07	Oct-15	84,798
		1,470,000	Oct-07	Oct-08	Oct-15	557,065
		1,294,000	Oct-08	Oct-09	Oct-15	415,474
		493,000	Oct-09	Oct-10	Oct-15	130,991
	Reach F FEDERAL					
		5,021,000	Oct-12	Oct-14	Oct-14	218,475
	NON-FEDERAL - Section 104					
		98,000	Oct-06	Oct-07	Oct-14	37,146
		829,000	Oct-07	Oct-08	Oct-14	266,238
		1,116,000	Oct-08	Oct-09	Oct-14	296,524
		697,000	Oct-09	Oct-10	Oct-14	148,216
	Reach G FEDERAL					
		3,664,000	Oct-13	Oct-15	Oct-15	160,956
	Reach H FEDERAL					

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION(CONT'ED)						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT CONTRACT (\$)	CONTRACT		PLANT DATE	INTEREST DURING CONSTRUCTION
			START DATE	END USAGE DATE		
Effective Price Level (EPL): 1-Oct-2010						
		147,000	Oct-08	Oct-09	Oct-14	39,058
		578,000	Oct-09	Oct-10	Oct-14	122,911
		5,334,000	Oct-12	Nov-14	Oct-14	217,645
	NON-FEDERAL - Section 104					
		3,000	Oct-05	Oct-06	Oct-14	1,318
		101,000	Oct-06	Oct-07	Oct-14	38,283
		1,567,000	Oct-07	Oct-08	Oct-14	503,250
		1,263,000	Oct-08	Oct-09	Oct-14	335,582
		489,000	Oct-09	Oct-10	Oct-14	103,985
	Reach I					
	FEDERAL	2,044,000	Oct-11	Oct-13	Oct-13	90,041
	NON-FEDERAL - Section 104					
		29,000	Oct-05	Oct-06	Oct-13	10,992
		128,000	Oct-06	Oct-07	Oct-13	41,118
		354,000	Oct-07	Oct-08	Oct-13	94,085
		676,000	Oct-08	Oct-09	Oct-13	143,751
		917,000	Oct-09	Oct-10	Oct-13	148,388
31	CONSTRUCTION MANAGEMENT	152,434,000				39,093,807
	Reach A					
	FEDERAL	6,288,000	Apr-12	Oct-13	Oct-13	196,657
	Reach B					
	FEDERAL	3,383,000	Apr-13	Oct-13	Oct-13	34,980
	NON-FEDERAL - Section 104					
		4,000	Oct-06	Oct-07	Oct-13	1,285
		2,000	Oct-07	Oct-08	Oct-13	532
		2,642,000	Oct-08	Oct-09	Oct-13	561,819
		34,125,000	Oct-09	Oct-10	Oct-13	5,522,091
		2,779,000	Apr-11	Oct-11	Oct-13	281,514
	Reach C					
	FEDERAL	1,792,000	Apr-16	Oct-16	Oct-16	17,784
	NON-FEDERAL - Section 104					
		779,000	Oct-06	Oct-07	Oct-16	391,461
		2,675,000	Oct-07	Oct-08	Oct-16	1,175,539
		5,587,000	Oct-08	Oct-09	Oct-16	2,117,674
		27,520,000	Oct-09	Oct-10	Oct-16	8,840,305
	Reach D					
	FEDERAL	621,000	Apr-16	Nov-16	Oct-16	5,197
	NON-FEDERAL - Section 104					
		13,395,000	Oct-06	Oct-07	Oct-16	6,731,220
		9,061,000	Oct-07	Oct-08	Oct-16	3,981,891
		18,143,000	Oct-08	Oct-09	Oct-16	6,876,848
		6,918,000	Oct-09	Oct-10	Oct-16	2,222,283
	Reach E					
	Reach F	4,240,000	Apr-15	Nov-15	Oct-15	38,768
	Reach G	3,887,000	Apr-14	Oct-15	Oct-14	13,983
	Reach H	2,939,000	Apr-15	Oct-15	Oct-15	31,546
	Reach I	4,131,000	Apr-14	Nov-14	Oct-14	33,994
		1,523,000	Apr-13	Oct-13	Oct-13	16,436
	CASH CONTRIBUTION (-)	87,683,000	Apr-12		Oct-16	9,013,140
	SECTION 104 (-)	<u>55,249,000</u>	Oct-11	Oct-11	Oct-16	<u>13,206,567</u>
	TOTAL FEDERAL COST	\$657,760,000				\$83,516,003
NON-FEDERAL COSTS						
1	LANDS AND DAMAGES	205,338,000				9,538,509
	Reach A					
		369,000	Oct-09	Oct-10	Oct-13	59,711
		19,000	Oct-09	Oct-10	Oct-13	3,075
		6,000	Oct-09	Oct-10	Oct-13	971
		23,000	Oct-09	Oct-10	Oct-13	3,722
		28,542,000	Oct-11	Apr-12	Oct-13	2,221,872
	Reach B					
		1,869,000	Oct-09	Oct-10	Oct-13	302,441
		849,000	Oct-09	Oct-10	Oct-13	137,385
		283,000	Oct-09	Oct-10	Oct-13	45,795
		12,000	Oct-09	Oct-10	Oct-13	1,942
		490,000	Oct-09	Oct-10	Oct-13	79,292
		51,574,000	Oct-12	Apr-13	Oct-13	1,684,744
	Reach C					
		1,014,000	Oct-09	Oct-10	Oct-16	325,729
		578,000	Oct-09	Oct-10	Oct-16	185,672
		193,000	Oct-09	Oct-10	Oct-16	61,998
		213,000	Oct-09	Oct-10	Oct-16	68,422
		13,183,000	Oct-15	Apr-16	Oct-16	431,442

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION(CONT'ED)						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT CONTRACT (\$)	CONTRACT		PLANT DATE	INTEREST DURING CONSTRUCTION
			START DATE	END USAGE DATE		
Effective Price Level (EPL): 1-Oct-2010						
	Reach D					
		515,000	Oct-09	Oct-10	Oct-16	165,434
		306,000	Oct-09	Oct-10	Oct-16	98,297
		102,000	Oct-09	Oct-10	Oct-16	32,766
		7,000	Oct-09	Oct-10	Oct-16	2,249
		91,000	Oct-09	Oct-10	Oct-16	29,232
		4,144,000	Oct-15	Apr-16	Oct-16	135,621
	Reach E					
		195,000	Oct-09	Oct-10	Oct-15	51,812
		61,000	Oct-09	Oct-10	Oct-15	16,208
		20,000	Oct-09	Oct-10	Oct-15	5,314
		102,000	Oct-09	Oct-10	Oct-15	27,102
		32,873,000	Oct-14	Apr-15	Oct-15	1,073,847
	Reach F					
		82,000	Oct-09	Oct-10	Oct-14	17,437
		7,000	Oct-09	Oct-10	Oct-14	1,489
		2,000	Oct-09	Oct-10	Oct-14	425
		1,000	Oct-09	Oct-10	Oct-14	213
		7,000	Oct-09	Oct-10	Oct-14	1,489
		13,668,000	Oct-13	Apr-14	Oct-14	446,486
	Reach G					
		18,340,000	Oct-14	Apr-15	Oct-15	599,104
	Reach H					
		140,000	Oct-09	Oct-10	Oct-14	29,771
		21,000	Oct-09	Oct-10	Oct-14	4,466
		7,000	Oct-09	Oct-10	Oct-14	1,489
		47,000	Oct-09	Oct-10	Oct-14	9,995
		31,790,000	Oct-13	Apr-14	Oct-14	1,038,469
	Reach I					
		70,000	Oct-09	Oct-10	Oct-13	11,327
		15,000	Oct-09	Oct-10	Oct-13	2,427
		5,000	Oct-09	Oct-10	Oct-13	809
		51,000	Oct-09	Oct-10	Oct-13	8,253
		3,452,000	Oct-12	Apr-13	Oct-13	112,765
2	RELOCATIONS	127,700,000				5,133,696
	Constr. Activities	127,700,000				5,133,696
3--	CEMETERIES, UTILITIES, & STRUCTURES					
	Reach A					
		13,608,000	Apr-12	Oct-13	Oct-13	425,589
	Reach B					
		512,000	Oct-09	Oct-09	Oct-13	95,725
		1,766,000	Oct-09	Oct-09	Oct-13	330,175
		1,206,000	Oct-09	Oct-09	Oct-13	225,476
		318,000	Oct-09	Oct-09	Oct-13	59,454
		2,000	Oct-09	Oct-09	Oct-13	374
		5,000	Oct-09	Oct-09	Oct-13	935
		22,309,000	Apr-13	Apr-13	Oct-13	484,123
	Reach C					
		603,000	Oct-08	Oct-09	Oct-16	228,559
		32,000	Oct-09	Oct-10	Oct-16	10,279
		129,000	Oct-08	Oct-09	Oct-16	48,896
		514,000	Oct-09	Oct-10	Oct-16	165,113
		789,000	Oct-09	Oct-10	Oct-16	253,452
		262,000	Oct-09	Oct-10	Oct-16	84,163
		14,000	Oct-08	Oct-09	Oct-16	5,307
		833,000	Oct-09	Oct-10	Oct-16	267,586
		6,000	Oct-08	Oct-09	Oct-16	2,274
		1,910,000	Oct-09	Oct-10	Oct-16	613,553
		8,059,000	Apr-16	Oct-16	Oct-16	79,980
	Reach D					
		220,000	Oct-08	Oct-09	Oct-16	83,388
		778,000	Oct-08	Oct-09	Oct-16	294,890
		562,000	Oct-08	Oct-09	Oct-16	213,018
		1,263,000	Oct-08	Oct-09	Oct-16	478,722
		11,077,000	Apr-16	Nov-16	Oct-16	92,697
	Reach E					
		16,050,000	Apr-15	Nov-15	Oct-15	146,751
	Reach F					
		15,419,000	Apr-14	Oct-14	Oct-14	159,434
	Reach G					
		13,290,000	Apr-15	Oct-15	Oct-15	142,648
	Reach H					
		12,996,000	Apr-14	Nov-14	Oct-14	106,945
	Reach I					
		3,168,000	Apr-13	Oct-13	Oct-13	34,190
	SECTION 215					
		311,069,000				66,126,418
		311,069,000	Apr-12	Apr-12	Oct-16	66,126,418
30	PLANNING, ENGR. & DESIGN					
		21,630,000				3,133,148
		3,000	Oct-09	Oct-10	Oct-13	485
		2,042,000	Oct-11	Oct-13	Oct-13	86,978
		406,000	Oct-07	Oct-08	Oct-13	107,906

DETAILED ESTIMATE OF INTEREST DURING CONSTRUCTION(CONT'ED)						
ACCOUNT NUMBER	DESCRIPTION	AMOUNT CONTRACT (\$)	CONTRACT		PLANT DATE	INTEREST DURING CONSTRUCTION
			START DATE	END USAGE DATE		
Effective Price Level (EPL): 1-Oct-2010						
			1,444,000	Oct-08	Oct-09	307,065
			2,240,000	Oct-09	Oct-10	362,476
			966,000	Oct-11	Oct-13	42,093
			211,000	Oct-05	Oct-06	119,901
			697,000	Oct-06	Oct-07	350,255
			1,073,000	Oct-07	Oct-08	471,534
			1,214,000	Oct-08	Oct-09	460,150
			701,000	Oct-09	Oct-10	225,184
			967,000	Oct-14	Oct-16	41,685
			170,000	Oct-08	Oct-09	64,436
			102,000	Oct-09	Oct-10	32,766
			1,185,000	Oct-13	Oct-15	106,328
	Reach E		2,408,000	Oct-13	Nov-15	Oct-15
	Reach F		1,850,000	Oct-12	Oct-14	Oct-14
			8,000	Oct-09	Oct-10	Oct-15
			1,993,000	Oct-13	Oct-15	Oct-15
			5,000	Oct-09	Oct-10	Oct-14
			1,559,000	Oct-12	Nov-14	Oct-14
			6,000	Oct-09	Oct-10	Oct-13
			380,000	Oct-11	Oct-13	Oct-13
						16,740
31	CONSTRUCTION MANAGEMENT	8,740,000				360,783
	Reach A	1,089,000	Apr-12	Oct-13	Oct-13	34,058
		74,000	Oct-08	Oct-09	Oct-13	15,736
		456,000	Oct-09	Oct-10	Oct-13	73,790
		516,000	Apr-11	Oct-11	Oct-13	52,271
		22,000	Oct-08	Oct-09	Oct-16	8,339
		8,000	Oct-09	Oct-10	Oct-16	2,570
		645,000	Apr-16	Oct-16	Oct-16	6,401
		790,000	Apr-16	Nov-16	Oct-16	6,611
	Reach E	1,284,000	Apr-15	Nov-15	Oct-16	68,177
	Reach F	1,234,000	Apr-14	Oct-14	Oct-15	67,277
	Reach G	1,329,000	Apr-15	Oct-15	Oct-15	14,265
	Reach H	1,040,000	Apr-14	Nov-14	Oct-14	8,558
	Reach I	253,000	Apr-13	Oct-13	Oct-13	2,730
	CASH CONTRIBUTION (+)	87,683,000	Apr-12		Oct-16	9,013,140
	SECTION 104 (-)	<u>255,820,000</u>	Apr-12	Apr-12	Oct-16	<u>54,381,697</u>
	TOTAL NON-FEDERAL	\$506,340,000				\$81,560,973
	TOTAL	\$1,164,100,000				\$165,076,976

DETAILED ESTIMATE OF M & O COSTS & REPLACEMENT COSTS								
		Price level %Increase	1.00	1.5063	Factor			
		Price Level of M&O costs	Oct-10	2620				
		Effective Price Date (EPD)	Oct-10	2620				
ACCOUNT NUMBER	ITEM	ANNUAL COST (\$)	FACTOR (%)	M&O COST (\$)	PROJECT LIFE YRS	ITEM LIFE YRS	FACTOR (%)	REPLACEMENT COST (\$)
Effective Price Level (EPL): 1-Oct-2010								
02---	Relocations							
	Reach A, Pumps	100000	1.5	150625				
	Reach B, Pumps	150000	1.5	225938				
	Reach C, Pumps	75000	1.5	112969				
	Reach D, Pumps	100000	1.5	150625				
	Reach E, Pumps	35000	1.5	52719				
	Reach G, Pumps	35000	1.5	52719				
	Reach H, Pumps	70000	1.5	105438				
	Reach I, Pumps	35000	1.5	52719				
	Reach A, Drainage Swale and Storm Drainage I	7500	1.5	11297				
	Reach B, Drainage Swale and Storm Drainage I	12500	1.5	18828				
	Reach C, Drainage Swale and Storm Drainage I	12500	1.5	<u>18828</u>				
	Relocations				952703			0
06---	Fish & Wildlife Facil.							
	Reach A	13137	1.5	19788				
	Reach B	39370	1.5	59301				
	Reach C	26683	1.5	40191				
	Reach D	6808	1.5	10255				
	Reach E	11852	1.5	17852				
	Reach F	1773	1.5	2671				
	Reach G	1346	1.5	2027				
	Reach H	2362	1.5	3558				
	Reach I	2698	1.5	<u>4064</u>				
	Fish & Wildlife Facil.				159706			0
11---	Levees							
	Reach A	265000	1.5	399156				
	Reach B	610000	1.5	918813				
	Reach C	325000	1.5	489531				
	Reach D	300000	1.5	451875				
	Reach E	100000	1.5	150625				
	Reach F	150000	1.5	225938				
	Reach G	100000	1.5	150625				
	Reach H	150000	1.5	225938				
	Reach I	100000	1.5	<u>150625</u>				
	Levees				3163125			0
13---	Pumping Plants							
	Reach A, Pumps	100000	1.5	150625				
	Reach B, Pumps	150000	1.5	225938				
	Reach C, Pumps	75000	1.5	112969				
	Reach D, Pumps	100000	1.5	150625				
	Reach E, Pumps	35000	1.5	52719				
	Reach G, Pumps	35000	1.5	52719				
	Reach H, Pumps	70000	1.5	105438				
	Reach I, Pumps	35000	1.5	<u>52719</u>				
	Pumping Plants				903750			0
SUMMARY								
02---	Relocations				952703			0
06---	Fish & Wildlife Facil.				159706			0
11---	Levees				3163125			0
13---	Pumping Plants				<u>903750</u>			0
	TOTAL				\$5,179,284			\$0

