Volume 1

Final Remedial Investigation/Feasibility
Study Work Plan & Associated Documents

Crab Orchard National Wildlife Refuge, Marion, IL

Additional and Uncharacterized Sites

RI/FS Work Plan

April, 2006

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Prepared on behalf of:

GENERAL DYNAMICS
Ordnance and Tactical Systems

VOLUME 1

FINAL
REMEDIAL INVESTIGATION/FEASIBILITY STUDY WORK PLAN AND ASSOCIATED DOCUMENTS CRAB ORCHARD NATIONAL WILDLIFE REFUGE MARION, ILLINOIS ADDITIONAL AND UNCHARACTERIZED SITES

April 14, 2006

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ACRONYMS AND ABBREVIATIONS

AOC	Administrative Order on Consent
ARARs	Applicable or Relevant and Appropriate Requirements
AST	Above-Ground Storage Tank
AUS OU	Additional and Uncharacterized Sites Operable Unit
BERA	Baseline Ecological Risk Assessment
bgs	below ground surface
BNAs	Base-neutral acids
BRA	Baseline Risk Assessment
CERCLA	Comprehensive Environmental Response, Compensation, and Liability Act
cm/sec	Centimeters per second
COC	Crab Orchard Cemetery
CONWR	Crab Orchard National Wildlife Refuge
COPC	Chemicals of Potential Concern
COPEC	Chemicals of Potential Ecological Concern
cPAH	Carcinogenic Polynuclear Aromatic Hydrocarbons
CRA	Conestoga Rovers and Associates
CRP	Community Relations Plan
CSEQG	Canadian Sediment Quality Guidelines
CSOQG	Canadian Soil Quality Guidelines
CSM	Conceptual Site Model
CVOC	Chlorinated Volatile Organic Compound
CWQG	Canadian Water Quality Guidelines
DAF	Dilution Attenuation Factor
Dbh	Diameter breast height
DGOLs	New Dutchlist Groundwater Optimum Levels
DOI	U.S. Department of Interior
DSOLs	New Dutchlist Soil Optimum Levels
DQO	Data Quality Objectives
EECA	Engineering Evaluation and Cost Analysis Report
ENTRIX	ENTRIX, Inc.
EMMA OU	Explosives and Munitions Manufacturing Areas Operable Unit
EPF	Ecological Problem Formulation
ESE	Environmental Science and Engineering, Inc.
ESV	Ecological Screening Value
EWG	Ecological Working Group
FAR	Federal Acquisition Regulations
FFA	Federal Facilities Agreement
FSP	Field Sampling Plan
ft	Ft
FWS	U.S. Fish and Wildlife Service
GDOTS	General Dynamics Ordnance and Tactical Systems, Inc.
GIS	Geographical Information System
GRA	General Response Action
GSC	Groundwater Screening Criteria

HHRA	Human health Risk Assessment
HHWG	Human Health Working Group
H&SP	Health and Safety Plan
IEPA	Illinois Environmental Protection Agency
IOP	Illinois Ordnance Plant
ISGS	Illinois State Geological Survey
JCLF	Job Corps Landfill
MAOU	Metals Areas Operable Unit
MCL	Maximum Contaminant Level
mg/kg	milligrams per kilogram
MISCA OU	Miscellaneous Areas Operable Unit
msl	mean sea level
NCP	National Contingency Plan
NewFields	NewFields Companies, LLC
NPL	National Priorities List
OEW	Ordnance and Explosive Waste
OU	Operable Unit
Parsons	Parsons Engineering Science, Inc.
PA/SI	Preliminary Assessment/Site Investigation
PAHs	Polynuclear Aromatic Hydrocarbons
PCB	Polychlorinated Biphenyls
PCB OU	PCB Area Operable Unit
PERA	Preliminary Ecological Risk Assessment
PLC	Preliminary Levels of Concern
PMBOK®	Project Management Body of Knowledge
PMP	Project Management Plan
PRG	USEPA Region 9 Preliminary Remediation Goal
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
QMP	Quality Management Plan
RAO	Remedial Action Objective
RI/FS	Remedial Investigation/Feasibility Study
RL	Reporting Limit
RRTCs	Railroad Tank Cars
SAP	Sampling and Analysis Plan
SOP	Standard Operating Procedures
SOW	Statement of Work
SSL	Soil Screening Level
SST	Statistics Support Team
STG	Soil to Groundwater
STL	Severn Trent Laboratory
SU	Standard Unit (pH measurements)
SVOC	Semi-volatile Organic Compounds
TACO	Tiered Approach to Corrective Action Objectives (Illinois)
TAL	Target Analyte List
TCE	Trichloroethene

TCL	Target Compound List
TNB	Trinitrobenzene
TNT	2,4,6-Trinitrotoluene
UCL	Upper Confidence Limit
ug/kg	micrograms per kilogram
USEPA	U.S. Environmental Protection Agency
UTL	Upper Tolerance Limit
UXO	Unexploded Ordnance
VOC	Volatile Organic Compounds
WCC	Woodward Clyde Consultants
Wt	Weight

1.0 INTRODUCTION AND OBJECTIVES

The Crab Orchard National Wildlife Refuge (CONWR) National Priorities List (NPL) site is administered by the U.S. Department of Interior (DOI) and the U.S. Fish and Wildlife Service (FWS). Located five miles west of the City of Marion, the majority of CONWR is located in Williamson County, but portions extend into neighboring Jackson, Union, and Johnson Counties (Figure 1-1). This NPL site has had approximately 200 tenants, including General Dynamics Ordnance and Tactical Systems, Inc. (GDOTS).

The Remedial Investigation/Feasibility Study (RI/FS) Work Plan has been developed for the CONWR Additional and Uncharacterized Sites Operable Unit (AUS OU) per the Administrative Order on Consent (AOC) and Statement of Work (SOW) effective December 27, 2002. Nothing in this Work Plan supersedes the AOC. In the event of a conflict between language contained in this Work Plan and language contained in the AOC, the AOC language controls. GDOTS supported by NewFields Companies, LLC (NewFields), ENTRIX, Inc. (ENTRIX), and Conestoga Rovers and Associates (CRA), will perform the RI/FS for 32 AUS OU sites at CONWR (Figure 1-2). The 32 sites include:

- Refuge Area Sites (20)
  - AUS-0A2B
  - AUS-0A2D
  - AUS-0A2F
  - AUS-0A2P
  - AUS-0A2R
  - AUS-0A03
  - AUS-0A4E
  - AUS-0A4W
  - AUS-0A06
  - AUS-0A07
  - AUS-0A8S
  - AUS-0A09
  - AUS-0A10
  - AUS-A411A
  - AUS-A11H
  - AUS-A11N
  - AUS-A11P
  - AUS-A11S
  - AUS-0A12
  - AUS-0A13
- Crab Orchard Cemetery (COC) Area Sites (5)
  - AUS-0062
  - AUS-0065
  - AUS-0066
  - AUS-0067
  - AUS-0069
- Other Sites (7)
  - AUS-0001
  - AUS-0002
  - AUS-0060
  - AUS-0061
  - AUS-0043
  - AUS-106A
  - AUS-0018

In accordance with Section IX, paragraph 49 of the AOC (FWS, 2002); FWS will conduct the human health and ecological baseline risk assessment components of the effort.

This RI/FS Work Plan details the proposed RI/FS work scope.

The proposed RI/FS phases include:

- Phase I sampling of soil, sediment, surface water, and monitoring wells to determine current site conditions; and installation of piezometers to establish groundwater flow direction and velocity; the use of temporary wells/Geoprobe® sampling to determine well locations; and the installation and sampling of groundwater wells to delineate extent of groundwater in exceedance of applicable standards. Unexploded ordnance (UXO) avoidance is included in this phase.

- Evaluating existing data, determining what additional data are necessary to characterize the site, developing a better conceptual understanding of the site, better defining the Applicable or Relevant and Appropriate Requirements (ARARs), and narrow the range of alternatives. Sampling may include soil, sediment, surface water, or groundwater sampling and air. Sampling will also be performed for evaluation of potential risks associated with soil vapor. UXO characterization is included in subsequent phases.

The RI/FS schedule is provided in Section 14.0 of this document.

1.1 OBJECTIVES

The AOC defines the following general RI/FS objectives:

- Determine the nature and extent of contamination and any threat to the public health, welfare, or the environment caused by the release or threatened release of hazardous substances, pollutants or contaminants at or from the sites in the AUS OU, by conducting an RI.

- Determine and evaluate alternatives for remedial action (if any) to prevent, mitigate or otherwise respond to or remedy any release or threatened release of hazardous substances, pollutants, or contaminants at or from these sites, by conducting a feasibility study.

The SOW attached to the AOC identifies the following objectives:

- Identify and characterize contamination that poses unacceptable risks to human health or the environment.

- Develop and evaluate remedial alternatives to address the unacceptable risk to human health and the environment.

As stated in the SOW, the purposes of these activities are to refine preliminary remediation goals (PRGs) and develop remedial action objectives (RAOs). The U.S. Environmental Protection Agency's (USEPA) six expectations for remedial actions, listed at National Contingency Plan (NCP) Section 300.430(a) (iii) will be considered. During the execution of the Scope of Work detailed in Sections 4.0 and 5.0, these objectives will be achieved.

The SOW also identifies the following preliminary RAOs, to be refined during the RI/FS process:

1) Soils/Sediments/Debris Surface Water RAOs

   a) Containment, removal and/or treatment of contaminated soils, sediments, debris or surface water to prevent exposure to hazardous substances at concentrations that pose an unacceptable risk to human receptors under land use scenarios consistent with current land use and reasonably anticipated future use. The following routes of exposure are to be considered: ingestion, dermal contact, and inhalation.

   b) Containment, removal and/or treatment of contaminated soils, sediments, debris or surface water to prevent exposure to hazardous substances at concentrations that pose an unacceptable risk to ecological resources under land use scenarios consistent with current land use and reasonably anticipated future use. The following routes of exposure are to be considered: 1) direct contact with soil or debris; 2) direct contact with surface water; 3) direct contact with sediments; and 4) ingestion of dietary items containing contaminants as a result of direct or indirect contact with contaminants in surface water, soils or sediments.

2) Groundwater RAOs

   Containment, removal and/or treatment of contaminated groundwater and associated soils to prevent exposure to hazardous substances at concentrations that pose an unacceptable risk to human receptors under land use scenarios consistent with current land use and reasonably anticipated future use. The following routes of groundwater exposure are to be considered: ingestion, dermal contact, and inhalation.

Detailed development of Data Quality Objectives (DQO) to support attainment of the AOC objectives and RAOs is provided in Section 4.0.

1.2 WORKING GROUPS

To facilitate completion of the RI/FS Work Plan, several working groups were formed to discuss the methodology for conducting the RI. Representatives of GDOTS, FWS, USEPA, and the Illinois Environmental Protection Agency (IEPA) comprised these working groups. These working groups included:

- Ecological Working Group (EWG),
- Human Health Working Group (HHWG),
- Statistics Support Team (SST), and
- Executive Working Group.

1.3 DOCUMENT ORGANIZATION

The RI/FS Work Plan and associated documents include:

- RI/FS Work Plan (Volume 1),
- Sampling and Analysis Plan (SAP) (Volume 2),
    - Quality Assurance Project Plan (QAPP) (Volume 2)
    - Field Sampling Plan (FSP) (Volume 2)
    - Laboratory Standard Operating Procedures (SOP) (Volume 2A)
- Health and Safety Plan (H&SP) (Volume 3).

Section 2.0 of the RI/FS Work Plan describes the physical setting, and Section 3.0 summarizes the regulatory history and previous investigations for the AUS OU. Sections 4.0 and 5.0 provide the details of the defined Scope of Work and decision logic that governed selection of sample location and analytic regime. Section 6.0 defines the general approach for determining the need for treatability testing and deliverables associated with that activity. Sections 7.0 and 8.0 define the responsibilities for the human health and ecological risk assessments, respectively. Section 9.0 describes the remedial alternatives development and screening, as well as the detailed analysis of alternatives. Section 10.0 references sources for the FSP, and Section 11.0 defines the data management protocol for the project. Sections 12.0 and 13.0 reference the H&SP (Volume 3 of this RI/FS Work Plan) and Community Relations Plan (CRP), respectively. The Project Management Plan (PMP), which includes the project schedule, is provided in Section 14.0, and Section 15.0 provides a list of references cited throughout this document.

2.0 SETTING

CONWR is located five miles from Marion, Illinois near the center of the southern tip of the state with the Mississippi River approximately 25 miles to the west and the Ohio River approximately 55 miles to the east. CONWR currently comprises an area of approximately 43,500 acres of forested land, pine plantations, and cultivated lands. The majority of CONWR is located in Williamson County, but portions extend into neighboring Jackson, Union, and Johnson Counties.

Three lakes are located within CONWR, including Crab Orchard Lake, a manmade reservoir. Crab Orchard Lake provides sport fishermen with largemouth bass, catfish, sunfish, and crappie. It was used as a drinking water source for CONWR and the Marion Federal Penitentiary until 1993 when the water treatment plant was closed. Water for CONWR and the penitentiary is currently supplied by the Herrin municipal system.

The affected areas within CONWR are currently divided into seven OUs:

- Explosives and Munitions Manufacturing Areas (EMMA OU)
- Miscellaneous Areas (MISCA OU)
- Water Towers OU
- Metals Areas (MAOU)
- Additional and Uncharacterized Sites (AUS OU)
- Polychlorinated Biphenyls (PCB) Areas (PCB OU)
- Lake Monitoring OU.

The focus of this document is the AUS OU. The AUS OU setting was described in the *Final Preliminary Assessment/Site Investigation* (FWS, 2003) (PA/SI) and Draft Final *Field Sampling Plan* (FWS, 2000). Excerpts from these FWS documents are provided below.

2.1 PHYSICAL DESCRIPTION OF CONWR

2.1.1 Drainage and Surface Water Features

The major surface water feature of CONWR is the 6,965-acre Crab Orchard Lake. It was created in the 1930s by damming the east-flowing Crab Orchard Creek. Other perennial streams that flow into the lake in the eastern part of CONWR are Pigeon Creek, Wolf Creek, Sugar Creek, Little Grassy Creek, and Grassy Creek. Most of the industrial part of CONWR has low relief and includes many flat marshy areas.

2.1.2 Geologic Setting

This section discusses the overall geologic setting of CONWR. A description of the overburden and bedrock occurring at CONWR is summarized below (FWS, 2003).

2.1.2.1 Quaternary Geology

Crab Orchard Lake is located near the southernmost boundary of continental glaciation in the Northern Hemisphere. The general Quaternary (glacial-age to recent times) geology of the area is shown on Figure 2-1.[1] The unglaciated area just south of CONWR is shown in white on the figure.

2.1.2.1.1 Glacial Till

The pink areas on Figure 2-1 are Illinois Age till of the Vandalia Member of the Glasford Formation, which for this area has been described as a hard silty till (till is deposited when a glacier melts and the material it carried is dropped). Because the till is not easily affected by erosion, it is unsorted and unstratified. From previous investigations at CONWR, the till is known to have lenses or layers of water-bearing sandy material.

2.1.2.1.2 Glacial Lake Deposits

The purple areas shown on Figure 2-1 are glacial lake deposits of the Equality Formation. Crab Orchard Creek was once a tributary arm of the glacial lake in the Big Muddy River valley, located north of CONWR (shown as the larger purple area to the north of Crab Orchard Lake in Figure 2-1). These lake deposits were laid down in the quiet lake water and are dominated by well-bedded silt and some clay.

Generalized information from the Illinois State Geological Survey (ISGS) indicates that south of Crab Orchard Lake and in the area north of the lake that includes AUS-0A2 and AUS-0A4, glacial deposits extend to depths of 20 feet (ft) or less and overlie bedrock. Other areas north of the lake are shown as having glacial deposits extending to depths between 20 and 50 ft, also directly overlying bedrock. Based on these maps, throughout most of the AUS OU, glacial deposits extend to depths of 20 ft or less and directly overlie bedrock. This appears to be generally correct for most areas, based on soil borings advanced at CONWR, although some boring logs show localized areas of greater till thickness. The borings also show that in some areas, the glacial till overlies residual material developed on bedrock. Other generalized information from the ISGS shows glacial deposits up to 50 ft thick on CONWR.

[1] Figure 2-1 referenced in this Section (2.1.2) is found in the PA/SI; Figure 2-1 referenced in Section 2.1.3 is attached to this Work Plan.

2.1.2.1.3 Recent Alluvium

The yellow areas shown on Figure 2-1 are recent alluvial deposits (Cahokia alluvium) consisting of sand, silt, and clay. As shown in the figure, there are very few of these deposits in the area around Crab Orchard Lake.

2.1.2.1.4 Loess Deposits

The red contour lines on Figure 2-1 indicate the approximate thickness of loess, a silty-clay windblown material. These loess deposits do not typically have horizontal stratification, but they do have vertical fractures, which are probably the main pathway for water flow through the loess. Note that CONWR lies between the 5 ft and the 10 ft contour, and that there are no loess deposits in the areas of the glacial lake deposits (the lakes existed at the same time the windblown loess was deposited).

Specific information for Williamson County indicates that loess deposits are present in almost all of the AUS OU area, and for most of the area, the loess deposits range from 5.5 to 12.5 ft in thickness. In Area AUS-0A06, the loess thickness is shown as less than 5 ft. Unfortunately, on boring logs from CONWR, the distinction between the loess and the underlying till is often not noted. Both soils are primarily silty clay with low plasticity, but the soils may vary significantly in structure and hydraulic properties.

2.1.2.1.5 Bedrock

The bedrock at CONWR is Pennsylvanian-Age, comprised mostly of shale and some sandstone. It also has beds of limestone and coal. No rock outcrops within the AUS OU area are evident; however, rock, primarily sandstone, is exposed in many locations in the unglaciated area south of CONWR. The Pennsylvanian Age rocks are about 600 to 800 ft thick at CONWR. Bedrock dips generally toward the north in the direction of the Illinois Basin, a regional geologic structural feature which exhibits its greatest depth in about the middle of the state. CONWR lies just south of the southern edge of minable coal found in the Herrin No. 6 coal seam. The Herrin No. 6 is a continuous coal layer that underlies thousands of square miles of southern Illinois.

2.1.3 Hydrogeology

Subsurface geological and hydrological information has been obtained from a number of prior investigations performed at the site since 1986, most recently during the PA/SI in 2000. An overview of previous field investigations is provided in Section 3. Information regarding the extent of contamination detected in groundwater is presented in Section 5. Site-specific hydrogeological information from these prior investigations is summarized along with pertinent regional hydrogeological information in the following sections.

2.1.3.1 General Hydrogeology of CONWR

There are two general hydrostratigraphic units present at CONWR: an upper unit consisting of the unconsolidated deposits overlying bedrock (overburden); and a lower unit consisting of water-bearing zones within the bedrock.

The overburden typically consists of a thin layer of fill and/or topsoil, loess (consisting of silt and altered silty-clay) to depths from 5 to 20 ft, underlain by sandy or gravely clay till with local deposits of thin, discontinuous sands and gravels to the top of bedrock. Groundwater in the overburden occurs at shallow depths ranging from near the ground surface to approximately 20 ft below ground surface (bgs). Groundwater levels typically fluctuate considerably by season or year according to the amount of rainfall. The loess and till deposits are dominated by the presence of clay, resulting in low hydraulic conductivities. As a result, groundwater within the unit typically meets the Class II (general resource) groundwater classification in accordance with 35 IAC 620. In areas where sand and gravel deposits are present within the overburden soils, the hydraulic conductivity of these materials may be sufficiently high for the groundwater to be classified as Class I (potable resource) groundwater. Yields are typically low and monitoring wells completed in the overburden can be bailed dry and are slow to recover. During the PA/SI, forty-one shallow monitoring wells were installed in the overburden. The information obtained from the PA/SI and prior investigations is discussed in detail for each area in Section 2.1.3.2.

Eleven deep monitoring wells were installed in bedrock during the PA/SI in 2000. These wells range in depth from 93 ft to 241 ft. Three wells were installed in the area surrounding Area 2 (BDRK-001, BDRK-002, and BDRK-004); four wells were installed in the area surrounding Areas 8, 9, and 11/12 (BDRK-007, BDRK-008, BDRK-09D, and BDRK-011); and four wells were installed in other areas of CONWR (BDRK-003, BDRK-05D, BDRK-006, and BDRK-010). The bedrock consists of interbedded shale and sandstone with occasional coal seams. During drilling, the coal seams appeared to be the only significant water bearing zones. The sandstone units encountered during drilling did not produce significant quantities of water and subsequent slug testing indicates that, at most locations, the hydraulic conductivity of the upper sandstones does not support a Class I groundwater classification. A contour map of the groundwater elevation data from the bedrock monitoring wells is presented on Figure 2-1.

According to the refuge manager, there are currently no water supply wells on CONWR (FWS, 2003). The Marion Federal Penitentiary, located near the southeast corner of CONWR, has seven water supply wells ranging in depth from 588 to 702 ft. Domestic water supplies have been obtained from wells completed in Williamson County from depths ranging from 50 to 800 ft.

2.1.3.2 AUS Area-Specific Hydrogeology

The following is a discussion of the hydrogeology at specific AUS areas.

2.1.3.2.1 Area 2

A total of 18 monitoring wells were installed within the overburden in Area 2 during the PA/SI; three in Area 2B, six in Area 2D, three in Area 2F, and six in Area 2P. Prior to the PA/SI no

groundwater investigations had been performed in Area 2. Cross sections developed from the soil boring, monitoring well completion, and groundwater level monitoring data are presented in Figures 2-2 through 2-6. Groundwater elevation maps for these areas are included on the same figures. Groundwater elevations to produce these figures were based on information presented in the PA/SI**.**

Three overburden monitoring wells were installed at Area 2B (0A2B-W01 through 0A2B-W03). Fill material and topsoil was encountered to depths of one to two ft, a low plastic silty clay and silt loess to depths of 9 to 14 ft, and a low to high plastic silty clay with sand and gravel till to the total depths drilled (19 to 24 ft) (Figure 2-2). Bedrock was not encountered in any of the overburden borings, however, bedrock was encountered at a depth of 28 ft (elevation 399 ft) during the drilling of bedrock monitoring well BDRK-004 (approximately 1000 ft west of 0A2B-W01). Area 2B is situated on a topographic high and a corresponding groundwater flow divide exists within the overburden with groundwater flowing away from the high to the northwest and southeast (Figure 2-2). Slug tests were performed on each of the three wells, and resulting hydraulic conductivity values range from 2.35E-06 to 2.32E-05 centimeters per second (cm/sec) with an arithmetic mean of 2.17E-05 cm/sec. Based on the available data, the water bearing materials in the overburden in this area do not appear to meet any of the criteria for Class I Groundwater, and appear to be Class II as defined by the State of Illinois (35 IAC 620). This aquifer classification will be confirmed based on additional data collected as part of this work plan.

Six overburden monitoring wells were installed at Area 2D (0A2D-W01 through 0A2D-W06). Topsoil was encountered to a depth of up to one foot, a low plastic silty clay loess to depths of 9.5 to 14 ft and a low to high plastic silty or sandy clay with gravel till to either the total depths drilled (19 to 20 ft), or to the top of bedrock (Figure 2-3). Shale bedrock was encountered in four of the borings (0A2D-W01, 0A2D-W02, 0A2D-W04, and 0A2D-W06) at depths ranging from 15 to 18.5 ft. Area 2D is located on the same topographic high as Area 2B and it is likely that a corresponding groundwater flow divide exists within the overburden with groundwater flowing away from the high to the northwest and southeast (Figure 2-3). Slug tests were performed on each of the six wells, and resulting hydraulic conductivity values range from 2.51E-07 to 2.09E-05 cm/sec with an arithmetic mean of 6.98E-06 cm/sec. Based on the available data, the water bearing materials in the overburden in this area do not appear to meet any of the criteria for Class I Groundwater, and appear to be Class II as defined by the State of Illinois (35 IAC 620). This aquifer classification will be confirmed based on additional data collected as part of this work plan.

Three overburden monitoring wells were installed at Area 2F (0A2F-W01 through 0A2F-W03). Fill and topsoil were encountered to a depth of up to one half foot, a low plastic silty clay loess to depths of 8 to 14.5 ft and a high plastic silty clay with gravel till to either the total depths drilled (19 ft), or to the top of bedrock (Figure 2-4). A siltstone bedrock was encountered in 0A2F-W03 at a depth of 16 ft. Area 2F is situated on a topographic high and it is likely that a corresponding groundwater flow divide exists within the overburden with groundwater flowing away from the high to the northeast and southwest (Figure 2-4). Slug tests were performed on each of the three wells, and resulting hydraulic conductivity values range from 3.70E-06 to 2.16E-05 cm/sec with an arithmetic mean of 1.19E-05 cm/sec. Based on the available data, the

water bearing materials in the overburden in this area do not appear to meet any of the criteria for Class I Groundwater, and appear to be Class II as defined by the State of Illinois (35 IAC 620). This aquifer classification will be confirmed based on additional data collected as part of this work plan.

Six overburden monitoring wells were installed at Area 2P (0A2P-W01 through 0A2F-W06). Fill and topsoil were encountered to a depth of up to one foot, a low plastic silty clay loess to depths of 9 to 15 ft and a glacial till consisting of silty clay with gravel and well graded fine sand to the total depth drilled (19 to 24 ft) (Figures 2-5 and 2-6). Bedrock was not encountered in any of the overburden borings. The nearest boring encountering bedrock is 0A2P-W03, approximately 2000 ft to the northwest. Area 2P is situated on a topographic high and it is likely that a corresponding groundwater flow divide exists within the overburden with groundwater flowing away from the high to the northwest and southeast (Figure 2-5). Slug tests were performed on each of the three wells, and resulting hydraulic conductivity values range from 3.30E-05 to 1.91E-04 cm/sec with an arithmetic mean of 7.39E-05 cm/sec. Based on the available data, the water bearing materials in the overburden in most of this area do not appear to meet any of the criteria for Class I Groundwater, and appear to be Class II as defined by the State of Illinois (35 IAC 620). This aquifer classification will be confirmed based on additional data collected as part of this work plan.

No monitoring wells were installed at Area 2R; however, one test pit was excavated. The test pit log indicates that loess (silt with trace clay) was encountered from the ground surface to the bottom of the test pit at 10 ft bgs.

At the three bedrock wells installed near Area 2, BDRK-1, -2, and –4, depths to bedrock ranged from 23 to 34 ft. The surface elevation of the bedrock ranged from about 390 to 400 ft mean sea level (msl). At the three locations, the uppermost bedrock layer was shale ranging from 14 to 23 ft in thickness then interbedded shale and sandstone, with sandstone slightly more common than shale. Coal seams were encountered at elevations of 370 ft and 335 ft in BDRK-1, at about 370 ft in BDRK –2, and at about 385 ft and 365 ft in BDRK-4. It is possible that some of these coal seams are connected; in this area of southern Illinois, individual coal seams can have large areal extent.

The hydraulic conductivity calculated for the bedrock based on slug testing was 9.11E-07 cm/sec for BDRK-1 and 1.38E-06 cm/sec for BDRK-2. Well BDRK-4 was not slug tested because of the slow recovery in the well. Groundwater elevations in the bedrock measured in October 2000 range from 401.14 ft. (msl) at BDRK-004 to 409.70 ft (msl) at BDRK-002. These elevations are lower than those measured in the overburden monitoring wells, indicating the potential for downward groundwater flow.

2.1.3.2.2 Area 4

Three monitoring wells were installed within the overburden in Area 4E during the PA/SI (OA4E-W01 through 0A4E-W03). Four monitoring wells (29-8 through 29-11) were installed at Site 29 (Fire Station Landfill), at the southeast portion of Area 4E in 1985 during the RI conducted O'Brien & Gere (O'Brien & Gere, 1988). A total of seven monitoring wells have

been installed at Area 4W during prior investigations: one monitoring well was installed at Site 22 in 1985 (22-8) during the RI conducted by O'Brien & Gere (O'Brien & Gere, 1988); three monitoring wells (COMW222-1 through COMW222-3) were installed at Site 22A (northern western portion of Area 4W) in 1994 during investigations for the MISCA OU (Woodward-Clyde 1996); and three monitoring wells (WSA-MW-1 through WSW-MW-3) were installed at the West Shop Area (eastern portion of Area 4W) in 1995 during investigations for the MAOU (Woodward-Clyde, 1996). A cross section developed from the soil boring, monitoring well completion, and groundwater level monitoring data collected during the PA/SI is presented on Figure 2-7. A groundwater elevation contour map for Area 4E is also presented on Figure 2-7. The location of the PA/SI and other historical monitoring wells is shown on Figures 5-6 and 5-7. Groundwater elevations to produce these figures were based on information presented in the PA/SI.

In the three overburden monitoring wells installed at Area 4E during the PA/SI (0A4E-W01 through 0A4E-W03), fill and topsoil were encountered to a depth of up to two ft, a low plastic silty clay loess to depths of 11 to 12.5 ft and a glacial till consisting of silty clay with sand and gravel to bedrock or the total depth drilled (19 to 24 ft) (Figure 2-7). Sandstone bedrock was encountered in 0A4E-W03 at a depth of 23.4 ft. It is likely that groundwater flow in the overburden is influenced by the topographic high that exists in the southern portion of the area, with the overburden groundwater in the northern portion of Area 4E flowing away from the high to the northeast (Figure 2-7). Slug tests were performed on each of the three PA/SI wells, and resulting hydraulic conductivity values range from 3.58E-06 to 8.97E-05 cm/sec with an arithmetic mean of 3.51E-05 cm/sec. Based on the available data, the water bearing materials in the overburden in this area do not appear to meet any of the criteria for Class I Groundwater, and appear to be Class II as defined by the State of Illinois (35 IAC 620). This classification will be confirmed based on additional data collected in this work plan.

No borings or monitoring wells were installed at Area 4W as part of the PA/SI. The subsurface materials encountered in the borings drilled in 1994 as part of the MISCA OU were described as low to high plastic silty clay with some sand. Weathered sandstone was encountered at a depth of 20.5 ft in COMW222-1, 18 ft in COMW222-2 and 17.5 ft in COMW222-3. Monitoring wells were installed at depths of 15.5 ft, 21 ft, and 23.5 ft. At the time groundwater level data was obtained from these wells in 1994, the groundwater flow direction was to the north-northwest.

Bedrock monitoring wells were drilled approximately 1000 ft south (BDRK-5D) and 1500 ft east (BDRK-3) of Area 4. Bedrock was encountered at a depth of 40 ft (elevation 380 ft msl) in BDRK-3 and 48 ft (elevation 374 ft) in BDRK-5D. In both wells the uppermost bedrock layer was shale underlain by interbedded sandstone and shale. A thin coal layer was encountered at elevation 356 ft in BDRK-5D.

The hydraulic conductivity calculated for the bedrock based on slug testing was 3.35E-05 cm/sec for BDRK-003 and 1.35E-06 cm/sec for BDRK-5D. The interpolated groundwater elevation in the bedrock in the vicinity of Area 4, based on measurements made in October 2000 is approximately from 410 to 412 ft (Figure 2-1). This elevation is lower than those measured in the overburden monitoring wells (Figure 2-7), indicating the potential for downward groundwater flow.