PROJECT: NATOMAS PACR, NED PLAN													DATE PREPARED: 25-Aug-2010					
LOCATION: CALIFORNIA													PRICE LEVEL: 1-Oct-2010					
PROJECT COST ESTIMATE(PCE) SUMMARY																		
CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	(3)	SUNK COST THRU 30-Sep-2010	PREVIOUS 1-Oct-2009	FIRST COST							FULLY FUNDED (3)						
			AMOUNT (4)(\$K)		COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	PREVIOUS 1-Oct-2009	CHANGE IN INFLAT- ION (12)(\$K)	CURRENT				
			EST (13)(\$K)	EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)											
	FEDERAL																	
1	LANDS AND DAMAGES, Admin		0	0	0	0	4127	3590		537	4127	0	463	3993	597	4590		
1	LANDS AND DAMAGES, Real Estate		0	0	0	0	14365	10301		4064	14365	0	671	10769	4267	15036		
6	FISH AND WILDLIFE FACILITIES		1865	0	0	0	18869	15175		3694	18869	0	1072	15996	3945	19941		
11	LEVEES AND FLOODWALLS		79451	0	0	0	388083	313225		74858	388083	0	15739	325017	78805	403822		
13	PUMPING PLANT		0	0	0	0	56135	42044		14091	56135	0	3775	44793	15117	59910		
18	CULTURAL RESOURCES PRESERV.		0	0	0	0	6578	5660		918	6578	0	261	5885	954	6839		
30	PLANNING/ENGINEERING/DESIGN		84588	0	0	0	129097	123807		5290	129097	0	4640	127870	5867	133737		
31	CONSTRUCTION MANAGEMENT		120851	0	0	0	151033	143678		7355	151033	0	4113	146740	8406	155146		
	TOTAL COST (FEDERAL FUNDS & NON-FEDERAL CASH CONTRIBUTION)		286755	0	0	0	768287	657480		110807	768287	0	30734	681063	117958	799021		
	NON-FEDERAL CASH CONTRIBUTION (-)		3077	0	29	55249	45741		9537	55278	0	2340	47521	10097	57618			
	SECTION 104 (-)		253974	0	0	55249	45741		9508	55249	0	2354	47521	10082	57603			
	TOTAL FEDERAL COST		29704	0	-29	657789	565998		91762	657760	0	26040	586021	97779	683800			
	NON-FEDERAL COST																	
1	LANDS AND DAMAGES		7772	0	0	205338	155431		49907	205338	0	9304	162311	52331	214642			
2	RELOCATIONS		9066	0	0	110766	85183		25583	110766	0	6280	89786	27260	117046			
	SECTION 104		281665	0	0	311069	305202		5867	311069	0	236	305391	5914	311305			
30	PLANNING/ENGINEERING/DESIGN		8280	0	0	19614	16670		2944	19614	0	573	17088	3099	20187			
31	CONSTRUCTION MANAGEMENT		560	0	0	7555	5723		1832	7555	0	449	6050	1954	8004			
	TOTAL NON-FEDERAL LERRD		307343	0	0	654342	568209		86133	654342	0	16842	580626	90558	671184			
	NON-FEDERAL CASH CONTRIBUTION (+)		3077	0	29	55249	45741		9537	55278	0	2340	47521	10097	57618			
	SECTION 104 (-), Remaining Allowable		27691	0	0	255820	259461		-3641	255820	0	-2118	257870	-4168	253702			
	TOTAL NON-FEDERAL COST		282729	0	29	453771	354489		99311	453800	0	21300	370277	104823	475100			
	TOTAL NED COST		312433	0	0	1111560	920487		191073	1111560	0	47340	956298	202602	1158900			
	SUMMARY OF ESTIMATED COSTS																	
	FEDERAL COST (CORPS OF ENGINEERS)		29704	0	-29	657789	565998		91762	657760	0	26040	586021	97779	683800			
	REQUIRED NON-FEDERAL COST (+) CASH CONTRIBUTION		282729	0	29	453771	354489		99311	453800	0	21300	370277	104823	475100			
			3077	0	29	55249	45741		9537	55278	0	2340	47521	10097	57618			

PROJECT: NATOMAS PACR, NED PLAN
 LOCATION: CALIFORNIA
 PROJECT COST ESTIMATE(PCE) SUMMARY

DATE PREPARED: 25-Aug-2010
 PRICE LEVEL: 1-Oct-2010

CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	SUNK COST THRU 30-Sep-2010	FIRST COST								FULLY FUNDED (3)				
			PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT				PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT		
			AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)			EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)
	OTHER COSTS	279652	0	0	398522	308748			89774	398522	0	18960	322756	94726	417482
	TOTAL FEDERAL AND REQUIRED NON-FEDERAL COSTS	312433	0	0	1111560	920487			191073	1111560	0	47340	956298	202602	1158900
	PROJECT EXECUTIVE SUMMARY														
1	LANDS AND DAMAGES	7772	0	0	223830	169322			54508	223830	0	10438	177073	57195	234268
2	RELOCATIONS	9066	0	0	110766	85183			25583	110766	0	6280	89786	27260	117046
6	FISH AND WILDLIFE FACILITIES	1865	0	0	18869	15175			3694	18869	0	1072	15996	3945	19941
11	LEVEES AND FLOODWALLS	79451	0	0	388083	313225			74858	388083	0	15739	325017	78805	403822
13	PUMPING PLANT	0	0	0	56135	42044			14091	56135	0	3775	44793	15117	59910
18	CULTURAL RESOURCES PRESERV.	0	0	0	6578	5660			918	6578	0	261	5885	954	6839
30	PLANNING, ENGINEERING AND DESIGN	92868	0	0	148711	140477			8234	148711	0	5213	144958	8966	153924
31	CONSTRUCTION MANAGEMENT	121411	0	0	158588	149401			9187	158588	0	4562	152790	10360	163150
	TOTAL NED COST	312433	0	0	1111560	920487			191073	1111560	0	47340	956298	202602	1158900
	FEDERAL COST	29704	0	-29	657789	565998			91762	657760	0	26040	586021	97779	683800
	NON-FEDERAL COST	282729	0	29	453771	354489			99311	453800	0	21300	370277	104823	475100

PROJECT: NATOMAS PACR, NED PLAN
LOCATION: CALIFORNIA
PROJECT COST ESTIMATE(PCE)

DATE PREPARED: 25-Aug-2010
PRICE LEVEL: 1-Oct-2010

CODE: 0 - no esc. applied, A - for administration, C - for combined indexes, All other Codes used coincides with the Code of Accounts.

CODE OF ACCT. NO. (1)	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S (3)	C O S T THRU 30-Sep-2010	FIRST COST							FULLY FUNDED (3)					
				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
				COST EST (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	FEDERAL															
1	LANDS AND DAMAGES, Admin.	(2)	A	0 0	0 0	0 0	4127 765	3590 666	0 14.95	537 99	4127 765	0 0	463 30	3993 692	597 103	4590 795
			A	Expenditure Allocations FY2012		Start 1-Oct-2011	End 2-Apr-2012	Midpoint 1-Jan-2012	Period(YRS) 1.25	Expend. 765				Inflation Amt 30	Fully Funded 795	
	Reach B		A	0	0	0	945	821	15.1	124	945	0	72	884	133	1017
			A	Expenditure Allocations FY2013		Start 1-Oct-2012	End 1-Apr-2013	Midpoint 31-Dec-2012	Period(YRS) 2.25	Expend. 945				Inflation Amt 72	Fully Funded 1017	
	Reach C		A	0	0	0	295	256	15.1	39	295	0	66	314	47	361
			A	Expenditure Allocations FY2016		Start 1-Oct-2015	End 1-Apr-2016	Midpoint 31-Dec-2015	Period(YRS) 5.25	Expend. 295				Inflation Amt 66	Fully Funded 361	
	Reach D		A	0	0	0	98	85	15	13	98	0	22	104	16	120
			A	Expenditure Allocations FY2016		Start 1-Oct-2015	End 1-Apr-2016	Midpoint 31-Dec-2015	Period(YRS) 5.25	Expend. 98				Inflation Amt 22	Fully Funded 120	
	Reach E		A	0	0	0	397	346	14.9	51	397	0	68	405	60	465
			A	Expenditure Allocations FY2015		Start 1-Oct-2014	End 1-Apr-2015	Midpoint 31-Dec-2014	Period(YRS) 4.25	Expend. 397				Inflation Amt 68	Fully Funded 465	
	Reach F		A	0	0	0	321	279	14.9	42	321	0	40	314	47	361
			A	Expenditure Allocations FY2014		Start 1-Oct-2013	End 1-Apr-2014	Midpoint 31-Dec-2013	Period(YRS) 3.25	Expend. 321				Inflation Amt 40	Fully Funded 361	
	Reach G		A	0	0	0	241	210	14.9	31	241	0	42	246	37	283
			A	Expenditure Allocations FY2015		Start 1-Oct-2014	End 1-Apr-2015	Midpoint 31-Dec-2014	Period(YRS) 4.25	Expend. 241				Inflation Amt 42	Fully Funded 283	
	Reach H		A	0	0	0	902	785	14.9	117	902	0	111	882	131	1013
			A	Expenditure Allocations FY2014		Start 1-Oct-2013	End 1-Apr-2014	Midpoint 31-Dec-2013	Period(YRS) 3.25	Expend. 902				Inflation Amt 111	Fully Funded 1013	
	Reach I		A	0	0	0	163	142	14.9	21	163	0	12	152	23	175
			A	Expenditure Allocations FY2013		Start 1-Oct-2012	End 1-Apr-2013	Midpoint 31-Dec-2012	Period(YRS) 2.25	Expend. 163				Inflation Amt 12	Fully Funded 175	

PROJECT: NATOMAS PACR, NED PLAN
LOCATION: CALIFORNIA
PROJECT COST ESTIMATE(PCE)

DATE PREPARED: 25-Aug-2010
PRICE LEVEL: 1-Oct-2010

CODE: 0 - no esc. applied, A - for administration, C - for combined indexes, All other Codes used coincides with the Code of Accounts.

CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S (3)	SUNK COST THRU 30-Sep-2010	FIRST COST						FULLY FUNDED (3)					
			PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
			AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)		EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
1	LANDS AND DAMAGES, Real Estate	C	0 0	0 0	0 0	14365 2,312	10301 1792	0 29	4064 520	14365 2312	0 0	671 35	10769 1819	4267 528	15036 2347
	Reach A	C	Expenditure Allocations		Start FY2012	End 1-Oct-2011	Midpoint 2-Apr-2012	Period(YRS) 1.25	Expend. 2312				Inflation Amt 35	Fully Funded 2347	
	Reach B	C	0 0	0 0	0 0	5,848	4147	41.01	1701	5848	0 0	185	4278	1755	6033
		C	Expenditure Allocations		Start FY2013	End 1-Oct-2012	Midpoint 1-Apr-2013	Period(YRS) 2.25	Expend. 5848				Inflation Amt 185	Fully Funded 6033	
	Reach C	C	0 0	0 0	0 0	1,027	709	44.9	318	1027	0 0	87	769	345	1114
		C	Expenditure Allocations		Start FY2016	End 1-Oct-2015	Midpoint 1-Apr-2016	Period(YRS) 5.25	Expend. 1027				Inflation Amt 87	Fully Funded 1114	
	Reach D	C	0 0	0 0	0 0	2,512	1580	59	932	2512	0 0	214	1714	1012	2726
		C	Expenditure Allocations		Start FY2016	End 1-Oct-2015	Midpoint 1-Apr-2016	Period(YRS) 5.25	Expend. 2512				Inflation Amt 214	Fully Funded 2726	
	Reach E	C	0 0	0 0	0 0	1,074	790	36	284	1074	0 0	72	843	303	1146
		C	Expenditure Allocations		Start FY2015	End 1-Oct-2014	Midpoint 1-Apr-2015	Period(YRS) 4.25	Expend. 1074				Inflation Amt 72	Fully Funded 1146	
	Reach H	C	0 0	0 0	0 0	1,592	1283	24.1	309	1592	0 0	78	1346	324	1670
		C	Expenditure Allocations		Start FY2014	End 1-Oct-2013	Midpoint 1-Apr-2014	Period(YRS) 3.25	Expend. 1592				Inflation Amt 78	Fully Funded 1670	
6	FISH & WILDLIFE FACILITIES	6 6 6	1865 164 0	0 0 0	0 0 0	18869 1877 1,635	15175 1862 1635		3694 15 0	18869 1877 1635	0 0 0	1072 60 59	15996 1922 1694	3945 15 0	19941 1937 1694
	Reach B	6	Expenditure Allocations		Start FY2013	End 1-Apr-2013	Midpoint 1-Apr-2013	Period(YRS) 2.50	Expend. 1635				Inflation Amt 59	Fully Funded 1694	
	FEDERAL	6	164 0	0 0	0 0	242	227	24	15	242	0 0	1	228	15	243
	NON-FEDERAL - Section 104	6	Expenditure Allocations		Start FY2009	End 1-Oct-2008	Midpoint 1-Oct-2009	Period(YRS) 0.00	Expend. 14				Inflation Amt 0	Fully Funded 14	
		6	Expenditure Allocations		FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	0.00	150				0	150	
		6	Expenditure Allocations		FY2011	1-Apr-2011	1-Apr-2010	0.00	78				1	79	
	Reach C	6 0	1701 0	0 0	0 0	1926 225	1926 225		0 0	1926 225	0 0	0 0	1926 225	0 0	1926 225
	FEDERAL	O	Expenditure Allocations		FY2016	Start 1-Apr-2016	End 1-Apr-2016	Midpoint 1-Apr-2016	Period(YRS) 5.50	Expend. 225			Inflation Amt 0	Fully Funded 225	

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S (3)	C	SUNK COST THRU 30-Sep-2010	FIRST COST						FULLY FUNDED (3)				
			O	PREVIOUS 1-Oct-2009	COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT			
			D	AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	DIRECT COST (13)(\$K)	CONTIN- GENCY (14)(\$K)	COST EST 12+6+7+13 (16)(\$K)
			E												
	NON-FEDERAL - Section 104	6		1701	0	0	1,701	1701	0	0	1701	0	0	1701	0
		6	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
		6	FY2007			1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	1139			0	1139	
		6	FY2008			1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	498			0	498	
		6	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	64			0	64	
	Reach E	6		0	0	0	6,717	4907	36.9	1810	6717	0	516	5283	1950
		6	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
		6	FY2015			1-Apr-2015	3-Nov-2015	18-Jul-2015	4.80	6717			516	7233	
	Reach H	6		0	0	0	8,349	6480	28.84	1869	8349	0	496	6865	1980
		6	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
		6	FY2014			1-Apr-2014	27-Nov-2014	30-Jul-2014	3.83	8349			496	8845	
11	LEVEES & FLOODWALLS Reach A	11		79451	0	0	0	388083	313225	74858	388083	0	15739	325017	78805
		11	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
		11	FY2013			2-Apr-2012	26-Oct-2013	13-Jan-2013	2.29	72593			2337	74930	
	Reach B FEDERAL	11		23163	0	0	0	73284	63286	9998	73284	0	1284	64320	10248
		11	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
		11	FY2013			1-Apr-2013	9-Oct-2013	5-Jul-2013	2.76	25077			1078	26155	
	NON-FEDERAL - Section 104	11		23163	0	0	48,207	43041	25.988	5166	48207	0	206	43205	5208
		11	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
		11	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	199			0	199	
	Demo, Structure Demo, Tree Removal, Contract 4047 May 2010 Sep 31 2010 FY10 Complete GGS Drainage Canal, Schoolhouse Rd Pipeline & Teal Bend Pipeline, Contract 4046 May 2010 Sep 31 2010 FY10 Complete	11	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	5176			0	5176	
	Levees, Contract 4046 May 2010 May 2010 Sep 31 2010 FY10 Complete	11	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	17788			0	17788	
		11	FY2011			1-Apr-2011	1-Oct-2011	1-Jul-2011	0.75	25044			206	25250	
	Reach C FEDERAL	11		21321	0	0	0	22229	21972	257	22229	0	86	22034	281
		11	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
		11	FY2016			1-Apr-2016	17-Oct-2016	9-Jul-2016	5.78	908			86	994	

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				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
				AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	NON-FEDERAL - Section 104	11		21321	0	0	21321	21321	0	0	21321	0	0	21321	0	21321
	Levees, Contract 3980 5/09 -7/10 95% in FY09	11		Expenditure Allocations		Start FY2009	End 1-Oct-2008	Midpoint 1-Apr-2009	Period(YRS) 0.00	Expend. 1189				Inflation Amt 0	Fully Funded 1189	
	Levees, Contract 4032 8/15/09 - 9/30/10	11		FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	63				0	63	
	Levees, Borrow Sites, Contract 4032 8/15/09 - 9/30/10	11		FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	2568				0	2568	
	Levees, Contract 3980 5% in FY10	11		FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	2568				0	2568	
	Levees, Contract 4032 8/15/09 - 9/30/10	11		FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1407				0	1407	
	Levees_2, Contract 4032 5/1/10 - 9/30/10	11		FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	3537				0	3537	
	Levees, Borrow Sites, Contract 4032 8/15/09 - 9/30/10	11		FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	3537				0	3537	
	Levees, Contract 4046 (portion within Reach C) May 2010 Sep 31 2010 FY10 Complete	11		FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	2488				0	2488	
	Levees, Borrow Sites, Contract 4046 (for portion supplying borrow to Reach C) May 2010 Sep 31 2010 FY10 Complete	11		FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	3964				0	3964	
	Reach D FEDERAL	11		34967	0	0	38221	37232	43.65	989	38221	0	311	37449	1083	38532
		11		Expenditure Allocations		Start FY2016	End 1-Apr-2016	Midpoint 23-Nov-2016	Period(YRS) 5.83	Expend. 3254				Inflation Amt 311	Fully Funded 3565	
	NON-FEDERAL - Section 104	11		34967	0	0	34,967	34967	0	0	34967	0	0	34967	0	34967
	Levees, C4006	11		Expenditure Allocations		Start FY2009	End 1-Oct-2008	Midpoint 1-Oct-2009	Period(YRS) 0.00	Expend. 3111				Inflation Amt 0	Fully Funded 3111	
	Levees, C3947	11		FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	13835				0	13835	
	Levees, C3980	11		FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	12876				0	12876	
	Levees, Borrow Sites, C3980	11		FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	3289				0	3289	
	Levees, C4046	11		FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1856				0	1856	
	Reach E	11		0	0	0	42,307	30569	38.4	11738	42307	0	3249	32916	12640	45556
		11		Expenditure Allocations		Start FY2015	End 1-Apr-2015	Midpoint 3-Nov-2015	Period(YRS) 4.80	Expend. 42307				Inflation Amt 3249	Fully Funded 45556	
	Reach F	11		0	0	0	46,506	35245	31.95	11261	46506	0	2706	37296	11916	49212
		11		Expenditure Allocations		Start FY2014	End 1-Apr-2014	Midpoint 9-Oct-2014	Period(YRS) 3.76	Expend. 46506				Inflation Amt 2706	Fully Funded 49212	
	Reach G	11		0	0	0	35,015	25543	37.08	9472	35015	0	2661	27485	10191	37676
		11		Expenditure Allocations		Start FY2015	End 1-Apr-2015	Midpoint 2-Oct-2015	Period(YRS) 4.75	Expend. 35015				Inflation Amt 2661	Fully Funded 37676	
	Reach H	11		0	0	0	40,401	30435	32.745	9966	40401	0	2399	32242	10558	42800

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			PREVIOUS 1-Oct-2009	COST CHANGES			CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT				
				PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)	
			11	Expenditure Allocations		Start 1-Apr-2014	End 27-Nov-2014	Midpoint 30-Jul-2014	Period(YRS) 3.83	Expend. 40401			Inflation Amt 2399	Fully Funded 42800		
	Reach I		11	0	0	0	17,527	13859	26.47	3668	17527	0	706	14417	3816	18233
			11	Expenditure Allocations		Start 1-Apr-2013	End 1-Oct-2013	Midpoint 1-Jul-2013	Period(YRS) 2.75	Expend. 17527			Inflation Amt 706	Fully Funded 18233		
13	PUMPING PLANT Reach A	13	0 0	0	0	0	56135 6,003	42044 4818	24.59	14091 1185	56135 6003	0 0	3775 193	44793 4973	15117 1223	59910 6196
			13	Expenditure Allocations		Start 1-Apr-2013	End 2-Apr-2012	Midpoint 26-Oct-2013	Period(YRS) 2.29	Expend. 6003			Inflation Amt 193	Fully Funded 6196		
	Reach B	13	0	0	0	0	17,215	13840	24.39	3375	17215	0	697	14400	3512	17912
			13	Expenditure Allocations		Start 1-Apr-2013	End 1-Apr-2013	Midpoint 9-Oct-2013	Period(YRS) 2.76	Expend. 17215			Inflation Amt 697	Fully Funded 17912		
	Reach C	13	0	0	0	0	21,496	15066	42.68	6430	21496	0	2036	16493	7039	23532
			13	Expenditure Allocations		Start 1-Apr-2016	End 1-Apr-2016	Midpoint 17-Oct-2016	Period(YRS) 5.78	Expend. 21496			Inflation Amt 2036	Fully Funded 23532		
	Reach D	13	0	0	0	0	4,207	2820	49.2	1387	4207	0	402	3089	1520	4609
			13	Expenditure Allocations		Start 1-Apr-2016	End 1-Apr-2016	Midpoint 23-Nov-2016	Period(YRS) 5.83	Expend. 4207			Inflation Amt 402	Fully Funded 4609		
	Reach G	13	0	0	0	0	2,823	2078	35.85	745	2823	0	215	2236	802	3038
			13	Expenditure Allocations		Start 1-Apr-2015	End 1-Apr-2015	Midpoint 2-Oct-2015	Period(YRS) 4.75	Expend. 2823			Inflation Amt 215	Fully Funded 3038		
	Reach H	13	0	0	0	0	2,881	2227	29.35	654	2881	0	171	2359	693	3052
			13	Expenditure Allocations		Start 1-Apr-2014	End 1-Apr-2014	Midpoint 27-Nov-2014	Period(YRS) 3.83	Expend. 2881			Inflation Amt 171	Fully Funded 3052		
	Reach I	13	0	0	0	0	1,510	1195	26.35	315	1510	0	61	1243	328	1571
			13	Expenditure Allocations		Start 1-Apr-2013	End 1-Oct-2013	Midpoint 1-Jul-2013	Period(YRS) 2.75	Expend. 1510			Inflation Amt 61	Fully Funded 1571		
18	CULTURAL RESOURCES PRESERV.	(1)	0	0	0	0	6578	5660	16.21	918	6578	0	261	5885	954	6839
30	PLANNING/ENGINEERING/DESIGN Reach A	A	84588 3961	0 0	0	0	129097 14163	123807 12946	0	5290 1217	129097 14163	0	4640 670	127870 13536	5867 1297	133737 14833

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			COST CHANGES			CURRENT							CURRENT				
			PRICE LEVEL (6)(\$K)		OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)			DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)		
	FEDERAL	A	612	0	0	10,814	9597	13.55	1217	10814	0	670	10187	1297	11484		
		A	Expenditure Allocations		Start FY2009	End 1-Oct-2008	Midpoint 1-Apr-2009	Period(YRS) 0.00	Expend. 124				Inflation Amt 0	Fully Funded 124			
		A	A FY2010 Projected Sunk Cost		A FY2012	1-Oct-2009	1-Oct-2010	1-Oct-2011	488	10202		670	0	488	10872		
	NON-FEDERAL - Section 104	C	3349	0	0	3,349	3349	0	0	3349	0	0	3349	0	3349		
		C	Expenditure Allocations		Start FY2007	End 1-Oct-2006	Midpoint 1-Apr-2007	Period(YRS) 0.00	Expend. 43				Inflation Amt 0	Fully Funded 43			
		C	C FY2008		C FY2009	1-Oct-2008	1-Oct-2009	1-Oct-2010	56			0	0	56			
		C	C FY2010 Projected Sunk Cost		C FY2012	1-Oct-2009	1-Oct-2010	1-Oct-2011	764	2486		0	0	764	2486		
	Reach B FEDERAL	A	34283	0	0	44003	43088		915	44003	0	494	43538	959	44497		
		A	1530	0	0	8,994	8347	9.49	647	8994	0	482	8787	689	9476		
		A	Expenditure Allocations		Start FY2009	End 1-Oct-2008	Midpoint 1-Oct-2009	Period(YRS) 0.00	Expend. 310				Inflation Amt 0	Fully Funded 310			
		A	A FY2010 Projected Sunk Cost		A FY2012	1-Oct-2009	1-Oct-2010	9-Oct-2013	1220	7464		482	0	1220	7946		
	NON-FEDERAL - Section 104	C	32753	0	0	35,009	34741	13.5	268	35009	0	12	34751	270	35021		
		C	Expenditure Allocations		Start FY2006	End 1-Oct-2005	Midpoint 1-Oct-2006	Period(YRS) 0.00	Expend. 53				Inflation Amt 0	Fully Funded 53			
		C	C FY2007		C FY2008	1-Oct-2006	1-Oct-2007	1-Oct-2008	507			0	0	507			
		C	C FY2009		C FY2010	1-Oct-2007	1-Oct-2008	1-Oct-2009	5620			0	0	5620			
		C	C FY2010 Projected Sunk Cost		C FY2011	1-Oct-2008	1-Oct-2009	1-Oct-2010	12757			0	0	12757			
		C	C FY2011		C FY2012	1-Oct-2009	1-Oct-2010	1-Oct-2011	13816	2256		12	0	13816	2268		
	Reach C FEDERAL	A	23682	0	0	26367	26040		327	26367	0	569	26540	396	26936		
		A	805	0	0	3,490	3163	13.85	327	3490	0	569	3663	396	4059		
		A	Expenditure Allocations		Start FY2009	End 1-Oct-2008	Midpoint 1-Oct-2009	Period(YRS) 0.00	Expend. 163				Inflation Amt 0	Fully Funded 163			
		A	A FY2010 Projected Sunk Cost		A FY2015	1-Oct-2009	1-Oct-2010	17-Oct-2016	642	2685		569	0	642	3254		
	NON-FEDERAL - Section 104	C	22877	0	0	22,877	22877	0	0	22877	0	0	22877	0	22877		
		C	Expenditure Allocations		Start FY2006	End 1-Oct-2005	Midpoint 1-Oct-2006	Period(YRS) 0.00	Expend. 613				Inflation Amt 0	Fully Funded 613			
		C	C FY2007		C FY2008	1-Oct-2006	1-Oct-2007	1-Oct-2008	4083			0	0	4083			
		C	C FY2009		C FY2010	1-Oct-2007	1-Oct-2008	1-Oct-2009	9647			0	0	9647			
		C	C FY2010 Projected Sunk Cost		C FY2011	1-Oct-2008	1-Oct-2009	1-Oct-2010	7137			0	0	7137			
		C	C FY2011		C FY2012	1-Oct-2009	1-Oct-2010	1-Oct-2011	1397			0	0	1397			
	Reach D FEDERAL	A	9688	0	0	10846	10705		141	10846	0	249	10923	172	11095		
		A	886	0	0	2,044	1903	13.9	141	2044	0	249	2121	172	2293		

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				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009 EST (12)(\$K)	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT	
				PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	DIRECT COST (14)(\$K)			CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
			A Expenditure Allocations	Start FY2009	End 1-Oct-2008	Midpoint 1-Apr-2009	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			A FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	707				0	707	
			A FY2015	1-Oct-2014	23-Nov-2016	28-Oct-2015	5.08	1158				249	1407	
	NON-FEDERAL - Section 104	C	8802	0	0	8802	0	0	8802	0	0	8802	0	8802
			C Expenditure Allocations	Start FY2006	End 1-Oct-2005	Midpoint 1-Apr-2006	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			C FY2007	1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	1604				0	1604	
			C FY2008	1-Oct-2007	1-Oct-2009	30-Sep-2008	0.00	2457				0	2457	
			C FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	3361				0	3361	
			C FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	541				0	541	
	Reach E FEDERAL	A	3982	0	0	9049	8239	810	9049	0	821	8928	942	9870
		A	532	0	0	5,599	4789	810	5599	0	821	5478	942	6420
		A Expenditure Allocations	FY2009	Start 1-Oct-2008	End 1-Oct-2009	Midpoint 1-Apr-2009	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
		A FY2010 Projected Sunk Cost	FY2014	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	424				0	424	
		A FY2014	1-Oct-2013	3-Nov-2015	17-Oct-2014	4.05	5067					821	5888	
	NON-FEDERAL - Section 104	C	3450	0	0	3,450	3450	0	3450	0	0	3450	0	3450
		C Expenditure Allocations	FY2007	Start 1-Oct-2006	End 1-Oct-2007	Midpoint 1-Apr-2007	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
		C FY2008	1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	1470					0	1470	
		C FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1294					0	1294	
		C FY2010 Projected Sunk Cost	FY2010	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	493				0	493	
	Reach F FEDERAL	A	2740	0	0	7546	6969	577	7546	0	536	7440	642	8082
		A	0	0	0	4,806	4229	577	4806	0	536	4700	642	5342
		A Expenditure Allocations	FY2013	Start 1-Oct-2012	End 9-Oct-2014	Midpoint 5-Oct-2013	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
		A FY2014	1-Oct-2013	3-Oct-2014	3.01	4806						536	5342	
	NON-FEDERAL - Section 104	C	2740	0	0	2,740	2740	0	2740	0	0	2740	0	2740
		C Expenditure Allocations	FY2007	Start 1-Oct-2006	End 1-Oct-2007	Midpoint 1-Apr-2007	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
		C FY2008	1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	829					0	829	
		C FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1116					0	1116	
		C FY2010 Projected Sunk Cost	FY2010	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	697				0	697	
	Reach G FEDERAL	A	0	0	0	3493	3065	428	3493	0	558	3555	496	4051
		A	0	0	0	3,493	3065	428	3493	0	558	3555	496	4051
		A Expenditure Allocations	FY2014	Start 1-Oct-2013	End 2-Oct-2015	Midpoint 1-Oct-2014	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
		A FY2015	1-Oct-2013	2-Oct-2015	4.00	3493						558	4051	

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	N O T E (1)	C	SUNK COST THRU 30-Sep-2010	FIRST COST						FULLY FUNDED (3)						
			O	O	PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT			
			T	D	E	E	AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)
	Reach H FEDERAL		A	4148	0	0	9482	6,059	8845	13.55	637	9482	0	612	9384	710	10094
			A	725	0	0	6,059		5422		637	6059	0	612	5961	710	6671
				Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			A	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	147			0	147		
			A	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	578			0	578		
			A	FY2013			1-Oct-2012	27-Nov-2014	29-Oct-2013	3.08	5334			612	5946		
	NON-FEDERAL - Section 104		C	3423	0	0	3,423		3423		0	3423	0	0	3423	0	3423
				Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			C	FY2006			1-Oct-2005	1-Oct-2006	1-Apr-2006	0.00	3			0	3		
			C	FY2007			1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	101			0	101		
			C	FY2008			1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	1567			0	1567		
			C	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1263			0	1263		
			C	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	489			0	489		
	Reach I FEDERAL		A	2104	0	0	0	4,148	3,910	238	4148	0	131	4026	253	4279	
			A	0	0	0	2,044	1806	13.15	238	2044	0	131	1922	253	2175	
				Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			A	FY2012			1-Oct-2011	1-Oct-2013	30-Sep-2012	2.00	2044			131	2175		
	NON-FEDERAL - Section 104		C	2104	0	0	0	2,104	2104		0	2104	0	0	2104	0	2104
				Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			C	FY2006			1-Oct-2005	1-Oct-2006	1-Apr-2006	0.00	29			0	29		
			C	FY2007			1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	128			0	128		
			C	FY2008			1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	354			0	354		
			C	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	676			0	676		
			C	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	917			0	917		
31	CONSTRUCTION MANAGEMENT Reach A		A	120851	0	0	0	151033	143678	0	7355	151033	0	4113	146740	8406	155146
			A	0	0	0	6,288	4,792	31.23	1496	6288	0	487	5163	1612	6775	
				Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			A	FY2013			2-Apr-2012	26-Oct-2013	13-Jan-2013	2.29	6288			487	6775		
	Reach B FEDERAL		A	36773	0	0	0	42182	41108		1074	42182	0	354	41394	1142	42536
			A	0	0	0	3,383	2,727	24.05	656	3383	0	337	2999	721	3720	
				Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			A	FY2013			1-Apr-2013	9-Oct-2013	5-Jul-2013	2.76	3383			337	3720		
	NON-FEDERAL - Section 104		C	36773	0	0	0	38,799	38381	25.98	418	38799	0	17	38395	421	38816
				Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	
			C	FY2007			1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	4			0	4		
			C	FY2008			1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	2			0	2		
			C	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	2642			0	2642		
			C	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	34125			0	34125		
			C	FY2011			1-Apr-2011	1-Oct-2011	1-Jul-2011	0.75	2026			17	2043		