2.1.3.2.3 Area 6

Hydrogeological information for Area 6 is unavailable. No wells or test pits have been installed in this area. Bedrock monitoring well BDRK-003 is located approximately 3500 ft north of the northern boundary of Area 6. The aquifer classification as defined by the State of Illinois (35 IAC 620) will be determined based on additional data collected as part of this work plan.

2.1.3.2.4 Area 7

No borings or monitoring wells were installed at Area 7 as part of the PA/SI. One monitoring well (15-4) was installed in Area 7 in 1985 during the RI conducted by O'Brien & Gere (O'Brien & Gere, 1988). Detailed geologic information from this well is not included in the RI report. Two test pits were excavated near the southwest corner of Area 7 during the PA/SI (0A07-029 and 0A07-030). At these locations the upper two to three ft of soil was described as topsoil and fill. Materials underlying the fill were described as clayey silt and silty clay loess that continued to the bottom of the test pits 11.5 ft to 12 ft bgs. The groundwater elevation for monitoring well 15-4 was 428.12 ft above msl in June 1987. The aquifer classification as defined by the State of Illinois (35 IAC 620) will be determined based on additional data collected as part of this work plan.

2.1.3.2.5 Area 8

A total of 6 monitoring wells were installed within the overburden at Area 8 during the PA/SI, all at Area 8S. Four monitoring wells (28-7, 28-8, 28-15 and 28-16) were installed at Site 28 (Water Tower Landfill), located between Areas 7 and 8, in 1985 and 1986 during the RI conducted O'Brien & Gere (O'Brien & Gere, 1988). Three monitoring wells (COMW214-1 through COMW214-3) were installed at Site 14 (immediately north of Area 8S) in 1994 during investigations for the MISCA OU (Woodward-Clyde 1996). A cross section developed from the soil boring, monitoring well completion, and groundwater level monitoring data collected during the PA/SI is presented on Figure 2-8. A groundwater elevation contour map for Area 8S is presented on Figure 2-8. Groundwater elevations to produce these figures were based on information presented in the PA/SI.

Six overburden monitoring wells were installed at Area 8S (0A8S-W01 through 0A8S-W06). Fill and topsoil were encountered to a depth of up to 3.5 ft; a low plastic silty clay loess to depths of 12 to 15 ft; and a glacial till consisting of layers of sand, silt with and without sand, and silty clay with and without sand and/or gravel to the total depth drilled (19 to 35 ft) (Figure 2-8). Bedrock was not encountered in any of the overburden borings. Shale bedrock was encountered at depths of 44.5 to 52.5 ft in BDRK-09I and BDRK-09D, located in the southeast portion of Area 8S. It is likely that groundwater flow in the overburden is influenced by the topographic high that exists to the southeast of the area, and extends northward through the area. Groundwater in the overburden flows away from the high and to the west (Figure 2-8). Slug tests were performed on each of the six wells, and resulting hydraulic conductivity values range from 6.17E-05 to 7.10E-04 cm/sec with an arithmetic mean of 3.32E-04. Based on the available data, water bearing materials at most of the well locations in the overburden in this area appear to meet the State of Illinois criteria for Class I Groundwater as defined by the State of Illinois (35

IAC 620). This classification will be confirmed based on additional data collected in this work plan.

Four bedrock monitoring wells were installed in the vicinity of Area 8, BDRK-7, -8, –9D, and –11. Depths to bedrock ranged from 23 to 44 ft (elevation of about 400 to 430 ft msl). In BDRK-7 and –9D, the uppermost bedrock material was shale, and in BDRK-8 and –11, the uppermost bedrock material was sandstone. In BDRK-7 the uppermost shale was 15 ft thick and underlain by a 5-ft thick coal seam. The remainder of the boring was primarily in fractured sandstone. Boring BDRK-8 encountered almost entirely sandstone, with a little shale and some traces of coal to the total depth of 113 ft. In BDRK-9D, the uppermost 60 ft of bedrock was shale, except for a 1-ft thick coal seam at elevation 355 ft msl. The remainder of the boring was interbedded shale and sandstone, to the full depth of 151 ft. In BDRK-11, the bedrock consisted of, from top to bottom, 23 ft of sandstone, 39 ft of shale, and 19 ft of sandstone.

The hydraulic conductivity calculated for the bedrock based on slug testing ranged from 3.91E-03 cm/sec at BDRK-7 to 2.97E-05 at BDRK-11. The interpolated groundwater elevations in the bedrock in the vicinity of Area 8, based on measurements made in October 2000 range from 420 to 427 ft (Figure 2-1). These elevations are lower than the elevations measured in the overburden monitoring wells (Figure 2-8), indicating the potential for downward groundwater flow.

2.1.3.2.6 Area 9

One monitoring well was installed at Area 9 as part of the PA/SI (0A09-W01). The hydrogeology of this area is well characterized as a result of investigations at the PCB OU (RMT 2001). A total of 51 monitoring wells and 166 Geoprobe® borings have been installed in the area as part of these investigations at the time of the RMT (2001) report.

Overburden materials range from 30 ft thick in the vicinity of Building I-1-2 to approximately 100 ft thick in the I-1-23 area. A weathered loess deposit consisting of silty clay and clayey silt with occasional silty sand lenses is present to depths of approximately 25 ft bgs beneath most of the area. A clayey sand to well graded sand underlies the loess across much of the area but is absent in the southeastern and central portions of the area. This sand (termed upper sand by RMT) ranges in thickness from 1 to 2 ft in the southern portions of the area to approximately two ft in the western and 15 ft in the northwestern portions of the area. A glacial till consisting of silty clay to clayey silt containing a trace of fine sand and gravel underlies the sand and loess. A silty sand occurs immediately above the bedrock surface and under the till. This sand (termed lower sand by RMT) ranges in thickness from two ft in the southwestern portion of the area to 20 ft in the northern portion of the area; it is not present in the southern and southeastern portions of the area. Bedrock consists of a fine-grained micaceous sandstone. Top of bedrock elevations range from approximately 320 ft msl in the northern portion, to 340 ft msl in the western portion, to 400 ft in the southern and southeastern portions of the area.

A groundwater elevation contour map for the water table in Area 9 based on data collected in October 2000 is presented on Figure 2-9. Groundwater flow in the uppermost portion of the overburden is largely within the silty clay loess and is influenced by the topographic high that

extends through the center of the area from the southeast to the northwest, with the overburden groundwater flowing away from the high toward the lake to the northeast and to a drainage to the southwest. A potentiometric surface map for the lower sand is presented in Figure 2-10. Reported hydraulic conductivity values based on slug testing were 1.4E-06 to 7.7E-04 cm/sec for the silty clay loess, 1.3E-05 to 4.4E-03 cm/sec for the upper sand, 1.0E-06 cm/sec for the silty clay till and 9.4E-04 to 4.1E-03 cm/sec for the lower sand. A slug test was performed on well 0A09-W01 and the resulting hydraulic conductivity value was 3.98E-04 cm/sec. Based on the available data, water bearing materials in the overburden at the location of well 0A09-W01 appear to meet the State of Illinois criteria for Class I Groundwater. This is consistent with results obtained from the RMT investigation.

Areal distribution of total chlorinated volatile organic compound (CVOC) concentrations in groundwater at Area 9 is illustrated on Figure 2-11. This figure was developed by RMT during remedial design (RMT, 2001) using data generated by FDGTI in 1998, RMT in 1998, and RMT in 2000. There are six apparent CVOC source areas at the area: at Building I-1-2, Building I-1-3, Building I-1-23, upgradient of Building I-1-36A, beneath the Area 9 Repository, and on the south side of the Area 9 Repository (RMT 2001).

Four bedrock monitoring wells were installed in the vicinity of Area 9 BDRK-7, -8, –9D, and –11. Bedrock conditions encountered at these wells is summarized under the discussion provided for Area 8. The interpolated groundwater elevation in the bedrock in the vicinity of Area 8, based on measurements made in October 2000 is approximately from 425 to 420 ft msl (Figure 2-1). This elevation is slightly lower than the elevation measured in the overburden monitoring wells (Figure 2-9), indicating the potential for downward groundwater flow.

2.1.3.2.7 Area 10

No borings or monitoring wells were installed at Area 10 as part of the PA/SI. Two test pits were excavated at Area 10 during the PA/SI (0A10-001 and 0A10-002). At these locations the upper two to three ft of soil was described as topsoil and fill. In both test pits the fill contained black ash and burnt material with metal. Materials underlying the fill were described as low plastic, silty clay, and silt loess to a depth of 12 to 12.5 ft. A sweet/pesticide odor was detected at approximately 4 ft bgs in both pits. The area is situated on a topographic high and it is likely that groundwater flows away from the high to drainages located to the west, north, and east. The aquifer classification as defined by the State of Illinois (35 IAC 620) will be determined based on additional data collected as part of this work plan.

2.1.3.2.8 Areas 11 and 12

A total of 10 monitoring wells were installed within the overburden at Areas 11 and 12 during the PA/SI; two at Area 11A, one at Area 11H, one at Area 11P, four at Area 11S and two at Area 12. In addition, 10 monitoring wells (MW-COP1-3, MW-COP2-1, MW-COP2-4, MW-COP3-1 through MW-COP3-3, and MW-COP4-1 through MW-COP4-4) were installed at Areas 11 and 12 in 1988 and 1991 during previous investigations associated with the EMMA OU (Environmental Engineering and Science [ESE], 1994). Cross sections developed from the PA/SI soil boring, monitoring well completion, and groundwater level monitoring data are

presented on Figures 2-12 and 2-13. Groundwater elevation contour map for Areas 11 and 12 are also shown on these figures. Groundwater elevations to produce these figures were based on information presented in the PA/SI.

In the two overburden monitoring wells installed at Area 11A (A11A-W01 and A11A-W02), fill material and topsoil were encountered to a depth of about one foot and a silty clay and silt loess to the total depths drilled (20 ft) (Figure 2-12). In the four monitoring wells installed at Area 11S (A11A-W01 through A11A-W04) fill material was encountered to depths of up to 9 ft overlying a silty clay loess or bedrock to the total depth drilled. Similar conditions were encountered in the four wells installed at Area 11S (A11S-W01 through A11S-W04). Fill was encountered to a depth of 9 ft in A11S-W02 and weathered sandstone was encountered at a depth of 18 ft in A11S-W03 (Figure 2-12).

One overburden monitoring well was installed at Area 11P (A11P-W01), one at Area 11H (A11H-W01), and two at Area 12 (0A12-W01 and 0A12-W02) during the PA/SI. A cross section including hydrogeological information from these wells is shown on Figure 2-13. Topsoil and fill material was encountered to a depth of 1.5 to 3.5 ft, overlying a silty clay loess to the total depth drilled (19 and 20 ft) in wells A11P-W01 and A11H-W01. In wells 0A12-W01 and 0A12-W02, a silty clay with sand or gravel till underlies the loess at depths of 15 to 16 ft. The till was encountered to the total depths drilled (19 to 20 ft) in these wells.

Area 11 and 12 is located on a topographic high and a corresponding groundwater flow divide exists within the overburden with groundwater flowing away from the high to the northwest, north, northeast and east (Figure 2-13). Slug tests were performed on all the wells installed, and resulting hydraulic conductivity values range from 8.73E-06 to 2.18E-04 cm/sec (high value from 0A12-W02, all clay on log, test is suspect and will be reevaluated as part of the RI). Based on the available data, the water bearing materials in the overburden in this area do not appear to meet any of the criteria for Class I Groundwater, and appear to be Class II as defined by the State of Illinois (35 IAC 620). This classification will be confirmed based on additional data collected as part of this work plan.

Bedrock was encountered at a depth of 30 ft (elevation 399 ft) during the drilling of bedrock monitoring well BDRK-008 (approximately 2200 ft northwest of Area 11) and at a depth of 23 ft (elevation 429 ft) during the drilling of BDRK-011 (approximately 1800 ft southeast of Area 12). A description of the conditions encountered at these wells is summarized under the discussion provided for Area 8. The interpolated groundwater elevation in the bedrock in the vicinity of Areas 11 and 12, based on measurements made in October 2000 is approximately from 415 to 425 ft (Figure 2-1). This elevation is lower than the elevation measured in the overburden monitoring wells (Figure 2-13), indicating the potential for downward groundwater.

2.1.3.2.9 Area 13

No borings or monitoring wells were installed at Area 13 as part of the PA/SI. One monitoring well (Well 30-2, a.k.a. MW-BKR1-11-1) was installed at Site 30 in 1987 during the RI conducted by O'Brien & Gere (O'Brien & Gere, 1988) and one monitoring well (MW-BKR1-3-1) was installed in 1991 during previous investigations associated with the EMMA OU (ESE, 1994). A sandstone bedrock was encountered at a depth of 19.2 ft (elevation 434.2 ft) in MW-BKR1-3-1. In MW-BKR1-11-1 overburden materials were reported to consist of clayey silt to a depth of 20 ft; the boring was not extended to bedrock. The aquifer classification as defined by the State of Illinois (35 IAC 620) will be determined based on additional data collected as part of this work plan.

2.1.3.2.10 COC Area

Eight AUS OU areas located in the COC area were investigated during the PA/SI in 2000 (AUS-0062, AUS-0063, AUS-0064, AUS-0065, AUS-0066, AUS-0067, AUS-0069, and AUS-0109). No deep borings or wells were installed during the PA/SI. Twenty-eight (28) wells were installed in 1988 and 1991 during previous investigations associated with the EMMA OU (ESE, 1994).

During the EMMA OU RI sandstone and shale bedrock was encountered in the COC area at depths of 6 to 23 ft. Thin coal seams were noted within this bedrock unit. The overburden was reported to consist of a thin layer of glacial till and loess (ESE, 1994). In the COC area, loess materials ranged from 1 to 10 ft thick, averaging about 5 ft thick. The thin overburden deposits were dry in many of the locations in which wells were installed during the RI; many wells were completed with screened intervals within the upper portion of the bedrock. Illinois Ordnance Plant (IOP)-related constituents were detected in groundwater in the EMMA OU wells. The extent of contamination is described as discrete and localized (ESE, 1994). The aquifer classification for the COC Area sites as defined by the State of Illinois (35 IAC 620) will be determined based on additional data collected as part of this work plan.

2.1.3.2.11 Area 0061

Five monitoring wells (Wells 17-8 through 17-11 and 17-65) were installed at Site 17 (Job Corps Landfill [JCLF]), located north of AUS-0061, in 1986 during the RI conducted O'Brien & Gere (O'Brien & Gere, 1988). Three monitoring wells (17-MWC-01, 17MWC-02, and 17MWC-03) were installed at the JCLF in 1996. Groundwater in this area has been reported to range from 6 to 11 feet below the ground surface.

2.1.3.2.12 Other AUS Areas

Little area-specific hydrogeological information has been obtained at the remaining 11 AUS Areas (AUS-0001, AUS-0002, AUS-0018, AUS-0019, AUS-0021, AUS-0022, AUS-0043, AUS-0060, AUS-106A, AUS-0101, and AUS-0108).

One monitoring well was installed in AUS-0001 (AUS-0001-W01) as part of the PA/SI. At AUS-0001-W01, fill was encountered to a depth of 1.5 ft, a silty clay loess to a depth of 10.5 ft

and a glacial till consisting of silty clay with sand and/or gravel to the total depth drilled (23 ft). A limestone bedrock was encountered at the bottom of the boring. The boring log describes a material encountered from a depth of 18 to 18.5 ft as "black ash" (located within the till). The origin of this material is unknown; it may have been natural decayed organic material within the till. Groundwater was encountered in the boring during drilling, just above the assumed bedrock surface, at a depth of 22.5 ft bgs (elevation 405.9 ft msl). Water levels measured in the well after installation vary in elevation from about 415 ft to 421 ft from May to October 2000. The estimated hydraulic conductivity, based on the slug test performed at the well during the PA/SI, was 1.29E-03 cm/sec. Based on this hydraulic conductivity result, the groundwater at this site could be considered State of Illinois Class I groundwater (35 IAC 620). This classification will be confirmed based on additional data collected in this work plan.

The aquifer classification for the other AUS sites as defined by the State of Illinois (35 IAC 620) will be determined based on additional data collected as part of this work plan**.**

2.2 CLIMATOLOGY

Southern Illinois experiences four distinct seasons. Average summer highs approach 90 degrees Fahrenheit with spring and fall highs near 70 degrees. The wettest seasons are generally spring and summer with an approximate four inches of monthly precipitation; during fall and winter months only one to two inches of precipitation are typically recorded. In spring and summer, thunderstorms are a major form of precipitation with five to seven thunderstorm days recorded during each of those months. Southern Illinois generally records only about three days per winter with snowfalls exceeding one inch.

2.3 AUS AREA DESCRIPTIONS

Appendix A provides descriptions of the individual activities conducted at the AUS sites including the uses of the various buildings.

3.0 SITE HISTORY AND BACKGROUND

3.1 SITE OWNERSHIP AND OPERATIONAL BACKGROUND

Detailed information regarding site history is provided in the Final PA/SI Report (FWS, 2003). The following summary information is provided as an overview.

A portion of the area within CONWR was the IOP managed by Sherwin Williams Defense Corporation for the War Department during World War II. The IOP manufactured military ordnance and occupied some 22,000 acres with more than 500 buildings and facilities including steam generators, water, sewage and wastewater treatment facilities and a railroad line. IOP operations consisted of seven load lines: three were 2,4,6-trinitrotoluene (TNT) melt-pour operations for shells, bombs, and mines; the other four were for boosters, detonators, primers, and fuses for the shells, bombs, and mines. There were 14 separate areas of IOP activity, which were identified by the functions performed during World War II. Later the various IOP areas were assigned numbers (Areas 1-14). These area numbers (and many of the old IOP building numbers) are still in use today.

In 1947, an Act of Congress transferred the old IOP area, together with an additional 21,500 acres, to the DOI, thereby creating the CONWR. FWS administers the CONWR for the conservation of wildlife and for the development of agricultural, recreational, industrial and related purposes specified in the enabling legislation.

Over the years, more than 200 tenants have operated manufacturing and/or storage facilities under lease to the DOI and the FWS at CONWR. Many of these tenants have been small businesses or short-term tenants. Larger and/or longer term tenants have included manufacturers of ordnance and explosives, electrical components, inks and printing materials, machined and plated metal parts, various painted products, and boats.

3.2 REGULATORY BACKGROUND

CONWR was placed on the USEPA NPL in July 1987. O'Brien and Gere Engineers completed a RI of 33 study sites at CONWR in 1988. They evaluated existing conditions at CONWR sites, Crab Orchard Lake, and its tributaries. In 1990, based on the RI results and investigations by the Department of Defense, four operable units were created. Three more operable units were later defined. All operable units are in the closed portion of CONWR. The units are titled (1) MAOU, (2) PCB OU, (3) EMMA OU, (4) MISCA OU, (5) Water Towers OU, (6) Lake Monitoring OU, and (7) AUS OU.

In May 2002, GDOTS was issued a Special Notice Letter under Section 122 of Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) demanding performance of a RI/FS for 32 sites within the AUS OU. An AOC was signed and became effective in December 2002.

3.3 PREVIOUS REPORTS AND FIELD INVESTIGATIONS

A watershed study completed by the State of Illinois in the 1970s (IEPA, 1977) reported polychlorinated biphenyls (PCB) contamination in Area 9 of the Refuge. A 1982 FWS report also described PCB and lead contamination in Area 9. These findings were the impetus that led to CONWR being placed on the NPL in 1987. The PCB and lead contaminated sites became part of the PCB OU.

The PA/SI Report (FWS, 2003) presents a thorough description of field investigations completed during the PA/SI effort and provides the foundation upon which this RI/FS Work Plan was developed. The PA addressed possible source areas at 83 identified sites. From this initial investigation, 59 of the 83 sites were recommended for further investigation. Due to changes in area definition and grouping, a total of 39 sites were pursued under the SI.

The work completed under the SI included area investigations, screening analytical data and recommendation for either "no further action" or formal RI. Seven sites were presented for no further investigation or action under CERCLA. These sites were:

- AUS-0019 Former railroad spur north of Area 4 East,
- AUS-0022 Probable IOP small arms training range,
- AUS-0063 Fenced Areas West of Area 62 (COC Area 12),
- AUS-0064 Former EMMA OU COC-13 Area,
- AUS-0107 Possible disposable area northwest of Area 8,
- AUS-0108 Possible surface disposal area near COC-10, and
- AUS-0109 Possible Former UXO detonation area.

Of the total 39 sites recommended for additional investigation under the SI, seven were subsequently identified as no further action sites and one area (AUS-0021) was consolidated with AUS-0A07. Additionally, Area AUS-0A03 was later recommended for investigation by FWS, resulting in 32 AUS OU sites specified in this RI/FS Work Plan.

Specific descriptions of the AUS OU sites are provided in Appendix A. Section 5.0 provides additional details of previous investigations.

4.0 REMEDIAL INVESTIGATION SAMPLE COLLECTION APPROACH

This section describes the approach for collecting data as part of the AUS OU RI/FS. The following are discussed in this section:

- Objectives of RI Sample Collection
- RI/FS Data Collection Approach
- Proposed RI/FS Data Collection Activities.

4.1 OBJECTIVE OF RI/FS DATA COLLECTION

As stated in the RI/FS Guidance (USEPA, 1988), "the RI/FS must obtain data to define source areas of contamination, the potential pathways of migration, and the potential receptors and associated exposure pathways to the extent necessary to:

- Determine whether, or to what extent, a threat to human health or the environment exists;
- Develop and evaluate remedial alternatives (including the no-action alternative), and
- Support future enforcement or cost-recovery activities (page 2-10)."

The major components of the field data collection activities are (RI/FS Guidance, Chapter 3, Site Characterization):

- “Data on the physical characteristics of the area and surrounding areas should be collected to the extent necessary to define potential transport pathways and receptor populations and to develop sufficient engineering data for development and screening of remedial alternatives" (page 3-5, Section 3.3.2).
- Define sources of contamination (page 3-13).
- "Characterize the nature and extent of contamination such that informed decisions can be made as to the level of risk presented by the site and the appropriate type(s) of remedial response (page 3-13)."

As described in the SOW “the overall objective of site characterization is to describe areas of a site that may pose a threat to human health or the environment (Section 4.0)”. The components of the field investigation to achieve the overall objective are described in the SOW of the AOC, in Subsections 4.1.2, 4.1.3, and 4.1.4, Section 4.1.3 requires the following:

> Respondent will locate each source of contamination. For each location, the areal extent and depth of contamination will be determined. The physical

> characteristics and chemical constituents and their concentrations will be determined for all known and discovered sources of contamination. The Respondent shall conduct sufficient sampling to define the boundaries of the contaminant sources to the level established in the QAPP and DQOs. Defining the source of contamination will include analyzing the potential for contaminant release (e.g., long term leaching from soil), contaminant mobility and persistence, and characteristics important for evaluating remedial actions, including information to assess treatment technologies.

Section 4.1.4 of the SOW of the AOC requires the following:

> The Respondent will gather information to describe the nature and extent of contamination as a final step during the field investigation. To describe the nature and extent of contamination, the Respondent will utilize the information on the sites' physical and biological characteristics and sources of contamination to give a preliminary estimate of the contaminants that may have migrated. The Respondent will then implement an iterative monitoring program and any study program identified in the work plan or SAP such that by using analytical techniques sufficient to detect and quantify the concentration of contaminants, the migration of contaminants through the various media at the sites can be determined. In addition, the Respondent will gather data for calculations of contaminant fate and transport. This process is continued until the area and depth of contamination are known to the level of contamination established in the QAPP and DQOs. FWS, in consultation with the FFA parties, will use the information on the nature and extent of contamination to determine the level of risk presented by the sites. Respondent will use this information to help to determine aspects of the appropriate remedial action alternatives to be evaluated.

The data collection activities proposed in this RI/FS Work Plan are designed to efficiently meet the objectives defined in the AOC and the RI/FS Guidance. The objectives and preliminary RAOs identified in the AOC were discussed in Section 1.

These objectives will be achieved by the completion of several tasks, including:

- Defining physical characteristics of the area, including important surface features, soils, geology, hydrogeology, meteorology, and ecology;
- Defining characteristics or classifications of air, surface water, and groundwater;
- Characterization of sources, nature and extent of contamination such that informed decisions can be made as to the level of risk presented by the area and non-compliance with ARARs, and the appropriate type(s) of remedial response;

- Completion of a Baseline Human Health Risk Assessment (HHRA) (to be done by FWS);

- Completion of a Baseline Ecological Risk Assessment (BERA) (to be done by FWS); and

- Evaluation of remedial alternatives for addressing unacceptable risks and ARARs.

In accordance with the SOW, after completing the work described in Section 5, GDOTS will prepare a concise characterization summary. This summary will review the investigative activities that have taken place, and describe and display validated data documenting the location and characteristics of surface and subsurface features and contamination at the sites including the affected medium, location, types, physical state, concentration of contaminants and quantity. In addition, the location, dimensions, physical condition and varying concentrations of each contaminant throughout each source and the extent of contaminant migration through each of the affected media will be documented. The preliminary site characterization (RI) summary will provide a preliminary reference for developing the risk assessment, and evaluating the development and screening of remedial alternatives and the refinement and identification of ARARs.

The data collected in accordance with Section 5.0 will be analyzed and evaluated to describe: (1) the sites' physical and biological characteristics, (2) contaminant source characteristics, (3) nature and extent of contamination and (4) contaminant fate and transport. The evaluation will include the actual and potential magnitude of releases from the sources, and horizontal and vertical spread of contamination as well as mobility and persistence of contaminants.

All analytical results from the RI investigations will be made available in electronic form compatible with Microsoft Excel. The electronic data deliverable will be a flat file (single table) format based upon the U.S. Air Force PIMS data model. The particular columns (fields) and valid values (lookup lists) and other details to be included in the tables will be specified by FWS. Locational data is to be provided for all results. A professional land surveyor is to certify all survey locations. All spatial data will be delivered in ESRI ArcGIS shape files. The files must define a point, line or area, according to the most appropriate data type for the entity being represented. The shape file will contain a metadata text file and legend (.avl). The horizontal data will be reported using the horizontal data system of Universal Transverse Mercator, Zone 16, NAD 83, in meters. The elevation data will be reported in ft based on the GRS-80 ellipsoid.

DATA QUALITY OBJECTIVES

The seven-step DQO process, as described in USEPA guidance (USEPA, 1993; USEPA, 2000a; USEPA, 2000b), was used as the framework for designing this RI/FS for the AUS OU. These DQOs will be updated as appropriate as the project progresses.

Step 1: State the Problem

The problem statement for the AUS OU can be summarized as follows:

Past activities at CONWR have resulted in releases to the environment which may pose a threat to human health and the environment, or which may result in non-compliance with ARARs. Detections of metals and organic chemicals have produced uncertainty as to whether or not conditions in the AUS OU are acceptable for current and reasonably anticipated future land uses.

The following text documents the process used to characterize the sites such that informed decisions can be made as to the level of risk presented by the area, non-compliance with ARARs, and the appropriate responses, and to identify which data are needed to efficiently meet the RI/FS objectives.

Available Resources and Constraints

There are several valuable resources that were available during the development of the RI/FS Work Plan. The results of previous investigations, specifically the PA/SI (FWS, 2003), the Draft Scoping Document (NewFields, 2003a) and Ecological Problem Formulation (EPF) (FWS, 2005) included background on the AUS OU as well as analytical data and screening interpretation of those data. The cooperative working groups also lent a considerable amount of technical skill as well as institutional knowledge to the process. In addition, a QAPP for RI/FS Work Plan and geographic information system (GIS) of the AUS OU have also been developed. That GIS includes the data from the PA/SI and aerial photos dating back to 1943. The AUS OU posed a somewhat unique challenge in that it encompasses 32 nearly-independent operational areas which range in size from less than an acre to approximately 500 acres.

Some of the AUS OU areas have tenants that are active. In addition to industrial operations, agricultural cropping and grazing are active land uses within the Refuge. The GDOTS team will work with the FWS and tenants to prevent RI/FS sampling from interfering with the tenant's operations.

Off-road vehicle permits are required when vehicles leave the roads. When vehicles are used for sample collection away from roads, the appropriate off-road vehicle permit(s) will be acquired from the FWS prior to sample collection. Removal of trees/vegetation will require a permit from FWS. Removal of trees larger than 3 inches diameter breast height (dbh) requires an Intra-agency Section 7 permit. If a tree larger than 3 inches dbh is blocking access to a proposed sample location, the sample location will be moved to another, unobstructed location, if practical. If the sample location can't be moved, the appropriate permit will be acquired from the FWS prior to sample collection.

Step 2: Identify the Decisions

The initial RI principal study question can be phrased as "*Could contamination within the AUS OU pose an unacceptable risk to human health or the environment under current and reasonably anticipated future land use assumptions or result in non-compliance with ARARs?*" In terms of

the key management questions related to identifying sources, pathways and exposures, the multiple decisions can be stated as the following questions:

1) "What is the extent and concentration of contamination?"

2) "Are pathways present by which constituents can be transported, and if so, what are the potential transport pathways (RI/FS Guidance page 3-5)?"

3) "Are there locations where human or ecological receptors could reasonably be exposed to AUS OU site-related constituents in a manner that could create measurable harm?"

4) "If the above reveals the presence of unacceptable risk or non-compliance with ARARs, what actions are most appropriate?"

When these principal study questions and the related multiple decisions were combined, five initial RI/FS decision statements were identified:

- Determine the boundaries and spatial characteristics of contamination;

- Determine which locations represent a source of contamination;

- Determine the likely migration pathways by which the constituents from the sources identified above can be transported;

- Determine the locations where human or ecological receptors may be exposed to unacceptable concentrations of area-related constituents;

- Identify ARARs, and determine which constituent concentrations in environmental media are likely to pose an unacceptable risk to human health or the environment under baseline (unremediated) conditions (this decision is made on a constituent-by-constituent basis). (Note that this is part of the baseline risk assessment, to be done by FWS.)

Step 3: Identify Inputs to the Decisions

Table 4-1 summarizes the information needed to resolve the decision statements and the environmental variables or characteristics that will be measured.

Step 4: Define the Study Boundaries

<u>Spatial Boundaries</u>

The horizontal and vertical spatial extent of the study boundaries will be the horizontal and vertical extent of contamination.

Temporal Boundaries

Seasonal weather changes will also put temporal boundaries on sample collection. Surface water and sediment samples from small, ephemeral surface water bodies will be collected (to the extent possible given the timing of approved work plan schedule deadlines) during the spring and early summer when they are most likely to contain water. Ephemeral ponds are also likely to be used for breeding and nursery areas, which represent sensitive life stages for aquatic species. Ephemeral ponds might not contain water during dry seasons, preventing water sample collection.· Surface water and sediment samples from permanent streams will be collected during summer, if possible, given work plan schedules, late summer, during the most likely period of low flow. This timing will result in the least dilution, and the easiest identification of depositional areas where contaminants would accumulate. For media such as surface water and groundwater that tend to change over time, data from samples that are older than a few years may not be representative of current conditions. For more stable media such as soils and sediments, validated historic data (i.e. PA/SI data) might still be representative of current conditions.