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (1)	C O T E S	SUNK COST THRU 30-Sep-2010	FIRST COST							FULLY FUNDED (3)					
				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT			
				AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)			EST (12)(\$K)	DIRECT COST (13)(\$K)	CONTIN- GENCY (14)(\$K)	COST EST 12+6+7+13 (16)(\$K)
													EST (12)(\$K)	DIRECT COST (13)(\$K)	CONTIN- GENCY (14)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	Reach C FEDERAL	A A	36561 0	0	0	38353 1,792		37818 1257	42.53	535 535	38353 1792	0 0	452 452	38135 1574	670 670	38805 2244
		A	Expenditure Allocations		Start 1-Apr-2016	End 17-Oct-2016	Midpoint 9-Jul-2016	Period(YRS) 5.78	Expend. 1792					Inflation Amt 452	Fully Funded 2244	
	NON-FEDERAL - Section 104	C	36561	0	0	36,561		36561		0	36561	0	0	36561	0	36561
		C	Expenditure Allocations		Start 1-Oct-2007	End 1-Oct-2007	Midpoint 1-Apr-2007	Period(YRS) 0.00	Expend. 779					Inflation Amt 0	Fully Funded 779	
		C	FY2008		1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	2675					0	2675	
		C	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	5588					0	5588	
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	27519					0	27519	
	Reach D FEDERAL	A A	47517 0	0	0	48114 597		47924 407	46.7	190 190	48114 597	0 0	152 152	48028 511	238 238	48266 749
		A	Expenditure Allocations		Start 1-Apr-2016	End 23-Nov-2016	Midpoint 28-Jul-2016	Period(YRS) 5.83	Expend. 597					Inflation Amt 152	Fully Funded 749	
	NON-FEDERAL - Section 104	C	47517	0	0	47,517		47517		0	47517	0	0	47517	0	47517
		C	Expenditure Allocations		Start 1-Oct-2007	End 1-Oct-2007	Midpoint 1-Apr-2007	Period(YRS) 0.00	Expend. 13395					Inflation Amt 0	Fully Funded 13395	
		C	FY2008		1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	9061					0	9061	
		C	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	18143					0	18143	
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	6918					0	6918	
	Reach E	A	0	0	0	3,922		2838	38.2	1084	3922	0	786	3407	1301	4708
		A	Expenditure Allocations		Start 1-Apr-2015	End 3-Nov-2015	Midpoint 18-Jul-2015	Period(YRS) 4.80	Expend. 3922					Inflation Amt 786	Fully Funded 4708	
	Reach F	A	0	0	0	3,721		2820	31.95	901	3721	0	551	3238	1034	4272
		A	Expenditure Allocations		Start 1-Apr-2014	End 9-Oct-2014	Midpoint 5-Jul-2014	Period(YRS) 3.76	Expend. 3721					Inflation Amt 551	Fully Funded 4272	
	Reach G	A	0	0	0	2,799		2043	37	756	2799	0	555	2448	906	3354
		A	Expenditure Allocations		Start 1-Apr-2015	End 2-Oct-2015	Midpoint 2-Jul-2015	Period(YRS) 4.75	Expend. 2799					Inflation Amt 555	Fully Funded 3354	
	Reach H	A	0	0	0	4,131		3131	31.95	1000	4131	0	625	3604	1152	4756
		A	Expenditure Allocations		Start 1-Apr-2014	End 27-Nov-2014	Midpoint 30-Jul-2014	Period(YRS) 3.83	Expend. 4131					Inflation Amt 625	Fully Funded 4756	

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (1)	C O T E S (3)	SUNK COST THRU 30-Sep-2010	FIRST COST							FULLY FUNDED (3)					
				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
				AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	Reach I	A	0	0	0	1,523		1204	26.5	319	1523	0	151	1323	351	1674
		A	Expenditure Allocations FY2013		Start 1-Apr-2013	End 1-Oct-2013	Midpoint 1-Jul-2013	Period(YRS) 2.75	Expend. 1523				Inflation Amt 151	Fully Funded 1674		
	TOTAL COST (FEDERAL FUNDS & NON-FEDERAL CASH CONTRIBUTION)		286755	0	0	768287		657480		110807	768287	0	30734	681063	117958	799021
	NON-FEDERAL CASH CONTRIBUTION (-)		3077	0	29	55249		45741		9537	55278	0	2340	47521	10097	57618
	SECTION 104 (-)		253974	0	0	55249		45741		9508	55249	0	2354	47521	10082	57603
	TOTAL FEDERAL COST		29704	0	-29	657789	565998			91762	657760	0	26040	586021	97779	683800
	NON-FEDERAL COST															
1	LANDS AND DAMAGES	C	7772	0	0	205338		155431	0	49907	205338	0	9304	162311	52331	214642
	Reach A	C	417	0	0	28,959		23347	24.473	5612	28959	0	430	23693	5696	29389
	Acquisition Condemnation Appraisal Rights of Entry	C	Expenditure Allocations FY2010 Projected Sunk Cost		Start 1-Oct-2009	End 1-Oct-2010	Midpoint 1-Apr-2010	Period(YRS) 0.00	Expend. 369				Inflation Amt 0	Fully Funded 369		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	19				0	19		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	6				0	6		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	23				0	23		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	28542				430	28972		
	Reach B	C	3503	0	0	55,077		40931	37.794	14146	55077	0	1629	42114	14592	56706
	Acquisition Condemnation Appraisal Reloc Assist Rights of Entry	C	Expenditure Allocations FY2010 Projected Sunk Cost		Start 1-Oct-2009	End 1-Oct-2010	Midpoint 1-Apr-2010	Period(YRS) 0.00	Expend. 1869				Inflation Amt 0	Fully Funded 1869		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	849				0	849		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	283				0	283		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	12				0	12		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	490				0	490		
		C	FY2013		1-Oct-2012	1-Apr-2013	31-Dec-2012	2.25	51574				1629	53203		
	Reach C	C	1998	0	0	15,181		11207	43.15	3974	15181	0	1122	11991	4312	16303
	Acquisition Condemnation Appraisal Rights of Entry	C	Expenditure Allocations FY2010 Projected Sunk Cost		Start 1-Oct-2009	End 1-Oct-2010	Midpoint 1-Apr-2010	Period(YRS) 0.00	Expend. 1014				Inflation Amt 0	Fully Funded 1014		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	578				0	578		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	193				0	193		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	213				0	213		
		C	FY2016		1-Oct-2015	1-Apr-2016	31-Dec-2015	5.25	13183				1122	14305		
	Reach D	C	1021	0	0	5,165		3633	58.65	1532	5165	0	353	3856	1662	5518
	Acquisition Condemnation Appraisal Reloc Assist Rights of Entry	C	Expenditure Allocations FY2010 Projected Sunk Cost		Start 1-Oct-2009	End 1-Oct-2010	Midpoint 1-Apr-2010	Period(YRS) 0.00	Expend. 515				Inflation Amt 0	Fully Funded 515		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	306				0	306		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	102				0	102		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	7				0	7		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	91				0	91		
		C	FY2016		1-Oct-2015	1-Apr-2016	31-Dec-2015	5.25	4144				353	4497		

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				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT				PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT		
				AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)			EST (12)(\$K)	(13)(\$K)	(14)(\$K)
	Reach E	C	378	0	0	33,251	25076	33.1	8175	33251	0	2201	26730	8722	35452	
	Acquisition Condemnation Appraisal Rights of Entry			Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2014	1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Apr-2015	1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 31-Dec-2014	0.00 0.00 0.00 0.00 4.25	195 61 20 102 32873			0 0 0 0 2201	195 61 20 102 35074		
	Reach F	C	99	0	0	13,767	9220	49.86	4547	13767	0	671	9667	4771	14438	
	Acquisition Condemnation Appraisal Reloc Assist Rights of Entry			Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2013	1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Apr-2014	1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 31-Dec-2013	0.00 0.00 0.00 0.00 3.25	82 7 2 1 13668			0 0 0 0 671	82 7 2 1 14339		
	Reach G	C	0	0	0	18,340	13118	39.81	5222	18340	0	1228	13996	5572	19568	
				Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
	C FY2015					1-Oct-2014	1-Apr-2015	31-Dec-2014	4.25	18340			1228	19568		
	Reach H	C	215	0	0	32,005	26642	20.293	5363	32005	0	1561	27940	5626	33566	
	Acquisition Condemnation Appraisal Rights of Entry			Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2014	1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2013	1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Apr-2014	1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 31-Dec-2013	0.00 0.00 0.00 0.00 3.25	140 21 7 47 31790			0 0 0 0 1561	140 21 7 47 33351		
	Reach I	C	141	0	0	3,593	2257	63.1	1336	3593	0	109	2324	1378	3702	
	Acquisition Condemnation Appraisal Rights of Entry			Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2010 Projected Sunk Cost	C FY2013	1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2012	1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 31-Dec-2012	1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 2.25	0.00 0.00 0.00 0.00 3452	70 15 5 51 3452			0 0 0 0 109	70 15 5 51 3561		
2	RELOCATIONS	2	9066	0	0	110766	85183	25.583	110766	0	6280	89786	27260	117046		
	Reach A	2	0	0	0	13,608	10851	25.41	13608	0	438	11200	2846	14046		
				Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
	FY2013					2-Apr-2012	26-Oct-2013	13-Jan-2013	2.29	13608			438	14046		
	Reach B	2	3577	0	0	22,909	19164	24.03	3745	22909	0	783	19795	3897	23692	

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S	C O O T D E E 30-Sep-2010	SUNK COST THRU	PREVIOUS 1-Oct-2009	FIRST COST						PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	FULLY FUNDED (3)			
				COST CHANGES			CURRENT			CURRENT					CURRENT		
				AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)	
Relocations, Roads, Contract 4046 May 2010 Sep 31 2010 FY10 Complete Elkhorn Irr Canal, Phase 2A, Contract 4047 May 2010 Sep 31 2010 FY10 Complete Relocations, Private Irr Fac, Contract 4047 May 2010 Sep 31 2010 FY10 Complete Gas Line Relocation, Calpine Gas, at Garden Highway Contract 4046 May 2010 Sep 31 2010 FY10 Complete Underground Electrical Conduit for Street Light Contract 4046 May 2010 Sep 31 2010 FY10 Complete Relocate Street Light Contract 4046 May 2010 Sep 31 2010 FY10 Complete	2	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.					Inflation Amt	Fully Funded		
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	280					0	280		
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1766					0	1766		
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1206					0	1206		
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	318					0	318		
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	2					0	2		
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	5					0	5		
	2	FY2013			1-Apr-2013	9-Oct-2013	5-Jul-2013	2.76	19332					783	20115		
	Reach C	2	4132	0	0	12,190	9625	46.7	2565	12190	0	763	10145	2808	12953		
Relocations, Roadways, Contract 3980 5/09 - 7/10 95% in FY09 Relocations, Roadways, Contract 4032 8/15/09 - 9/30/10 20% for FY09 Relocations, Private Irr Fac, Contract 3980 95% in FY09 Relocations, Private Irr Fac, Contract 4032 8/15/09 - 9/30/10 20% for FY09 Relocations, Roadways, Contract 3980 5/09 -7/10 5% in FY10 Relocations, Roadways, Contract 4032 8/15/09 - 9/30/10 80% for FY10 Relocations, Private Irr Fac, Contract 3980 5% in FY10 Relocations, Private Irr Fac, Contract 4032 8/15/09 - 9/30/10 80% for FY10 Relocations, Private River Diversion Replacement, Contract 4053 5/10-9/30/10	2	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded			
	2	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	296				0	296			
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	16				0	16			
	2	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	87				0	87			
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	348				0	348			
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	360				0	360			
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	262				0	262			
	2	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	14				0	14			
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	832				0	832			
	2	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	6				0	6			
	2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1911				0	1911			
	2	FY2016			1-Apr-2016	17-Oct-2016	9-Jul-2016	5.78	8058				763	8821			
Reach D	2	1357	0	0	12,323	8903	45.33	3420	12323	0	1049	9624	3748	13372			
Road Relocations, C3947 Road Relocations, C3980 Utility Relocations, C3980		Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded			
		2	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	778				0	778			
		2	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	562				0	562			
		2	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	17				0	17			
		2	FY2016		1-Apr-2016	23-Nov-2016	28-Jul-2016	5.83	10966				1049	12015			

PROJECT: NATOMAS PACR, NED PLAN
LOCATION: CALIFORNIA
PROJECT COST ESTIMATE(PCE)

DATE PREPARED: 25-Aug-2010
PRICE LEVEL: 1-Oct-2010

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CODE OF ACCT. NO. (1)	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S (3)	C O S T THRU 30-Sep-2010	FIRST COST							FULLY FUNDED (3)				
				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT		
				AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)
	Reach E	2	0	0	0	10,951	7801	40.38	3150	10951	0	841	8400	3392	11792
		2	Expenditure Allocations FY2015		Start 1-Apr-2015	End 3-Nov-2015	Midpoint 18-Jul-2015	Period(YRS) 4.80	Expend. 10951				Inflation Amt 841	Fully Funded 11792	
	Reach F	2	0	0	0	11,945	9006	32.63	2939	11945	0	695	9530	3110	12640
		2	Expenditure Allocations FY2014		Start 1-Apr-2014	End 9-Oct-2014	Midpoint 5-Jul-2014	Period(YRS) 3.76	Expend. 11945				Inflation Amt 695	Fully Funded 12640	
	Reach G	2	0	0	0	10,676	7795	36.96	2881	10676	0	811	8387	3100	11487
		2	Expenditure Allocations FY2015		Start 1-Apr-2015	End 2-Oct-2015	Midpoint 2-Jul-2015	Period(YRS) 4.75	Expend. 10676				Inflation Amt 811	Fully Funded 11487	
	Reach H	2	0	0	0	12,996	9537	36.27	3459	12996	0	772	10103	3665	13768
		2	Expenditure Allocations FY2014		Start 1-Apr-2014	End 27-Nov-2014	Midpoint 30-Jul-2014	Period(YRS) 3.83	Expend. 12996				Inflation Amt 772	Fully Funded 13768	
	Reach I	2	0	0	0	3,168	2501	26.65	667	3168	0	128	2602	694	3296
		2	Expenditure Allocations FY2013		Start 1-Apr-2013	End 1-Oct-2013	Midpoint 1-Jul-2013	Period(YRS) 2.75	Expend. 3168				Inflation Amt 128	Fully Funded 3296	
SECTION 104	Reach A	0	281665	0	0	311069	305202		5867	311069	0	236	305391	5914	311305
	Reach B	0	3349	0	0	3349	3349		0	3349	0	0	3349	0	3349
	Reach C	0	92853	0	0	122257	116390		5867	122257	0	236	116579	5914	122493
	Reach D	0	82460	0	0	82460	82460		0	82460	0	0	82460	0	82460
	Reach E	0	91286	0	0	91286	91286		0	91286	0	0	91286	0	91286
	Reach F	0	3450	0	0	3450	3450		0	3450	0	0	3450	0	3450
	Reach H	0	2740	0	0	2740	2740		0	2740	0	0	2740	0	2740
	Reach I	0	3423	0	0	3423	3423		0	3423	0	0	3423	0	3423
	Reach A	0	2104	0	0	2104	2104		0	2104	0	0	2104	0	2104
30	PLANNING/ENGINEERING/DESIGN	2	8280	0	0	19614	16670		2944	19614	0	573	17088	3099	20187
		2	Expenditure Allocations FY2010 Projected Sunk Cost FY2012		Start 1-Oct-2009	End 1-Oct-2010	Midpoint 1-Apr-2010	Period(YRS) 0.00	Expend. 3				Inflation Amt 0	Fully Funded 3	
	Reach B	2	4090	0	0	4,625	4521	24	104	4625	0	15	4534	106	4640
		2	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	

PROJECT: NATOMAS PACR, NED PLAN
LOCATION: CALIFORNIA
PROJECT COST ESTIMATE(PCE)

DATE PREPARED: 25-Aug-2010
PRICE LEVEL: 1-Oct-2010

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (1)	C O O T E S (2)	SUNK COST THRU 30-Sep-2010 (3)	FIRST COST							FULLY FUNDED (3)					
				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009 EST (12)(\$K)	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
				PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	DIRECT COST (14)(\$K)			CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)		
				2 FY2008 2 FY2009 2 FY2010 Projected Sunk Cost 2 FY2012	1-Oct-2007 1-Oct-2008 1-Oct-2009 1-Oct-2011	1-Oct-2008 1-Oct-2009 1-Oct-2010 9-Oct-2013	1-Apr-2008 1-Apr-2009 1-Apr-2010 4-Oct-2012	0.00 0.00 0.00 2.01	406 1444 2240 535				0 0 0 15	406 1444 2240 550		
	Reach C			2 3896	0	0	4,863	4555	46.7	308	4863	0	78	4608	333	4941
				2 Expenditure Allocations 2 FY2006 2 FY2007 2 FY2008 2 FY2009 2 FY2010 Projected Sunk Cost 2 FY2015	Start 1-Oct-2005 1-Oct-2006 1-Oct-2007 1-Oct-2008 1-Oct-2009 1-Oct-2014	End 1-Oct-2006 1-Oct-2007 1-Oct-2008 1-Oct-2009 1-Oct-2010 17-Oct-2016	Midpoint 1-Apr-2006 1-Apr-2007 1-Apr-2008 1-Apr-2009 1-Apr-2010 9-Oct-2015	Period(YRS) 0.00 0.00 0.00 0.00 0.00 5.03	Expend. 211 697 1073 1214 701 967				Inflation Amt 0 0 0 0 0 78	Fully Funded 211 697 1073 1214 701 1045		
	Reach D			2 272	0	0	1,446	1080	45.33	366	1446	0	73	1130	389	1519
				2 Expenditure Allocations 2 FY2009 2 FY2010 Projected Sunk Cost 2 FY2014	Start 1-Oct-2008 1-Oct-2009 1-Oct-2013	End 1-Oct-2009 1-Oct-2010 2-Oct-2015	Midpoint 1-Apr-2009 1-Apr-2010 1-Oct-2014	Period(YRS) 0.00 0.00 4.00	Expend. 170 102 1174				Inflation Amt 0 0 73	Fully Funded 170 102 1247		
	Reach E			2 0	0	0	1,643	1170	40.38	473	1643	0	104	1244	503	1747
				2 Expenditure Allocations FY2014	Start 1-Oct-2013	End 3-Nov-2015	Midpoint 17-Oct-2014	Period(YRS) 4.05	Expend. 1643				Inflation Amt 104	Fully Funded 1747		
	Reach F			2 0	0	0	1,433	1081	32.61	352	1433	0	64	1129	368	1497
				2 Expenditure Allocations FY2013	Start 1-Oct-2012	End 9-Oct-2014	Midpoint 5-Oct-2013	Period(YRS) 3.01	Expend. 1433				Inflation Amt 64	Fully Funded 1497		
	Reach G			2 8	0	0	1,609	1177	37	432	1609	0	100	1250	459	1709
				2 Expenditure Allocations 2 FY2010 Projected Sunk Cost 2 FY2014	Start 1-Oct-2009 1-Oct-2013	End 1-Oct-2010 2-Oct-2015	Midpoint 1-Apr-2010 1-Oct-2014	Period(YRS) 0.00 4.00	Expend. 8 1601				Inflation Amt 0 100	Fully Funded 8 1701		
	Reach H			2 5	0	0	1,564	1149	36.3	415	1564	0	72	1202	434	1636
				2 Expenditure Allocations 2 FY2010 Projected Sunk Cost 2 FY2013	Start 1-Oct-2009 1-Oct-2012	End 1-Oct-2010 27-Nov-2014	Midpoint 1-Apr-2010 29-Oct-2013	Period(YRS) 0.00 3.08	Expend. 5 1559				Inflation Amt 0 72	Fully Funded 5 1631		
	Reach I			2 6	0	0	386	306	26.8	80	386	0	10	314	82	396
				2 Expenditure Allocations 2 FY2010 Projected Sunk Cost 2 FY2012	Start 1-Oct-2009 1-Oct-2011	End 1-Oct-2010 1-Oct-2013	Midpoint 1-Apr-2010 30-Sep-2012	Period(YRS) 0.00 2.00	Expend. 6 380				Inflation Amt 0 10	Fully Funded 6 390		

PROJECT: NATOMAS PACR, NED PLAN
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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S (3)	C	SUNK COST THRU 30-Sep-2010	FIRST COST						FULLY FUNDED (3)					
			O	D	PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT		
			E	E	AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)
31	CONSTRUCTION MANAGEMENT	2	560	0	0	0	7555 1,089	5723 868	25.41	1832 221	7555 1089	0	449 35	6050 896	1954 228	8004 1124
	Reach A	2	Expenditure Allocations			Start 2-Apr-2012	End 26-Oct-2013	Midpoint 13-Jan-2013	Period(YRS) 2.29	Expend. 1089				Inflation Amt 35	Fully Funded 1124	
	Reach B	2	530	0	0	816	760	24.1	56	816	0	2	762	56	818	
		2	Expenditure Allocations			Start 1-Oct-2008 1-Oct-2009 1-Oct-2011	End 1-Oct-2009 1-Oct-2010 1-Oct-2011	Midpoint 1-Apr-2009 1-Apr-2010 1-Jul-2011	Period(YRS)	Expend. 74 456 286				Inflation Amt 0 0 2	Fully Funded 74 456 288	
	Reach C	2	30	0	0	675	470	46.6	205	675	0	61	512	224	736	
		2	Expenditure Allocations			Start 1-Oct-2008 1-Oct-2009 1-Apr-2016	End 1-Oct-2009 1-Oct-2010 17-Oct-2016	Midpoint 1-Apr-2009 1-Apr-2010 9-Jul-2016	Period(YRS)	Expend. 22 8 645				Inflation Amt 0 0 61	Fully Funded 22 8 706	
	Reach D	2	0	0	0	782	538	45.33	244	782	0	75	590	267	857	
		2	Expenditure Allocations			Start 1-Apr-2016	End 23-Nov-2016	Midpoint 28-Jul-2016	Period(YRS) 5.83	Expend. 782				Inflation Amt 75	Fully Funded 857	
	Reach E	2	0	0	0	876	624	40.38	252	876	0	67	672	271	943	
		2	Expenditure Allocations			Start 1-Apr-2015	End 3-Nov-2015	Midpoint 18-Jul-2015	Period(YRS) 4.80	Expend. 876				Inflation Amt 67	Fully Funded 943	
	Reach F	2	0	0	0	956	721	32.51	235	956	0	56	764	248	1012	
		2	Expenditure Allocations			Start 1-Apr-2014	End 9-Oct-2014	Midpoint 5-Jul-2014	Period(YRS) 3.76	Expend. 956				Inflation Amt 56	Fully Funded 1012	
	Reach G	2	0	0	0	1,068	779	37.1	289	1068	0	81	838	311	1149	
		2	Expenditure Allocations			Start 1-Apr-2015	End 2-Oct-2015	Midpoint 2-Jul-2015	Period(YRS) 4.75	Expend. 1068				Inflation Amt 81	Fully Funded 1149	
	Reach H	2	0	0	0	1,040	763	36.3	277	1040	0	62	809	293	1102	
		2	Expenditure Allocations			Start 1-Apr-2014	End 27-Nov-2014	Midpoint 30-Jul-2014	Period(YRS) 3.83	Expend. 1040				Inflation Amt 62	Fully Funded 1102	
	Reach I	2	0	0	0	253	200	26.8	53	253	0	10	207	56	263	
		2	Expenditure Allocations			Start 1-Apr-2013	End 1-Oct-2013	Midpoint 1-Jul-2013	Period(YRS) 2.75	Expend. 253				Inflation Amt 10	Fully Funded 263	

PROJECT: NATOMAS PACR, NED PLAN
LOCATION: CALIFORNIA
PROJECT COST ESTIMATE(PCE)

DATE PREPARED: 25-Aug-2010
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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S	C O D E 30-Sep-2010	SUNK COST THRU	FIRST COST						FULLY FUNDED (3)														
				PREVIOUS 1-Oct-2009	COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT													
					PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)		EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)									
(1)																									
	TOTAL NON-FEDERAL LERRD			307343	0	0	654342	568209		86133	654342	0	16842	580626	90558	671184									
	NON-FEDERAL CASH CONTRIBUTION (+)			3077	0	29	55249	45741		9537	55278	0	2340	47521	10097	57618									
	SECTION 104 (-), Remaining Allowable			27691	0	0	255820	259461		-3641	255820	0	-2118	257870	-4168	253702									
	TOTAL NON-FEDERAL COST			282729	0	29	453771	354489		99311	453800	0	21300	370277	104823	475100									
	TOTAL NED COST			312433	0	0	1111560	920487		191073	1111560	0	47340	956298	202602	1158900									
	BASIS OF ESTIMATE:																								
(1)	Cultural Resources Preservation costs associated with mitigation and/or data recovery up to one percent of the total Federal cost are not subject to cost sharing.																								
(2)	Federal administrative costs for Non-federal land acquisition																								
(3)	The Fully Funded cost estimate was prepared in compliance with OMB INDEXES EC-11-2-199, published on MAR. 31, 2010..																								
(4)	CWCCIS indexes from 10/01/2009 to 10/01/2010, are projected rates for Lands and Constructions. OMB escalation rates are actual for PED & CM and Real Estate Admin.																								
(5)	The Project Cost Estimate was prepared based on the Natoms PCR report Dated Oct 1 2010.																								

PROJECT: NATOMAS PACR, LPP PLAN													DATE PREPARED: 25-Aug-2010		
LOCATION: CALIFORNIA													PRICE LEVEL: 1-Oct-2010		
PROJECT COST ESTIMATE(PCE) SUMMARY OF COST															
CODE OF ACCT. NO. (1)	FEATURE/SUBFEATURE (NOTE) (2)	(3)	SUNK COST THRU 30-Sep-2010	PREVIOUS 1-Oct-2009	FIRST COST							FULLY FUNDED (3)			
			AMOUNT (4)(\$K)	COST EST (5)(\$K)	COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (12)(\$K)	CURRENT			
			PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)			DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)	
	FEDERAL														
1	LANDS AND DAMAGES, Admin		0	0	0	4127	3590		537	4127	0	463	3993	597	4590
1	LANDS AND DAMAGES, Real Estate		0	0	0	14365	10301		4064	14365	0	671	10769	4267	15036
6	FISH AND WILDLIFE FACILITIES		1865	0	0	18869	15175		3694	18869	0	1072	15996	3945	19941
11	LEVEES AND FLOODWALLS		90921	0	0	417350	338254		79096	417350	0	16338	350477	83211	433688
13	PUMPING PLANT		0	0	0	56135	42044		14091	56135	0	3775	44793	15117	59910
18	CULTURAL RESOURCES PRESERV.		0	0	0	6578	5660		918	6578	0	261	5885	954	6839
30	PLANNING/ENGINEERING/DESIGN		84588	0	0	130834	125320		5514	130834	0	4773	129501	6106	135607
31	CONSTRUCTION MANAGEMENT		120851	0	0	152434	144745		7689	152434	0	4241	147897	8778	156675
	TOTAL COST (FEDERAL FUNDS & NON-FEDERAL CASH CONTRIBUTION)		298225	0	0	800692	685089		115603	800692	0	31594	709311	122975	832286
	NON-FEDERAL CASH CONTRIBUTION (-)		14547	0	29	87654	73350		14333	87683	0	3200	75769	15114	90883
	SECTION 104 (-)		253974	0	0	55249	45741		9508	55249	0	2354	47521	10082	57603
	TOTAL FEDERAL COST		29704	0	-29	657789	565998		91762	657760	0	26040	586021	97779	683800
	NON-FEDERAL COST														
1	LANDS AND DAMAGES		7772	0	0	205338	155431		49907	205338	0	9304	162311	52331	214642
2	RELOCATIONS		11724	0	0	127700	98315		29385	127700	0	7205	103589	31316	134905
30	SECTION 104		281665	0	0	311069	305202		5867	311069	0	236	305391	5914	311305
31	PLANNING/ENGINEERING/DESIGN		8280	0	0	21630	18152		3478	21630	0	677	18645	3662	22307
	31	CONSTRUCTION MANAGEMENT	560	0	0	8740	6593		2147	8740	0	520	6968	2292	9260
	TOTAL NON-FEDERAL LERRD		310001	0	0	674477	583693		90784	674477	0	17942	596904	95515	692419
	NON-FEDERAL CASH CONTRIBUTION (+)		14547	0	29	87654	73350		14333	87683	0	3200	75769	15114	90883
	Cost Above NED		11470	0	0	32405	27609		4796	32405	0	860	28248	5017	33265
	SECTION 104 (-)		27691	0	0	255820	259461		-3641	255820	0	-2118	257870	-4168	253702
	TOTAL NON-FEDERAL COST		296857	0	29	506311	397582		108758	506340	0	23260	414803	114797	529600
	TOTAL LPP COST		326561	0	0	1164100	963580		200520	1164100	0	49300	1000824	212576	1213400
	SUMMARY OF ESTIMATED COSTS														
	FEDERAL COST (CORPS OF ENGINEERS)		29704	0	-29	657789	565998		91762	657760	0	26040	586021	97779	683800

PROJECT: NATOMAS PACR, LPP PLAN													DATE PREPARED: 25-Aug-2010		
LOCATION: CALIFORNIA													PRICE LEVEL: 1-Oct-2010		
PROJECT COST ESTIMATE(PCE) SUMMARY OF COST															
CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	SUNK COST THRU 30-Sep-2010 (3)	PREVIOUS 1-Oct-2009	FIRST COST							FULLY FUNDED (3)				
				COST CHANGES		CURRENT				PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (12)(\$K)	CURRENT			
			AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)		EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	REQUIRED NON-FEDERAL COST (+) CASH CONTRIBUTION OTHER COSTS	296857 14547 282310	0 0 0	29 29 0	506311 87654 418657	397582 73350 324232			108758 14333 94425	506340 87683 418657	0 0 0	23260 3200 20060	414803 75769 339034	114797 15114 99683	529600 90883 438717
	TOTAL FEDERAL AND REQUIRED NON-FEDERAL COSTS	326561	0	0	1164100	963580			200520	1164100	0	49300	1000824	212576	1213400
PROJECT EXECUTIVE SUMMARY															
1	LANDS AND DAMAGES	7772	0	0	223830	169322			54508	223830	0	10438	177073	57195	234268
2	RELOCATIONS	11724	0	0	127700	98315			29385	127700	0	7205	103589	31316	134905
6	FISH AND WILDLIFE FACILITIES	1865	0	0	18869	15175			3694	18869	0	1072	15996	3945	19941
11	LEVEES AND FLOODWALLS	90921	0	0	417350	338254			79096	417350	0	16338	350477	83211	433688
13	PUMPING PLANT	0	0	0	56135	42044			14091	56135	0	3775	44793	15117	59910
18	CULTURAL RESOURCES PRESERV.	0	0	0	6578	5660			918	6578	0	261	5885	954	6839
30	PLANNING, ENGINEERING AND DESIGN	92868	0	0	152464	143472			8992	152464	0	5450	148146	9768	157914
31	CONSTRUCTION MANAGEMENT	121411	0	0	161174	151338			9836	161174	0	4761	154865	11070	165935
			326561	0	0	1164100	963580		200520	1164100	0	49300	1000824	212576	1213400
			29704	0	-29	657789	565998		91762	657760	0	26040	586021	97779	683800
			296857	0	29	506311	397582		108758	506340	0	23260	414803	114797	529600