Step 5: Develop Decision Rules

The *Draft Scoping Document for Additional and Uncharacterized Sites (AUS) Remedial Investigation* (NewFields, 2003a) presented a proposed approach for the RI. The approach was revised and modified as presented in this work plan. These steps are to be applied at each AUS OU area separately:

- Step 1. The available data are screened to determine which analytical groups of Chemicals of Potential Ecological Concern (COPECs) and Chemicals of Potential Concern (COPCs) require further field investigation. For this purpose, the maximum detected concentration of each detected analyte is compared to its screening concentration. All exceeding analytes and their analytical groups are then considered as COPECs/COPCs which require further field investigation. The analytic groups used are designated as:

    - Metals (includes other inorganic constituents),
    - Volatile organic compounds (VOCs),
    - Semi-volatile organic compounds (SVOCs),
    - Polynuclear aromatic compounds (PAHs),
    - Explosives,
    - PCBs,
    - Pesticides, and
    - Dioxins.

- Step 2. The concentrations of identified COPECs/COPCs at each location and depth are then compared to their corresponding background levels, where applicable. Any location with an exceeding COPEC/COPC is identified as an exceedance location associated with

the entire analytical group of the exceeding COPECs/COPCs. Specific recommendations on background issues include:

  - Consistent with the IEPA and recent USEPA guidance, the appropriate approach for background analysis is the statistical two-sample (two-population) tests, in which exposure areas and background datasets are compared.
  - However, for the screening process, in which individual sample results must be compared to a standard, the two-population test is not applicable. Therefore, for the purpose of identifying outliers for screening, in most cases, individual sample results will be compared to the 95% upper tolerance limit (UTL) of background for those chemicals for which area-specific background values have been obtained. If there is a high degree of variability within the background data set, the UTL is unconservative and will not be used. When the coefficient of variance within the background data set is greater than 100%, no screening against UTL will be used and such contaminants cannot be eliminated at this stage based on background comparisons.

- Step 3. The PA/SI data around each exceedance location are assessed to determine if additional sampling is required to identify the source, nature and extent of contamination, and any associated migration pathways. This assessment is conducted visually on a case-by-case basis with the aid of the GIS dataset. Additional sampling points have been located considering the following factors: (1) area-specific knowledge and history (if known) for each area or location being evaluated, (2) the specific constituent(s) involved, including its behavior and mobility and concentration, (3) the physical area features such as drainage and topography, and (4) the potential for cross media contamination.

- Step 4. In addition to the above sampling points, supplementary sampling points in and around other potential release points have been added as requested by the Federal Facility Agreement (FFA) parties.

Specific applications of these decision rules for each AUS OU area are presented in Sections 4.2 and 5.1 through 5.5 of this RI/FS Work Plan. As discussed in these sections, in some cases, some detections of chemicals below the screening numbers may require further investigation to delineate the nature and extent of contamination. In other cases, additional investigation may not be required, when there is a small, localized exceedance of a screening value.

Step 6: Specify Limits on Decision Errors

Statistical options are premature because the Conceptual Site Model (CSM) is in a preliminary form. The applicable guidance document for determining limits on decision errors (USEPA, 2000a) involves comparing a sample population to an action level. These examples regarding tolerable decision errors are not applicable to the initial RI, and therefore the concept of tolerable decision errors will not used at this phase.

Step 7: Optimize the Design for Obtaining Data

The key elements of the initial RI optimal sampling design include:

- Additional sampling for each class of analytes where the maximum concentration from the PA/SI exceeded a screening concentration, to characterize source, nature, and extent; and to evaluate migration pathways;

- Confirmation sampling of the locations sampled in 1998 by the USEPA. The quality control and validation of those data were not fully documented, and therefore these locations are to be resampled to provide results that have less uncertainty;

- Additional sampling as required by the AOC/SOW to address "critical features" that were identified as potential release points from post-PA/SI reviews of historical operations in the AUS OU areas.

While these are the key elements for the Phase 1 investigation, other elements may need to be addressed in future investigations to meet all the requirements of the AOC.

4.2 RI/FS DATA COLLECTION APPROACH

The following sections describe the approach for collecting the data for the following purposes:

- Other Potential Releases,

- Support Ecological Risk Asssessment,

- Support Human Health Risk Assessment, and

- Exceedances of ARARs Evaluation.

Each of these approaches provide for the use of professional judgment for the selection and elimination of constituents for additional investigation based on site-specific information.

4.2.1 Other Potential Releases

The AOC/SOW required other potential releases ("critical features") to be investigated as part of the AUS OU RI/FS. In order to facilitate the number and location of the sampling points, a field visit was conducted on April 23 and 24, 2003 with representatives of GDOTS, FWS, and IEPA to determine the optimized location and number of samples for several of the AUS OU sites. The proposed soil, sediment, and/or groundwater sampling locations selected pursuant to the potential release areas identified in the AOC/SOW are discussed in Section 5.0.

4.2.2 Data Collection Approach to Support Ecological Risk Assessment

The following sections describe the data collection approach for soil, sediment, and surface water.

4.2.2.1 Soil Sample Collection Approach for Ecological Risk

During the PA/SI, soil samples were collected at locations at the AUS OU sites where activities were most likely to have impacted soil, or in drainageways downstream from previous industrial facilities where releases may have occurred. This second type of sampling was not intended to identify maximum concentrations, but rather to assess whether there may be sources in the area upstream of the sampling location. Also, surface soil samples were collected of cover materials in Areas 4, 8, 11 and 12 where structures were razed and buried in-place. Surficial release points may have been missed during surface soil sampling activities.

In addition, soil samples have been collected for other OUs in some of the areas currently included in the AUS OU. The additional sampling to be conducted in the initial RI will take into account the results of these previous soil samples. This section describes the approach for collecting additional soil data to support informed ecological risk management decisions and includes:

- Screening of Ecological Risk Soil COPECs for Additional Investigation,
- Determination of Additional Soil Sample Locations,
- Determination of Soil Sample Analyte Suites, and
- Determination of Soil Sample Depth Intervals.

4.2.2.1.1 Approach for Ecological Soil Constituent Screening for Additional Investigation

PA/SI data were utilized to determine which constituents would be further characterized in each of the AUS OU sites. In the case of sample locations where duplicates have been collected, the higher reported value for a constituent from the parent sample and duplicate is used. Figure 4-1 is a flow chart that describes the method for determining which soil constituents require additional investigation. Each step in this flow chart is discussed in Section 4.1 and presented below.

Step 1 compares the maximum detected constituent concentration to ecological soil screening criteria. The ecological soil screening criteria were the lowest of the direct exposure and ingestion soil screening criteria (see Table 4-2). If the maximum detected concentration from the PA/SI at an area is less than the ecological soil screening criteria, the constituent does not require additional investigation. If the maximum concentration detected during the PA/SI at an area is greater than the ecological soil screening criteria, the constituent continues to Step 2.

Step 2 is to compare the maximum detected constituent concentration to background values from the March 2000 dataset, for those chemicals included in this background dataset[2]. These background soil samples were also collected as part of the PA/SI using prescribed criteria for selecting background soil sample locations (FWS, 2003). Table 4-3 provides the background soil values used in ecological screening.

If the maximum detected soil constituent concentration at an area from the PA/SI is less than the soil background value, the constituent does not require additional investigation. If the maximum detected soil constituent concentration at an area is greater than the soil background value, the constituent continues to Step 3.
Step 3 is a comparison of the 95% upper confidence limit (UCL) of the constituents over the entire site to the higher of the ecological soil screening criteria and the soil background value. This step consists of three separate criteria evaluations. Step 3a compares the 95% UCL of the constituent over the entire site to the ecological screening criteria. If the 95% UCL of the constituent over the entire site is less than the ecological screening criteria and the soil background value, the constituent continues to Step 3. If the 95% UCL of the constituent is greater than these values, the constituent continues to Step 4. Step 3b is a determination if there is adequate sampling coverage over the site. If there is not adequate sampling coverage, the constituent continues to Step 4. If there is adequate sampling coverage, the constituent continues to Step 3c. Step 3c is a determination if the highest concentrations were appropriately bounded. If the elevated constituent concentrations are adequately bounded, no further constituent characterization is required. If the elevated constituent concentrations are not adequately bounded, the constituent continues to Step 4. The dataset for the calculation of the 95% UCL does not include data collected by the USEPA in 1998 that is of uncertain quality because of the significant variation between the analytical results of some of the 1998 USEPA and the PA/SI data. This USEPA data will be confirmed with additional data collection in the Phase I investigation and the 95% UCLs adjusted accordingly.

Step 4 provides the flexibility to select or eliminate constituents from further investigation based on site-specific information and/or professional judgment. For example, detections of chemicals that are not naturally-occurring in soil, sediment, and groundwater that are below screening level will be examined to consider the potential for an upgradient source.

The soil constituents retained in the 4-step screening process described above and illustrated in Figure 4-1 comprise the list of constituents potentially requiring additional data collection activities as part of the RI/FS. The selection of ecological constituents for additional investigation is described in Section 5.3.1. The final list of soil constituents requiring additional investigation is discussed in Section 5.0.

It should be noted that there are some differences in this 4-step process for screening soil constituents for additional investigation due to ecological risk criteria and the processes used in the EPF for selecting COPECs. The final list of soil constituents requiring additional investigation, if not adequately delineated, is inclusive of the COPECs identified in the EPF.

[2] Background for all comparisons will be restricted to compounds for which background data are available from the 2000 dataset only.

4.2.2.1.2 Ecological Soil Sample Locations, Depth Intervals, and Analytical Suite Selection Approach

The depth intervals for the Phase I RI soil sampling will be 0-0.5 ft bgs and 0.5-2.0 ft bgs. Soil samples will be analyzed for the analyte suite associated with the constituent that exceeded the ecological screening criteria or soil background value. For example, if the copper concentration in a soil sample exceeds the ecological screening criteria, all the soil samples collected in association with this copper exceedance will be analyzed for the entire metals analytical suite and not just copper.

4.2.2.2 Sediment Sample Collection Approach

This section describes the approach for collection of additional sediment data.

4.2.2.2.1 Sediment COPEC Screening for Additional Investigation

The ecological screening criteria in Table 4-4 were used to screen the PA/SI sediment data. The sediment COPECs are screened and listed in Section 5.0 and in the EPF prepared by FWS (FWS, 2005).

4.2.2.2.2 Sediment Sample Locations and Depth Interval Selection Approach

The proposed RI/FS sediment sample locations were based on the results of data collected during the PA/SI. The purpose of these samples is to characterize the nature and extent of contamination and potential sediment migration pathways. The sediment sample locations are collocated with surface water samples which are discussed in Section 4.2.2.3. The majority of the sediment sample locations were identified in the EWG meetings to facilitate approval of the RI/FS Work Plan. Sediment samples will be collected from a depth of 0 to 0.5 ft to assess the effects to potential ecological receptors.

4.2.2.2.3 Sediment Sample Chemical Analysis Approach

Sediment samples proposed to be collected as part of the RI/FS data collection activities will be analyzed for chemical constituents based on the results of the PA/SI sediment sample COPEC screening discussed in Section 4.2.2.2.1, and the COPC screening discussed in Section 4.2.3.4..

4.2.2.3 Surface Water Sample Collection Approach

This section describes the approach for collection of additional surface water data.

4.2.2.3.1 Surface Water COPEC Screening for Additional Investigation

The surface water ecological screening criteria in Table 4-5 were used to screen the surface water sampling data. The surface water COPECs are screened and listed in Section 5.0 and the EPF prepared by FWS (FWS, 2005).

4.2.2.3.2 Surface Water Sample Location Approach

RI/FS surface water sample locations were selected based on the results of the PA/SI data. The surface water samples are co-located with the proposed sediment samples discussed in Section 4.2.2.2**.** The purpose of these samples is to characterize nature and extent of contamination and potential surface water migration pathways.

4.2.2.3.3 Surface Water Sample Chemical Analysis Approach

Surface water samples proposed to be collected as part of the RI/FS data collection activities will be analyzed for constituents based on the surface water COPEC screening described in Section 4.2.2.3.1. Surface water samples collected during the RI/FS will be analyzed for chemical constituents that exceeded the ecological screening criteria in PA/SI samples. Existing PA/SI sample locations are proposed to be resampled due to concerns about metals concentrations detected in some samples. Both dissolved and total metal samples will be collected from the surface water samples to determine the bioavailability of the metals and to determine if suspended sediments may have caused metal exceedances.

The EWG had a concern about the potential for perchlorate in surface water. In areas where explosives/propellant may have been used or in drainage/migration pathways from these areas, all PA/SI surface water sample locations will be resampled, and additional RI/FS samples will be added, where appropriate. These samples will be analyzed for perchlorate.

4.2.3 Data Collection Approach to Support Human Health Risk Assessment and ARAR Evaluation

This section describes the approach for collecting soil data to support the baseline HHRA. The COPCs for additional data collection will be selected in accordance with the procedure identified below. The COPCs for the human health risk assessment will be identified by FWS following completion of data collection.

Potential human health receptors may be affected by constituents in soil, sediment, surface water, and groundwater via inhalation pathways and potentially other migration pathways. Soil screening values have been applied to sediment samples for the purpose of delineating nature and extent of contamination, since human health screening values for sediment are not available and most of the sediment samples were obtained from shallow drainages. A discussion of the relationship of sediment samples to human health risk is presented below. The following sections describe the data collection approach for soil, sediment, surface water, groundwater and soil vapor as related to assessing potential human health risk, and for soil, surface water and groundwater as related to compliance with applicable Federal and state laws and regulations.

The following are described in this section:

- Soil Sample Collection Approach for Human Health Exposure,
- Soil Sample Collection Approach for Potential Soil to Groundwater Impact,

- Surface Water Sample Collection Approach,
- Data Collection Approach Due to Constituents Detected in Sediment, Groundwater Data Collection Approach, and
- Soil Vapor Intrusion Data Collection Approach.

ARARs will be addressed with each sample collection effort as appropriate.

4.2.3.1 Soil Data Collection Approach for Human Health Direct Exposure Risk

This section describes the approach for collecting soil data to support the baseline HHRA and includes:

- Screening of Human Health Direct Contact Constituents for Additional Data Collection,
- Determination of Additional Soil Sample Locations,
- Determination of Soil Sample Analyte Suites, and
- Determination of Soil Sample Depth Intervals.

4.2.3.1.1 Approach for Human Health Direct Contact Risk Soil Constituent Screening for Additional Investigation

PA/SI data were utilized to determine which constituents would be characterized at each of the AUS OU sites.

Figure 4-2 is a flow chart that describes the method for determining which soil constituents require additional investigation due to potential human health direct contact exposure risk. This process was also utilized with sediment sample results. Each step in this flow chart is discussed below.

Step 1 in the human health direct contact soil constituent screening is to compare the maximum detected constituent concentration to the human health soil screening criteria. The human health direct contact soil screening criteria is the lowest of:

- USEPA Region 9 Industrial Soil PRGs (multiplied by 0.1 if based on non-cancer effects) (October, 2004)
- Illinois Tiered Approach to Corrective Action Objectives (TACO) Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties (Feb, 2003)
- TACO Tier 1 Soil Remediation Objectives for Construction Workers

- IEPA Soil Remediation Objectives for Industrial/Commercial Properties not included in the TACO Tier 1 Soil Remediation Objectives tables.

The soil screening criteria for all detected PA/SI soil constituents are listed in Table 4-2. The screening process will be based on the most current values available at the time of screening and may differ from those presented in this work plan. If the maximum detected constituent concentration at an area is less than the human health direct exposure soil screening criteria, the constituent does not require additional characterization. If the maximum detected concentration is greater than the human health soil screening criteria, the constituent continues to Step 2.

Step 2 compares the maximum detected constituent concentration from Step 1 to the background value. If the maximum detected soil constituent concentration at an area from the PA/SI is less than the soil background value, the constituent does not require additional investigation. If the maximum detected soil constituent concentration is greater than the soil background value, the constituent continues to Step 3[3].

Step 3 provides the flexibility to select or eliminate constituents for further investigation based on area-specific information and/or chemical-specific information. For example, a single, very small exceedance of the soil background for an inorganic chemical may not require additional sampling. On the other hand, detections of CVOCs in near-surface soils in areas of past industrial use, even when below the screening values, may be indicative of higher concentrations at depths. These will be considered for further investigation within the context of other available information. This step will also take into consideration potential upgradient sources.

The soil constituents retained in the 3-step process described above and illustrated in Figure 4-2 comprise the list of constituents requiring additional data collection activities as part of the RI/FS. The final list of soil constituents for each AUS OU area requiring additional investigation is included in Section 5.0.

4.2.3.1.2 Human Health Direct Exposure Risk Soil Sample Locations and Depth Intervals, and Analytical Suite Selection Approach

Surface soil samples will be collected from a depth interval of 0 to 6 inches, and direct exposure to soil will be evaluated to a depth of 10 ft. Delineation may extend deeper for other purposes.

Soil samples will be analyzed for the analytical suite associated with the constituent that exceeded the human health screening criteria and the soil background concentration for constituents with background values.

[3] If there is a high degree of variability within the background data set, the 95% UTL is not conservative and will not be used. When the coefficient of variance within the background data set is greater than 100%, the UTL comparison will not be used.

4.2.3.2 Data Collection Approach for Potential Groundwater Impacts from Soil Constituents

This section describes the approach for collecting soil data for evaluation of potential impact to groundwater from chemical constituents detected in soil and includes:

- Screening of Detected Soil Constituents to Soil to Groundwater (STG) Screening Criteria, and

- Determination of Additional Data Needs.

4.2.3.2.1 Soil to Groundwater Screening Approach for Additional Investigation

PA/SI soil data were also evaluated to determine which constituents detected in soil could impact groundwater. The steps used to determine which soil constituents should be investigated further due to potential impact to groundwater are discussed below.
Step 1 compares the maximum detected PA/SI soil constituent concentration at an area to the soil background value. If the maximum detected constituent concentration at an area is less than the soil background value, the constituent does not require additional investigation. A maximum detected constituent concentration at an area greater than the soil background value results in the constituent continuing to Step 2.

Step 2 in the STG screening for additional data collection is the comparison of the maximum detected constituent concentration at an area to the USEPA STG screening criteria (USEPA, 2002b) based on a dilution attenuation factor (DAF) of 20. In accordance with Appendix A of the USEPA Soil Screening Guidance, the DAF of 20 is used for situations in which dilution and attenuation is likely to occur between the source material and an actual drinking water well. Dilution and attenuation is identified as likely when the groundwater is not shallow or the area of continuous contamination distributed above screening values throughout the vadose zone is less than 30 acres. The USEPA STG DAF=20 screening criteria for all soil constituents detected during the PA/SI are listed in Table 4-2. If the maximum detected constituent concentration in a soil sample exceeds the USEPA DAF=20 screening criteria, the constituent continues to Step 5. The constituent continues to Step 3 if the maximum detected concentration is less than the USEPA DAF=20 criteria.

The purpose of Step 3 is to determine the appropriate IEPA classification for the aquifer underlying the area (Class I or Class II aquifer). The current status of the aquifer classifications for each area is Class I. Data proposed to be collected to aid in verifying the IEPA aquifer classifications is discussed in Appendix B. The result of Step 3 determines whether the maximum detected constituent concentrations in an area are screened against the IEPA Class I or Class II STG screening criteria in Steps 4A and 4B, respectively. As part of this phase of work, all aquifers are currently classified as Class I; therefore, the lower of the IEPA and USEPA STG criteria will apply. This step may apply in future phase of work if any of the aquifers are determined to be Class II aquifers.

Steps 4A and 4B in the STG screening process compare the maximum detected constituent concentration at an area to the IEPA Class I or II STG criteria as determined by Step 3. The

IEPA STG screening values used in the PA/SI soil screening are based on an assumed and, in most cases, conservative pH range of 6.25 to 6.64 standard units (SU). The STG screening criteria for all soil constituents detected during the PA/SI are listed in Table 4-2.. If the maximum detected constituent concentrations in a soil sample exceeds the representative IEPA Class I or Class II screening criteria (determined by Step 3 and currently Class I for this phase of work), the constituent is carried to Step 6. In most cases, additional assessment related to potential STG impact is not required for a constituent if the maximum detected constituent concentration is less than the representative IEPA classification STG screening criteria the constituent continues to Step 5 to consider potential upgradient sources.

Step 5 considers whether detections of constituents below the USEPA or IEPA STG are due to potential upgradient sources. In these cases, an evaluation will be conducted of the potential on an upgradient source and additional investigation will be conducted, if necessary.

Step 6 evaluates whether existing monitoring wells are located in the proximity of the soil samples that exceeded the USEPA and/or IEPA STG criteria. Demonstration of the use of existing monitoring wells to determine if constituents detected at concentrations exceeding the STG criteria in the soil samples have impacted groundwater should include: adequate characterization of groundwater flow direction such that the well is located down-gradient of the STG exceedance and the monitoring well is screened at an appropriate depth and distance from the STG exceedance to intercept the groundwater plume, if one exists. If monitoring wells are determined to be properly located (using the above mentioned criteria) in comparison to the STG exceedances and groundwater samples have been analyzed for the same analytes that exceeded the STG criteria, these data can be used to determine if the constituents in soil exceeding the STG criteria have impacted groundwater above the applicable USEPA Maximum Contaminant Levels (MCLs) and State of Illinois Groundwater Quality Standards. If monitoring wells exist at locations where the groundwater would be expected to be impacted if the soil sample that exceeded the STG criteria was actually impacting groundwater, the constituent continues to Step 7. Additional data will be collected for potential groundwater data needs as discussed in Section 4.2.3.2.2, if no monitoring wells exist at locations that would detect exceedances if those exceedances existed.

Step 7 determines if the constituents in soil exceeding the STG screening criteria also exceed the MCLs and State of Illinois Groundwater Quality Standards in groundwater samples collected from monitoring wells located near the soil STG exceedance locations. The constituent does not require any further investigation related to potential groundwater impact if the constituent in the related groundwater samples does not exceed the USEPA MCLs and State of Illinois Groundwater Quality Standards. If the detected constituents in the groundwater samples are present in concentrations greater than the USEPA MCLs and State of Illinois Groundwater Quality Standards, additional characterization of soil and groundwater will be performed. In areas where there are ongoing industrial operations (ie. at Areas 2 and 9), there is a possibility of more recent releases that would not yet be detected in groundwater. In these cases, additional investigation such as additional soil sampling and records searches may need to be conducted on a case-by-case basis.

The STG approach described above may not apply to CVOCs, or other mobile organic compounds with specific gravities greater than one. If these target analytes are measured in soil, deeper sampling may be warranted whether the STG criteria is exceeded or not. This will be evaluated on a case-by-case basis.

4.2.3.2.2 Soil to Groundwater Data Needs Approach

The monitoring wells installed to determine if the soil that exceeded the STG criteria have actually impacted groundwater will be sampled and analyzed for the analytical suite associated with the constituents that exceeded the STG criteria. For example, if arsenic concentrations in soil exceeded the STG criteria, the monitoring well adjacent to the arsenic exceedance would be sampled and analyzed for the metals analytical suite.

Groundwater samples from PA/SI monitoring wells which have inorganic constituents present at concentrations exceeding the USEPA MCLs and State of Illinois Groundwater Quality Standards will be resampled using quiescent sampling methods to limit turbidity of the samples and ensure that the concentrations of inorganic constituents in the samples were accurate. While groundwater analytical results used for comparison with applicable groundwater standards will be from unfiltered samples, some groundwater samples collected for inorganic analysis may be filtered to determine the effect that turbidity has the analytical results. Further discussion of groundwater sampling is discussed in Section 4.2.3.4.

Groundwater elevation data and other hydrogeologic data collected from the monitoring wells installed for the STG evaluation will also be utilized for the groundwater data needs (Section 4.2.3.4).

4.2.3.3 Data Collection Approach Due to Constituents Detected in Surface Water

The surface water sample collection approach for human health will follow the same procedure as that used for ecological sampling of surface water. The only deviation is that samples from the PA/SI were compared to Illinois Water Quality Use Standards to determine exceedances.[4] Table 4-5 lists the screening values for ecological and human health and the background values.

4.2.3.4 Data Collection Approach Due to Constituents Detected in Sediment

The Agencies have indicated that human health risks from sediment samples cannot be ignored, and should be screened using human health soil screening criteria and STG criteria to determine areas requiring characterization. It is recognized that this is a conservative screening approach since numerous sediment samples were collected within ponds and streams that have limited potential for human contact.

GDOTS proposes that sediment exceedances of the human health screening criteria be evaluated on a case-by-case basis. Any additional data collection due to sediment exceedances will

[4] Exceedance comparisons for surface water for metals analyses will be restricted to total metals.

consider the magnitude of the exceedance, and the potential for exposure and for cross-media contamination.

4.2.3.5 Groundwater Data Collection Approach

This section describes the approach for collecting groundwater data for site characterization to support the risk assessment and to assess compliance with ARARs. Results of PA/SI data and initial RI/FS data collection phases will be used in the data collection efforts in subsequent phases of investigation. The phased approach minimizes data redundancy while achieving data collection objectives. The phased approach consists of five general steps:

1) IEPA Aquifer Classification for Each AUS OU Area

2) Groundwater COPC Screening for Additional Characterization

3) Potentiometric Surface and Groundwater Analytical Data Characterization

4) Delineation of Extent of Groundwater Contamination

5) Groundwater Risk Characterization (done by FWS) and Assessment of ARAR Compliance.

The IEPA aquifer classification, groundwater constituent screening and potentiometric characterization (Steps 1, 2, and 3) are repeated as additional information becomes available (i.e., STG investigation results, other potential releases investigation results, and groundwater classification hydrogeologic data results). Steps 1, 2, and 3 of this approach will be conducted during the initial RI and again whenever additional groundwater analytical data are collected.

The PA/SI identified several locations where groundwater concentrations exceed both Illinois Class I and Class II groundwater standards. The groundwater data collection activities described in this work plan focus on the State of Illinois aquifer classification, and further definition of potentiometric surfaces, but not on delineating nature and extent of known exceedances of groundwater standards. GDOTS has attached to this work plan a Groundwater Investigation Work Plan Supplement (Appendix B) that details the Phase I groundwater investigation for delineating nature and extent of contamination. The groundwater investigation will include determining the extent (lateral and vertical) of the plumes associated with the known exceedances, and other data relevant to remediation. Additional characterization data will be obtained in subsequent phases.

Each step in the approach is discussed in more detail in the following sections.

4.2.3.5.1 IEPA Aquifer Classification (Step 1)

The appropriate Groundwater Screening Criteria (GSC) for an aquifer at an AUS OU area is based on the IEPA Groundwater Classification (Class I or Class II). An aquifer is considered Class I unless data supports a Class II designation as defined in 35 IAC 620. If an aquifer is considered an IEPA Class I aquifer, the GSC is the lower of the USEPA MCL (USEPA, 2003) and the IEPA Class I criteria. If the aquifer at an area is considered an IEPA Class II aquifer, the GSC is the IEPA Class II criteria.

If detected groundwater constituent concentrations at an area do not exceed the Class I/MCL screening criteria, additional characterization may not be needed. If the detected groundwater constituent concentrations at an area exceed the USEPA MCL or Class I designation, the IEPA aquifer classification must be determined. Single well response tests (slug tests) are proposed for the proposed RI/FS monitoring wells installed as part of the evaluation for other potential releases (Section 4.2.1) and potential groundwater impacts from soil (Section 4.2.3.2) and investigations to determine the hydraulic conductivity of the aquifer. The slug tests proposed as part of the RI/FS are discussed in the Phase I Groundwater Investigation Work Plan Supplement (Appendix B). In some cases, slug tests will have been conducted on several monitoring wells at an area during the PA/SI and RI.. GDOTS may reevaluate and re-slug test some of the PA/SI slug tests included in the PA/SI Report (FWS, 2003) to confirm previous estimates. Following the completion of the Phase I RI (and the Phase I groundwater investigation), the slug test data will be evaluated to determine if more detailed aquifer tests (pump tests) at any of the 32 sites will be required. The need for pump tests and their proposed locations will be discussed in the Phase I RI report and an associated Phase II RI/FS Work Plan Addendum.

4.2.3.5.2 Groundwater COPC Screening for Additional Investigation (Step 2)

Characterization of groundwater contamination will be based on the appropriate groundwater classification discussed in Section 4.2.3.5.1. However, these classifications will be re-assessed as appropriate as additional data become available during the RI/FS.

During the PA/SI, groundwater samples were collected from trenches and cisterns, as well as monitoring wells. Groundwater samples collected from trenches appear to have elevated inorganic constituent concentrations which were likely caused by turbidity in the samples. Because the representativeness of the groundwater samples collected in trenches is suspect, inorganic constituents will not be identified for potential additional investigation if the only exceedances of the appropriate screening criteria are in the trench samples.

If the concentration of a groundwater constituent does not exceed the appropriate GSC criteria, additional characterization efforts may not be necessary. However, if elevated levels of the chemical being evaluated are detected, additional investigation may be warranted, even if the levels do not exceed the screening criteria. This will be evaluated case-by-case. If the concentration of a detected groundwater constituent exceeds the GSC, the locations of the exceedances, historical area usage, chemical characteristics, and aquifer characteristics will be used to determine further data needs for groundwater contaminant characterization, including the

vertical extent of contamination. This is addressed in the Groundwater Investigation Work Plan Supplement.

The groundwater constituent screening for additional investigation results are discussed in Appendix B.

4.2.3.5.3 Groundwater Analytical Data and Potentiometric Surface Characterization (Step 3)

Step 3 includes:

- Groundwater analytical data characterization, and
- Potentiometric surface characterization in areas with groundwater constituents exceeding the GSC.

Groundwater analytical data (two rounds) are proposed to initially be collected from all existing and proposed monitoring wells during Phase 1 Stages 1 and 2, respectively, to create a baseline for groundwater conditions at the site. Data will be analyzed in the first step to determine if the groundwater constituent concentrations exceed the GSC. If the constituent concentrations exceed the GSC for any analyte, the well will be resampled. If the groundwater constituent concentrations do not exceed the GSC for any analyte, the following step will determine if the monitoring well is located apparently downgradient from monitoring wells with groundwater constituent concentrations exceeding the GSC. These downgradient monitoring wells are useful for DAF calculations.

The final step in the approach is to determine if the groundwater analytical data from the monitoring well will aid in DAF calculations. The analysis will consist of determination if paired wells are potentially located within the flow pathway from source areas. In such instances the ratio between groundwater contaminant concentrations and between groundwater and soil source concentrations will be estimated. The information will be utilized to estimate the potential spatial DAF from source areas (soil and groundwater in immediate vicinity) to locations at increasing distances downgradient. If GDOTS believes that groundwater analytical data from these remaining wells will aid in DAF calculations, either temporally or spatially, GDOTS will propose to resample the monitoring wells. If an existing or proposed monitoring well does not provide the relevant additional data, the well will not be sampled after the initial RI sampling round.

The hydrogeologic data collected during the PA/SI are not adequate to fully characterize the spatial and temporal variability of the potentiometric surface in areas with identified COPCs; additional necessary characterization will be done as part of the work described in the Groundwater Investigation Work Plan Supplement. This supplement describes the proposed groundwater analytical sampling activities from the existing and proposed monitoring wells. It also describes the proposed locations of the piezometers and staff gauges as well as the groundwater and surface water elevation collection schedule.