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CODE OF ACCT. NO. (1)	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S (3)	C O S T T H R U 30-Sep-2010	FIRST COST							FULLY FUNDED (3)					
				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
				COST EST (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	FEDERAL															
1	LANDS AND DAMAGES, Admin. Reach A	(2)	A	0 0	0 0	0 0	4127 765	3590 666	0 14.95	537 99	4127 765	0 0	463 30	3993 692	597 103	4590 795
		A	Expenditure Allocations FY2012		Start 1-Oct-2011	End 2-Apr-2012	Midpoint 1-Jan-2012	Period(YRS) 1.25	Expend. 765					Inflation Amt 30	Fully Funded 795	
	Reach B	A	Expenditure Allocations FY2013		Start 1-Oct-2012	End 1-Apr-2013	Midpoint 31-Dec-2012	Period(YRS) 2.25	Expend. 945					Inflation Amt 72	Fully Funded 1017	
	Reach C	A	Expenditure Allocations FY2016		Start 1-Oct-2015	End 1-Apr-2016	Midpoint 31-Dec-2015	Period(YRS) 5.25	Expend. 295					Inflation Amt 66	Fully Funded 361	
	Reach D	A	Expenditure Allocations FY2016		Start 1-Oct-2015	End 1-Apr-2016	Midpoint 31-Dec-2015	Period(YRS) 5.25	Expend. 98					Inflation Amt 22	Fully Funded 120	
	Reach E	A	Expenditure Allocations FY2015		Start 1-Oct-2014	End 1-Apr-2015	Midpoint 31-Dec-2014	Period(YRS) 4.25	Expend. 397					Inflation Amt 68	Fully Funded 465	
	Reach F	A	Expenditure Allocations FY2014		Start 1-Oct-2013	End 1-Apr-2014	Midpoint 31-Dec-2013	Period(YRS) 3.25	Expend. 321					Inflation Amt 40	Fully Funded 361	
	Reach G	A	Expenditure Allocations FY2015		Start 1-Oct-2014	End 1-Apr-2015	Midpoint 31-Dec-2014	Period(YRS) 4.25	Expend. 241					Inflation Amt 42	Fully Funded 283	
	Reach H	A	Expenditure Allocations FY2014		Start 1-Oct-2013	End 1-Apr-2014	Midpoint 31-Dec-2013	Period(YRS) 3.25	Expend. 902					Inflation Amt 111	Fully Funded 1013	
	Reach I	A	Expenditure Allocations FY2013		Start 1-Oct-2012	End 1-Apr-2013	Midpoint 31-Dec-2012	Period(YRS) 2.25	Expend. 163					Inflation Amt 12	Fully Funded 175	

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S (3)	C O S T T H R U 30-Sep-2010	FIRST COST							FULLY FUNDED (3)					
				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
				AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
1	LANDS AND DAMAGES, Real Estate	C	0 0	0 0	0 0	14365 2312	10301 1792	0 29	4064 520	14365 2312	0 0	671 35	10769 1819	4267 528	15036 2347	
	Reach A	C	Expenditure Allocations		Start FY2012	End 1-Oct-2011	Midpoint 2-Apr-2012	Period(YRS) 1.25	Expend. 2312				Inflation Amt 35	Fully Funded 2347		
	Reach B	C	0 0	0 0	0 0	5848	4147	41.01	1701	5848	0 0	185	4278	1755	6033	
		C	Expenditure Allocations		Start FY2013	End 1-Oct-2012	Midpoint 1-Apr-2013	Period(YRS) 2.25	Expend. 5848				Inflation Amt 185	Fully Funded 6033		
	Reach C	C	0 0	0 0	0 0	1027	709	44.9	318	1027	0 0	87	769	345	1114	
		C	Expenditure Allocations		Start FY2016	End 1-Oct-2015	Midpoint 1-Apr-2016	Period(YRS) 5.25	Expend. 1027				Inflation Amt 87	Fully Funded 1114		
	Reach D	C	0 0	0 0	0 0	2512	1580	59	932	2512	0 0	214	1714	1012	2726	
		C	Expenditure Allocations		Start FY2016	End 1-Oct-2015	Midpoint 1-Apr-2016	Period(YRS) 5.25	Expend. 2512				Inflation Amt 214	Fully Funded 2726		
	Reach E	C	0 0	0 0	0 0	1074	790	36	284	1074	0 0	72	843	303	1146	
		C	Expenditure Allocations		Start FY2015	End 1-Oct-2014	Midpoint 1-Apr-2015	Period(YRS) 4.25	Expend. 1074				Inflation Amt 72	Fully Funded 1146		
	Reach H	C	0 0	0 0	0 0	1592	1283	24.1	309	1592	0 0	78	1346	324	1670	
		C	Expenditure Allocations		Start FY2014	End 1-Oct-2013	Midpoint 1-Apr-2014	Period(YRS) 3.25	Expend. 1592				Inflation Amt 78	Fully Funded 1670		
6	FISH & WILDLIFE FACILITIES	6 6 6	1865 164 0	0 0 0	0 0 0	18869 1877 1635	15175 1862 1635		3694 15 0	18869 1877 1635	0 0 0	1072 60 59	15996 1922 1694	3945 15 0	19941 1937 1694	
	Reach B	6	Expenditure Allocations		FY2013	Start 1-Oct-2013	End 1-Apr-2013	Midpoint 1-Oct-2013	Period(YRS) 2.50	Expend. 1635				Inflation Amt 59	Fully Funded 1694	
	FEDERAL															
	NON-FEDERAL - Section 104	6	164 Expenditure Allocations FY2009 FY2010 Projected Sunk Cost FY2011	0 Start 1-Oct-2008 1-Oct-2009 1-Oct-2010 1-Apr-2011	0 0 0 0	242	227	24	15	242	0 0	1	228	15	243	
		6 6 6	Expenditure Allocations		FY2009 FY2010 Projected Sunk Cost FY2011	Start 1-Oct-2008 1-Oct-2009 1-Oct-2010 1-Apr-2011	End 1-Oct-2009 1-Oct-2010 1-Apr-2010 1-Jul-2011	Midpoint 1-Oct-2009 1-Oct-2010 1-Apr-2010 1-Jul-2011	Period(YRS) 0.00 0.00 0.75	Expend. 14 150 78				Inflation Amt 0 0 1	Fully Funded 14 150 79	
	Reach C	6 0	1701 Expenditure Allocations FY2016	0 Start 1-Oct-2016	0 1-Apr-2016	1926 225	1926 225	0	0 0	1926 225	0 0	0	1926 225	0 0	1926 225	
	FEDERAL															
		O	Expenditure Allocations		FY2016	Start 1-Oct-2016	End 1-Apr-2016	Midpoint 1-Oct-2016	Period(YRS) 5.50	Expend. 225				Inflation Amt 0	Fully Funded 225	

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (2)	N O T E S	C O O D E 30-Sep-2010	SUNK COST THRU PREVIOUS 1-Oct-2009	FIRST COST							FULLY FUNDED (3)					
					COST CHANGES			CURRENT				PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT			
					PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)			DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)	
					AMOUNT (4)(\$K)	COST EST (5)(\$K)											
	NON-FEDERAL - Section 104		6	1701	0	0	1701	1701	0	0	1701	0	0	1701	0	1701	
			6	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded		
			6	FY2007	1-Oct-2006	1-Oct-2007	1-Oct-2008	1-Apr-2007	0.00	1139				0	1139		
			6	FY2008	1-Oct-2007	1-Oct-2008	1-Oct-2009	1-Apr-2008	0.00	498				0	498		
			6	FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	1-Apr-2010	0.00	64				0	64		
	Reach E		6	0	0	0	6717	4907	36.9	1810	6717	0	516	5283	1950	7233	
			6	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded		
			6	FY2015	1-Apr-2015	3-Nov-2015	18-Jul-2015	4.80	6717					516	7233		
	Reach H		6	0	0	0	8349	6480	28.84	1869	8349	0	496	6865	1980	8845	
			6	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded		
			6	FY2014	1-Apr-2014	27-Nov-2014	30-Jul-2014	3.83	8349					496	8845		
11	LEVEES & FLOODWALLS		11	90921	0	0	0	417350	338254	79096	417350	0	16338	350477	83211	433688	
	Reach A		11	0	0	0	72593	55084	31.785	17509	72593	0	0	2337	56858	18072	
			11	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded		
			11	FY2013	2-Apr-2012	26-Oct-2013	13-Jan-2013	2.29	72593					2337	74930		
	Reach B		11	26288	0	0	0	86102	74105	11997	86102	0	1295	75147	12250	87397	
			11	0	0	0	25077	20245	23.865	4832	25077	0	0	1009	21060	5026	
			11	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded		
			11	FY2013	1-Apr-2013	9-Oct-2013	5-Jul-2013	2.76	25077					1009	26086		
	NON-FEDERAL - Section 104		11	26288	0	0	0	61025	53860	25.985	7165	61025	0	286	54087	7224	61311
			11	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded		
			11	FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	199					0	199		
	Demo, Structure Demo, Tree Removal, Contract 4047 May 2010 Sep 31 2010 FY10 Complete GGS Drainage Canal, Schoolhouse Rd Pipeline & Teal Bend Pipeline, Contract 4046 May 2010 Sep 31 2010 FY10 Complete		11	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	5176				0	5176		
	Levees, Contract 4046 May 2010 May 2010 Sep 31 2010 FY10 Complete		11	FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	20913					0	20913		
			11	FY2011	1-Apr-2011	1-Oct-2011	1-Jul-2011	0.75	34737					286	35023		
	Reach C		11	25292	0	0	0	26200	25943	257	26200	0	86	26005	281	26286	
			11	0	0	0	908	651	39.5	257	908	0	86	713	281	994	
			11	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded		
			11	FY2016	1-Apr-2016	17-Oct-2016	9-Jul-2016	5.78	908					86	994		

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			COST CHANGES			CURRENT				CHANGE IN INFLAT - ION (13)(\$K)		CURRENT			
			PRICE LEVEL (6)(\$K)		OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	NON-FEDERAL - Section 104	11	25292	0	0	25292	25292	0	0	25292	0	0	25292	0	25292
		11	Expenditure Allocations		Start FY2009	End 1-Oct-2008	Midpoint 1-Oct-2009	Period(YRS)	Expend.				Inflation Amt 0	Fully Funded 1611	
		11	Expenditure Allocations		FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	85			0	85	
		11	Expenditure Allocations		FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	2882			0	2882	
		11	Expenditure Allocations		FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	2881			0	2881	
		11	Expenditure Allocations		FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1564			0	1564	
		11	Expenditure Allocations		FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	4499			0	4499	
		11	Expenditure Allocations		FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	4498			0	4498	
		11	Expenditure Allocations		FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	3308			0	3308	
		11	Expenditure Allocations		FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	3964			0	3964	
	Reach D FEDERAL	11	39341	0	0	42894	41814	1080	42894	0	340	42050	1184	43234	
		11	Expenditure Allocations		Start FY2016	End 1-Apr-2016	Midpoint 23-Nov-2016	Period(YRS) 5.83	Expend. 3553				Inflation Amt 340	Fully Funded 3893	
	NON-FEDERAL - Section 104	11	39341	0	0	39341	39341	0	39341	0	0	39341	0	39341	
		11	Expenditure Allocations		Start FY2009	End 1-Oct-2008	Midpoint 1-Oct-2009	Period(YRS)	Expend.				Inflation Amt 0	Fully Funded 3679	
		11	Expenditure Allocations		FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	14272			0	14272	
		11	Expenditure Allocations		FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	13317			0	13317	
		11	Expenditure Allocations		FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	5919			0	5919	
		11	Expenditure Allocations		FY2009	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	2154			0	2154	
	Reach E	11	0	0	0	46281	33402	38.558	12879	46281	0	3554	35967	13868	49835
		11	Expenditure Allocations		Start FY2015	End 1-Apr-2015	Midpoint 3-Nov-2015	Period(YRS) 4.80	Expend. 46281				Inflation Amt 3554	Fully Funded 49835	
	Reach F	11	0	0	0	48589	36823	31.952	11766	48589	0	2827	38966	12450	51416
		11	Expenditure Allocations		Start FY2014	End 1-Apr-2014	Midpoint 9-Oct-2014	Period(YRS) 3.76	Expend. 48589				Inflation Amt 2827	Fully Funded 51416	
	Reach G	11	0	0	0	36763	26789	37.23	9974	36763	0	2794	28825	10732	39557
		11	Expenditure Allocations		Start FY2015	End 1-Apr-2015	Midpoint 2-Oct-2015	Period(YRS) 4.75	Expend. 36763				Inflation Amt 2794	Fully Funded 39557	
	Reach H	11	0	0	0	40401	30435	32.745	9966	40401	0	2399	32242	10558	42800
		11	Expenditure Allocations		Start FY2014	End 1-Apr-2014	Midpoint 27-Nov-2014	Period(YRS) 3.83	Expend. 40401				Inflation Amt 2399	Fully Funded 42800	
	Reach I	11	0	0	0	17527	13859	26.465	3668	17527	0	706	14417	3816	18233
		11	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.				Inflation Amt	Fully Funded	

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			O	D	PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT			
			E	E	AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
			11	FY2013			1-Apr-2013	1-Oct-2013	1-Jul-2013	2.75	17527				706	18233	
13	PUMPING PLANT Reach A	13	0	0	0	0	56135 6003		42044 4818		14091 1185	56135 6003	0 0	3775 193	44793 4973	15117 1223	59910 6196
			13	Expenditure Allocations FY2013		Start 2-Apr-2012	End 26-Oct-2013	Midpoint 13-Jan-2013	Period(YRS) 2.29	Expend. 6003					Inflation Amt 193	Fully Funded 6196	
	Reach B	13	0	0	0	0	17215		13840	24.39	3375	17215	0	697	14400	3512	17912
		13	Expenditure Allocations FY2013		Start 1-Apr-2013	End 9-Oct-2013	Midpoint 5-Jul-2013	Period(YRS) 2.76	Expend. 17215						Inflation Amt 697	Fully Funded 17912	
	Reach C	13	0	0	0	0	21496		15066	42.68	6430	21496	0	2036	16493	7039	23532
		13	Expenditure Allocations FY2016		Start 1-Apr-2016	End 17-Oct-2016	Midpoint 9-Jul-2016	Period(YRS) 5.78	Expend. 21496						Inflation Amt 2036	Fully Funded 23532	
	Reach D	13	0	0	0	0	4207		2820	49.2	1387	4207	0	402	3089	1520	4609
		13	Expenditure Allocations FY2016		Start 1-Apr-2016	End 23-Nov-2016	Midpoint 28-Jul-2016	Period(YRS) 5.83	Expend. 4207						Inflation Amt 402	Fully Funded 4609	
	Reach G	13	0	0	0	0	2823		2078	35.85	745	2823	0	215	2236	802	3038
		13	Expenditure Allocations FY2015		Start 1-Apr-2015	End 2-Oct-2015	Midpoint 2-Jul-2015	Period(YRS) 4.75	Expend. 2823						Inflation Amt 215	Fully Funded 3038	
	Reach H	13	0	0	0	0	2881		2227	29.35	654	2881	0	171	2359	693	3052
		13	Expenditure Allocations FY2014		Start 1-Apr-2014	End 27-Nov-2014	Midpoint 30-Jul-2014	Period(YRS) 3.83	Expend. 2881						Inflation Amt 171	Fully Funded 3052	
	Reach I	13	0	0	0	0	1510		1195	26.4	315	1510	0	61	1243	328	1571
		13	Expenditure Allocations FY2013		Start 1-Apr-2013	End 1-Oct-2013	Midpoint 1-Jul-2013	Period(YRS) 2.75	Expend. 1510						Inflation Amt 61	Fully Funded 1571	
18	CULTURAL RESOURCES PRESERV.		0	0	0	0	6578		5660		918	6578	0	261	5885	954	6839
30	PLANNING/ENGINEERING/DESIGN Reach A FEDERAL	A	84588 3961 612	0 0 0	0 0 0	130834 14163 10814		125320 12946 9597	0 13.55	5514 1217 1217	130834 14163 10814	0 0 0	4773 670 670	129501 13536 10187	6106 1297 1297	135607 14833 11484	
		A	Expenditure Allocations FY2009 FY2010 Projected Sunk Cost FY2012		Start 1-Oct-2008 1-Oct-2009 1-Oct-2011	End 1-Oct-2009 1-Oct-2010 26-Oct-2013	Midpoint 1-Apr-2009 1-Apr-2010 13-Oct-2012	Period(YRS) 0.00 0.00 2.04	Expend. 124 488 10202						Inflation Amt 0 0 670	Fully Funded 124 488 10872	

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				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (12)(\$K)	CURRENT		
				PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)			DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	NON-FEDERAL - Section 104	C	3349	0	0	3349	3349	0	0	3349	0	0	3349	0	3349
		C	Expenditure Allocations		Start FY2007	End 1-Oct-2006	Midpoint 1-Apr-2007	Period(YRS) 0.00	Expend. 43			Inflation Amt 0	Fully Funded 43		
		C	FY2008		1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	56			0	56		
		C	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	764			0	764		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	2486			0	2486		
	Reach B FEDERAL	A	34283	0	0	44902	43880	1022	44902	499	44335	1066	45401		
		A	1530	0	0	8994	8347	9.49	8994	482	8787	689	9476		
		A	Expenditure Allocations		Start FY2009	End 1-Oct-2009	Midpoint 1-Apr-2009	Period(YRS) 0.00	Expend. 310			Inflation Amt 0	Fully Funded 310		
		A	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1220			0	1220		
		A	FY2012		1-Oct-2011	9-Oct-2013	4-Oct-2012	2.01	7464			482	7946		
	NON-FEDERAL - Section 104	C	32753	0	0	35908	35533	13.5	35908	0	17	35548	377	35925	
		C	Expenditure Allocations		Start FY2006	End 1-Oct-2005	Midpoint 1-Apr-2006	Period(YRS) 0.00	Expend. 53			Inflation Amt 0	Fully Funded 53		
		C	FY2007		1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	507			0	507		
		C	FY2008		1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	5620			0	5620		
		C	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	12757			0	12757		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	13816			0	13816		
		C	FY2011		1-Oct-2010	1-Oct-2011	1-Apr-2011	0.50	3155			17	3172		
	Reach C FEDERAL	A	23682	0	0	26367	26040	327	26367	0	569	26540	396	26936	
		A	805	0	0	3490	3163	327	3490	0	569	3663	396	4059	
		A	Expenditure Allocations		Start FY2009	End 1-Oct-2009	Midpoint 1-Apr-2009	Period(YRS) 0.00	Expend. 163			Inflation Amt 0	Fully Funded 163		
		A	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	642			0	642		
		A	FY2015		1-Oct-2014	9-Oct-2016	9-Oct-2015	5.03	2685			569	3254		
	NON-FEDERAL - Section 104	C	22877	0	0	22877	22877	0	22877	0	0	22877	0	22877	
		C	Expenditure Allocations		Start FY2006	End 1-Oct-2005	Midpoint 1-Apr-2006	Period(YRS) 0.00	Expend. 613			Inflation Amt 0	Fully Funded 613		
		C	FY2007		1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	4083			0	4083		
		C	FY2008		1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	9647			0	9647		
		C	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	7137			0	7137		
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1397			0	1397		
	Reach D FEDERAL	A	9688	0	0	10894	10746	148	10894	0	259	10973	180	11153	
		A	886	0	0	2092	1944	148	2092	0	259	2171	180	2351	
		A	Expenditure Allocations		Start FY2009	End 1-Oct-2009	Midpoint 1-Apr-2009	Period(YRS) 0.00	Expend. 179			Inflation Amt 0	Fully Funded 179		
		A	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	707			0	707		
		A	FY2015		1-Oct-2014	23-Nov-2016	28-Oct-2015	5.08	1206			259	1465		
	NON-FEDERAL - Section 104	C	8802	0	0	8802	8802	0	8802	0	0	8802	0	8802	

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			O	D	PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT		
			E	E	AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)
			C	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
			C	FY2006			1-Oct-2005	1-Oct-2006	1-Apr-2006	0.00	839			0	839	
			C	FY2007			1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	1604			0	1604	
			C	FY2008			1-Oct-2007	1-Oct-2009	30-Sep-2008	0.00	2457			0	2457	
			C	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	3361			0	3361	
			C	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	541			0	541	
	Reach E FEDERAL	A	3982	0	0	0	9453	8579	874	9453	0	887	9325	1015	10340	
		A	532	0	0	0	6003	5129	19	6003	0	887	5875	1015	6890	
		A	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
		A	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	108			0	108		
		A	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	424			0	424		
		A	FY2014			1-Oct-2013	3-Nov-2015	17-Oct-2014	4.05	5471			887	6358		
	NON-FEDERAL - Section 104	C	3450	0	0	0	3450	3450	0	3450	0	0	3450	0	3450	
		C	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
		C	FY2007			1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	193			0	193		
		C	FY2008			1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	1470			0	1470		
		C	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1294			0	1294		
		C	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	493			0	493		
	Reach F FEDERAL	A	2740	0	0	0	7761	7159	602	7761	0	560	7652	669	8321	
		A	0	0	0	0	5021	4419	13.63	5021	0	560	4912	669	5581	
		A	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
		A	FY2013			1-Oct-2012	9-Oct-2014	5-Oct-2013	3.01	5021			560	5581		
	NON-FEDERAL - Section 104	C	2740	0	0	0	2740	2740	0	2740	0	0	2740	0	2740	
		C	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
		C	FY2007			1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	98			0	98		
		C	FY2008			1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	829			0	829		
		C	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1116			0	1116		
		C	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	697			0	697		
	Reach G FEDERAL	A	0	0	0	0	3664	3215	13.95	3664	0	586	3730	520	4250	
		A	0	0	0	0	3664	3215	449	3664	0	586	3730	520	4250	
		A	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
		A	FY2014			1-Oct-2013	2-Oct-2015	1-Oct-2014	4.00	3664			586	4250		
	Reach H FEDERAL	A	4148	0	0	0	9482	8845	637	9482	0	612	9384	710	10094	
		A	725	0	0	0	6059	5422	13.55	6059	0	612	5961	710	6671	
		A	Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded		
		A	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	147			0	147		
		A	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	578			0	578		
		A	FY2013			1-Oct-2012	27-Nov-2014	29-Oct-2013	3.08	5334			612	5946		

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			PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
			AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)		EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	NON-FEDERAL - Section 104	C	3423	0	0	3423	3423	0	0	3423	0	0	3423	0	3423
		Expenditure Allocations			Start C FY2006 C FY2007 C FY2008 C FY2009 C FY2010 Projected Sunk Cost	End 1-Oct-2005 1-Oct-2006 1-Oct-2007 1-Oct-2008 1-Oct-2009 1-Oct-2010	Midpoint 1-Apr-2006 1-Apr-2007 1-Apr-2008 1-Apr-2009 1-Apr-2010	Period(YRS)	Expend. 0.00 0.00 0.00 0.00 0.00	3 101 1567 1263 489			Inflation Amt 0 0 0 0 0	Fully Funded 3 101 1567 1263 489	
	Reach I FEDERAL	A A	2104 0	0 0	0	4148 2044	3910 1806	13.15	238 238	4148 2044	0 0	131 131	4026 1922	253 253	4279 2175
		Expenditure Allocations			Start A FY2012	End 1-Oct-2011	Midpoint 30-Sep-2012	Period(YRS) 2.00	Expend. 2044				Inflation Amt 131	Fully Funded 2175	
	NON-FEDERAL - Section 104	C	2104	0	0	2104	2104	0	0	2104	0	0	2104	0	2104
		Expenditure Allocations			Start C FY2006 C FY2007 C FY2008 C FY2009 C FY2010 Projected Sunk Cost	End 1-Oct-2005 1-Oct-2006 1-Oct-2007 1-Oct-2008 1-Oct-2009 1-Oct-2010	Midpoint 1-Apr-2006 1-Apr-2007 1-Apr-2008 1-Apr-2009 1-Apr-2010	Period(YRS)	Expend. 0.00 0.00 0.00 0.00 0.00	29 128 354 676 917			Inflation Amt 0 0 0 0 0	Fully Funded 29 128 354 676 917	
31	CONSTRUCTION MANAGEMENT Reach A	A	120851 0	0 0	0	152434 6288	144745 4792	0 31.23	7689 1496	152434 6288	0 0	4241 487	147897 5163	8778 1612	156675 6775
		Expenditure Allocations			Start A FY2013	End 2-Apr-2012	Midpoint 26-Oct-2013	Period(YRS) 2.29	Expend. 6288				Inflation Amt 487	Fully Funded 6775	
	Reach B FEDERAL	A A	36773 0	0 0	0	42935 3383	41706 2727	24.05	1229 656	42935 3383	0 0	360 337	41996 2999	1299 721	43295 3720
		Expenditure Allocations			Start A FY2013	End 1-Apr-2013	Midpoint 9-Oct-2013	Period(YRS) 2.76	Expend. 3383				Inflation Amt 337	Fully Funded 3720	
	NON-FEDERAL - Section 104	C	36773	0	0	39552	38979	26	573	39552	0	23	38997	578	39575
		Expenditure Allocations			Start C FY2007 C FY2008 C FY2009 C FY2010 Projected Sunk Cost C FY2011	End 1-Oct-2006 1-Oct-2007 1-Oct-2008 1-Oct-2009 1-Oct-2010 1-Apr-2011	Midpoint 1-Oct-2007 1-Oct-2008 1-Oct-2009 1-Apr-2009 1-Oct-2010 1-Oct-2011	Period(YRS)	Expend. 0.00 0.00 0.00 0.00 0.00 0.75	4 2 2642 34125 2779			Inflation Amt 0 0 0 0 0 23	Fully Funded 4 2 2642 34125 2802	
	Reach C FEDERAL	A A	36561 0	0 0	0	38353 1792	37818 1257	42.6	535 535	38353 1792	0 0	452 452	38135 1574	670 670	38805 2244
		Expenditure Allocations			Start A FY2016	End 1-Apr-2016	Midpoint 17-Oct-2016	Period(YRS) 5.78	Expend. 1792				Inflation Amt 452	Fully Funded 2244	

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			PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
			AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)		EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	NON-FEDERAL - Section 104	C	36561	0	0	36561	36561	0	0	36561	0	0	36561	0	36561
		C	Expenditure Allocations		Start FY2007	End 1-Oct-2006	Midpoint 1-Apr-2007	Period(YRS)	Expend.				Inflation Amt 0	Fully Funded 779	
		C	FY2008		1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	779				0	2675	
		C	FY2009		1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	2675				0	5587	
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	5587				0	27520	
	Reach D FEDERAL	A	47517	0	0	48138	47940	198	48138	0	158	48047	249	48296	
		A	Expenditure Allocations		Start FY2016	End 1-Apr-2016	Midpoint 28-Jul-2016	Period(YRS) 5.83	Expend.				Inflation Amt 158	Fully Funded 779	
	NON-FEDERAL - Section 104	C	47517	0	0	47517	47517	0	0	47517	0	0	47517	0	47517
		C	Expenditure Allocations		Start FY2007	End 1-Oct-2006	Midpoint 1-Oct-2007	Period(YRS)	Expend.				Inflation Amt 0	Fully Funded 13395	
		C	FY2008		1-Oct-2007	1-Oct-2008	1-Oct-2008	0.00	9061				0	18143	
		C	FY2009		1-Oct-2008	1-Oct-2009	1-Oct-2009	0.00	18143				0	6918	
		C	FY2010 Projected Sunk Cost		1-Oct-2009	1-Oct-2010	1-Oct-2010	0.00	6918				0		
	Reach E	A	0	0	0	4240	3065	38.32	1175	4240	0	850	3680	1410	5090
		A	Expenditure Allocations		Start FY2015	End 1-Apr-2015	Midpoint 3-Nov-2015	Period(YRS) 4.80	Expend.				Inflation Amt 850	Fully Funded 5090	
	Reach F	A	0	0	0	3887	2946	31.95	941	3887	0	576	3382	1081	4463
		A	Expenditure Allocations		Start FY2014	End 1-Apr-2014	Midpoint 9-Oct-2014	Period(YRS) 3.76	Expend.				Inflation Amt 576	Fully Funded 4463	
	Reach G	A	0	0	0	2939	2143	37.15	796	2939	0	582	2567	954	3521
		A	Expenditure Allocations		Start FY2015	End 1-Apr-2015	Midpoint 2-Oct-2015	Period(YRS) 4.75	Expend.				Inflation Amt 582	Fully Funded 3521	
	Reach H	A	0	0	0	4131	3131	31.95	1000	4131	0	625	3604	1152	4756
		A	Expenditure Allocations		Start FY2014	End 1-Apr-2014	Midpoint 27-Nov-2014	Period(YRS) 3.83	Expend.				Inflation Amt 625	Fully Funded 4756	
	Reach I	A	0	0	0	1523	1204	26.5	319	1523	0	151	1323	351	1674
		A	Expenditure Allocations		Start FY2013	End 1-Apr-2013	Midpoint 1-Oct-2013	Period(YRS) 2.75	Expend.				Inflation Amt 151	Fully Funded 1674	
	TOTAL COST (FEDERAL FUNDS & NON-FEDERAL CASH CONTRIBUTION)		298225	0	0	800692	685089		115603	800692	0	31594	709311	122975	832286

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			PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (12)(\$K)	CURRENT			
			PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)			DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)	
	NON-FEDERAL CASH CONTRIBUTION (-)		14547	0	29	87654	73350		14333	87683	0	3200	75769	15114	90883
	SECTION 104 (-)		253974	0	0	55249	45741		9508	55249	0	2354	47521	10082	57603
	TOTAL FEDERAL COST		29704	0	-29	657789	565998		91762	657760	0	26040	586021	-5065	683800
1	NON-FEDERAL COST														
1	LANDS AND DAMAGES		7772	0	0	205338	155431	0	49907	205338	0	9304	162311	52331	214642
	Reach A		417	0	0	28959	23347	24.473	5612	28959	0	430	23693	5696	29389
			Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	369			0	369	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	19			0	19	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	6			0	6	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	23			0	23	
			C FY2012			1-Oct-2011		1-Jan-2012	1.25	28542			430	28972	
	Reach B		C 3503	0	0	55077	40931	37.794	14146	55077	0	1629	42114	14592	56706
			Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1869			0	1869	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	849			0	849	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	283			0	283	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	12			0	12	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	490			0	490	
			C FY2013			1-Oct-2012		31-Dec-2012	2.25	51574			1629	53203	
	Reach C		C 1998	0	0	15181	11207	43.15	3974	15181	0	1122	11991	4312	16303
			Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1014			0	1014	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	578			0	578	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	193			0	193	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	213			0	213	
			C FY2016			1-Oct-2015		31-Dec-2015	5.25	13183			1122	14305	
	Reach D		C 1021	0	0	5165	3633	58.65	1532	5165	0	353	3856	1662	5518
			Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	515			0	515	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	306			0	306	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	102			0	102	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	7			0	7	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	91			0	91	
			C FY2016			1-Oct-2015		31-Dec-2015	5.25	4144			353	4497	
	Reach E		C 378	0	0	33251	25076	33.1	8175	33251	0	2201	26730	8722	35452
			Expenditure Allocations			Start	End	Midpoint	Period(YRS)	Expend.			Inflation Amt	Fully Funded	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	195			0	195	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	61			0	61	
			C FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	20			0	20	