4.2.3.5.4 Groundwater Characterization (Step 4)

Groundwater characterization will be initiated concurrent with potentiometric surface characterization. The goal of this step is to characterize the groundwater contamination, including the source, plume, aquifer characteristics and migration pathway in groundwater. This activity is addressed in the Phase I Groundwater Investigation Work Plan Supplement (Appendix B). This step will include a geoprobe/temporary monitoring well sampling program initiated during Stage 1 of the Phase I investigation. The results of this Stage 1 temporary monitoring well sampling will be evaluated in a semi-quantitative fashion, since the analytical results of this step will be used to guide the placement of permanent groundwater monitoring wells during Stage 2. The second stage will follow completion of Stage 1 but be part of the Phase I activities. Stage 1 is intended to gather data on groundwater source areas and direct impacts at the water table. Stage 2 will use the Stage 1 data to further delineate the horizontal and vertical extent of both free-product and dissolved phase plumes by collecting an additional round of groundwater data at all Stage 1 and Stage 2 monitoring wells. However, this evaluation will be limited to the overburden aquifer above the bedrock surface. Exceedances of standards at the termination of the Stage 2 program will require additional investigation during Phase II with ongoing monitoring. The Phase II program will evaluate time trend data for the Phase I wells, and include a bedrock investigation, if necessary, to develop a comprehensive site conceptual model. The Stage 1 and Stage 2 investigation programs are included in the Phase I Groundwater Investigation Work Plan Supplement (Appendix B).

4.2.3.6 Soil Vapor Data Collection Approach

One of the potential exposure pathways at CONWR is vapor intrusion into existing and/or future buildings. Groundwater concentrations will be compared to appropriate screening concentrations to determine if the potential exists for soil vapor to affect present and future buildings. Existing and additional soil and groundwater data collected during the Phase I RI, as well as data currently being collected for potential vapor intrusion at the PCB OU, will be used to develop a work plan addenda for soil vapor data collection for subsequent investigation.

5.0 REMEDIAL INVESTIGATION AND FEASIBILITY STUDY DATA COLLECTION TASKS

The following sections describe the data collection activities for each of the 32 AUS OU sites based on the analysis approaches described in Section 4.0.

In addition to specific sample collection activities described in this plan, base topographic maps with 2-foot contour intervals will be developed for AUS sites 0A2R, 0A4W, 0A06, 0A07, 0A10, 0A13, 0062, 0065, 0066, 0067, 0069, 0018, 0043, 106A, and 0A03 from aerial photographs taken in January 2000, and are used as base maps in the AUS OU PA/SI report. The topographic maps will be equivalent to those derived from the January 2000 aerial photographs, for those AUS OU sites that have not been surveyed to produce maps.

This section summarizes the following information for 32 sites that make up the AUS OU:

- Previous investigations,
- Other potential releases data collection activities (as defined in the SOW),
- Ecological and human health receptors soil data collection activities,
- Proposed activities to address drum and sewer line sample exceedances,
- Surface water/sediment sample data collection activities, and
- Groundwater data collection activities.

5.1 PREVIOUS INVESTIGATIONS

The following sections describe the previous investigations conducted at the AUS OU sites and builds upon the overall discussion presented in Section 3.0.

5.1.1 1998 USEPA Soil Sampling

The USEPA collected soil samples from several of the AUS OU sites in 1998. Sample locations are shown on Figures 5-1 through 5-39 and the results of the 1998 USEPA soil sampling are included in Appendix C. A further discussion of these soil samples is included in Section 5.3.6.

5.1.2 PA/SI Data Collection

The locations of the PA/SI soil, drum, sewer line, sediment, surface water and groundwater sample locations for the AUS OU areas are shown on Figures 5-1 through 5-39. The analytical results for soil, sediment, surface water and groundwater are listed in Tables 5-1 through 5-109.

5.1.3 Other Previous Investigations

The following lists investigations conducted at the AUS OU sites in addition to the PA/SI.

5.1.3.1 Area AUS-0A2D Previous Investigations

Three sites in or near Area AUS-0A2D were included in the original 1988 RI for CONWR (O'Brien & Gere, 1988):

- Site 7 - D Area Southeast Drainage Channel, a channel located to the east of AUS-A2D and discharges into Crab Orchard Lake,
- Site 7A - D Area North Lawn, is a three-acre lawn located to the northwest of Building D-1-35, where barrels of chemicals were reportedly dumped, and
- Site 8 - D Area Southwest Drainage Channel, located near the southwest corner of Area AUS-0A2D.

In the AOC for AUS OU, CONWR, Sites 7, 7A, and 8 were included as part of the MISCA OU. The locations of these three OU sites are shown on Figures 5-2A and 5-2B. An RI for the MISCA OU was completed in 1996 (WCC, 1996). The 1996 RI concluded that no further investigations were necessary at Site 7 (D Area Southeast Drainage Channel), Site 7A (D Area North Lawn), and Site 8 (D Area Southwest Drainage Channel).

5.1.3.2 Area AUS-0A2F Previous Investigations

One site in Area AUS-0A2F (Site 20 – D Area South Drainage Channel) was included in the original 1988 RI. Site 20 consists of a ditch originating near the northeast corner of Building F-2-2. The swale flows east outside of the fenced area and a sheen was reported on the water in this ditch. A 4-inch pipe drained into this ditch from the north side of the service road. The purpose of this pipe was not determined, since no buildings have been identified north of this roadway (FWS, 2003).

Site 20 was included as part of the MISCA OU and the MISCA RI did not recommend further investigation at this AUS area. The location of this MISCA OU area is shown on Figure 5-3.

5.1.3.3 Area AUS-0A2P Previous Investigations

Four areas in Area AUS-0A2P were included in the original 1988 RI:

- Site 9 - P Area NW Drainage,
- Site 10 - Waterworks North Drainage,

- Site 11 - P Area SE Drainage, and

- Site 11A - P Area North.

Sites 9, 10, 11, and 11A were included as part of the MISCA OU RI. The locations of MISCA OU Sites 9, 11, and 11A are shown on Figure 5-4. The location of MISCA OU Area 10 is shown on Figure 5-1. The RI concluded that no further investigations were necessary at Site 9, Site 11, and Site 11A. Some PAHs were detected in Area 10 at concentrations greater than 1996 RI preliminary levels of concern (FWS, 2003). However, a human health risk assessment was not conducted for Area 10, because human use is restricted (fenced) and the RI concluded that a completed exposure pathway for human risk does not exist at this area (FWS, 2003).

5.1.3.4 Area AUS-0A4E Previous Investigations

One area within Area AUS-0A4E, Site 29 – Fire Station Landfill, was included in the original 1988 RI. The location of this area is shown on Figure 5-6. Site 29 was characterized and remediated in 1996 as part of the MAOU. The PA/SI notes that aerial photographs indicate that surficial deposits in Site 29 of the MAOU extended beyond the area that was remediated (FWS, 2003).

5.1.3.5 Area AUS-0A4W Previous Investigations

Two sites in Area AUS-0A4W have been investigated and remediated. Site 22, the Old Refuge Shop Channel, was investigated during the 1988 RI and was remediated as part of the MAOU. The location of this area is shown on Figure 5-7. The MAOU remediation was completed in 1996. During remediation of Site 22, the contamination (cadmium, chromium, lead, and cyanide) was determined to be more widespread than the original delineation indicated, and an additional investigation was performed during the remedial action to complete the delineation (FWS, 2003). Figure 5-7 depicts the areas remediated by excavation as a result of that investigation.

Site 22A (Post Treating Facility) was part of the MISCA OU and it was investigated and remediated in a removal action in 1996 (FWS, 2003). The location of this area is shown on Figure 5-7.

5.1.3.6 Area AUS-0A07 Previous Investigations

Two sites in Area AUS-0A07 were included in the original 1988 RI:

- Site 15 – the “Plating” Pond

- Site 16 – Area 7 Industrial Site.

The locations of these sites are shown on Figures 5-9A and 5-9B.

Site 15, located just south of Area AUS-0A07, was remediated as part of the MAOU. The PA/SI (FWS, 2003) states that the referral of Site 15 as a "Plating Pond" may be inaccurate and based on hearsay. Site 15 had an inlet pipe located on the north side of the pond. The origin of this pipe was not determined during remediation, and the outlet portion was removed during remediation (FWS, 2003).

Nineteen samples were collected at Site 16 (Area 7 Industrial Park) during the O'Brien & Gere RI (O'Brien & Gere, 1988): five composite surface water samples, five composite sediment samples and nine composite soil samples. The locations of soil and sediment samples are shown in Figure 5-9A and 5-9B. Next to Buildings IN-5-2 and IN-5-3, composite soil samples 16-15 and 16-16 were collected for chemical analysis (all soil and sediment results are in dry weight except where noted). The following constituents exceeded PA screening levels: Methylene chloride (30 micrograms per kilogram [ug/kg] wet weight), and alpha-BHC (336 ug/kg) were detected above USEPA Soil Screening Levels (SSLs). Arochlor 1254 (280 ug/kg wet weight) was detected above screening values. Next to Building IN-4-4, composite soil samples 16-11 and 16-12 were collected for chemical analysis. Antimony (22 milligrams per kilogram [mg/kg]) exceeded Refuge background values and screening values. Next to Building IN-3-5, composite soil samples 16-13 and 16-14 were collected for chemical analysis. The following compounds exceeded preliminary screening levels: Alpha-BHC (122 ug/kg) exceeded USEPA SSLs. Arochlor 1254 (2,552 ug/kg) exceeded USEPA SSLs and other screening concentrations. Antimony (5.1 mg/kg) exceeded USEPA SSLs and Refuge background values. Next to Building IN-3-4, composite soil samples 16-9 and 16-10 were collected for chemical analysis. The following compounds exceeded preliminary screening levels: Arochlor 1254 (263 ug/kg) exceeded screening concentrations. The remaining composite sediment and surface water samples (16-1 through 16-8) were collected from the north-flowing drainage ditch that runs through the center of the area. Samples (16-18 and 16-19) were collected from this same drainage ditch, only downstream of Area 7 (outside boundaries of Area 7). Carbon tetrachloride (66 ug/L), chloroform (77 ug/L) and trichloroethene (TCE) (1 ug/L) were detected in the surface water in this drainage ditch (within the boundaries of Area 7), but all were detected below PA screening criteria. No compounds were detected above preliminary screening levels in the surface water in this drainage ditch within the boundaries of Area 7. Anthracene (256 ug/kg wet weight) was detected in the sediment above Region IV Sediment Screening Values and above Canadian Sediment Quality Guidelines (CSEQGs). Chrysene (453 ug/kg wet weight) was detected in the sediment above Region IV Sediment Screening Values. Pyrene (356 ug/kg wet weight) was detected in the sediment above Region IV Sediment Screening Values and above IEPA Sediment Cleanup Objectives. Alpha endosulfan (Endosulfan I) (137 ug/kg) was detected in the sediment above ECOTOX values. Antimony (20 mg/kg) was detected in sediment above ECOTOX values and Region IV Sediment Screening Values. Site 16 was later addressed further as part of the MISCA OU RI

Site 16 was included in the 1996 MISCA OU RI. In the Phase I investigation, two composite/discrete soil sample pairs, plus a duplicate pair, were collected from the same drainageway in the center of the area that was sampled during the 1988 RI (O'Brien & Gere) and from near the same area around Building IN-3-4 that was sampled during the 1988 RI. The discrete samples were collected from depths of 1.8 and 1.9 ft bgs and analyzed for the CERCLA Target Compound List (TCL) VOCs. The composite samples were taken from depths of about

0.5 to 0.8 ft bgs and analyzed for the CERCLA Target Analyte List (TAL) inorganics and TCL organics (except VOCs), and explosives. Aroclor 1254 (130 ug/kg) and Aroclor 1260 (61 ug/kg) were detected above the preliminary levels of concern (PLCs) established for the 1996 RI. Cadmium (4.2 mg/kg) was also detected above its screening values. Phase II sampling in the same area resulted in no detections of PCBs or cadmium. However, 2-butanone (570J ug/kg), ethylbenzene (1,200 ug/kg), methylene chloride (9J ug/kg), and total xylenes (13,000 ug/kg) were detected. All detections in soil samples collected during the MISCA OU RI were below preliminary levels of concern (FWS, 2003).

5.1.3.7 Area AUS-0A08 South Previous Investigations

Three sites located in Area AUS-0A08 were investigated during the 1988 RI:

- Site12 (Area 14 Impoundment),
- Site 13 (Area 14 Change House), and
- Site 14 (Solvent Storage).

The locations of these sites are shown on Figures 5-10A and 5-10B.

Site 12 was the bermed area to the east of Building III-1-23, which previously contained a fuel above-ground storage tank (AST) for the Load Line III Boiler House. Site 13 was the location of one of the Area 8 Change Houses (Building III-1-23). Site 14 was scheduled for remediation as part of the MISCA OU (FWS, 2003). Sites 12, 13 and 14 were included in the MISCA OU RI (WCC, 1996; FWS, 2003).

The 1996 RI (WCC, 1996) concluded that no further investigations were necessary at MISCA Site 12. MISCA Site 13 was recommended for inclusion in the EMMA OU and as a result no samples were collected as part of the 1996 MISCA OU RI (FWS, 2003). The MISCA OU ROD (2002) indicates that Area 13 will be included in the AUS OU. MISCA Site 14 was investigated and was scheduled for remediation under the MISCA OU (FWS, 2003).

5.1.3.8 Area AUS-0A09 West Previous Investigations

Three areas in Area 9 were investigated during the 1988 RI:

- Site 32 (Area 9 Landfill),
- Site 33 (Area 9 Building Complex), and
- Site 35 (Area 9 Waterway).

Both Sites 32 and 33 were remediated for PCBs as part of the PCB OU (FWS, 2003). Figure 5-11 identifies the estimated excavation limits of the remediated area. Site 35 was described as a

low-lying area in an agricultural field to the east of Area AUS-0A09. According to the 1988 RI, this area did not have significant contamination and therefore was eliminated from further investigation. The area was included in the MISCA OU but, based on the 1988 RI findings, no investigation was conducted (FWS, 2003).

5.1.3.9 Area AUS-0A10 Previous Investigations

In 1997, Parsons Engineering Science, Inc. (Parsons) completed a visual walkthrough of Area AUS-0A10 as a part of the EMMA OU investigation (Parsons, 1997), using Schonstedts (magnetometers) to aid in the visual investigation for ordnance. One smoke grenade (M-18) was discovered slightly north of the firing range and detonated as part of the EMMA OU activities (FWS, 2003).

5.1.3.10 Area AUS-A11A Previous Investigations

Two previous EMMA OU sites were located in the Area 11 Acid and Ammonium Nitrate Production Area:

- COP-1
- COPGII

The locations of these sites are shown on Figure 5-14.

The 1988 RI investigated one area in the former Acid and Ammonium Nitrate Production Area that was designated as Site 5 – the Area 11 Acid Pond (O'Brien & Gere, 1988). This site was later renamed COP-1 in the WCC Confirmation Study (WCC, 1988). COP-1 was further investigated in the ESE EMMA OU RI/Baseline Risk Assessment Report (1994). The ESE RI concluded that there were no unacceptable human health risks or ecological risks associated with COP-1 (FWS 2003).

EMMA OU Site COPGII was not investigated until Parsons conducted their investigation in 1997 (Parsons, 1997). The results of the investigation were discussed in Parsons' Engineering Evaluation and Cost Analysis (EECA) report (Parsons, 1997), which only addressed ordnance and explosive waste (OEW) concerns at this area.

5.1.3.11 Area AUS-A11H Previous Investigations

Parsons conducted an OEW investigation at the former EMMA OU Site COPGII in 1997. COPGII covers all of Area 11, including the AUS-A11A, AUS-A11H, AUS-A11N, AUS-A11P and AUS-A11S. No investigation on constituent release was conducted (FWS, 2003).

5.1.3.12 Area AUS-A11N Previous Investigations

There were two previous EMMA OU sites located in the Area 11 Nitroglycerin Area:

- COPGII
- COP-2

The locations of these sites are shown on Figures 5-15A and 5-15B.

The 1988 RI (O'Brien & Gere, 1988) investigated one area in AUS-A11N that was designated as Site 4, the Area 11 North Field. This area was later renamed as COP-2 in the Woodward Clyde Confirmation Study. COP-2 was further investigated in the ESE EMMA OU RI/Baseline Risk Assessment Report (ESE, 1994). The ESE EMMA OU RI/Baseline Risk Assessment concluded that there were no unacceptable human health risks or ecological risks associated with COP-2.

EMMA OU Site COPGII was not investigated until the Parsons investigation in 1997 (Parsons, 1997). The results of this investigation were discussed in the Parsons EECA report, which only addressed OEW concerns at this area. Parsons also sampled the suspected buried railroad tank cars for SVOCs, metals, explosives, nitrate and cyanide. Some low-level explosives and SVOCs were detected in the material found inside the railroad tank cars (RRTCs); however, Parsons stated that this area does not pose a concern and recommended no further action regarding these two RRTCs (FWS, 2003).

5.1.3.13 Areas AUS-A11P and AUS-A11S Previous Investigations

Parsons conducted an OEW investigation at former EMMA OU Site COPGII in 1997 (Parsons, 1997). COPGII covers an area of approximately 11,440,000 square ft and includes all of Area 11. There has been no investigation of constituent releases completed for these areas (FWS, 2003).

5.1.3.14 Area AUS-0A12 Previous Investigations

The following non-AUS OU sites in Area 12 have previously been investigated:

- EMMA OU Site COP-4 (investigated by O'Brien & Gere [1988] as Area 3),
- EMMA OU Site COP-3, and
- Water Tower OU Site No. 2.

The locations of these sites are shown on Figures 5-20 through 5-24.

Site COP-4 was remediated as part of the EMMA OU. The extent of remediation is shown on Figure 5-21.

Site COP-4 was remediated as part of the EMMA OU. The extent of remediation is shown on Figure 5-21. O'Brien & Gere (1988) investigated Site 3, the Area 11 South Field, which was later renamed COP-4. Three composite soil samples and two composite sediment samples were collected from this area (COP-4, O'Brien and Gere Site No. 3) during this RI. Soil and sediment results are reported in dry weight except where noted. Some of the data was determined not to be usable. The following VOCs were detected above USEPA SSLs and/or New Dutchlist Soil Optimum Levels (DSOLs) in soil samples: acetone (0.073 mg/kg), methylene chloride (0.114 mg/kg), tetrachloroethene (0.049 mg/kg), and toluene (0.002 mg/kg). The following SVOCs exceeded USEPA SSLs and/or Canadian Soil Quality Guidelines (CSOQGs): 2,6-dinitrotoluene (0.389 mg/kg), benzo[a]anthracene (0.059 mg/kg wet weight (wt)), chrysene (0.064 mg/kg wet wt), naphthalene (0.041 mg/kg wet wt), and pyrene (0.066 mg/kg wet wt). Arochlor 1254 (0.86 mg/kg wet wt) exceeded DSOLs. Barium (1,210 mg/kg) was detected above USEPA SSLs and Refuge background levels. Chromium (59 mg/kg) exceeded CSOQGs and Refuge background levels. In the sediment samples, tetrachloroethene (0.184 mg/kg) was detected above USEPA ECOTOX levels. Arochlor 1254 (0.15 mg/kg) exceeded USEPA Region IV levels. Chromium (80 mg/kg) exceeded CSEQGs.

At COP-4, ESE dug 10 test pits along a linear magnetic anomaly that turned out to be an industrial dumping area. Surficial soil samples were taken in a reported burn area. The location of the burn area is shown in Figure 15-3. Wells were installed in sandy glacial material at depths around 23 to 24 ft. Several soil borings were installed. In the soil samples, arsenic (33 mg/kg), barium (386 mg/kg), beryllium (1.2 mg/kg), nickel (43.3 mg/kg), and thallium (1.61 mg/kg) exceeded USEPA SSLs and Refuge background levels. Copper (40 mg/kg) and zinc (254 mg/kg) exceeded DSOLs and Refuge background levels. Calcium (21,600 mg/kg), lead (34.1 mg/kg), and magnesium (13,900 mg/kg) were detected above Refuge background levels. Barium (510 ug/L), chromium (707 ug/L), and cobalt (500 ug/L) exceeded New Dutchlist Groundwater Optimum Levels (DGOLs) in the groundwater samples. Arsenic (77.4 ug/L), cadmium (40 ug/L), copper (479 ug/L), lead 341 ug/L), selenium (3.7 ug/L), silver (50 ug/L), and zinc (1,840 ug/L) were detected above Canadian Water Quality Guidelines (CWQGs). Aluminum (11,900 ug/L), antimony (530 ug/L), beryllium (50 ug/L), and manganese (2,880 ug/L) exceeded MCLs. Iron (2,990 ug/L) exceeded both MCLs and CWQGs. In the test pit soil samples, HMX was detected from 0 to 2 ft at 65 mg/kg in Test Pit 9 and 10,800 mg/kg in Test Pit 10. RDX was detected from 0 to 2 ft at 10.8 mg/kg in Test Pit 7, 43,900 mg/kg in Test Pit 9, and 85,600 mg/kg in Test Pit 10. The explosive 1,3,5-trinitrobenzene (TNB) was detected at levels of 6.1 mg/kg from 4 to 6 ft in pit 9 and 179 mg/kg from 0 to 2 ft in Test Pit 10. TNT was detected in Test Pit 7 at 10.4 mg/kg from 0 to 2 ft. In Test Pit 9, TNT was detected from 0 to 2 ft at 44,600 mg/kg, 4 to 6 ft at 39.4 mg/kg, and 8 to 10 ft at 446 mg/kg. TNT was also detected in Test Pit 10 from 0 to 2 ft at 77,000 mg/kg and 8 to 10 ft at 11 mg/kg. Test Pits 9 and 10 were included in the remediated site. Tetrachloroethene was detected in Test Pit 2 at 0.25 mg/kg, which exceeded USEPA SSLs. The SVOC compound 2,6-dinitrotoluene was detected at levels of 97.7 mg/kg in test pit 10 from 0 to 2 ft and exceeded USEPA SSLs. The following chemicals were detected above USEPA SSLs and Refuge background levels: antimony was detected in Test Pit 1 at 12.9 mg/kg from 0 to 2 ft, barium was detected at 2,140 mg/kg in Test Pit 1 from 0 to 2 ft, beryllium was detected at 0.98 mg/kg in Test Pit 10 from 8 to 10 ft, cadmium was detected at 5.1 mg/kg in Test Pit 10 from 0 to 2 ft, mercury was detected at 1.07 mg/kg in Test Pit 1 from 0 to 2 ft, nickel was detected at 83.3 mg/kg in Test Pit 1 from 0 to 2 ft, silver was detected at 5.1 mg/kg in Test

Pit 1 from 0 to 2 ft, and sodium was detected at 742 mg/kg in Test Pit 1 from 0 to 2 ft. The following chemicals were detected above DSOLs and Refuge background levels: copper was detected at 639 mg/kg in Test Pit 1 from 0 to 2 ft, lead was detected at 421 mg/kg in Test Pit 1 from 0 to 2 ft, and zinc was detected at 2,460 mg/kg in Test Pit 1 from 0 to 2 ft. Chromium was detected at 107 mg/kg in Test Pit 2 from 0 to 2 ft and exceeded CSOQGs and Refuge background levels. The following chemicals were detected above Refuge background limits: calcium was detected at 92,900 mg/kg in Test Pit 3 from 2 to 4 ft, iron was detected at 59,500 mg/kg in Test Pit 3 from 2 to 4 ft, and magnesium was detected at 14,600 mg/kg in Test Pit 3 from 2 to 4 ft. Based on the chemical results of this investigation, there were unacceptable human health risks (for 1,3,5-TNB, TNT and RDX) and unacceptable ecological risks (for HMX, RDX, TNT and 1,3,5-trinitrobenzene for the small mammal, white-tailed deer and bob white quail, also for zinc for the bob white quail) at this site, so remediation was recommended. This site has been remediated.

Site COP-3 was the Area 12 Powder Ponds. Soil borings were done and one monitoring well was installed at COP-3 as part of the WCC Confirmation Study (1988). Soil and groundwater samples showed some evidence of chemical contamination. Based on these results, COP-3 was included in the RI/Baseline Risk Assessment (BRA). Twelve soil borings were drilled and sampled at COP-3 in the area of the former impoundments, and three sediment samples were taken from the discharge ditch. Soil borings were drilled as closely as possible to the centers of the trenches, and sampling was done at intervals from 4 to 18 ft, except for two borings which were sampled from 0 to 2 ft and from 2 to 4 ft. Shallow samples were not taken in most of the borings because of the assumption that at least the upper 4 ft of soil was fill. All soil samples were analyzed for explosives and metals and a few were also analyzed for VOCs and base-neutral acids (BNAs). Sediment samples were analyzed for explosives. Two wells were installed to depths of approximately 23 ft in glacial material, in addition to the one monitoring well that had been installed by WCC during the Confirmation Study in 1988. Groundwater samples were analyzed for metals and explosives, and one sample was analyzed for VOCs and BNAs. In the soil samples, cobalt (23.9 mg/kg) exceeded DSOLs and Refuge background levels. Arsenic (18.2 mg/kg), barium (317 mg/kg), beryllium (1.34 mg/kg), and mercury (0.11 mg/kg) were detected above USEPA SSLs and Refuge background levels. Cadmium (5 micrograms per Liter (ug/L)) exceeded CWQGs in the groundwater samples. Barium (330 ug/L), chromium (417 ug/L), and cobalt (100 ug/L) exceeded DGOLs. Aluminum (21,000 ug/L), antimony (50 ug/L), beryllium (6 ug/L), and manganese (5,480 ug/L) exceeded MCLs. Iron (10,100 ug/L) was detected above MCLs and CWQGs in the groundwater samples. All three of these monitoring wells have been abandoned. This site was determined to require no further action in the EMMA OU RI (ESE, 1994).

Water Tower OU Site No. 2 was addressed in an investigation as part of the Water Tower OU in 1992, then again in 2000. In the 2000 investigation, 29 soil samples were taken in the vicinity of the former water tower and analyzed for lead. Lead was detected at concentrations from 9.2 mg/kg to an estimated concentration of 968 mg/kg, with an estimated 95 percent UCL of the mean of 144 mg/kg. Based on the analytical results, it was concluded that the site did not represent unacceptable risk and no further action was appropriate. These findings were included in the closure report for the Water Towers OU (FWS, 2003). Additional details about the EMMA OU are discussed in the AUS OU PA/SI (FWS, 2003).

5.1.3.15 Area AUS-0A13 Previous Investigations

The 1988 RI investigated two sites in Area 13:

- Site 18 (Area 13 Loading Platform [north end of Area 13])
- Site19 (Area 13 Bunker 1-3 [Building FAI-1-3])

The locations of these sites are shown on Figure 5-25.

As part of the EMMA OU RI (ESE, 1994), ESE re-investigated Site 19. No detectable organic constituents or metal detections above background were found in the soil or groundwater (FWS, 2003). Site 18 was included in the preliminary ecological risk assessment (PERA) for the MISCA OU Phase I RI. The 1996 WCC RI (Woodward-Clyde, 1996) states that the PERA concluded there is little likelihood of potential ecological risk at Site 18 and recommended no further assessment for the site. The 1996 RI report (Woodward-Clyde, 1996) also stated that Site 18 is planned to be "part of the Uncharacterized Sites OU at the Refuge" per the Site 36 Record of Decision.

Site 18 from the 1988 RI (O'Brien & Gere, 1988) was designated as EMMA OU Site COP-7 in the Parsons' report (Parsons, 1997). This site was included with the rest of Area 13 when Parsons conducted a visual inspection of Area 13 as a part of the EECA for the EMMA OU. No indication of the presence of UXO was found in Area 13 (FWS, 2003).

5.1.3.16 Area AUS-0062 Previous Investigations

As part of the EMMA OU, the Department of the Army conducted an OEW investigation at Area AUS-0062 (formerly COC-11) in 1997 (Parsons, 1997). No chemical analyses were conducted as part of this investigation.

5.1.3.17 Area AUS-0066 Previous Investigations

Under contract to the Department of Army, Parsons conducted an OEW investigation at this area (COC-14) in 1997 (Parsons, 1997). There have been no investigations of constituent releases performed in this area (FWS, 2003).

5.1.3.18 Area AUS-0069 Previous Investigations

Under contract with the Department of Army, Parsons conducted an OEW investigation at this area (COC-15) in 1997 (Parsons, 1997). No chemical analyses were conducted as part of this investigation.

5.1.3.19 Area AUS-0061 Previous Investigations

A portion of the IOP Disposal Area of AUS Area AUS-0061 is co-located with the JCLF (PCB OU Site 17) (FWS, 2003). The remediation done at the JCLF fill overlapped several the trenches

identified in the AUS-0061 1943 aerial photograph (FWS, 2003). Specific remediation limits have not been identified at the JCLF site; however, a post-remediation contour map indicates that several of the trenches were located outside of the boundaries of the contour lines that were surveyed (FWS, 2003). It also appeared that remediation completed in the area of the former trenches did not extend below 3 ft bgs (FWS, 2003).

5.2 OTHER POTENTIAL RELEASES DATA COLLECTION ACTIVITIES

The AOC/SOW lists several other potential releases that require investigation. On April 24 and April 25, 2003 representatives of FWS, IEPA, and GDOTS conducted a field visit to several of the AUS OU areas to evaluate other potential releases and develop a sampling approach for the features requiring additional characterization. Input from the above mentioned representatives was used in developing the proposed data collection activities. Tables 5-110 through 5-125 list the other potential releases as described in the AOC/SOW, as well as the existing and proposed soil borings and monitoring wells to characterize these releases.

Additional data collection is proposed for several areas not listed in the AOC/SOW based on requests from the Agencies or information obtained from other documents. Figures 5-1 through 5-39 identify the existing and proposed soil, sediment, surface water and monitoring well locations for the AUS areas. Tables 5-126 through 5-157 list the proposed sample depths, and associated analytical suites for each soil boring proposed in each AUS area as part of this RI/FS Work Plan.

The following are AUS OU areas with other potential releases listed in the SOW that warrant further detailed discussion:

5.2.1 Area AUS-0A03 Other Potential Releases

The AOC/SOW states that all storage igloos should be sampled at locations most likely to identify releases originating from the use of the igloos. A historical records search identified twenty seven storage buildings within Area AUS-0A03. Some of the buildings were documented as storing munitions and appeared to have loading docks. One building (Fam 1-3) was destroyed in a fire in 1996.

An additional evaluation of available information on the operational history and nature of industrial activity in this area including, if any, historical waste disposal and other practices that may have contributed to or resulted in potential releases of hazardous substances. Additionally, available information will be provided on the uses of each building and by which tenant, including the specific years tenants occupied buildings in Area 3. The results of this task will be submitted with the Phase II addendum.

5.2.2 Area AUS-0A06 Other Potential Releases

The AOC/SOW states that all storage igloos should be sampled at locations most likely to identify releases originating from the use of the igloos. Twenty-six of the 82 storage igloos were

sampled during the PA/SI. Fifteen of the 26 samples exceeded either human health or ecological screening criteria.

5.2.3 Area AUS-0A8S South Other Potential Releases

One of the potential releases listed in the AOC/SOW was the bermed area containing a former AST near the end of the area. A review of previous investigations conducted at Area AUS-0A8S indicates that this berm was part of MISCA OU Site 12 (FWS, 2003). MISCA OU Site 12 was sampled and closed as described in Section 5.1.3.7. However, this area will be evaluated as required by the AOC.

5.2.4 Area AUS-0A09 Other Potential Releases

The AOC/SOW lists the explosive storage area located at the north end of Area AUS-0A09 as a potential release requiring investigation. This area is being investigated based on information provided by FWS.

5.2.5 Area AUS-0A13 Other Potential Releases

The AOC/SOW states that all storage igloos should be sampled at locations most likely to identify releases originating from the use of the igloos. Thirty-one of the 93 storage igloos were sampled during the PA/SI. Twelve of the 31 samples exceeded either human health or ecological screening criteria.

5.2.6 Area AUS-0069 Other Potential Releases

The AOC/SOW does not list any other potential releases for additional investigation in Area AUS-0069. However, the FFA parties requested soil samples be collected in an area identified on the historical aerial photographs as possible materials storage. The location of these proposed soil samples are shown on Figure 5-29. The 1943 aerial photograph shows that the area may extend east along the road and south of the road which is beyond the area proposed for additional sampling. Interpretation of these aerial photographs will be conducted as part of the Phase I investigations and the results will be submitted with the Phase II addendum. These results may lead to additional sampling in this area as part of the Phase II investigation. The historical aerial photographs are included in Appendix D.

5.2.7 Area AUS-0061 Other Potential Releases

As stated in Section 5.1.3.19, several trenches were identified in the AUS-0061 1943 aerial photograph (FWS, 2003). Soil borings are proposed to be installed at the location of these former trenches and are shown on Figure 5-37. Two monitoring wells will be installed adjacent to the former trenches and a monitoring well will be installed downgradient of this area based on the analytical results from these soil borings. Three existing monitoring wells (17-MWC-01, 17-MWC-02, and 17-MWC-03) located in this area (Figure 5-37) will be resampled.

5.2.8 Demolished Remains of Former Industrial Buildings

The AOC/SOW notes that demolished remains of many former industrial buildings are buried at various AUS OU sites, particularly in Areas 11 and 12. The overall strategy of investigating the remains of these buildings is to collect subsurface soil samples and install monitoring wells adjacent to these building in the areas most likely to be impacted from releases. The proposed soil samples are described in Tables 5-126 through 5-157 and the proposed groundwater samples are described in Table 5-257. The proposed locations of these soil sample and monitoring wells are shown on Figures 5-1 through 5-39.

5.3 SOIL DATA COLLECTION ACTIVITIES

The following are described in this section:

- Ecological risk assessment soil constituent screening for additional investigation,
- Human health risk assessment soil constituent screening for additional investigation,
- Potential soil to groundwater screening for additional investigation,
- Ecological and human health risk assessment soil sample locations, depths, and analytical suites,
- Method of addressing the ecological and human health exceedances in soil samples, and
- USEPA 1998 soil sample verification.

5.3.1 Ecological Risk Assessment Soil Constituent Screening for Additional Investigation

The PA/SI soil sample data were screened using the ecological risk screening approach discussed in Section 4.4.2.1. This screening approach was used to determine which PA/SI detected soil constituents potentially require additional data collection. Tables 5-158 through 5-188 summarize the information used to identify constituents in each area needing additional data. These tables list the following for each constituent:

- The constituents detected in PA/SI soil samples for each area,
- The maximum concentration,
- The soil background value,
- The ecological screening value (ESV),
- The 95% UCL of the constituent over the entire area, and

- Supporting information.

The soil constituents that are highlighted in Tables 5-158 to 5-188 were identified as potentially requiring additional investigation. The highlighted constituents were also identified as COPECs by FWS in the EPF (FWS, 2005).

A discussion of proposed sampling as a result of exceedances of the soil screening criteria is discussed in Section 5.3.4 and 5.3.5.

5.3.2 Human Health Risk Assessment Soil Constituent Screening for Additional Investigation

The PA/SI soil sample data were screened using the human health risk screening approach discussed in Section 4.2.3.1 to determine which constituents detected in soil during the PA/SI potentially require additional data collection. Tables 5-189 through 5-219 summarize the information required to determine which PA/SI detected soil constituents potentially require additional data collection for each area. These tables list the following:

- The constituents detected in PA/SI soil samples for all depths,
- The maximum soil concentration detected for the constituent from all depths,
- The soil background value, and
- The human health screening criteria.

Soil background data in this work plan are based on soil samples collected from surficial soils. Since surface soil background values may be greater than subsurface soil background values, in some cases, it is appropriate to compare background concentrations derived from like depths. Because background data is currently unavailable for all depths, the soil background data based on surficial soil data will be used to compare to soil samples collected at all depths in this work plan.

A toxic equivalency calculation was conducted for the carcinogenic PAHs (cPAH) in addition to the evaluation of the maximum concentration of each cPAH constituent to determine the need for additional sampling. In the cases of samples that were reported to have no detections of PAH analytes and the reporting limits (RLs) were not elevated, a value of 0 was used in the cPAH calculations for the analytes that were not detected. In all other cases, a value of half the reporting limit was used for analytes that were not detected. The cPAH toxic equivalency calculations are presented in Appendix E.

The constituents that are highlighted in Tables 5-178 through 5-208 potentially require additional investigation. A discussion of proposed sampling as a result of exceedances of the screening criteria is provided in Section 5.3.4.

5.3.3 Potential Groundwater Impacts from Soil Constituents Screening for Additional Investigation

The PA/SI soil sample data were screened using the potential soil to groundwater impacts approach outlined in Section 4.2.3.2 to determine which constituents require additional data collection. Tables 5-220 through 5-250 summarize the information required to determine which soil constituents detected during the PA/SI potentially require additional data collection for each area. These tables list the following for each area:

- The constituents detected in the PA/SI soil samples from all depths,
- The maximum soil concentration detected for the constituent from all depths,
- The USEPA Region 9 soil migration to groundwater (DAF=20) screening criteria (USEPA, 2002b), and
- The IEPA Class I aquifer classification.

The constituents that are highlighted in Tables 5-220 through 5-250 potentially require additional data collection to determine if constituents detected in soil are potentially impacting groundwater.

The approach for addressing exceedances of the STG criteria is described in Section 4.2.3.2.1. Table 5-257 lists the proposed monitoring wells for addressing STG exceedance in soil samples. The rational for the method of addressing the STG exceedances is included in Section 5.3.5.

5.3.4 Ecological and Human Health Risk Assessment Soil Sample Locations, Depths, and Analytical Suites

The ecological and human health risk assessment soil data collection activities are based on the approach discussed in Sections 4.2.2.1 and 4.2.3.1, respectively. Figures 5-1 through 5-39 present the proposed RI/FS soil sample locations for all 32 AUS areas. Tables 5-126 through 5-157 list the proposed soil sample locations, depths, and soil sample analytical suites.

5.3.5 Summary of Method to Address Soil Sample Exceedances of Screening Criteria

Table 5-251 summarizes the method for addressing each exceedance. This table provides:

- The sample location and depth,
- The analytes that have exceedances,
- The chemical results,
- The screening criteria that has been exceeded, and

- The method for addressing the exceedance.

Some soil samples collected at a depth greater than 2 feet with constituents reported at concentrations exceeding the ecological screening values will be addressed in the Phase II investigation are listed in Table 5-268.

5.3.6 USEPA 1998 Soil Sampling Verification

As stated in Section 5.1.1, the USEPA collected soil samples in 1998 at several of the AUS OU areas. The locations of these soil samples are shown on Figures 5-1 through 5-39. The analytical results from these samples are included in Appendix C. The results will be verified for the 1998 USEPA data in areas where exceedances have been reported since there is a significant variation in the analytical results between the USEPA data and the PA/SI data. Table 5-252 lists the proposed soil borings that will be used to verify the data associated with the selected 1998 USEPA samples. Tables 5-126 through 5-157 list the proposed soil sample locations, depths, and soil sample analytical suites.

5.4 PROPOSED ACTIVITIES TO ADDRESS SEWER LINE AND DRUM SAMPLE

Table 5-253 summarizes the method for addressing each sewer line and drum sample exceedance. This table provides:

- The sample location and depth,
- The analytes that have exceedances,
- The chemical results,
- The screening criteria that has been exceeded, and
- The method for addressing the exceedance.

The approach for addressing sewer line and drum samples that exceed the screening criteria is to collect samples at the location most likely impacted by a release from a drum or sewer line. The locations of these soil samples are shown on Figures 5-1 through 5-39. Tables 5-126 through 5-157 list the proposed soil sample locations, depths, and soil sample analytical suites.

5.5 SURFACE WATER/SEDIMENT SAMPLE DATA COLLECTION ACTIVITIES

The following are described in this section:

- Results of the surface water constituent screening for additional investigation,
- Results of sediment constituent screening for additional investigation, and
- Proposed surface water and sediment sampling activities.

5.5.1 Surface Water Constituent Screening for Additional Investigation

The PA/SI surface water sample data were screened using the surface water direct pathway screening criteria listed in the EPF (FWS, 2005), the Illinois' General Use Surface Water Quality Standards, and the soil background values listed in the PA/SI (FWS, 2003). The PA/SI surface water detection tables referenced in Section 5.1.2 highlight the surface water constituents that exceed the surface water direct pathway screening criteria and the soil background value. A description of the proposed surface water sampling activities is provided in Section 5.5.3.

5.5.2 Sediment Constituent Screening for Additional Investigation

The PA/SI sediment sample data were screened using the sediment direct pathway screening criteria listed in the EPF, human health soil screening criteria, and the soil background values listed in the PA/SI (FWS, 2003). The PA/SI sediment tables referenced in Section 5.1.2 highlight the sediment constituents detected in the PA/SI sediment samples that exceed the sediment direct pathway screening criteria and the soil background value.

Table 5-254 summarizes the method for addressing each sediment sample exceedance. This table provides:

- The sample location and depth,
- The analytes that have exceedances,
- The chemical results,
- The screening criteria that has been exceeded, and
- The method for addressing the exceedance.

A description of the proposed sediment sampling data collection activities is discussed in the next Section.

5.5.3 Proposed Surface Water and Sediment Sample Data Collection Activities

As stated in Section 4.2.2.2 and 4.2.2.3, sediment and surface water samples are proposed to be collected at the same locations to characterize the ecological risk pathways. The existing and proposed location of the surface water and sediment sample locations for each of the AUS OU areas are shown on Figures 5-1 through 5-39. Figure 5-40 shows the location of all proposed RI/FS surface water/sediment samples for all AUS OU areas.

Table 5-255 summarizes the method for addressing each surface water sample exceedance. This table provides:

- The sample location,

- The analytes that have exceedances,
- The chemical results,
- The screening criteria that has been exceeded, and
- The method for addressing the exceedance.

Table 5-256 lists the proposed surface water and sediment samples and the chemical analyses that will be conducted on these samples. Sediment samples will be collected from a depth of 0 to 0.5 ft below the sediment surface.

5.6 GROUNDWATER COLLECTION ACTIVITIES

A description of the proposed activities to address groundwater hydrogeology and characterization are described in the Phase I Groundwater Investigation Work Plan Supplement (Appendix B). This supplement refers to Tables 5-257 through 5-267 and several figures included in the work plan.

6.0 SITE CHARACTERIZATION TASKS AND RI/FS WORK PRODUCTS

The remedial investigation approach for the AUS OU RI/FS effort is presented in Sections 4.0 and 5.0. This approach, modified as necessary, will be executed in phases (See Section 1.0) until the requirements of the AOC and SOW have been satisfied.

Work products produced during the RI/FS will include the Preliminary Site Characterization Report and the RI Report. The site characterization will provide for a comprehensive understanding of the nature and extent of contamination. To achieve this goal the Preliminary Site Characterization Report and the RI Report will present all contaminant data obtained to date for each area (including PA/SI and other previous data).

Treatability testing may also be required to assist in the detailed analysis of alternatives and detailed design of the selected remedial technology. Per the SOW, GDOTS will conduct a literature survey to gather available information on performance, relative costs, applicability, removal efficiencies, operation and maintenance requirements, and implementability of candidate technologies. If remedial actions involving treatment have been identified by GDOTS or by FWS in consultation with the FFA agencies, GDOTS shall conduct treatability studies as needed to adequately identify and screen potential remedial measures, and later to adequately assess them in accordance with CERCLA and the NCP. Where it is determined by the FWS, in consultation with the FFA parties, that treatability testing is required, GDOTS will submit a statement of work outlining the steps and data necessary to evaluate and initiate the treatability testing program.

The deliverables that are required include a statement of work, work plan, a sampling and analysis plan, and a final treatability evaluation report. The agencies may also require a treatability testing health and safety plan, where appropriate.

- Treatability Testing Work Plan Addendum
    - Per the SOW, this document shall describe the AUS OU areas' background, remedial technologies to be tested, test objectives, experimental procedures, treatability conditions to be tested, measurements of performance, analytical methods, data management and analysis, health and safety, and residual waste management. The DQOs for treatability testing will be documented as well. If pilot-scale treatability testing is performed, the pilot-scale Work Plan will describe pilot plant installation and start-up, pilot plant operation and maintenance procedures, operating conditions to be tested, a sampling plan to determine pilot plant performance, and a detailed health and safety plan. If testing is to be performed off-site, permitting requirements will be addressed. This document is subject to review and approval by FWS in consultation with the FFA parties.

- Treatability Testing SAP Addendum

    - If the original QAPP or FSP is not adequate for defining the activities to be performed during the treatability testing, an addendum to the original SAP will be prepared. This document is subject to review and approval by FWS in consultation with the FFA parties.

- Treatability Testing Health and Safety Plan

    - If the H&SP is not adequate for defining the activities to be performed during the treatability testing, an addendum to the original H&SP will be prepared.

- Treatability Testing Evaluation Report

    - Following completion of treatability testing, all data will be analyzed and interpreted in a technical report. The report will evaluate each technology's effectiveness, implementability, cost and actual results as compared with predicted results. The report will also evaluate full-scale application of the technology, including a sensitivity analysis identifying the key parameters affecting full-scale operation.

7.0 HUMAN HEALTH RISK ASSESSMENT

In accordance with Section IX, paragraph 49 of the AOC, FWS will perform the baseline human health risk assessment. Following completion by FWS, the baseline risk assessment will be incorporated into the RI report.

8.0 BASELINE ECOLOGICAL RISK ASSESSMENT

In accordance with Section IX, paragraph 49 of the AOC, FWS will perform the baseline ecological risk assessment. Following completion by FWS, the baseline risk assessment will be incorporated into the RI report.

9.0 FEASIBILITY STUDY TASKS

The pending FS will be conducted per the requirements of the AOC, SOW, and relevant guidance documents.

9.1 DEVELOPMENT AND SCREENING OF REMEDIAL ALTERNATIVES

The first step in the FS process is to develop and screen remedial alternatives based on the risks identified in the human health and ecological risk assessments and ARARs. This process results in a range of options that will be evaluated. This range of alternatives should include, as appropriate, options in which treatment is used to reduce the toxicity, mobility, or volume of impacted material, but varying in the types of treatment, the amount treated, and the manner in which long-term residuals or untreated impacted material are managed; options involving the containment with little or no treatment; options involving both treatment and containment; and a no-action alternative.

Concurrent with the RI site characterization task a range of appropriate waste management options will begin to be developed and evaluated that will ensure protection of human health and the environment.

During the development and screening of remedial alternatives, the following tasks will be performed:

- **Revise Remedial Action Objectives and PRG Based on Risk and ARARs** – Based on the baseline risk assessment and ARARs, AUS OU area specific RAO, especially the PRGs, will be revised if necessary. The revised PRGs will be documented in a technical memorandum and submitted to the agencies for review and comment. These modified PRGs will specify the contaminants and media of interest, exposure pathways and receptors, and an acceptable contaminant level or range of levels (at particular locations for each exposure route).

- **Develop General Response Action** – General Response Actions (GRA) will be developed for each medium of interest defining containment, treatment, excavation, pumping, or other actions, singly or in combination, to satisfy the remedial action objectives.

- **Identify Area or Volumes of Media** – Identify areas or volumes of media to which GRAs may apply, taking into account requirements for protectiveness as identified in the remedial action objectives. The chemical and physical characterization of the sites will also be taken into account.

- **Identify, Screen, and Document Remedial Technologies** – Technologies applicable to each GRA will be identified and evaluated to eliminate those that cannot be implemented at the AUS areas. Technology process options will also be identified and evaluated during this screening phase. Process options will be evaluated on the basis of

effectiveness, implementability, and cost factors to select and retain one or more, if necessary, representative processes for each technology type. The technology types and process options will be summarized for inclusion in a technical memorandum. The reasons for eliminating alternatives will be specified.

- **Assemble and Document Alternatives** – The result of the technology screening will be the assembly of selected representative technologies into alternatives for each affected medium or area within the AUS OU. Together, all of the alternatives will represent a review of treatment and containment combinations that will address the individual sites or the operable unit as a whole. A summary of the assembled alternatives and their related action-specific ARARS will be prepared for inclusion in a technical memorandum. The reasons for eliminating alternatives during the preliminary screening process will be specified.

- **Refine Alternatives** – The remedial alternatives will be refined to identify contaminant volume addressed by the proposed process and sizing of critical unit operations as necessary. Sufficient information will be collected for an adequate comparison of alternatives. PRGs for each chemical in each medium will also be modified as necessary to incorporate any new risk assessment information presented in the baseline risk assessment report. Additionally, action-specific ARARs will be updated as the remedial alternatives are refined.

- **Conduct and Document Screening Evaluation of Each Alternative** – A final screening process based on short and long term aspects of effectiveness, implementability, and relative cost may be performed. Generally, this screening process is only necessary when there are many feasible alternatives available for detailed analysis. If necessary, the screening of alternatives will be conducted to assure that only the alternatives with the most favorable composite evaluation of all factors are retained for further analysis. As appropriate, the screening will preserve the range of treatment and containment alternatives that was initially developed. The range of remaining alternatives will include options that use treatment technologies and permanent solutions to the maximum extent practicable. A technical memorandum summarizing the results and reasoning employed in screening, arraying alternatives that remain after screening, and identifying the action-specific ARARs for the alternatives that remain after screening will be prepared.

- **Alternatives Development and Screening Deliverables** – A technical memorandum summarizing the work performed in, and the results of, each task above, including an alternatives array summary will be prepared and submitted for agency review and comment. This deliverable will document the methods, rationale, and results of the alternatives screening process. Upon receipt of the draft FS report, FWS, in consultation with the FFA parties, will evaluate, as necessary, the estimates of the risk to the public health and the environment that are expected to remain after a particular remedial alternative has been completed. The final amended report and Administrative Record will provide the basis for remedy selection and will document the development and analysis of remedial alternatives.

9.2 DETAILED ANALYSIS OF REMEDIAL ALTERNATIVES

The detailed analysis will be conducted by NewFields on behalf of GDOTS to provide the agencies with the information needed to allow for the selection of a area remedy. The detailed analysis of alternatives will consist of an analysis of each option against a set of nine evaluation criteria and a comparative analysis of all options using the same evaluation criteria as a basis for comparison. Detailed analysis will consist of:

- **Application of National Contingency Plan Nine Criteria and Documentation of Analysis** – The nine NCP criteria by which remedies are to be evaluated are:

    1) Overall protection of human health and the environment,
    2) Compliance with ARARs,
    3) Long-term effectiveness and permanence,
    4) Reduction of toxicity, mobility, or volume,
    5) Short-term effectiveness,
    6) Implementability,
    7) Cost,
    8) State (or support agency) acceptance, and
    9) Community acceptance.

    According to the NCP, each alternative selected must ensure overall protection of human health and the environment and comply with regulatory requirements (unless specifically waived). These two threshold criteria must be met before the next five criteria (3-7), the balancing criteria, may be considered. The last two criteria (8-9), are the modifying criteria. For each alternative the following will be provided: (1) a description of the alternative that outlines the waste management strategy involved and identifies the key ARARs associated which each alternative, and (2) a discussion of the individual criterion assessment.

- **Comparison of Alternatives and Documentation of Comparison of Alternatives** – On behalf of GDOTS, NewFields will perform a comparative analysis between the remedial alternatives. That is, each alternative will be compared against the others using the evaluation criteria as a basis of comparison. Identification and selection of the preferred alternative are reserved by the Federal Agencies in consultation with IEPA. NewFields will prepare a technical memorandum summarizing the results of the comparative analysis.

- **Feasibility Study Report** – In addition to the technical memorandum, a draft FS report will be prepared and submitted for review and approval by FWS in consultation with the FFA parties. The final amended report will provide the basis for remedy selection and will document the development and analysis of remedial alternatives. RI/FS guidance will provide the basis for the report outline and required content. In accordance with the NCP §300.515 (e), the lead agency makes the final remedy selection decision.

10.0 FIELD SAMPLING PLAN

Volume 2 provides the SAP composed of the FSP and QAPP for the AUS OU RI/FS effort.

11.0 DATA MANAGEMENT

The quality and validity of field and laboratory data generated during the RI/FS will be verified as discussed in Section 4.3 of the SOW.

11.1 DOCUMENT FIELD ACTIVITIES

Information obtained during site characterization will be consistently documented and recorded in field logs and laboratory reports and in accordance with the field documentation procedures specified in the SAP. Field logs must be used to document observations, measurements, and significant events that have occurred during field activities. Laboratory reports will document sample and analytical custody, analytical parameters, analytical results, adherence to prescribed protocols, nonconformity events, corrective measures, and/or data deficiencies. Field documentation requirements, including those for surveying, are included in the SAP.

11.2 MAINTAIN SAMPLE MANAGEMENT AND TRACKING

Field reports, sample shipment records, analytical results, and Quality Assurance/Quality Control (QA/QC) reports will be maintained to ensure that only valid analytical data are reported and utilized in the evaluation of remedial alternatives. Analytical results developed under the Work Plan will not be included in any site characterization report unless accompanied by or cross-referenced to a corresponding QA/QC report. In addition, a data security system to safeguard chain-of-custody forms and other project records to prevent loss, damage, or alternation of project document [as described in the Quality Management Plan (QMP) (NewFields, 2003b)] will be established.

11.3 RECORD RETENTION

In accordance with the provisions of Section XVII, paragraph 68 of the AOC, all records and documents related in any way to the AUS OU will be preserved during the implementation of the RI/FS and for a minimum of 10 years after commencement of construction of any remedial action that may be required. After this 10 year period, the Federal Agencies and IEPA will be notified at least 90 days prior to the scheduled destruction of any documents. In the event the Federal Agencies and/or IEPA request that documents be saved, the documents, or copies of the documents, will provided at no cost to the requesting agency.

12.0 HEALTH AND SAFETY PLAN

Volume 3 provides the H&SP for the AUS OU RI/FS effort.

13.0 COMMUNITY RELATIONS PLAN

In accordance with the AOC, development and implementation of a CRP or other community relations activities are the responsibility of the FWS. GDOTS may assist in providing information regarding the history of sites in the AUS OU, participating in public meetings, or by preparing fact sheets for distribution to the general public, if required. GDOTS community relations responsibilities will be specified in the community relations plan.

14.0 PROJECT MANAGEMENT PLAN

The following section is based upon information presented in the QMP (NewFields, 2003b). NewFields is implementing the technical scope of work required by the AOC/SOW for the AUS OU RI/FS, on behalf of GDOTS. This section summarizes the management approach for that work.

14.1 OVERALL MANAGEMENT APPROACH

A matrix organization of team members from the primary subcontractors listed in Section 1.0, organized by technical specialty, comprise the project team for the AUS OU RI/FS effort. NewFields serves as the project manager/strategic planner for the team, with primary responsibility for planning, executing, and reporting all efforts.

NewFields will employ traditional project management principles throughout project execution. The Project Management Body of Knowledge (PMBOK®) (PMI, 1996) defines five project management processes which will be at the core of the AUS OU RI/FS. These include:

- Initiating Processes – recognizing that a project should begin and committing to do so,
- Planning Processes – devising and maintaining a workable plan to accomplish the objective that the project was undertaken to address (detailed in the AOC/SOW),
- Executing Processes – coordinating people and other resources to carry out the plan,
- Controlling Processes – ensuring the project objectives are met by monitoring and measuring progress and taking corrective action when necessary, and
- Closing Processes – formalizing acceptance of the project and bringing it to an orderly end.

The primary Initiating Processes have been completed with the signing of the AOC. These processes may be employed again if a significant new work effort is recognized.

Planning Processes are documented in the RI/FS Work Plan and associated documents. These processes include:

- Scope Planning – Planning of the overall scope of work required by the AOC/SOW, detailed in the RI/FS Work Plans,
- Scope Definition – Subdividing major project deliverables into manageable units, detailed in the RI/FS Work Plans and associated documents,
- Activity Definition – Identifying activities required for the production of deliverables, detailed in RI/FS Work Plans and associated documents,

- Activity Sequencing – Identifying and documenting interactivity dependencies, presented in the project schedule,

- Activity Duration Estimating – Estimate of timing per task, presented in the project schedule,

- Schedule Development – Analysis of sequence, duration, and resources, presented in the project schedule,

- Resource Planning – Identification and estimation of resources required,

- Cost Estimating – Identification of cost per activity,

- Cost Budgeting – Allocation of identified cost, and

- Project Plan Development – Consistent, coherent approach to all planning elements, detailed in this chapter.

Executing and Controlling Processes will be employed during the execution and reporting of the scope of work defined in the Work Plans. These processes include:

- Project Plan Execution – Execution of the plan documented in the RI/FS Work Plan. This will be completed primarily by NewFields, ENTRIX, Severn Trent Laboratory (STL), and CRA.

- Scope Verification – Formalizing acceptance of project scope. This will be completed with approval of RI/FS Work Plans and subsequent deliverables.

- Quality Assurance – Evaluating the project performance as detailed in the QAPP. This will be completed through audits by the NewFields Quality Manager and third-party data validation.

- Team Development – Input to the development of sub teams (working groups) to facilitate quality execution and reporting of scope.

- Information Distribution – Issuance of information. This will be conducted on a monthly basis by NewFields and completed with final issuance of RI and FS Reports.

- Solicitation – Obtaining bids, quotes, etc. for needed services or materials throughout project execution. This may be accomplished by any of the primary subcontractors in compliance with the Federal Acquisition Regulations (FAR).

- Source Selection – Choosing among vendors. This may be accomplished by any of the primary subcontractors in compliance with the FAR.

- Contract Administration – Managing relations with vendors. This may be accomplished by any of the primary subcontractors in compliance with the FAR.

- Overall Change Control – Coordinated by NewFields and documents changes across the entire project.

- Scope Change Control – Coordinated by NewFields and documents changes to project scope.

- Schedule Control - Coordinated by NewFields and documents changes to project schedule.

- Cost Control - Coordinated by NewFields and documents changes to project cost.

- Quality Control – Monitoring results to determine if they comply with standards and identifying ways to eliminate unsatisfactory performance; also includes development of corrective action. This will be completed through audits by the NewFields Quality Manager and third-party data validation.

- Performance Reporting – Collecting and issuing performance information, such as monthly reports, progress measurements, audit results, etc. This will be the responsibility of NewFields.

- Project Risk Response Control – Responding to risks associated with the execution of the project (not to be confused with human health or ecological risk). This will be the responsibility of NewFields.

Closing Processes (Administrative Closure and Contract Close-out) may be initiated consistent with the AOC requirements.

14.2 PROJECT TECHNICAL APPROACH

A detailed discussion of the technical approach for the RI/FS effort was presented in Chapters 4.0 and 5.0.

14.3 RI/FS REPORTING AND PROJECT SCHEDULE

Figure 14-1 provides the anticipated schedule for the execution of all efforts identified in this document. Primary deliverables required throughout the RI/FS process are noted on the schedule.

When GDOTS identifies a need for an extension to the schedule for a particular deadline not related to a force majeure event, GDOTS shall submit an extension request to FWS. Any such request for extension must specify the number of days sought and must also specify subsequent items/dates that are dependent upon or affected by the extension requested and the number of days those items/dates would be extended. FWS may approve, approve as modified, or reject any extension request.

When any approved extension to the schedule as shown is made, the schedule will be revised by GDOTS to include this extension. That is, all subsequent dates that are dependent upon the item for which the extension was granted will be adjusted by the number of days of the extension. However, in the event the extension affects the scheduling and performance of field activities, subsequent dates in the schedule may require adjustment beyond the number of days of the extension to accommodate the potential impact on sequential field work activities. In this case, "approved extensions" refer to extensions requested by, then granted to, GDOTS.

Note that the schedule does not include all the multiple sampling rounds for groundwater monitoring wells included in this work plan. Any groundwater sampling done after the dates shown for sampling in the schedule (or adjusted dates if extensions occur) will be included in a subsequent phase of the RI work.

In addition, monthly reports will be provided per the AOC on the 10th day of each month. These reports are not indicated on the project schedule but will include:

- Description of the actions which have been taken to comply with the AOC during that month,

- All results of sampling, tests, and all other data received,

- Description of work planned for the next two months with schedules relating such work to the overall project schedule for the RI/FS, and

- Description of all problems encountered and any anticipated problems, any actual or anticipated delays, and solutions developed and implemented to address any actual or anticipated problems or delays.

14.4 PERSONNEL/ORGANIZATIONAL STRUCTURE

NewFields serves as Owner's Agent/Program Manager in the negotiation of the AOC and management of the RI/FS execution. GDOTS also retained ENTRIX to provide ecological risk assessment support work for the RI/FS, CRA to conduct field services (drilling, data collection, UXO clearance, and surveying) and STL for chemical analysis. Figure 14-2 provides the organizational structure of the Crab Orchard team. As noted, the quality manager maintains open lines of communication with all levels of management throughout the process and has the authority to stop work until outstanding quality issues are addressed. Figure 14-3 provides the organizational structure for the overall program.

15.0 REFERENCES

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Table 4-1
Preliminary Summary of Data Needed to Complete the RI/FS for the AUS OU

Information Needed	Potential Source[1]
Concentrations of constituents in various environmental media	Existing (PA/SI) data
	New environmental measurements (soil, sediment, surface water and groundwater sampling and analysis)
Concentrations of TAL constituents in background media	Existing (2001) soil, surface water, and sediment background data
	New background groundwater measurements, if necessary
Sediment particle size distribution and organic carbon content	Existing (PA/SI) data
	New environmental measurements (sediment sampling and analysis)
Water quality (temp. DO, conductivity, hardness, alkalinity, total suspended solids)	Existing (PA/SI) data
	New environmental measurements (surface water and groundwater sampling and analysis)
Groundwater, hydrogeologic and characterization data	Existing site data
	New environmental measurements (water level measurements in monitoring wells and piezometers)
Subsurface structures (piping, footings, utilities, buildings) and Potential source areas	Existing site drawings and GIS
	New environmental measurements
Topographic mapping	Existing aerial photography and additional surveying
Survey data for sample locations	Surveying
UXO identification and characterization	Historical documentation and field surveys
Delineation of jurisdictional wetlands	Existing soils maps
	Existing wetlands maps
	New environmental measurements (on-site delineation)
ARARs	Potential ARAR identification based on requirements of AOC SOW §2.5.3.3 (federal, state and local), including Illinois groundwater quality and surface water quality standards as applicable
Land Use and Institutional Control	USFWS Planning Documents
	Current Use
	Zoning
	Common Uses of Refuge Properties Nation-wide

[1] Additional data needs may be identified as work progresses.