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CODE OF ACCT. NO.	FEATURE/SUBFEATURE (NOTE) (1)	C O T E S (2)	SUNK COST THRU 30-Sep-2010 (3)	FIRST COST							FULLY FUNDED (3)					
				PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (12)(\$K)	CURRENT			
				PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)(%)	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)			DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)	
			C C	FY2010 Projected Sunk Cost FY2015	1-Oct-2009 1-Oct-2014	1-Oct-2010 1-Apr-2015	1-Apr-2010 31-Dec-2014	0.00 4.25	102 32873			0 2201	102 35074			
	Reach F		C	99	0	0	13767	9220	49.86	4547	13767	0	671	9667	4771	14438
			C C C C C C	Expenditure Allocations FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2014	Start 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2013	End 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Apr-2014	Midpoint 1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 31-Dec-2013	Period(YRS) 0.00 0.00 0.00 0.00 0.00	Expend. 82 7 2 1 7			Inflation Amt 0 0 0 0 0 671	Fully Funded 82 7 2 1 7 14339			
	Reach G		C	0	0	0	18340	13118	39.81	5222	18340	0	1228	13996	5572	19568
			C	Expenditure Allocations FY2015	Start 1-Oct-2014	End 1-Apr-2015	Midpoint 31-Dec-2014	Period(YRS) 4.25	Expend. 18340				Inflation Amt 1228	Fully Funded 19568		
	Reach H		C	215	0	0	32005	26642	20.293	5363	32005	0	1561	27940	5626	33566
			C C C C C	Expenditure Allocations FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2014	Start 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2013	End 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2014	Midpoint 1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 31-Dec-2013	Period(YRS) 0.00 0.00 0.00 0.00 3.25	Expend. 140 21 7 47 31790			Inflation Amt 0 0 0 0 1561	Fully Funded 140 21 7 47 33351			
	Reach I		C	141	0	0	3593	2257	63.1	1336	3593	0	109	2324	1378	3702
			C C C C C	Expenditure Allocations FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2013	Start 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2012	End 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Apr-2013	Midpoint 1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 31-Dec-2012	Period(YRS) 0.00 0.00 0.00 0.00 2.25	Expend. 70 15 5 51 3452			Inflation Amt 0 0 0 0 109	Fully Funded 70 15 5 51 3561			
2	RELOCATIONS		2 2	11724 0	0	0 0	127700 13608	98315 10851	25.41	29385 2757	127700 13608	0 0	7205 438	103589 11200	31316 2846	134905 14046
			2	Expenditure Allocations FY2013	Start 2-Apr-2012	End 26-Oct-2013	Midpoint 13-Jan-2013	Period(YRS) 2.29	Expend. 13608				Inflation Amt 438	Fully Funded 14046		
	Reach B		2	3809	0	0	26118	21796	24.03	4322	26118	0	904	22525	4497	27022
			2 2 2 2	Relocations, Roads, Contract 4046 May 2010 Sep 31 2010 FY10 Complete Elkhorn Irr Canal, Phase 2A, Contract 4047 May 2010 Sep 31 2010 FY10 Complete Relocations, Private Irr Fac, Contract 4047 May 2010 Sep 31 2010 FY10 Complete	Expenditure Allocations FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost FY2010 Projected Sunk Cost	Start 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009 1-Oct-2009	End 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010 1-Oct-2010	Midpoint 1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010 1-Apr-2010	Period(YRS) 0.00	Expend. 512 1766 1206			Inflation Amt 0 0 0	Fully Funded 512 1766 1206		

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			O	D	PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT		
			E	S	(3)	AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)
	Gas Line Relocation, Calpine Gas, at Garden Highway Contract 4046 May 2010 Sep 31 2010 FY10 Complete	2	FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	318						0	318	
	Underground Electrical Conduit for Street Light Contract 4046 May 2010 Sep 31 2010 FY10 Complete	2	FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	2						0	2	
	Relocate Street Light Contract 4046 May 2010 Sep 31 2010 FY10 Complete	2	FY2010 Projected Sunk Cost	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	5						0	5	
		2	FY2013	1-Apr-2013	9-Oct-2013	5-Jul-2013	2.76	22309						904	23213	
Reach C		2	5092	0	0	13151	10585	46.72	2566	13151	0	763	11105	2809	13914	
	Expenditure Allocations	2	Start	End	Midpoint	Period(YRS)	Expend.						Inflation Amt	Fully Funded		
	FY2009	2	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	603						0	603		
	FY2010 Projected Sunk Cost	2	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	32						0	32		
	FY2009	2	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	129						0	129		
	FY2010 Projected Sunk Cost	2	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	514						0	514		
	FY2010 Projected Sunk Cost	2	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	789						0	789		
	FY2010 Projected Sunk Cost	2	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	262						0	262		
	FY2009	2	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	14						0	14		
	FY2010 Projected Sunk Cost	2	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	833						0	833		
	FY2009	2	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	6						0	6		
	FY2010 Projected Sunk Cost	2	1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	1910						0	1910		
	FY2016	2	1-Apr-2016	17-Oct-2016	9-Jul-2016	5.78	8059						763	8822		
Reach D		2	2823	0	0	13900	10369	46.8	3531	13900	0	1060	11091	3869	14960	
	Expenditure Allocations	2	Start	End	Midpoint	Period(YRS)	Expend.						Inflation Amt	Fully Funded		
	FY2009	2	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	220						0	220		
	FY2009	2	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	778						0	778		
	FY2009	2	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	562						0	562		
	FY2009	2	1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1263						0	1263		
	FY2016	2	1-Apr-2016	23-Nov-2016	28-Jul-2016	5.83	11077						1060	12137		
Reach E		2	0	0	0	16050	11433	40.38	4617	16050	0	1233	12312	4971	17283	
	Expenditure Allocations	2	Start	End	Midpoint	Period(YRS)	Expend.						Inflation Amt	Fully Funded		
	FY2015	2	1-Apr-2015	3-Nov-2015	18-Jul-2015	4.80	16050						1233	17283		
Reach F		2	0	0	0	15419	11584	33.11	3835	15419	0	897	12258	4058	16316	
	Expenditure Allocations	2	Start	End	Midpoint	Period(YRS)	Expend.						Inflation Amt	Fully Funded		
	FY2014	2	1-Apr-2014	9-Oct-2014	5-Jul-2014	3.76	15419						897	16316		
Reach G		2	0	0	0	13290	9659	37.588	3631	13290	0	1010	10393	3907	14300	
	Expenditure Allocations	2	Start	End	Midpoint	Period(YRS)	Expend.						Inflation Amt	Fully Funded		
	FY2015	2	1-Apr-2015	2-Oct-2015	2-Jul-2015	4.75	13290						1010	14300		
Reach H		2	0	0	0	12996	9537	36.27	3459	12996	0	772	10103	3665	13768	
	Expenditure Allocations		Start	End	Midpoint	Period(YRS)	Expend.						Inflation Amt	Fully Funded		

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			O	D	PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT			
			E	E	AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
			2	FY2014			1-Apr-2014	27-Nov-2014	30-Jul-2014	3.83	12996				772	13768	
	Reach I		2	0	0		0	3,168	2501	26.68	667	3168	0	128	2602	694	3296
			2	Expenditure Allocations FY2013			Start 1-Apr-2013	End 1-Oct-2013	Midpoint 1-Jul-2013	Period(YRS) 2.75	Expend. 3168				Inflation Amt 128	Fully Funded 3296	
	SECTION 104		2	281665	0		0	311069	305202		5867	311069	0	236	305391	5914	311305
30	PLANNING/ENGINEERING/DESIGN	Reach A	2	8280	0		0	21630	18152		3478	21630	0	677	18645	3662	22307
			2	Expenditure Allocations FY2010 Projected Sunk Cost			Start 1-Oct-2009	End 1-Oct-2010	Midpoint 1-Apr-2010	Period(YRS) 0.00	Expend. 3				Inflation Amt 0	Fully Funded 3	
			2	FY2012			1-Oct-2011	26-Oct-2013	13-Oct-2012	2.04	2042				57	2099	
	Reach B		2	4090	0		0	5056	4869	24	187	5056	0	26	4890	192	5082
			2	Expenditure Allocations FY2008			Start 1-Oct-2007	End 1-Oct-2008	Midpoint 1-Apr-2008	Period(YRS) 0.00	Expend. 406				Inflation Amt 0	Fully Funded 406	
			2	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1444				0	1444	
			2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	2240				0	2240	
			2	FY2012			1-Oct-2011	9-Oct-2013	4-Oct-2012	2.01	966				26	992	
	Reach C		2	3896	0		0	4863	4555	46.8	308	4863	0	78	4608	333	4941
			2	Expenditure Allocations FY2006			Start 1-Oct-2005	End 1-Oct-2006	Midpoint 1-Apr-2006	Period(YRS) 0.00	Expend. 211				Inflation Amt 0	Fully Funded 211	
			2	FY2007			1-Oct-2006	1-Oct-2007	1-Apr-2007	0.00	697				0	697	
			2	FY2008			1-Oct-2007	1-Oct-2008	1-Apr-2008	0.00	1073				0	1073	
			2	FY2009			1-Oct-2008	1-Oct-2009	1-Apr-2009	0.00	1214				0	1214	
			2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	701				0	701	
			2	FY2015			1-Oct-2014	17-Oct-2016	9-Oct-2015	5.03	967				78	1045	
	Reach D		2	272	0		0	1457	1080	46.7	377	1457	0	74	1130	401	1531
			2	Expenditure Allocations FY2009			Start 1-Oct-2008	End 1-Oct-2009	Midpoint 1-Apr-2009	Period(YRS) 0.00	Expend. 170				Inflation Amt 0	Fully Funded 170	
			2	FY2010 Projected Sunk Cost			1-Oct-2009	1-Oct-2010	1-Apr-2010	0.00	102				0	102	
			2	FY2014			1-Oct-2013	2-Oct-2015	1-Oct-2014	4.00	1185				74	1259	
	Reach E		2	0	0		0	2408	1715	40.38	693	2408	0	152	1824	736	2560
			2	Expenditure Allocations FY2014			Start 1-Oct-2013	End 3-Nov-2015	Midpoint 17-Oct-2014	Period(YRS) 4.05	Expend. 2408				Inflation Amt 152	Fully Funded 2560	
	Reach F		2	0	0		0	1850	1390	33.1	460	1850	0	83	1452	481	1933
			2	Expenditure Allocations FY2013			Start 1-Oct-2012	End 9-Oct-2014	Midpoint 5-Oct-2013	Period(YRS) 3.01	Expend. 1850				Inflation Amt 83	Fully Funded 1933	

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			PREVIOUS 1-Oct-2009	COST CHANGES		CURRENT				PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION (13)(\$K)	CURRENT			
				PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)			EST (12)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)	COST EST 12+6+7+13 (16)(\$K)
	Reach G	2	8	0	0	2001	1457	37.55	544	2001	0	125	1548	578	2126
		2	Expenditure Allocations FY2010 Projected Sunk Cost FY2014			Start 1-Oct-2009 1-Oct-2013	End 1-Oct-2010 2-Oct-2015	Midpoint 1-Apr-2010 1-Oct-2014	Period(YRS) 0.00 4.00	Expend. 8 1993			Inflation Amt 0 125	Fully Funded 8 2118	
	Reach H	2	5	0	0	1564	1149	36.25	415	1564	0	72	1202	434	1636
		2	Expenditure Allocations FY2010 Projected Sunk Cost FY2013			Start 1-Oct-2009 1-Oct-2012	End 1-Oct-2010 27-Nov-2014	Midpoint 1-Apr-2010 29-Oct-2013	Period(YRS) 0.00 3.08	Expend. 5 1559			Inflation Amt 0 72	Fully Funded 5 1631	
	Reach I	2	6	0	0	386	306	26.7	80	386	0	10	314	82	396
		2	Expenditure Allocations FY2010 Projected Sunk Cost FY2012			Start 1-Oct-2009 1-Oct-2011	End 1-Oct-2010 1-Oct-2013	Midpoint 1-Apr-2010 30-Sep-2012	Period(YRS) 0.00 2.00	Expend. 6 380			Inflation Amt 0 10	Fully Funded 6 390	
31	CONSTRUCTION MANAGEMENT	2	560	0	0	0	8740	6593	2147	8740	0	520	6968	2292	9260
	Reach A	2	0	0	0	1089	868	25.41	221	1089	0	35	896	228	1124
		2	Expenditure Allocations FY2013			Start 2-Apr-2012	End 26-Oct-2013	Midpoint 13-Jan-2013	Period(YRS) 2.29	Expend. 1089			Inflation Amt 35	Fully Funded 1124	
	Reach B	2	530	0	0	1046	946	24	100	1046	0	4	949	101	1050
		2	Expenditure Allocations FY2009 FY2010 Projected Sunk Cost FY2011			Start 1-Oct-2008 1-Oct-2009 1-Apr-2011	End 1-Oct-2009 1-Oct-2010 1-Oct-2011	Midpoint 1-Apr-2009 1-Apr-2010 1-Jul-2011	Period(YRS) 0.00 0.00 0.75	Expend. 74 456 516			Inflation Amt 0 0 4	Fully Funded 74 456 520	
	Reach C	2	30	0	0	675	470	46.7	205	675	0	61	511	225	736
		2	Expenditure Allocations FY2009 FY2010 Projected Sunk Cost FY2016			Start 1-Oct-2008 1-Oct-2009 1-Apr-2016	End 1-Oct-2009 1-Oct-2010 17-Oct-2016	Midpoint 1-Apr-2009 1-Apr-2010 9-Jul-2016	Period(YRS) 0.00 0.00 5.78	Expend. 22 8 645			Inflation Amt 0 0 61	Fully Funded 22 8 706	
	Reach D	2	0	0	0	790	538	46.9	252	790	0	76	590	276	866
		2	Expenditure Allocations FY2016			Start 1-Apr-2016	End 23-Nov-2016	Midpoint 28-Jul-2016	Period(YRS) 5.83	Expend. 790			Inflation Amt 76	Fully Funded 866	
	Reach E	2	0	0	0	1284	915	40.3	369	1284	0	99	986	397	1383
		2	Expenditure Allocations FY2015			Start 1-Apr-2015	End 3-Nov-2015	Midpoint 18-Jul-2015	Period(YRS) 4.80	Expend. 1284			Inflation Amt 99	Fully Funded 1383	
	Reach F	2	0	0	0	1234	927	33.1	307	1234	0	72	981	325	1306

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			O	D	PREVIOUS 1-Oct-2009		COST CHANGES		CURRENT			PREVIOUS 1-Oct-2009	CHANGE IN INFLAT - ION	CURRENT		
			E	E	AMOUNT (4)(\$K)	COST EST (5)(\$K)	PRICE LEVEL (6)(\$K)	OTHER (SEE NOTE) (7)(\$K)	DIRECT COST (8)(\$K)	CONT RATE (9)%	CONTIN- GENCY (10)(\$K)	COST EST 5+6+7 (11)(\$K)	EST (12)(\$K)	(13)(\$K)	DIRECT COST (14)(\$K)	CONTIN- GENCY (15)(\$K)
			2	Expenditure Allocations FY2014		Start 1-Apr-2014	End 9-Oct-2014	Midpoint 5-Jul-2014	Period(YRS) 3.76	Expend. 1234				Inflation Amt 72	Fully Funded 1306	
Reach G			2	0	0	0	1329	966	37.6	363	1329	0	101	1039	391	1430
			2	Expenditure Allocations FY2015		Start 1-Apr-2015	End 2-Oct-2015	Midpoint 2-Jul-2015	Period(YRS) 4.75	Expend. 1329				Inflation Amt 101	Fully Funded 1430	
Reach H			2	0	0	0	1040	763	36.3	277	1040	0	62	809	293	1102
			2	Expenditure Allocations FY2014		Start 1-Apr-2014	End 27-Nov-2014	Midpoint 30-Jul-2014	Period(YRS) 3.83	Expend. 1040				Inflation Amt 62	Fully Funded 1102	
Reach I			2	0	0	0	253	200	26.8	53	253	0	10	207	56	263
			2	Expenditure Allocations FY2013		Start 1-Apr-2013	End 1-Oct-2013	Midpoint 1-Jul-2013	Period(YRS) 2.75	Expend. 253				Inflation Amt 10	Fully Funded 263	
TOTAL NON-FEDERAL LERRD				310001	0	0	674477	583693		90784	674477	0	17942	596904	95515	692419
NON-FEDERAL CASH CONTRIBUTION (+)				14547	0	29	87654	73350		14333	87683	0	3200	75769	15114	90883
NED Construction Share				3077	0	29	55249	45741		9537	55278	0	2340	47521	10097	57618
Cost Above NED				11470	0	0	32405	27609		4796	32405	0	860	28248	5017	33265
SECTION 104 (-), Remaining Allowable				27691	0	0	255820	259461		-3641	255820	0	-2118	257870	-4168	253702
TOTAL NON-FEDERAL COST				296857	0	29	506311	397582		108758	506340	0	23260	414803	114797	529600
TOTAL LPP COST				326561	0	0	1164100	963580		200520	1164100	0	49300	1000824	212576	1213400
BASIS OF ESTIMATE:																
(1) Cultural Resources Preservation costs associated with mitigation and/or data recovery up to one percent of the total Federal cost are not subject to cost sharing.																
(2) Federal administrative costs for Non-federal land acquisition																
(3) The Fully Funded cost estimate was prepared in compliance with OMB INDEXES EC-11-2-199, published on MAR. 31, 2010..																
(4) CWCCIS indexes from 10/01/2009 to 10/01/2010, are projected rates for Lands and Constructions. OMB escalation rates are actual for PED & CM and Real Estate Admin.																