Table 4-2: Ecological and Human Health Soil Sceening Values

Analyte	Units	ESV		USEPA Region IX Industrial Soil PRGs[1]		HH Standard/ Adjusted PRG	TACO Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties2[,3]		TACO Tier 1 Soil Remediation Objectives for Construction Workers2[,3]		Migration to Groundwater		
		Ingestion[2]	Direct	Value	Basis		Ingestion	Inhalation	Ingestion	Inhalation	EPA SSL (DAF=20)[1]	IEPA Class I (pH 6.25-6.64)[2,3]	IEPA Class II (pH 6.25-6.64)[2,3]
1,1,1-TRICHLOROETHANE	UG/KG		3.0E+04	1.2E+06	sat	1.2E+06		1.2E+06		1.2E+06	2.0E+03	2.0E+03	9.6E+03
1,1,2,2-TETRACHLOROETHANE	UG/KG		1.3E+02	9.3E+02	ca	9.3E+02	1.2E+08	2.0E+06	1.2E+07	2.0E+06	3.0E+00	3.3E+03	3.3E+03
1,1,2-TRICHLOROETHANE	UG/KG		2.9E+04	1.6E+03	ca	1.6E+03	8.2E+06	1.8E+06	8.2E+06	1.8E+06	2.0E+01	2.0E+01	3.0E+02
1,1-DICHLOROETHANE	UG/KG		2.0E+04	1.7E+06	nc	1.7E+05	2.0E+08	1.7E+06	2.0E+08	1.3E+05	2.3E+04	2.3E+04	1.1E+05
1,1-DICHLOROETHENE	UG/KG		8.3E+03	4.1E+05	nc	4.1E+04	1.8E+07	1.5E+06	1.8E+06	3.0E+05	6.0E+01	6.0E+01	3.0E+02
1,2,4-TRICHLOROBENZENE	UG/KG		2.0E+04	2.2E+05	nc	2.2E+04	2.0E+07	3.2E+06	2.0E+06	3.0E+05	5.0E+03	5.0E+03	5.3E+04
1,2-DICHLOROBENZENE	UG/KG		3.0E+03	6.0E+05	sat	4.1E+05	1.8E+08	5.6E+05	1.8E+07	3.1E+05	1.7E+04	1.7E+04	4.3E+04
1,2-DICHLOROETHANE	UG/KG		2.1E+04	6.0E+02	ca	6.0E+02	6.3E+04	7.0E+02	1.4E+06	9.9E+02	2.0E+01	2.0E+01	1.0E+02
1,2-DICHLOROPROPANE	UG/KG		7.0E+05	7.4E+02	ca	7.4E+02	8.4E+04	2.3E+04	1.8E+06	5.0E+02	3.0E+01	3.0E+01	1.5E+02
1,3,5-TRINITROBENZENE	UG/KG		3.8E+02	1.8E+07	nc	1.8E+06	6.1E+07		6.1E+06			9.7E+02	9.7E+02
1,3-DICHLOROBENZENE	UG/KG		3.8E+04	6.0E+05	sat	2.1E+05	1.8E+06	5.7E+05	1.8E+05	5.7E+05		2.0E+02	1.0E+03
1,3-DINITROBENZENE	UG/KG		6.5E+02	6.2E+04	nc	6.2E+03	2.0E+05		2.0E+05			3.6E+00	3.6E+00
1,4-DICHLOROBENZENE	UG/KG		2.0E+04	7.9E+03	ca	7.9E+03		1.7E+07		3.4E+05	2.0E+03	2.0E+03	1.1E+04
1-METHYLNAPHTHALENE	UG/KG	4.6E+04	2.5E+05	1.9E+05	nc	1.9E+04	8.2E+06	9.9E+05	8.2E+05	9.9E+05	8.4E+04	7.2E+03	3.6E+04
2,4,5-TRICHLOROPHENOL	UG/KG		4.0E+03	6.2E+07	nc	6.2E+06	2.0E+08		2.0E+08		2.7E+05	3.2E+05	1.6E+06
2,4,6-TRICHLOROPHENOL	UG/KG		1.0E+04	6.2E+04	nc	6.2E+03	5.2E+05	3.9E+05	1.1E+07	5.4E+05	2.0E+02	2.0E+02	1.0E+03
2,4,6-TRINITROTOLUENE	UG/KG		3.0E+04	3.1E+05	nc	3.1E+04	1.0E+06		1.0E+05			7.7E+01	7.7E+01
2,4-DICHLOROPHENOL	UG/KG		8.8E+04	1.8E+06	nc	1.8E+05	6.1E+06		6.1E+05		1.0E+03	1.0E+03	1.0E+03
2,4-DIMETHYLPHENOL	UG/KG		1.0E+01	1.2E+07	nc	1.2E+06	4.1E+07		4.1E+07		9.0E+03	9.0E+03	9.0E+03
2,4-DINITROPHENOL	UG/KG		2.0E+04	1.2E+06	nc	1.2E+05	4.1E+06		4.1E+05		3.0E+02	2.0E+02	2.0E+02
2,4-DINITROTOLUENE	UG/KG		1.3E+03	2.5E+03	ca	2.5E+03	8.4E+03		1.8E+05		8.0E-01	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG		3.3E+01	2.5E+03	ca	2.5E+03	8.4E+03		1.8E+05		7.0E-01	7.0E-01	7.0E-01
2-AMINO-4,6-DINITROTOLUENE	UG/KG		8.0E+04	1.2E+05	nc	1.2E+04	4.1E+05		4.1E+04			3.1E+01	3.1E+01
2-CHLORONAPHTHALENE	UG/KG		1.2E+01	2.3E+07	nc	2.3E+06							
2-CHLOROPHENOL	UG/KG		2.4E+02	2.4E+05	nc	2.4E+04	1.0E+07	5.3E+07	1.0E+07	5.3E+07	4.0E+03	3.9E+03	2.0E+04
2-HEXANONE	UG/KG		1.3E+04	4.7E+07	nc	4.7E+06							
2-METHYLNAPHTHALENE	UG/KG	4.6E+04	2.5E+05	1.9E+05	nc	1.9E+04	8.2E+06		8.2E+05		8.4E+04	7.7E+03	3.9E+04
2-METHYLPHENOL (O-CRESOL)	UG/KG		4.0E+04	3.1E+07	nc	3.1E+06	1.0E+08		1.0E+08		1.5E+04	1.5E+04	1.5E+04
2-NITROANILINE	UG/KG		7.4E+04	1.8E+06	nc	1.8E+05		1.2E+05		7.5E+03			
2-NITROPHENOL	UG/KG		1.6E+03	1.0E+05	nc	1.0E+04							
2-NITROTOLUENE	UG/KG			2.2E+03	ca	2.2E+03	2.0E+07	7.8E+05	2.0E+07	7.8E+05		7.9E+02	7.9E+02
2,3,7,8-TCDD	NG/KG	8.1E-01	5.0E+06	1.6E+01	ca	1.6E+01							
3,3'-DICHLOROBENZIDINE	UG/KG		6.5E+02	3.8E+03	ca	3.8E+03	1.3E+04		2.8E+05		7.0E+00	7.0E+00	3.3E+01
3-NITROANILINE	UG/KG		3.2E+03	1.8E+05	nc	1.8E+04							
3-NITROTOLUENE	UG/KG			1.0E+06	sat	3.7E+05	2.0E+07	8.2E+05	2.0E+07	8.2E+05		1.0E+03	1.0E+03
4,4'-DDD	UG/KG		7.6E+02	1.0E+04	ca	1.0E+04	2.4E+04		5.2E+05		1.6E+04	1.6E+04	8.0E+04
4,4'-DDE	UG/KG		6.0E+02	7.0E+03	ca	7.0E+03	1.7E+04		3.7E+05		5.4E+04	5.4E+04	2.7E+05
4,4'-DDT	UG/KG		3.5E+00	7.0E+03	ca	7.0E+03	1.7E+04	1.5E+06	1.0E+05	2.1E+06	3.2E+04	3.2E+04	1.6E+05
4,4'-METHYLENE-BIS(2-CHLOROANILINE)	UG/KG			1.3E+04	ca	1.3E+04							
4,6-DINITRO-2-METHYLPHENOL	UG/KG			6.2E+04	nc	6.2E+03							

[1]Based on 10-1-04 guidance

2Based on February 2003 guidance

[3]Remedial objectives from the Chemicals Not listed in TACO tables (10-1-04), when available.

[4] A complete list of ingestion ESVs have not yet been developed.

Table 4-2: Ecological and Human Health Soil Sceening Values

Analyte	Units	ESV		USEPA Region IX Industrial Soil PRGs[1]		HH Standard/ Adjusted PRG	TACO Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties2[,3]		TACO Tier 1 Soil Remediation Objectives for Construction Workers2[,3]		Migration to Groundwater		
		Ingestion[2]	Direct	Value	Basis		Ingestion	Inhalation	Ingestion	Inhalation	EPA SSL (DAF=20)[1]	IEPA Class I (pH 6.25-6.64)[2,3]	IEPA Class II (pH 6.25-6.64)[2,3]
4-AMINO-2,6-DINITROTOLUENE	UG/KG			1.2E+05	nc	1.2E+04	4.1E+05		4.1E+05			3.1E+01	3.1E+01
4-BROMOPHENYL PHENYL ETHER	UG/KG												
4-CHLORO-3-METHYLPHENOL	UG/KG		8.0E+03										
4-CHLOROANILINE	UG/KG		1.0E+03	2.5E+06	nc	2.5E+05	8.2E+06		8.2E+05		7.0E+02	7.0E+02	7.0E+02
4-CHLOROPHENYL PHENYL ETHER	UG/KG												
4-METHYLPHENOL (P-CRESOL)	UG/KG		1.6E+05	3.1E+06	nc	3.1E+05	1.0E+07		1.0E+06			2.4E+02	2.4E+02
4-NITROANILINE	UG/KG		2.2E+04	8.2E+04	ca	8.2E+04							
4-NITROPHENOL	UG/KG		7.0E+03	1.0E+05	nc	1.0E+04							
4-NITROTOLUENE	UG/KG			3.0E+04	ca	3.0E+04	2.0E+07		2.0E+07			9.2E+02	9.2E+02
ACENAPHTHENE	UG/KG	2.2E+05	8.3E+03	2.9E+07	nc	2.9E+06	1.2E+08		1.2E+08		5.7E+05	5.7E+05	2.9E+06
ACENAPHTHYLENE	UG/KG	4.6E+04	8.3E+03	1.9E+05	nc	1.9E+04	6.1E+07	2.7E+05	6.1E+07	1.8E+03	8.4E+04	2.4E+04	1.2E+05
ACETONE	UG/KG		2.5E+03	5.4E+07	nc	5.4E+06	2.0E+08	1.0E+08	2.0E+08	1.0E+08	1.6E+04	1.6E+04	1.6E+04
ALDRIN	UG/KG		3.3E+00	1.0E+02	ca	1.0E+02	3.0E+02	6.6E+03	6.1E+03	9.3E+03	5.0E+02	5.0E+02	2.5E+03
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	UG/KG		9.9E+01	3.6E+02	ca	3.6E+02	9.0E+02	1.5E+03	2.0E+04	2.1E+03	5.0E-01	5.0E-01	3.0E+00
ALPHA ENDOSULFAN	UG/KG		1.2E+02	3.7E+06	nc	3.7E+05	1.2E+07		1.2E+06		1.8E+04	1.8E+04	9.0E+04
ALPHA-CHLORDANE	UG/KG		2.2E+02	6.5E+03	ca	6.5E+03	1.6E+03	1.4E+05	1.0E+05	2.2E+04	1.0E+04	1.0E+04	4.8E+04
ALUMINUM	MG/KG		5.0E+01	1.0E+05	max	9.2E+04	1.0E+06		2.0E+05				
ANTHRACENE	UG/KG	1.3E+06	1.0E+04	1.0E+08	max	2.4E+07	6.1E+08		6.1E+08		1.2E+07	1.2E+07	5.9E+07
ANTIMONY	MG/KG		5.0E+00	4.1E+02	nc	4.1E+01	8.2E+02		8.2E+01		5.0E+00	5.0E+00	2.0E+01
ARSENIC	MG/KG		9.0E+00	1.6E+00	ca	1.6E+00	1.1E+01	1.2E+03	6.1E+01	2.5E+04	2.9E+01	2.9E+01	1.1E+02
BARIUM	MG/KG		5.0E+02	6.7E+04	nc	6.7E+03	1.4E+05	9.1E+05	1.4E+04	8.7E+05	1.6E+03	1.5E+03	1.5E+03
BENZENE	UG/KG		1.6E+04	1.4E+03	ca	1.4E+03	1.0E+05	1.6E+03	2.3E+06	2.2E+03	3.0E+01	3.0E+01	1.7E+02
BENZO(A)ANTHRACENE	UG/KG	1.8E+05	3.0E+03	2.1E+03	ca	2.1E+03	8.0E+03		1.7E+05		2.0E+03	2.0E+03	8.0E+03
BENZO(A)PYRENE	UG/KG	1.0E+05	3.3E+03	2.1E+02	ca	2.1E+02	8.0E+02		1.7E+04		8.0E+03	8.0E+03	8.2E+04
BENZO(B)FLUORANTHENE	UG/KG	1.0E+05	1.2E+03	2.1E+03	ca	2.1E+03	8.0E+03		1.7E+05		5.0E+03	5.0E+03	2.5E+04
BENZO(G,H,I)PERYLENE	UG/KG	1.0E+05	1.2E+05				6.1E+07		6.1E+07			3.2E+07	1.6E+08
BENZO(K)FLUORANTHENE	UG/KG	9.0E+04	1.5E+05	2.1E+04	ca	2.1E+04	7.8E+04		1.7E+06		4.9E+04	4.9E+04	2.5E+05
BENZYL BUTYL PHTHALATE	UG/KG	8.6E+05	2.4E+02	1.2E+08	max	1.2E+07	4.1E+08	9.3E+05	4.1E+08	9.3E+05	9.3E+05	9.3E+05	9.3E+05
BERYLLIUM	MG/KG		1.0E+01	1.9E+03	nc	1.9E+02	4.1E+03	2.1E+03	4.1E+02	4.4E+04	6.3E+01	2.2E+01	2.8E+03
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG		4.0E+00	1.3E+03	ca	1.3E+03					3.0E+00		
BETA ENDOSULFAN	UG/KG		1.2E+02	3.7E+06	nc	3.7E+05	1.2E+07		1.2E+06		1.8E+04	1.8E+04	9.0E+04
BIS(2-CHLOROETHOXY) METHANE	UG/KG		3.0E+02										
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	UG/KG		2.4E+04	5.8E+02	ca	5.8E+02	5.0E+03	4.7E+02	7.5E+04	6.6E+02	4.0E-01	4.0E-01	4.0E-01
BIS(2-CHLOROISOPROPYL) ETHER	UG/KG			7.4E+03	ca	7.4E+03							
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	4.4E+03	9.3E+02	1.2E+05	ca	1.2E+05	4.1E+05	3.1E+07	4.1E+06	3.1E+07		3.6E+06	3.1E+07
BORON	MG/KG		5.0E-01	1.0E+05	max	2.0E+04	1.8E+05	1.0E+06	1.8E+04	1.0E+06			
BROMODICHLOROMETHANE	UG/KG		5.4E+02	1.8E+03	ca	1.8E+03	9.2E+04	3.0E+06	2.0E+06	3.0E+06	6.0E+02	6.0E+02	6.0E+02
BROMOFORM	UG/KG		1.6E+04	2.2E+05	ca	2.2E+05	7.2E+05	1.0E+05	1.6E+07	1.4E+05	8.0E+02	8.0E+02	8.0E+02
BROMOMETHANE	UG/KG		2.4E+02	1.3E+04	nc	1.3E+03	2.9E+06	1.5E+04	1.0E+06	3.9E+03	2.0E+02	2.0E+02	1.2E+03
CADMIUM	MG/KG	2.7E-01	2.9E+01	4.5E+02	nc	4.5E+01	2.0E+03	2.8E+03	2.0E+02	5.9E+04	8.0E+00	5.2E+00	5.2E+01

[1]Based on 10-1-04 guidance

2Based on February 2003 guidance

[3]Remedial objectives from the Chemicals Not listed in TACO tables (10-1-04), when available.

[4] A complete list of ingestion ESVs have not yet been developed.

Table 4-2: Ecological and Human Health Soil Sceening Values

Analyte	Units	ESV		USEPA Region IX Industrial Soil PRGs[1]		HH Standard/ Adjusted PRG	TACO Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties2[,3]		TACO Tier 1 Soil Remediation Objectives for Construction Workers2[,3]		Migration to Groundwater		
		Ingestion[2]	Direct	Value	Basis		Ingestion	Inhalation	Ingestion	Inhalation	EPA SSL (DAF=20)[1]	IEPA Class I (pH 6.25-6.64)[2,3]	IEPA Class II (pH 6.25-6.64)[2,3]
CALCIUM	MG/KG												
CARBAZOLE	UG/KG	1.3E+04		8.6E+04	ca	8.6E+04	2.9E+05		6.2E+06		6.0E+02	6.0E+02	2.8E+03
CARBON DISULFIDE	UG/KG		9.4E+01	1.2E+06	sat	1.2E+05	2.0E+08	7.2E+05	2.0E+07	9.0E+03	3.2E+04	3.2E+04	1.6E+05
CARBON TETRACHLORIDE	UG/KG		1.0E+06	5.5E+02	ca	5.5E+02	4.4E+04	6.4E+02	4.1E+05	9.0E+02	7.0E+01	7.0E+01	3.3E+02
CHLORDANE	UG/KG		2.2E+02	6.5E+03	ca	6.5E+03	1.6E+03	1.4E+05	1.0E+05	2.2E+04	1.0E+04	1.0E+04	4.8E+04
CHLOROBENZENE	UG/KG		4.0E+04	5.3E+05	nc	5.3E+04	4.1E+07	2.1E+05	4.1E+06	1.3E+03	1.0E+03	1.0E+03	6.5E+03
CHLOROETHANE	UG/KG			6.5E+03	ca	6.5E+03	8.2E+08	1.5E+06	8.2E+07	9.4E+04		1.5E+04	7.0E+04
CHLOROFORM	UG/KG		1.2E+03	4.7E+02	ca	4.7E+02	9.4E+05	5.4E+02	2.0E+06	7.6E+02	6.0E+02	6.0E+02	2.9E+03
CHLOROMETHANE	UG/KG		1.0E+04	1.6E+05	nc	1.6E+04	8.2E+06	1.7E+05	8.2E+05	1.1E+03		1.4E+02	6.8E+02
CHROMIUM, TOTAL	MG/KG		5.0E+00	4.5E+02	ca	4.5E+02	6.1E+03	4.2E+02	4.1E+03	6.9E+02	3.8E+01	4.0E+01	
CHRYSENE	UG/KG	1.5E+05	4.7E+03	2.1E+05	ca	2.1E+05	7.8E+05		1.7E+07		1.6E+05	1.6E+05	8.0E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG		7.9E+02	1.5E+05	nc	1.5E+04	2.0E+07	1.2E+06	2.0E+07	1.2E+06	4.0E+02	4.0E+02	1.1E+03
CIS-1,3-DICHLOROPROPENE	UG/KG		4.0E+02	1.8E+03	ca	1.8E+03	5.7E+04	2.1E+03	1.2E+06	3.9E+02	4.0E+00	4.0E+00	2.0E+01
COBALT	MG/KG		2.0E+01	1.9E+03	ca	1.9E+03	1.2E+05		1.2E+04				
COPPER	MG/KG		3.1E+01	4.1E+04	nc	4.1E+03	8.2E+04		8.2E+03			5.9E+04	5.9E+04
CYANIDE	MG/KG		9.0E-01	1.2E+04	nc	1.2E+03	4.1E+04		4.1E+03			4.0E+01	1.2E+02
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	UG/KG		9.9E+03										
DIBENZ(A,H)ANTHRACENE	UG/KG	1.0E+05	1.8E+04	2.1E+02	ca	2.1E+02	8.0E+02		1.7E+04		2.0E+03	2.0E+03	7.6E+03
DIBENZOFURAN	UG/KG	2.5E+04		1.6E+06	nc	1.6E+05	8.2E+06		8.2E+05			1.5E+04	7.6E+04
DIBROMOCHLOROMETHANE	UG/KG		2.1E+03	2.6E+03	ca	2.6E+03	4.1E+07	1.3E+06	4.1E+07	1.3E+06	4.0E+02	4.0E+02	4.0E+02
DIELDRIN	UG/KG		2.4E+00	1.1E+02	ca	1.1E+02	4.0E+02	2.2E+03	7.8E+03	3.1E+03	4.0E+00	4.0E+00	2.0E+01
DIETHYL PHTHALATE	UG/KG		1.0E+05	1.0E+08	max	4.9E+07	1.0E+09	2.0E+06	1.0E+09	2.0E+06		4.7E+05	4.7E+05
DIMETHYL PHTHALATE	UG/KG		2.0E+05	1.0E+08	max	1.0E+08	1.0E+09	1.3E+06	1.0E+09	1.3E+06		3.8E+05	3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG	7.1E+02	2.0E+05	6.2E+07	nc	6.2E+06	2.0E+08	2.3E+06	2.0E+08	2.3E+06	2.3E+06	2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	UG/KG	6.1E+05	7.1E+05	2.5E+07	nc	2.5E+06	4.1E+07	1.0E+07	4.1E+06	1.0E+07	1.0E+07	1.0E+07	1.0E+07
ENDOSULFAN SULFATE	UG/KG		3.6E+01	3.7E+06	nc	3.7E+05	1.2E+07		1.2E+06		1.8E+04	1.8E+04	9.0E+04
ENDRIN	UG/KG		1.0E+01	1.8E+05	nc	1.8E+04	6.1E+05		6.1E+04		1.0E+03	1.0E+03	5.0E+03
ENDRIN ALDEHYDE	UG/KG		1.1E+01	1.8E+05	nc	1.8E+04	6.1E+05		6.1E+04		1.0E+03	1.0E+03	5.0E+03
ENDRIN KETONE	UG/KG			1.8E+05	nc	1.8E+04	6.1E+05		6.1E+04		1.0E+03	1.0E+03	5.0E+03
ETHYLBENZENE	UG/KG		5.0E+03	4.0E+05	sat	4.0E+05	2.0E+08	4.0E+05	2.0E+07	5.8E+04	1.3E+04	1.3E+04	1.9E+04
FLUORANTHENE	UG/KG	1.6E+05	1.0E+05	2.2E+07	nc	2.2E+06	8.2E+07		8.2E+07		4.3E+06	4.3E+06	2.1E+07
FLUORENE	UG/KG	1.6E+05	2.2E+04	2.6E+07	nc	2.6E+06	8.2E+07		8.2E+07		5.6E+05	5.6E+05	2.8E+06
GAMMA BHC (LINDANE)	UG/KG		5.0E+00	1.7E+03	ca	1.7E+03	4.0E+03		9.6E+04		9.0E+00	9.0E+00	4.7E+01
GAMMA-CHLORDANE	UG/KG		2.2E+02	6.5E+03	ca	6.5E+03	1.6E+03	1.4E+05	1.0E+05	2.2E+04	1.0E+04	1.0E+04	4.8E+04
HEPTACHLOR	UG/KG		6.0E+00	3.8E+02	ca	3.8E+02	1.0E+03	1.1E+04	2.8E+04	1.6E+04	2.3E+04	2.3E+04	1.1E+05
HEPTACHLOR EPOXIDE	UG/KG		1.5E+02	1.9E+02	ca	1.9E+02	6.0E+02	9.2E+03	2.7E+03	1.3E+04	7.0E+02	7.0E+02	3.3E+03
HEXACHLOROBENZENE	UG/KG		1.0E+06	1.1E+03	ca	1.1E+03	4.0E+03	1.8E+03	7.8E+04	2.6E+03	2.0E+03	2.0E+03	1.1E+04
HEXACHLOROBUTADIENE	UG/KG		4.0E+01	1.8E+05	nc	1.8E+04	4.1E+05	1.0E+06	4.1E+04	1.8E+05	2.0E+03	2.9E+03	1.5E+04
HEXACHLOROCYCLOPENTADIENE	UG/KG		1.0E+04	3.7E+06	nc	3.7E+05	1.4E+07	1.6E+04	1.4E+07	1.1E+03	4.0E+05	4.0E+05	2.2E+06
HEXACHLOROETHANE	UG/KG		6.0E+02	6.2E+05	nc	6.2E+04	2.0E+06		2.0E+06		5.0E+02	5.0E+02	2.6E+03

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Analyte	Units	ESV		USEPA Region IX Industrial Soil PRGs[1]		HH Standard/ Adjusted PRG	TACO Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties2[,3]		TACO Tier 1 Soil Remediation Objectives for Construction Workers2[,3]		Migration to Groundwater		
		Ingestion[2]	Direct	Value	Basis		Ingestion	Inhalation	Ingestion	Inhalation	EPA SSL (DAF=20)[1]	IEPA Class I (pH 6.25-6.64)[2,3]	IEPA Class II (pH 6.25-6.64)[2,3]
HMX	UG/KG		2.5E+04	3.1E+07	nc	3.1E+06	1.0E+08		1.0E+07			5.7E+03	5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	9.0E+04	1.1E+05	2.1E+03	ca	2.1E+03	8.0E+03		1.7E+05		1.4E+04	1.4E+04	6.9E+04
IRON	MG/KG		2.0E+02	1.0E+05	max	3.1E+04							
ISODRIN	UG/KG		3.3E+00										
ISOPHORONE	UG/KG		1.4E+05	5.1E+05	ca	5.1E+05	4.1E+08	4.6E+06	4.1E+08	4.6E+06	5.0E+02	8.0E+03	8.0E+03
LEAD	MG/KG		4.3E+02	8.0E+02	nc	8.0E+02	4.0E+02		4.0E+02				
MAGNESIUM	MG/KG												
MANGANESE	MG/KG		1.0E+02	1.9E+04	nc	1.9E+03	9.6E+04	9.1E+04	9.6E+03	8.7E+03			
MERCURY	MG/KG	1.5E-01	7.0E+00	3.1E+02	nc	3.1E+01	6.1E+02	5.4E+05	6.1E+01	5.2E+04		8.9E-01	4.4E+00
METHOXYCHLOR	UG/KG		2.0E+01	3.1E+06	nc	3.1E+05	1.0E+07		1.0E+06		1.6E+05	1.6E+05	7.8E+05
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG		9.0E+04	1.1E+08	nc	1.1E+07	1.0E+09	2.5E+07	1.2E+08	7.1E+05		1.7E+04	1.7E+04
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	UG/KG		4.4E+05	4.7E+07	nc	4.7E+06		3.1E+06		3.4E+05			
METHYLENE CHLORIDE	UG/KG		4.1E+03	2.1E+04	ca	2.1E+04	7.6E+05	2.4E+04	1.2E+07	3.4E+04	2.0E+01	2.0E+01	2.0E+02
NAPHTHALENE	UG/KG	4.6E+04	2.5E+05	1.9E+05	nc	1.9E+04	4.1E+07	2.7E+05	4.1E+06	1.8E+03	8.4E+04	1.2E+04	1.8E+04
N-HEXANE	UG/KG			1.1E+05	sat	4.0E+04							
NICKEL	MG/KG		3.0E+01	2.0E+04	nc	2.0E+03	4.1E+04	2.1E+04	4.1E+03	4.4E+05	1.3E+02	1.0E+02	2.0E+03
NITROBENZENE	UG/KG		4.0E+04	1.0E+05	nc	1.0E+04	1.0E+06	1.4E+05	1.0E+06	9.4E+03	1.0E+02	1.0E+02	1.0E+02
NITROGEN, AMMONIA (AS N)	MG/KG												
NITROGEN, NITRATE-NITRITE	MG/KG						1.0E+06		3.3E+05				
NITROGLYCERIN	UG/KG			1.2E+05	ca	1.2E+05	1.0E+06	3.3E+05	1.0E+05	3.3E+05		2.0E+01	2.0E+01
N-NITROSODI-N-PROPYLAMINE	UG/KG		5.4E+02	2.5E+02	ca	2.5E+02	8.0E+02		1.8E+04		5.0E-02	5.0E-02	5.0E-02
N-NITROSODIPHENYLAMINE	UG/KG		2.0E+04	3.5E+05	ca	3.5E+05	1.2E+06		2.5E+07		1.0E+03	1.0E+03	5.6E+03
PCB (total)	UG/KG		4.0E+04	7.4E+02	ca	7.4E+02	1.0E+03		1.0E+03				
PCB-1016 (AROCHLOR 1016)	UG/KG		4.0E+04	3.7E+04	nc	3.7E+03							
PCB-1221 (AROCHLOR 1221)	UG/KG	3.4E+01	4.0E+04	7.4E+02	ca	7.4E+02							
PCB-1232 (AROCHLOR 1232)	UG/KG	3.4E+01	4.0E+04	7.4E+02	ca	7.4E+02							
PCB-1242 (AROCHLOR 1242)	UG/KG	3.4E+01	4.0E+04	7.4E+02	ca	7.4E+02							
PCB-1248 (AROCHLOR 1248)	UG/KG	3.4E+01	4.0E+04	7.4E+02	ca	7.4E+02							
PCB-1254 (AROCHLOR 1254)	UG/KG	3.4E+01	4.0E+04	7.4E+02	ca	7.4E+02							
PCB-1260 (AROCHLOR 1260)	UG/KG	3.4E+01	4.0E+04	7.4E+02	ca	7.4E+02							
PENTACHLOROPHENOL	UG/KG	1.2E+02	6.0E+03	9.0E+03	ca	9.0E+03	2.4E+04		5.2E+05		3.0E+01	4.0E+01	1.8E+02
PENTAERYTHRITOL TETRANITRATE	UG/KG												
PERCHLORATE	UG/KG			1.0E+05	ca/nc	1.0E+04	1.8E+06		1.8E+05				
PHENANTHRENE	UG/KG	1.8E+04	7.5E+04	2.9E+07	nc	2.9E+06	6.1E+07		6.1E+07		4.2E+06	2.2E+05	1.1E+06
PHENOL	UG/KG		4.0E+04	1.0E+08	max	1.8E+07	1.0E+09		1.2E+08		1.0E+05	1.0E+05	1.0E+05
PHOSPHORUS, TOTAL (AS P)	MG/KG												
PICRIC ACID	UG/KG												
POTASSIUM	MG/KG												
PYRENE	UG/KG	9.5E+04	7.9E+04	2.9E+07	nc	2.9E+06	6.1E+07		6.1E+07		4.2E+06	4.2E+06	2.1E+07
RDX	UG/KG		1.0E+05	1.6E+04	ca	1.6E+04	6.1E+06		6.1E+05			3.6E+02	3.6E+02

[1]Based on 10-1-04 guidance

2Based on February 2003 guidance

[3]Remedial objectives from the Chemicals Not listed in TACO tables (10-1-04), when available.

[4] A complete list of ingestion ESVs have not yet been developed.

Table 4-2: Ecological and Human Health Soil Sceening Values

Analyte	Units	ESV		USEPA Region IX Industrial Soil PRGs[1]		HH Standard/ Adjusted PRG	TACO Tier 1 Soil Remediation Objectives for Industrial/Commercial Properties2,[3]		TACO Tier 1 Soil Remediation Objectives for Construction Workers2,[3]		Migration to Groundwater		
		Ingestion[2]	Direct	Value	Basis		Ingestion	Inhalation	Ingestion	Inhalation	EPA SSL (DAF=20)[1]	IEPA Class I (pH 6.25-6.64)[2,3]	IEPA Class II (pH 6.25-6.64)[2,3]
SELENIUM	MG/KG	1.1E+00	1.0E+00	5.1E+03	nc	5.1E+02	1.0E+04		1.0E+03		5.0E+00	6.3E+00	6.3E+00
SILVER	MG/KG		2.0E+00	5.1E+03	nc	5.1E+02	1.0E+04		1.0E+03		3.4E+01	4.4E+00	
SODIUM	MG/KG												
STYRENE	UG/KG		3.0E+05	1.7E+06	sat	1.7E+06	4.1E+08	1.5E+06	4.1E+07	4.3E+05	4.0E+03	4.0E+03	1.8E+04
TETRACHLOROETHYLENE(PCE)	UG/KG		1.3E+04	1.3E+03	ca	1.3E+03	1.1E+05	2.0E+04	2.4E+06	2.8E+04	6.0E+01	6.0E+01	3.0E+02
TETRYL	UG/KG			6.2E+06	nc	6.2E+05							
THALLIUM	MG/KG		1.0E+00	6.7E+01	nc	6.7E+00	1.6E+02		1.6E+02			2.6E+00	2.6E+01
TOLUENE	UG/KG		3.0E+03	5.2E+05	sat	2.2E+05	4.1E+08	6.5E+05	4.1E+08	4.2E+04	1.2E+04	1.2E+04	2.9E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG		7.9E+02	1.5E+05	nc	1.5E+04	2.0E+07	1.2E+06	2.0E+07	1.2E+06	4.0E+02	4.0E+02	1.1E+03
TOTAL ORGANIC CARBON	MG/KG												
TOXAPHENE	UG/KG		1.2E+02	1.6E+03	ca	1.6E+03	5.2E+03	1.7E+05	1.1E+05	2.4E+05	3.1E+04	3.1E+04	1.5E+05
TRANS-1,2-DICHLOROETHENE	UG/KG		7.9E+02	2.3E+05	nc	2.3E+04	4.1E+07	3.1E+06	4.1E+07	3.1E+06	7.0E+02	7.0E+02	3.4E+03
TRANS-1,3-DICHLOROPROPENE	UG/KG		4.0E+02	1.8E+03	ca	1.8E+03	5.7E+04	2.1E+03	1.2E+06	3.9E+02	4.0E+00	4.0E+00	2.0E+01
TRICHLOROETHYLENE (TCE)	UG/KG		9.0E+03	1.1E+02	ca	1.1E+02	5.2E+05	8.9E+03	1.2E+06	1.2E+04	6.0E+01	6.0E+01	3.0E+02
VANADIUM	MG/KG		4.6E+01	1.0E+03	nc	1.0E+02	1.4E+04		1.4E+03		6.0E+03	9.8E+02	
VINYL CHLORIDE	UG/KG		6.5E+02	7.5E+02	ca	7.5E+02	7.9E+03	1.1E+03	1.7E+05	1.1E+03	1.0E+01	1.0E+01	7.0E+01
XYLENES, TOTAL	UG/KG		6.0E+02	4.2E+05	sat	9.0E+04	1.0E+09	3.2E+05	4.1E+08	3.2E+05	2.1E+05	1.5E+05	1.5E+05
ZINC	MG/KG		1.2E+02	1.0E+05	max	3.1E+04	6.1E+05		6.1E+04		1.2E+04	5.1E+03	1.0E+04

Note: These screening values may require updating if the guidance are updated.

[1]Based on 10-1-04 guidance

2Based on February 2003 guidance

[3]Remedial objectives from the Chemicals Not listed in TACO tables (10-1-04), when available.

[4] A complete list of ingestion ESVs have not yet been developed.

Table 4-3: Soil Background Concentrations

Analyte	Distribution	RI Work Plan 95% UTL		Bootstrap 95% UCL[b]		Proposed FFA UTL (or surrogate)	
Aluminum	normal	9071				9071	
Antimony	nonparametric	0.42	a			0.42	a
Arsenic	log normal	13.25				13.25	
Barium	log normal	238				238	
Beryllium	nonparametric	0.81	a	0.49	b	0.49	b
Boron	nonparametric	7	a	4.63	b	4.63	b
Cadmium	nonparametric	0.35	a			0.35	
Calcium	normal	2851				2851	
Chromium	normal	13.77				13.77	
Cobalt	nonparametric	21.7	a	9.33	b	9.33	b
Copper	normal	9.4				9.4	
Cyanide	nonparametric	0.56	a			0.56	
Iron	normal	19568				19568	
Lead	normal	25.74				25.74	
Magnesium	log normal	1834				1834	
Manganese	log normal	5950	c	2371	d	2371	d
Mercury	nonparametric	0.34	a	0.28	b	0.28	b
Nickel	normal	12.59				12.59	
Potassium	normal	691				691	
Selenium	log normal	3.17				3.17	
Silver	nonparametric	1.3	a	0.69	b	0.69	b
Sodium	nonparametric	85	a			85	
Thallium	nonparametric	0.7	a	0.51	b	0.51	b
Vanadium	normal	31.1				31.1	
Zinc	log normal	41.2				41.2	

General Notes:

1. 1/2 reporting limit used for nondetects
2. All values are in mg/kg.
3. FFA suggested the use of bootstrap UCLs for some of nonparametric data recognizing that UCLs are really intended for comparison of mean concentrations, and not point-by-point comparisons; however, given the current time limitations FFA felt more conformable using the lower UCL values.
4. GD-OTS will rely on the appropriate UTL values in the RI Work Plan

Footnotes:

[a] Non-parametric UTL = Maximum value (one-half reporting limit if ND) when greater than 50% ND or neither normal nor log-normal.

[b] Bootstrap UCL is applied to some of the nonparametric data, although it is not intended for point-by-point comparison.

[c] Manganese UTLs were recalculated without two highest values in dataset

[d] Manganese UCLs were recalculated without two highest values in dataset

Table 4-4:
Sediment Screening Values

Analytes	Units	Ecological Sediment Screening Values	Background Sediment UTL
1,1,1-TRICHLOROETHANE	UG/KG	170	
1,1,2,2-TETRACHLOROETHANE	UG/KG	940	
1,1,2-TRICHLOROETHANE	UG/KG	1063.9	
1,1-DICHLOROETHANE	UG/KG	93.78	
1,1-DICHLOROETHENE	UG/KG	106.64	
1,2,4-TRICHLOROBENZENE	UG/KG	9200	
1,2-DICHLOROBENZENE	UG/KG	340	
1,2-DICHLOROETHANE	UG/KG	1227.56	
1,2-DICHLOROPROPANE	UG/KG	1380	
1,3,5-TRINITROBENZENE	UG/KG	41	
1,3-DICHLOROBENZENE	UG/KG	1700	
1,3-DINITROBENZENE	UG/KG	5	
1,4-DICHLOROBENZENE	UG/KG	350	
1-METHYLNAPHTHALENE	UG/KG		
2,4,5-TRICHLOROPHENOL	UG/KG	1449	
2,4,6-TRICHLOROPHENOL	UG/KG	18.38	
2,4,6-TRINITROTOLUENE	UG/KG	580	
2,4-DICHLOROPHENOL	UG/KG	365	
2,4-DIMETHYLPHENOL	UG/KG	45.05	
2,4-DINITROPHENOL	UG/KG	12.4	
2,4-DINITROTOLUENE	UG/KG	648.6	
2,6-DINITROTOLUENE	UG/KG	85.68	
2-AMINO-4,6-DINITROTOLUENE	UG/KG		
2-CHLORONAPHTHALENE	UG/KG	3503	
2-CHLOROPHENOL	UG/KG	221.44	
2-HEXANONE	UG/KG	132.66	
2-METHYLNAPHTHALENE	UG/KG	70	
2-METHYLPHENOL (O-CRESOL)	UG/KG	4.56	
2-NITROANILINE	UG/KG	48300	
2-NITROPHENOL	UG/KG	3183.91	
2-NITROTOLUENE	UG/KG	16800	
2,3,7,8-TCDD	UG/KG	0.0033	
3,3'-DICHLOROBENZIDINE	UG/KG	2000	
3-NITROANILINE	UG/KG	59500	
3-NITROTOLUENE	UG/KG	11900	
4,4'-DDD	UG/KG	4.88	
4,4'-DDE	UG/KG	3.16	
4,4'-DDT	UG/KG	4.16	
4,4'-METHYLENE-BIS(2-CHLOROANILINE)	UG/KG		
4,6-DINITRO-2-METHYLPHENOL	UG/KG	8.38	
4-AMINO-2,6-DINITROTOLUENE	UG/KG		
4-BROMOPHENYL PHENYL ETHER	UG/KG	1300	
4-CHLORO-3-METHYLPHENOL	UG/KG	0.15	
4-CHLOROANILINE	UG/KG	16400	
4-CHLOROPHENYL PHENYL ETHER	UG/KG	1374.39	
4-METHYLPHENOL (P-CRESOL)	UG/KG	4002.91	
4-NITROANILINE	UG/KG	36206.04	
4-NITROPHENOL	UG/KG	41.5	
4-NITROTOLUENE	UG/KG	18700	

Note: These screening values may be updated if the guidance are updated.
Sediment samples are also screened against the soil screening values included in Table 4-2.

Table 4-4:
Sediment Screening Values

Analytes	Units	Ecological Sediment Screening Values	Background Sediment UTL
ACENAPHTHENE	UG/KG	16	
ACENAPHTHYLENE	UG/KG	44	
ACETONE	UG/KG	84.14	
ALDRIN	UG/KG	2	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	UG/KG	6	
ALPHA ENDOSULFAN	UG/KG	2.9	
ALPHA-CHLORDANE	UG/KG		
ALUMINUM	MG/KG	26000	11241
ANTHRACENE	UG/KG	57	
ANTIMONY	MG/KG	3	1.9
ARSENIC	MG/KG	9.79	10.3
BARIUM	MG/KG		196
BENZENE	UG/KG	57	
BENZO(A)ANTHRACENE	UG/KG	108	
BENZO(A)PYRENE	UG/KG	150	
BENZO(B)FLUORANTHENE	UG/KG	27	
BENZO(G,H,I)PERYLENE	UG/KG	16	
BENZO(K)FLUORANTHENE	UG/KG	27	
BENZYL BUTYL PHTHALATE	UG/KG	11000	
BERYLLIUM	MG/KG		1.6
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	5	
BETA ENDOSULFAN	UG/KG	14	
BIS(2-CHLOROETHOXY) METHANE	UG/KG	1300	
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	UG/KG	2856	
BIS(2-CHLOROISOPROPYL) ETHER	UG/KG		
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	750	
BORON	MG/KG		
BROMODICHLOROMETHANE	UG/KG	17548.77	
BROMOFORM	UG/KG	1249.88	
BROMOMETHANE	UG/KG	10477.28	
CADMIUM	MG/KG	0.99	1.6
CALCIUM	MG/KG		1448
CARBAZOLE	UG/KG	3300	
CARBON DISULFIDE	UG/KG	2	
CARBON TETRACHLORIDE	UG/KG	77.84	
CHLORDANE	UG/KG	3.24	
CHLOROBENZENE	UG/KG	820	
CHLOROETHANE	UG/KG	14473.34	
CHLOROFORM	UG/KG	70.33	
CHLOROMETHANE	UG/KG	47762.98	
CHROMIUM, TOTAL	MG/KG	43.4	17.2
CHRYSENE	UG/KG	166	
CIS-1,2-DICHLOROETHYLENE	UG/KG	1177.2	
CIS-1,3-DICHLOROPROPENE	UG/KG	0.25	
COBALT	MG/KG	50	9.1
COPPER	MG/KG	31.6	16.8
CYANIDE	MG/KG	0.0001	
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	UG/KG	30.24	
DIBENZ(A,H)ANTHRACENE	UG/KG	33	

Note: These screening values may be updated if the guidance are updated.
Sediment samples are also screened against the soil screening values included in Table 4-2.

Table 4-4:
Sediment Screening Values

Analytes	Units	Ecological Sediment Screening Values	Background Sediment UTL
DIBENZOFURAN	UG/KG	2000	
DIBROMOCHLOROMETHANE	UG/KG	30799.65	
DIELDRIN	UG/KG	1.9	
DIETHYL PHTHALATE	UG/KG	630	
DIMETHYL PHTHALATE	UG/KG	523000	
DI-N-BUTYL PHTHALATE	UG/KG	11000	
DI-N-OCTYLPHTHALATE	UG/KG	708000	
ENDOSULFAN SULFATE	UG/KG	3	
ENDRIN	UG/KG	2.22	
ENDRIN ALDEHYDE	UG/KG	3200	
ENDRIN KETONE	UG/KG		
ETHYLBENZENE	UG/KG	3600	
FLUORANTHENE	UG/KG	423	
FLUORENE	UG/KG	77.4	
GAMMA BHC (LINDANE)	UG/KG	2.37	
GAMMA-CHLORDANE	UG/KG		
HEPTACHLOR	UG/KG	10	
HEPTACHLOR EPOXIDE	UG/KG	2.47	
HEXACHLOROBENZENE	UG/KG	100	
HEXACHLOROBUTADIENE	UG/KG	47.7	
HEXACHLOROCYCLOPENTADIENE	UG/KG	2.99	
HEXACHLOROETHANE	UG/KG	67.99	
HMX	UG/KG	10	
INDENO(1,2,3-C,D)PYRENE	UG/KG	17	
IRON	MG/KG	190000	20750
ISODRIN	UG/KG	55.2	
ISOPHORONE	UG/KG	1146.36	
LEAD	MG/KG	35.8	24
MAGNESIUM	MG/KG		1909
MANGANESE	MG/KG	630	1043
MERCURY	MG/KG	0.18	0.15
METHOXYCHLOR	UG/KG	19	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG	4396.09	
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	UG/KG	209.1	
METHYLENE CHLORIDE	UG/KG	923.76	
NAPHTHALENE	UG/KG	176	
N-HEXANE	UG/KG		
NICKEL	MG/KG	22.7	16.9
NITROBENZENE	UG/KG	585.28	
NITROGEN, AMMONIA (AS N)	MG/KG		217
NITROGEN, NITRATE-NITRITE	MG/KG		1.5
NITROGLYCERIN	UG/KG	330	
N-NITROSODI-N-PROPYLAMINE	UG/KG		
N-NITROSODIPHENYLAMINE	UG/KG	700	
PCB (total)	UG/KG	59.8	
PCB-1016 (AROCHLOR 1016)	UG/KG	7	
PCB-1221 (AROCHLOR 1221)	UG/KG	4	
PCB-1232 (AROCHLOR 1232)	UG/KG		
PCB-1242 (AROCHLOR 1242)	UG/KG		

Note: These screening values may be updated if the guidance are updated.
Sediment samples are also screened against the soil screening values included in Table 4-2.

Table 4-4:
Sediment Screening Values

Analytes	Units	Ecological Sediment Screening Values	Background Sediment UTL
PCB-1248 (AROCHLOR 1248)	UG/KG	30	
PCB-1254 (AROCHLOR 1254)	UG/KG	60	
PCB-1260 (AROCHLOR 1260)	UG/KG	5	
PENTACHLOROPHENOL	UG/KG	74	
PENTAERYTHRITOL TETRANITRATE	UG/KG	472000	
PERCHLORATE	UG/KG		
PHENANTHRENE	UG/KG	204	
PHENOL	UG/KG	48	
PHOSPHORUS, TOTAL (AS P)	MG/KG		632
PICRIC ACID	UG/KG		
POTASSIUM	MG/KG		1421
PYRENE	UG/KG	195	
RDX	UG/KG	200	
SELENIUM	MG/KG		0.64
SILVER	MG/KG	1	3
SODIUM	MG/KG		1450
STYRENE	UG/KG	21596.04	
TETRACHLOROETHYLENE(PCE)	UG/KG	531.95	
TETRYL	UG/KG		
THALLIUM	MG/KG		0.31
TOLUENE	UG/KG	670	
TOTAL 1,2-DICHLOROETHENE	UG/KG	247.8	
TOTAL ORGANIC CARBON	UG/KG		
TOXAPHENE	UG/KG	28	
TRANS-1,2-DICHLOROETHENE	UG/KG	1177.2	
TRANS-1,3-DICHLOROPROPENE	UG/KG	48.68	
TRICHLOROETHYLENE (TCE)	UG/KG	1600	
VANADIUM	MG/KG		28
VINYL CHLORIDE	UG/KG	26367.71	
XYLENES, TOTAL	UG/KG	25	
ZINC	MG/KG	121	57.1

Note: These screening values may be updated if the guidance are updated.
Sediment samples are also screened against the soil screening values included in Table 4-2.

Table 4-5:
Surface Water Screening Values

Analytes	Units	ESV		Illinois' General Use Surface Water Quality Human Health Standards	Background Surface Water UTL
		Ecological Direct Pathway Surface Water Screening Values	Illinois' General Use Surface Water Quality Aquatic Life Standards		
1,1,1-TRICHLOROETHANE	UG/L	11			
1,1,2,2-TETRACHLOROETHANE	UG/L	240			
1,1,2-TRICHLOROETHANE	UG/L	940			
1,1-DICHLOROETHANE	UG/L	47			
1,1-DICHLOROETHENE	UG/L	25			
1,2,4-TRICHLOROBENZENE	UG/L	44.9			
1,2-DICHLOROBENZENE	UG/L	170			
1,2-DICHLOROETHANE	UG/L	910			
1,2-DICHLOROPROPANE	UG/L	525			
1,3,5-TRINITROBENZENE	UG/L	30			
1,3-DICHLOROBENZENE	UG/L	50.2			
1,3-DINITROBENZENE	UG/L	20			
1,4-DICHLOROBENZENE	UG/L	11.2			
1-METHYLNAPHTHALENE	UG/L		68		
2,4,5-TRICHLOROPHENOL	UG/L	63			
2,4,6-TRICHLOROPHENOL	UG/L	3.2			
2,4,6-TRINITROTOLUENE	UG/L	40			
2,4-DICHLOROPHENOL	UG/L	36.5			
2,4-DIMETHYLPHENOL	UG/L	220			
2,4-DINITROPHENOL	UG/L	6.2			
2,4-DINITROTOLUENE	UG/L	230			
2,6-DINITROTOLUENE	UG/L	42			
2-AMINO-4,6-DINITROTOLUENE	UG/L	20			
2-CHLORONAPHTHALENE	UG/L	310			
2-CHLOROPHENOL	UG/L	41			
2-HEXANONE	UG/L	99			
2-METHYLNAPHTHALENE	UG/L	417	12	3500	
2-METHYLPHENOL (O-CRESOL)	UG/L	13			
2-NITROANILINE	UG/L	200	200		
2-NITROPHENOL	UG/L	3451			
2-NITROTOLUENE	UG/L	7300			
2,3,7,8-TCDD	UG/L				
3,3'-DICHLOROBENZIDINE	UG/L	105			
3-NITROANILINE	UG/L	68321	200		
3-NITROTOLUENE	UG/L	8300			
4,4'-DDD	UG/L	0.0064		0.00027	
4,4'-DDE	UG/L	10.5		0.00019	
4,4'-DDT	UG/L	0.001	0.001	0.00019	
4,4'-METHYLENE-BIS(2-CHLOROANILINE)	UG/L				
4,6-DINITRO-2-METHYLPHENOL	UG/L	2.3			
4-AMINO-2,6-DINITROTOLUENE	UG/L	540			
4-BROMOPHENYL PHENYL ETHER	UG/L	1.5			
4-CHLORO-3-METHYLPHENOL	UG/L	25			
4-CHLOROANILINE	UG/L	2250			
4-CHLOROPHENYL PHENYL ETHER	UG/L	46			
4-METHYLPHENOL (P-CRESOL)	UG/L	2251			
4-NITROANILINE	UG/L	46418	120		
4-NITROPHENOL	UG/L	82.8			
4-NITROTOLUENE	UG/L	7000			
ACENAPHTHENE	UG/L	17			
ACENAPHTHYLENE	UG/L	665		3500	
ACETONE	UG/L	507			
ALDRIN	UG/L	0.3	3	0.000046	
ALPHA BHC (ALPHA HEXACHLOROCYCLOHEXANE)	UG/L	2.2			
ALPHA ENDOSULFAN	UG/L	0.056			
ALPHA-CHLORDANE	UG/L	1.09		0.00019	
ALUMINUM	UG/L	87			200
ANTHRACENE	UG/L	6		35000	
ANTIMONY	UG/L	30			6
ARSENIC	UG/L	190	190		10
BARIUM	UG/L	5000	5000	5000	22.7
BENZENE	UG/L	46	416	21	
BENZO(A)ANTHRACENE	UG/L	0.027		0.1	
BENZO(A)PYRENE	UG/L	0.014		0.01	
BENZO(B)FLUORANTHENE	UG/L	0.0056		0.1	
BENZO(G,H,I)PERYLENE	UG/L	7.64		3500	
BENZO(K)FLUORANTHENE	UG/L	0.0056			
BENZYL BUTYL PHTHALATE	UG/L	19			
BERYLLIUM	UG/L	0.53			5
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/L	2.2			
BETA ENDOSULFAN	UG/L	0.056			
BIS(2-CHLOROETHOXY) METHANE	UG/L	6400			
BIS(2-CHLOROETHYL) ETHER (2-CHLOROETHYL ETHER)	UG/L	2380			

Note: Background surface water data collected from Little Grassy Lake as part of Lake Monitoring OU.
These screening values may require updating if the guidance are updated.

Table 4-5:
Surface Water Screening Values

Analytes	Units	ESV		Illinois' General Use Surface Water Quality Human Health Standards	Background Surface Water UTL
		Ecological Direct Pathway Surface Water Screening Values	Illinois' General Use Surface Water Quality Aquatic Life Standards		
BIS(2-CHLOROISOPROPYL) ETHER	UG/L				
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	3			
BORON	UG/L	1000		1000	
BROMODICHLOROMETHANE	UG/L	15215			
BROMOFORM	UG/L	293			
BROMOMETHANE	UG/L	67647			
CADMIUM	UG/L	1.1	1.1		5
CALCIUM	UG/L	116000			7197
CARBAZOLE	UG/L	893			
CARBON DISULFIDE	UG/L	0.92			
CARBON TETRACHLORIDE	UG/L	9.8			
CHLORDANE	UG/L	0.0043		0.00019	
CHLOROBENZENE	UG/L	64			
CHLOROETHANE	UG/L	21069			
CHLOROFORM	UG/L	28			
CHLOROMETHANE	UG/L	67467			
CHROMIUM, TOTAL	UG/L	207	210		10
CHRYSENE	UG/L	16		10	
CIS-1,2-DICHLOROETHYLENE	UG/L	590			
CIS-1,3-DICHLOROPROPENE	UG/L	0.055			
COBALT	UG/L	2.3			50
COPPER	UG/L	11.8	12		10
CYANIDE	UG/L	5.2	5.2		
DELTA BHC (DELTA HEXACHLOROCYCLOHEXANE)	UG/L	2.2			
DIBENZ(A,H)ANTHRACENE	UG/L	0.0016			
DIBENZOFURAN	UG/L	3.7	15		
DIBROMOCHLOROMETHANE	UG/L	14607			
DIELDRIN	UG/L	0.056			
DIETHYL PHTHALATE	UG/L	210			
DIMETHYL PHTHALATE	UG/L	330			
DI-N-BUTYL PHTHALATE	UG/L	9.4			
DI-N-OCTYLPHTHALATE	UG/L	708			
ENDOSULFAN SULFATE	UG/L	0.051			
ENDRIN	UG/L	0.036	0.033	0.26	
ENDRIN ALDEHYDE	UG/L	0.15	0.033	0.26	
ENDRIN KETONE	UG/L		0.033	0.26	
ETHYLBENZENE	UG/L	7.3	17	9300	
FLUORANTHENE	UG/L	8.1		120	
FLUORENE	UG/L	3.9		4500	
GAMMA BHC (LINDANE)	UG/L	0.08			
GAMMA-CHLORDANE	UG/L	1.09		0.00019	
HEPTACHLOR	UG/L	0.0038		0.000068	
HEPTACHLOR EPOXIDE	UG/L	0.0038			
HEXACHLOROBENZENE	UG/L	3.68			
HEXACHLOROBUTADIENE	UG/L	0.93			
HEXACHLOROCYCLOPENTADIENE	UG/L	0.07			
HEXACHLOROETHANE	UG/L	9.8			
HMX	UG/L	330			
INDENO(1,2,3-C,D)PYRENE	UG/L	4.31		0.1	
IRON	UG/L	1000	1000	1000	100
ISODRIN	UG/L	0.0309			
ISOPHORONE	UG/L	1170			
LEAD	UG/L	20.1	20		2
MAGNESIUM	UG/L	82000			2534
MANGANESE	UG/L	1000	1000	1000	582
MERCURY	UG/L	1.3	1.3	0.012	0.2
METHOXYCHLOR	UG/L	0.03			
METHYL ETHYL KETONE (2-BUTANONE)	UG/L	14000			
METHYL ISOBUTYL KETONE (4-METHYL-2-PENTANONE)	UG/L	170			
METHYLENE CHLORIDE	UG/L	1930	1400	340	
NAPHTHALENE	UG/L	12	68		
N-HEXANE	UG/L				
NICKEL	UG/L	1000	1000	1000	10
NITROBENZENE	UG/L	270			
NITROGEN, AMMONIA (AS N)	MG/L				0.26
NITROGEN, NITRATE-NITRITE	MG/L				0.05
NITROGLYCERIN	UG/L	200			
N-NITROSODI-N-PROPYLAMINE	UG/L				
N-NITROSODIPHENYLAMINE	UG/L	58.5			
PCB (total)	UG/L			0.000056	
PCB-1016 (AROCHLOR 1016)	UG/L	0.014			
PCB-1221 (AROCHLOR 1221)	UG/L	0.014			
PCB-1232 (AROCHLOR 1232)	UG/L	0.014			

Note: Background surface water data collected from Little Grassy Lake as part of Lake Monitoring OU.
These screening values may require updating if the guidance are updated.

Table 4-5:
Surface Water Screening Values

Analytes	Units	ESV		Illinois' General Use Surface Water Quality Human Health Standards	Background Surface Water UTL
		Ecological Direct Pathway Surface Water Screening Values	Illinois' General Use Surface Water Quality Aquatic Life Standards		
PCB-1242 (AROCHLOR 1242)	UG/L	0.014			
PCB-1248 (AROCHLOR 1248)	UG/L	0.014			
PCB-1254 (AROCHLOR 1254)	UG/L	0.014			
PCB-1260 (AROCHLOR 1260)	UG/L	0.014			
PENTACHLOROPHENOL	UG/L	15			
PENTAERYTHRITOL TETRANITRATE	UG/L	85000			
PERCHLORATE	UG/L				
PHENANTHRENE	UG/L	6.3	3.7	3500	
PHENOL	UG/L	100		100	
PHOSPHORUS, TOTAL (AS P)	MG/L				0.05
PICRIC ACID	UG/L				
POTASSIUM	UG/L	53000			1613
PYRENE	UG/L	61		3500	
RDX	UG/L	190			
SELENIUM	UG/L	1000	1000	1000	2.7
SILVER	UG/L	5	5	5	10
SODIUM	UG/L	680000			3169
STYRENE	UG/L	4020			
SULFATE (AS SO4)	UG/L			500000	
TETRACHLOROETHYLENE(PCE)	UG/L	150			
TETRYL	UG/L				
THALLIUM	UG/L	4			10
TOLUENE	UG/L	110	110	62000	
TOTAL 1,2-DICHLOROETHENE	UG/L	1100			
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			1000	71.7
TOTAL ORGANIC CARBON	UG/L				
TOXAPHENE	UG/L	0.0002			
TRANS-1,2-DICHLOROETHENE	UG/L	590			
TRANS-1,3-DICHLOROPROPENE	UG/L	24.4			
TRICHLOROETHYLENE (TCE)	UG/L	940			
VANADIUM	UG/L	19			50
VINYL CHLORIDE	UG/L	4000			
XYLENES, TOTAL	UG/L	120	120	62000	
ZINC	UG/L	1000	1000	1000	20

Note: Background surface water data collected from Little Grassy Lake as part of Lake Monitoring OU.
These screening values may require updating if the guidance are updated.

Table 5-1
AUS-0A2B - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-1 for Locations)

Soil Samples		AUS-0A2B-001				AUS-0A2B-002				AUS-0A2B-003				AUS-0A2B-004				AUS-0A2B-005				AUS-0A2B-006			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			--				ND				ND				ND				--				ND	
ALL SVOC	UG/KG	ND				ND				--				--				--				ND			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND				ND			
cPAH	UG/KG	ND				ND				421.05	H			421.306	H			307.071	H			ND			
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND				ND				ND				ND			
ACETONE	UG/KG			38				ND				ND				ND				48				ND	
ALUMINUM	MG/KG	8350	E			7630	E			2420	E			6620	E			5940	E			7120	E		
ANTHRACENE	UG/KG	ND				ND				57				ND				ND				ND			
ANTIMONY	MG/KG	ND				ND				ND				55.9	B E H W1 W2			ND				0.34			
ARSENIC	MG/KG	10.7	E H			5.6	H			4.8	H			7.3	H			8	H			5.5	H		
BARIUM	MG/KG	126				1260	B E			66				271	B			101				67.3			
BENZO(A)ANTHRACENE	UG/KG	ND				ND				290				71				48				ND			
BENZO(A)PYRENE	UG/KG	ND				ND				280	H			75				46				ND			
BENZO(B)FLUORANTHENE	UG/KG	ND				ND				410				82				120				ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				180				ND				ND				ND			
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				170				92				ND				ND			
BENZYL BUTYL PHTHALATE	UG/KG	ND				ND				ND				ND				ND				ND			
BERYLLIUM	MG/KG	ND				ND				ND				0.91	B			ND				0.05			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				ND				240				ND				ND			
BORON	MG/KG	ND				17.5	B E			ND				ND				ND				ND			
CADMIUM	MG/KG	ND				ND				ND				ND				ND				ND			
CALCIUM	MG/KG	3750	B			599				212000	B			6850	B			1550				466			
CARBAZOLE	UG/KG	ND				ND				42				ND				ND				ND			
CHROMIUM, TOTAL	MG/KG	15.4	B E			43	B E W1 W2			7.8	E			44.3	B E W1 W2			14.2	B E			8.5	E		
CHRYSENE	UG/KG	ND				ND				350				86				71				ND			
COBALT	MG/KG	ND				8.8				ND				9.8	B			8.4				1.1			
COPPER	MG/KG	10.9	B			11.1	B			7.8				36.6	B E			15.7	B			4.5			
CYANIDE	MG/KG					ND																			
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				50				ND				ND				ND			
DIBENZOFURAN	UG/KG	ND				ND				43				ND				ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				ND				61				ND				ND			
FLUORANTHENE	UG/KG	ND				ND				600				120				72				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				190				ND				ND				ND			
IRON	MG/KG	18300	E			16000	E			9220	E			28200	B E			15800	E			10900	E		
LEAD	MG/KG	27.8	B			25				14.7				2000	B E H			27.4	B			9.2			
MAGNESIUM	MG/KG	2680	B			2930	B			8480	B			2890	B			1150				1180			
MANGANESE	MG/KG	454	E			540	E			748	E			1290	E			974	E			170	E		
MERCURY	MG/KG	0.08				ND				ND				0.99	B E W2			ND				0.19	E		
NAPHTHALENE	UG/KG	ND				ND				ND				ND				ND				ND			
NICKEL	MG/KG	13.8	B			18	B			8.2				22.9	B			7.1				4			
PHENANTHRENE	UG/KG	ND				ND				320				ND				ND				ND			
POTASSIUM	MG/KG	672				906	B			373				695	B			347				265			
PYRENE	UG/KG	ND				ND				480				110				60				ND			
SELENIUM	MG/KG	ND				ND				ND				0.6				ND				0.55			
SILVER	MG/KG	ND				0.78	B			ND				ND				0.34				ND			
SODIUM	MG/KG	ND				ND				ND				185	B			ND				143	B		
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	ND				ND				ND				0.38				0.16				0.27			
TOTAL ORGANIC CARBON	MG/KG													46900											
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	25.3				25.6				6.5				27.1				23.6				19			
ZINC	MG/KG	281	B E			36				62.8	B			113	B			33.3				19.5			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-1
AUS-0A2B - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-1 for Locations)

Soil Samples		AUS-0A2B-007				AUS-0A2B-008				AUS-0A2B-009				AUS-0A2B-010				AUS-0A2B-011				AUS-0A2B-012			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND				--				ND				ND				ND	
ALL SVOC	UG/KG	ND				ND				ND				--				ND				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND				ND			
cPAH	UG/KG	ND				ND				ND				468.91	H			ND				460.1	H		
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND				ND				ND				250			
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND	
ALUMINUM	MG/KG	5500	E			6670	E			4910	E			6240	E			5130	E			5120	E		
ANTHRACENE	UG/KG	ND				ND				ND				ND				ND				ND			
ANTIMONY	MG/KG	ND				0.93	B			0.53	B			0.52	B							0.47	B		
ARSENIC	MG/KG	8.5	H			35.2	B E H W1 W2			5.1	H			17.5	B E H			13	E H			8.3	H		
BARIUM	MG/KG	81.1				837	B E			57.7				101				49.7				82.8			
BENZO(A)ANTHRACENE	UG/KG	ND				ND				ND				ND				ND				170			
BENZO(A)PYRENE	UG/KG	ND				ND				ND				ND				ND				150			
BENZO(B)FLUORANTHENE	UG/KG	ND				ND				ND				46				ND				270			
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				ND				ND				ND				95			
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				ND				ND				ND				87			
BENZYL BUTYL PHTHALATE	UG/KG	ND				ND				ND				ND				ND				ND			
BERYLLIUM	MG/KG	ND				1.3	B			ND				ND				ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				ND				ND				ND				ND			
BORON	MG/KG	ND				7.1	B E			ND				ND				ND				ND			
CADMIUM	MG/KG	ND				ND				ND				ND				ND				0.41	B E		
CALCIUM	MG/KG	2000				3360	B			4180	B			6880	B			1170				50000	B		
CARBAZOLE	UG/KG	ND				ND				ND				ND				ND				ND			
CHROMIUM, TOTAL	MG/KG	7.5	E			14.2	B E			8.5	E			17.6	B E			12.1	E			7.6	E		
CHRYSENE	UG/KG	ND				ND				ND				ND				ND				230			
COBALT	MG/KG	ND				25.6	B E			ND				ND				ND				ND			
COPPER	MG/KG	21.3	B			11.3	B			11.4	B			41.1	B E			5.8				26.4	B		
CYANIDE	MG/KG									2.5	B E			ND				2.1	B E						
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND				ND				ND				ND			
DIBENZOFURAN	UG/KG	ND				ND				ND				ND				ND				120			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				ND				91				ND				ND			
FLUORANTHENE	UG/KG	ND				ND				ND				ND				ND				240			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				ND				ND				ND				100			
IRON	MG/KG	9980	E			58800	B E H			8880	E			24900	B E			16000	E			9970	E		
LEAD	MG/KG	73.3	B			62	B			17.4				25.5				20.8				65.3	B		
MAGNESIUM	MG/KG	944				1480				1870	B			2250	B			758				6840	B		
MANGANESE	MG/KG	311	E			ND				280	E			427	E			252	E			354	E		
MERCURY	MG/KG	0.18	E			0.07				0.08				ND				ND				0.09			
NAPHTHALENE	UG/KG	ND				ND				ND				ND				ND				96			
NICKEL	MG/KG	7.3				19	B			7.5				9.2				4.3				9.6			
PHENANTHRENE	UG/KG	ND				ND				ND				ND				ND				300			
POTASSIUM	MG/KG	261				383				346				300				209				348			
PYRENE	UG/KG	ND				ND				ND				ND				ND				300			
SELENIUM	MG/KG	0.3				4.1	B E			0.85				1.2	E			1.3	E			1.1	E		
SILVER	MG/KG	ND				1.8	B			ND				0.31				0.44				ND			
SODIUM	MG/KG	ND				ND				158	B			ND				ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				80	W1 W2			ND				ND				ND	
THALLIUM	MG/KG	ND				ND				ND				ND				ND				ND			
TOTAL ORGANIC CARBON	MG/KG					36100																			
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	15.2				74.1	B E			13.8				28				41.1	B			13.4			
ZINC	MG/KG	89.8	B			59.3	B			302	B E			103	B			26.7				111	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-1
AUS-0A2B - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-1 for Locations)

Soil Samples		AUS-0A2B-013				AUS-0A2B-014				AUS-0A2B-015		AUS-0A2B-016				AUS-0A2B-017				AUS-0A2B-018			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND						--				ND				ND	
ALL SVOC	UG/KG	ND				ND				ND		ND				--				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND		ND				ND				ND			
cPAH	UG/KG	ND				ND				ND		ND				419.41	H			536.05	H		
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND		ND				ND				69			
ACETONE	UG/KG			ND				ND						40				ND				ND	
ALUMINUM	MG/KG	8610	E			6790	E			5920	E	4540	E			6070	E			5050	E		
ANTHRACENE	UG/KG	ND				ND				ND		ND				ND				ND			
ANTIMONY	MG/KG	ND				0.32				ND		4.3	B			0.57	B			0.36			
ARSENIC	MG/KG	8.9	H			10.9	E H			3.5	H	6.3	H			10.6	E H			5.8	H		
BARIUM	MG/KG	106				127				112		171				89.6				117			
BENZO(A)ANTHRACENE	UG/KG	ND				ND				ND		ND				110				ND			
BENZO(A)PYRENE	UG/KG	ND				ND				ND		ND				90				ND			
BENZO(B)FLUORANTHENE	UG/KG	ND				ND				ND		ND				93				56			
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				ND		ND				ND				ND			
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				ND		ND				100				ND			
BENZYL BUTYL PHTHALATE	UG/KG	ND				ND				ND		ND				ND				ND			
BERYLLIUM	MG/KG	0.34				ND				0.46		ND				0.5	B			ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				ND		ND				79				ND			
BORON	MG/KG	ND				ND				ND		ND				ND				ND			
CADMIUM	MG/KG	ND				ND				ND		ND				ND				ND			
CALCIUM	MG/KG	964				1610				1030		1570				3570	B			11700	B		
CARBAZOLE	UG/KG	ND				ND				ND		ND				ND				ND			
CHROMIUM, TOTAL	MG/KG	13.2	E			11.8	E			8.4	E	104	B E W1 W2			14.1	B E			9.2	E		
CHRYSENE	UG/KG	ND				ND				ND		ND				110				50			
COBALT	MG/KG	7.5				6.5				5.8		ND				5.2				10.6	B		
COPPER	MG/KG	15	B			7.7				7.9		19.3	B			10.3	B			11.1	B		
CYANIDE	MG/KG																						
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND		ND				ND				ND			
DIBENZOFURAN	UG/KG	ND				ND				ND		ND				ND				72			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				ND		ND				ND				ND			
FLUORANTHENE	UG/KG	ND				ND				ND		ND				230				56			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				ND		ND				ND				ND			
IRON	MG/KG	21000	B E			19800	B E			9300	E	11300	E			21800	B E			14000	E		
LEAD	MG/KG	12.1				18.2				18.5		216	B			23.2				25.9	B		
MAGNESIUM	MG/KG	2450	B			1550				989		1180				2080	B			5850	B		
MANGANESE	MG/KG	408	E			736	E			434	E	647	E			610	E			973	E		
MERCURY	MG/KG	ND				0.07				0.11		ND				0.08				0.12			
NAPHTHALENE	UG/KG	ND				ND				ND		ND				ND				ND			
NICKEL	MG/KG	15.3	B			8.6				6		7.7				7.4				11.5			
PHENANTHRENE	UG/KG	ND				ND				ND		ND				93				110			
POTASSIUM	MG/KG	525				422				ND		383				693	B			412			
PYRENE	UG/KG	ND				ND				ND		ND				200				56			
SELENIUM	MG/KG	0.45				1				0.79		ND				0.8				0.88			
SILVER	MG/KG	ND				ND				ND		0.44				ND				ND			
SODIUM	MG/KG	142	B			ND				ND		ND				155	B			ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND						ND				ND				ND	
THALLIUM	MG/KG	0.21				ND				ND		ND				ND				ND			
TOTAL ORGANIC CARBON	MG/KG																						
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND						ND				ND				ND	
VANADIUM	MG/KG	24.1				32	B			17.9		16.1				32.9	B			18.4			
ZINC	MG/KG	47.2	B			29.1				35.1		79.7	B			72.7	B			43.4	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-1
AUS-0A2B - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-1 for Locations)

Soil Samples		AUS-0A2B-019				AUS-0A2B-020				AUS-0A2B-021				AUS-0A2B-022				AUS-0A2B-W01							
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**20 ft**	**CE**
ALL VOC	UG/KG			ND				ND				--				ND				ND		ND		ND	
ALL SVOC	UG/KG	--				--				--				--				--							
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND							
cPAH	UG/KG	603.067	H			515.959	H			ND				ND				354.28	H						
2-METHYLNAPHTHALENE	UG/KG	ND				65				ND				ND				65							
ACETONE	UG/KG			ND				ND				ND				ND				ND		ND		ND	
ALUMINUM	MG/KG	5680	E			5780	E			5520	E			3070	E			7190	E						
ANTHRACENE	UG/KG	ND				ND				ND				ND				ND							
ANTIMONY	MG/KG	ND				0.31				ND				ND				ND							
ARSENIC	MG/KG	8.5	H			9.9	E H			33.3	B E H W1 W2			5	H			7.7	H						
BARIUM	MG/KG	74.8				132				451	B			52.9				125							
BENZO(A)ANTHRACENE	UG/KG	ND				ND				ND				ND				110							
BENZO(A)PYRENE	UG/KG	ND				ND				ND				ND				110							
BENZO(B)FLUORANTHENE	UG/KG	63				76				ND				ND				140							
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				ND				ND				73							
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				ND				ND				150							
BENZYL BUTYL PHTHALATE	UG/KG	ND				ND				ND				48				ND							
BERYLLIUM	MG/KG	ND				ND				0.75	B			ND				ND							
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				ND				ND				59							
BORON	MG/KG	ND				ND				10.2	B E			ND				5.9	B E						
CADMIUM	MG/KG	ND				ND				1.2	B E			ND				ND							
CALCIUM	MG/KG	13700	B			4340	B			1270				1590				46500	B						
CARBAZOLE	UG/KG	ND				ND				ND				ND				ND							
CHROMIUM, TOTAL	MG/KG	9.3	E			7.8	E			20	B E			6.1	E			17.7	B E						
CHRYSENE	UG/KG	67				59				ND				ND				180							
COBALT	MG/KG	3.8				ND				21.6	B E			ND				15.9	B						
COPPER	MG/KG	11.9	B			9.5	B			1560	B E			19	B			12.8	B						
CYANIDE	MG/KG									1.6	B E			0.59	B										
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND				ND				ND							
DIBENZOFURAN	UG/KG	ND				ND				ND				ND				74							
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				78				ND				ND							
FLUORANTHENE	UG/KG	89				50				ND				ND				260							
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				ND				ND				76							
IRON	MG/KG	14000	E			12200	E			21300	B E			6410	E			27700	B E						
LEAD	MG/KG	20.6				32	B			65.2	B			19.8				23.5							
MAGNESIUM	MG/KG	2550	B			2120	B			800				686				22900	B						
MANGANESE	MG/KG	350	E			772	E			6350	B E H			327	E			945	E						
MERCURY	MG/KG	0.11				0.07				0.07				ND				0.06							
NAPHTHALENE	UG/KG	ND				ND				ND				ND				ND							
NICKEL	MG/KG	8.3				6.5				18.2	B			3				16.2	B						
PHENANTHRENE	UG/KG	61				85				ND				ND				170							
POTASSIUM	MG/KG	324				344				357				129				388							
PYRENE	UG/KG	90				76				ND				ND				260							
SELENIUM	MG/KG	0.88				0.78				4.5	B E			ND				ND							
SILVER	MG/KG	0.29				0.3				1.9	B			ND				ND							
SODIUM	MG/KG	ND				ND				ND				ND				ND							
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND		ND		ND	
THALLIUM	MG/KG	ND				ND				ND				ND				ND							
TOTAL ORGANIC CARBON	MG/KG																								
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				150	H W1 W2			ND				ND		ND		ND	
VANADIUM	MG/KG	19.7				19.7				48.7	B E			13.2				ND							
ZINC	MG/KG	258	B E			42.1	B			465	B E			243	B E			44.8	B						

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-1
AUS-0A2B - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-1 for Locations)

Soil Samples		AUS-0A2B-W02								AUS-0A2B-W03								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**7.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND		ND		ND				ND		ND		ND						
ALL SVOC	UG/KG	--																				
ALL EXPLOSIVES	UG/KG	ND																				
cPAH	UG/KG	393.68	H																	2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	55																	4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACETONE	UG/KG			ND		ND		ND				ND		ND		ND			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	5390	E							5130	E					6250	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND																	1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND								ND						ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	10.3	E H							5.9	H					4.6	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	56.1								66.4						115		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	120																	3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	140																	3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	160																	1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	97																	1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	170																	9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG	ND																	2.4E+02	9.3E+05	9.3E+05	9.3E+05
BERYLLIUM	MG/KG	ND								ND						ND		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	49																	9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	2.9	E							ND						ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND								0.38	B E					ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	50800	B							34400	B					1530		2.9E+03				
CARBAZOLE	UG/KG	ND																	1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	6.9	E							6.6	E					10.5	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	180																	4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	ND								ND						ND		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	9.8	B							8.5						8.5		9.4E+00	3.1E+01	4.1E+03		5.9E+04
CYANIDE	MG/KG	ND																5.6E-01	9.0E-01	1.2E+03		4.0E+01
DIBENZ(A,H)ANTHRACENE	UG/KG	ND																	1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND																	2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND																	7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	140																	1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	88																	9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	10400	E							6790	E					11600	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	14.4								ND						ND		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	20100	B							14200	B					1810		1.8E+03				
MANGANESE	MG/KG	254	E							421	E					354	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND								0.05						ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND																	4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	6.6								5.9						10.7		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	67																	1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	491								377						402		6.9E+02				
PYRENE	UG/KG	130																	7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.54								0.65						ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND								ND						ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND								ND						408	B	8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND		ND				ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND								1	B					ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL ORGANIC CARBON	MG/KG																					
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		ND				ND		ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	14.9								11.1						18.1		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	39.2								56.3	B					29.6		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-2
AUS-0A2B - Detections of Constituents in PA/SI Drum Samples
(see Figure 5-1 for Locations)

Drum Samples		AUS-0A2B-002-DRUM		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG							
ALL SVOC	UG/KG	ND						
ALL EXPLOSIVES	UG/KG	ND						
cPAH	UG/KG	ND				2.1E+02		
ALUMINUM	MG/KG	9180	B E	9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	5.4	B E W1 W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.5	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	1500	B E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BORON	MG/KG	143	B E	4.6E+00	5.0E-01	1.8E+04		
CALCIUM	MG/KG	3750	B	2.9E+03				
CHROMIUM, TOTAL	MG/KG	191	B E W1 W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	11.6	B	9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	75.1	B E	9.4E+00	3.1E+01	4.1E+03		5.9E+04
IRON	MG/KG	34300	B E H	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	291	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	4440	B	1.8E+03				
MANGANESE	MG/KG	480	E	2.4E+03	1.0E+02	1.9E+03		
NICKEL	MG/KG	23.7	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	969	B	6.9E+02				
SILVER	MG/KG	4	B E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
THALLIUM	MG/KG	0.17		5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	23.9		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	166	B E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-3
AUS-0A2B - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-1 for Locations)

Surface Water Samples		AUS-0A2B-015-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL SVOC	UG/L	ND				
ALL EXPLOSIVES	UG/L	ND				
ALUMINUM	UG/L	28400	B E	2.0E+02	8.7E+01	
ARSENIC	UG/L	5.8		1.0E+01	1.9E+02	
BARIUM	UG/L	247	B	2.3E+01	5.0E+03	5.0E+03
CALCIUM	UG/L	10900	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	24.6	B	1.0E+01	2.1E+02	
IRON	UG/L	23300	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	22.9	B E	2.0E+00	2.0E+01	
MAGNESIUM	UG/L	6170	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	1450	B E H	5.8E+02	1.0E+03	1.0E+03
POTASSIUM	UG/L	3920	B	1.6E+03	5.3E+04	
SODIUM	UG/L	3770	B	3.2E+03	6.8E+05	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-4
AUS-0A2B - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-1 for Locations)

Groundwater Samples		AUS-0A2B-W01-GW		AUS-0A2B-W02-GW		AUS-0A2B-W03-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		--		ND		
ALL SVOC	UG/L	ND		ND		ND		
ALL EXPLOSIVES	UG/L	ND		ND		ND		
1,1-DICHLOROETHENE	UG/L	ND		0.7		ND		7.0E+00
ALUMINUM	UG/L	186				ND		3.5E+03
BARIUM	UG/L	1.8				52		2.0E+03
CALCIUM	UG/L	174				72500		
CIS-1,2-DICHLOROETHYLENE	UG/L	ND		120	C1	ND		7.0E+01
IRON	UG/L	157				17.8		5.0E+03
MAGNESIUM	UG/L	28.9				35500		
MANGANESE	UG/L	4.8				458	C1	1.5E+02
SODIUM	UG/L	90.6				226000		
TETRACHLOROETHYLENE(PCE)	UG/L	ND		15	C1	ND		5.0E+00
TRANS-1,2-DICHLOROETHENE	UG/L	ND		24		ND		1.0E+02
TRICHLOROETHYLENE (TCE)	UG/L	ND		47	C1	ND		5.0E+00
ZINC	UG/L	5.1				ND		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-001				AUS-0A2D-002				AUS-0A2D-003				AUS-0A2D-004				AUS-0A2D-005				AUS-0A2D-006				AUS-0A2D-007			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALL SVOC	UG/KG	--				--				--				--				--				--				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND				--				ND			
cPAH	UG/KG	380.93	H			448.77	H			576.35	H			831.13	H			458.099	H			841.4	H			477.24	H		
Mammal TEQ	NG/KG					1.68	E																						
Bird TEQ	NG/KG					1.12	E																						
1,2,3,4,6,7,8-HpCDD	NG/KG					43.6																							
1,2,3,4,6,7,8-HpCDF	NG/KG					8.63																							
1,2,3,4,7,8,9-HpCDF	NG/KG					0.43																							
1,2,3,4,7,8-HxCDD	NG/KG					0.555																							
1,2,3,4,7,8-HxCDF	NG/KG					1.19																							
1,2,3,6,7,8-HxCDD	NG/KG					1.65																							
1,2,3,6,7,8-HxCDF	NG/KG					0.461																							
1,2,3,7,8,9-HxCDD	NG/KG					1.59																							
1,2,3,7,8,9-HxCDF	NG/KG					0.177																							
1,2,3,7,8-PeCDD	NG/KG					0.409																							
1,2,3,7,8-PeCDF	NG/KG					0.195																							
2,3,4,6,7,8-HxCDF	NG/KG					0.344																							
2,3,4,7,8-PeCDF	NG/KG					ND																							
2,3,7,8-TCDD	NG/KG					ND																							
2,3,7,8-TCDF	NG/KG					ND																							
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND				ND				ND				7100				1000			
ACENAPHTHENE	UG/KG	ND				ND				ND				ND				ND				520				79			
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALUMINUM	MG/KG	4840	E			6070	E			7640	E			5890	E			7350	E			537	E			10100	B E		
ANTHRACENE	UG/KG	59				ND				ND				ND				ND				1200				150			
ANTIMONY	MG/KG	ND				0.81	B			0.31				ND				ND				ND				ND			
ARSENIC	MG/KG	22.8	B E H			120	B E H W1 W2			25.5	B E H			6	H			7	H			17.2	B E H			4.5	H		
BARIUM	MG/KG	93.5				236				117				102				140				17.8				66			
BENZO(A)ANTHRACENE	UG/KG	270				220				220				370				53				1000				130			
BENZO(A)PYRENE	UG/KG	250	H			300	H			260	H			480	H			57				470	H			ND			
BENZO(B)FLUORANTHENE	UG/KG	440				460				350				550				66				230				ND			
BENZO(G,H,I)PERYLENE	UG/KG	150				220				280				310				ND				470				ND			
BENZO(K)FLUORANTHENE	UG/KG	160				250				310				560				65				520				ND			
BENZYL BUTYL PHTHALATE	UG/KG	ND				ND				76				1500	E			ND				480	E			380	E		
BERYLLIUM	MG/KG	ND				0.42				ND				ND				ND				0.83	B			ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				59				11000	E			140				67				300				96			
BORON	MG/KG	ND				ND				8.1	B E			ND				ND				57.9	B E			ND			
CADMIUM	MG/KG	ND				0.25				0.62	B E			0.71	B E			0.35	E			2.3	B E			0.37	B E		
CALCIUM	MG/KG	30000	B			2400				4700	B			4280	B			4850	B			7650	B			28300	B		
CARBAZOLE	UG/KG	ND				ND				ND				ND				ND				330				62			
CHROMIUM, TOTAL	MG/KG	7.1	E			8.8	E			13.4	E			7.8	E			8.2	E			7.7	E			10.5	E		
CHRYSENE	UG/KG	330				270				250				530				94				1200				140			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
COBALT	MG/KG	ND				11.9	B			6.1				ND				ND				ND				ND			
COPPER	MG/KG	15.1	B			15.1	B			21.2	B			11.8	B			7.8				194	B E			45.4	B E		
CYANIDE	MG/KG	ND																ND								ND			
DIBENZ(A,H)ANTHRACENE	UG/KG	43				57				ND				ND				ND				ND				ND			
DIBENZOFURAN	UG/KG	45				ND				ND				ND				ND				2700				410			
DIMETHYL PHTHALATE	UG/KG	ND				ND				2500				ND				ND				ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				220				ND				ND				ND				ND			
FLUORANTHENE	UG/KG	620				320				330				490				110				1000				180			
FLUORENE	UG/KG	ND				ND				ND				ND				ND				430				ND			
HMX	UG/KG	ND				ND				ND				ND				ND				6000	W2			ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	150				210				210				330				ND				ND				ND			
IRON	MG/KG	8500	E			14000	E			15900	E			8940	E			8620	E			10100	E			8860	E		

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-001				AUS-0A2D-002				AUS-0A2D-003				AUS-0A2D-004				AUS-0A2D-005				AUS-0A2D-006				AUS-0A2D-007			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
LEAD	MG/KG	56.9	B			49.8	B			45.5	B			ND				ND				33.9	B			ND			
MAGNESIUM	MG/KG	7080	B			896				2760	B			2330	B			1800				697				3670	B		
MANGANESE	MG/KG	238	E			2370	E H			555	E			442	E			421	E			127	E			222	E		
MERCURY	MG/KG	ND				0.08				ND				ND				ND				0.11				ND			
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND				ND				ND						ND			
NAPHTHALENE	UG/KG	ND				ND				ND				ND				ND				2800	H			280			
N-HEXANE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
NICKEL	MG/KG	6.6				8.6				9.7				6				5.7				13	B			9.2			
NITROGLYCERIN	UG/KG																												
OCDD	NG/KG					1360																							
OCDF	NG/KG					23.6																							
PENTACHLOROPHENOL	UG/KG	ND				ND				ND				ND				ND				ND				ND			
PHENANTHRENE	UG/KG	350				80				ND				91				52				6500				980			
PHENOL	UG/KG	ND				ND				ND				100				ND				ND				ND			
PHOSPHORUS, TOTAL (AS P)	MG/KG																												
POTASSIUM	MG/KG	306				307				556				249				275				111				298			
PYRENE	UG/KG	590				380				390				430				89				1900				170			
RDX	UG/KG	ND				ND				ND				ND				ND				76000	H W2			ND			
SELENIUM	MG/KG	2	E			1.6	E			0.83				0.65				0.84				1.6	E			0.47			
SILVER	MG/KG	0.67				0.53				0.59				ND				ND				ND				ND			
SODIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	ND				0.16				ND				0.17				ND				0.25				0.18			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG					86.2																							
TOTAL HpCDFs	NG/KG					17.7																							
TOTAL HxCDDs	NG/KG					12.3																							
TOTAL HxCDFs	NG/KG					6.96																							
TOTAL ORGANIC CARBON	MG/KG																												
TOTAL PeCDDs	NG/KG					0.889																							
TOTAL PeCDFs	NG/KG					0.764																							
TOTAL TCDDs	NG/KG					ND																							
TOTAL TCDFs	NG/KG					ND																							
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	15				29.4				24.4				16				18.9				11.6				13.6			
ZINC	MG/KG	258	B E			45.8	B			99.1	B			48.3	B			31.7				173	B E			39.9			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-008				AUS-0A2D-009				AUS-0A2D-010				AUS-0A2D-011				AUS-0A2D-012				AUS-0A2D-013				AUS-0A2D-014				AUS-0A2D-015			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND				--				ND				ND				ND				ND			
ALL SVOC	UG/KG	--				--				--				--				--				--				--				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
cPAH	UG/KG	375.557	H			955.63	H			529.1	H			ND				612.21	H			ND				419.92	H			ND			
Mammal TEQ	NG/KG																																
Bird TEQ	NG/KG																																
1,2,3,4,6,7,8-HpCDD	NG/KG																																
1,2,3,4,6,7,8-HpCDF	NG/KG																																
1,2,3,4,7,8,9-HpCDF	NG/KG																																
1,2,3,4,7,8-HxCDD	NG/KG																																
1,2,3,4,7,8-HxCDF	NG/KG																																
1,2,3,6,7,8-HxCDD	NG/KG																																
1,2,3,6,7,8-HxCDF	NG/KG																																
1,2,3,7,8,9-HxCDD	NG/KG																																
1,2,3,7,8,9-HxCDF	NG/KG																																
1,2,3,7,8-PeCDD	NG/KG																																
1,2,3,7,8-PeCDF	NG/KG																																
2,3,4,6,7,8-HxCDF	NG/KG																																
2,3,4,7,8-PeCDF	NG/KG																																
2,3,7,8-TCDD	NG/KG																																
2,3,7,8-TCDF	NG/KG																																
2-METHYLNAPHTHALENE	UG/KG	ND				ND				110				ND				ND				ND				ND				67			
ACENAPHTHENE	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND				ND			
ALUMINUM	MG/KG	10100	B E			8760	E			8660	E			7570	E			6120	E			5650	E			6730	E			5890	E		
ANTHRACENE	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
ANTIMONY	MG/KG	ND				ND				0.56	B			ND				0.35				ND				ND				ND			
ARSENIC	MG/KG	14.5	B E H			17.6	B E H			10.1	E H			10.5	E H			14.8	B E H			6.6	H			16.6	B E H			14.2	B E H		
BARIUM	MG/KG	157				202				110				121				302	B			114				119				120			
BENZO(A)ANTHRACENE	UG/KG	ND				410				160				ND				ND				ND				160				ND			
BENZO(A)PYRENE	UG/KG	120				650	H			170				ND				ND				ND				150				ND			
BENZO(B)FLUORANTHENE	UG/KG	120				840				220				ND				ND				ND				190				ND			
BENZO(G,H,I)PERYLENE	UG/KG	120				290				91				ND				ND				ND				85				ND			
BENZO(K)FLUORANTHENE	UG/KG	150				890				200				ND				ND				ND				140				ND			
BENZYL BUTYL PHTHALATE	UG/KG	160				49				250	E			93				84				ND				ND				ND			
BERYLLIUM	MG/KG	0.81	B			0.84	B			ND				ND				ND				ND				ND				0.61	B		
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				89				780				230				ND				ND				ND				ND			
BORON	MG/KG	ND				ND				7.5	B E			4.5	E			5	B E			2.6	E			2.1	E			ND			
CADMIUM	MG/KG	ND				0.33	E			2.2	B E			1.3	B E			1.2	B E			ND				ND				0.25			
CALCIUM	MG/KG	5190	B			25900	B			89200	B			11100	B			11900	B			22100	B			2830				3780	B		
CARBAZOLE	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
CHROMIUM, TOTAL	MG/KG	14.6	B E			12	E			10.5	E			11.1	E			33	B E			9	E			10.2	E			14.7	B E		
CHRYSENE	UG/KG	57				730				300				ND				60				ND				220				ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND				ND				ND				ND				ND			
COBALT	MG/KG	12.3	B			12.2	B			ND				6.4				11.5	B			5.7				6.9				7.3			
COPPER	MG/KG	14.1	B			10	B			32.1	B E			35.7	B E			18.7	B			10.4	B			12.1	B			10.2	B		
CYANIDE	MG/KG	ND				ND				ND																							
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				140				ND				ND				ND				ND				ND				ND			
DIBENZOFURAN	UG/KG	ND				ND				110				ND				ND				ND				ND				ND			
DIMETHYL PHTHALATE	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				69				67				ND				ND				ND				ND			
FLUORANTHENE	UG/KG	ND				280				370				ND				85				57				390				ND			
FLUORENE	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
HMX	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	110				310				88				ND				ND				ND				83				ND			
IRON	MG/KG	18700	E			22600	B E			13300	E			13900	E			17600	E			11100	E			18700	E			19500	E		

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-008				AUS-0A2D-009				AUS-0A2D-010				AUS-0A2D-011				AUS-0A2D-012				AUS-0A2D-013				AUS-0A2D-014				AUS-0A2D-015			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
LEAD	MG/KG	35.3	B			50	B			63.6	B			32.8	B			42.7	B			ND				22.1				22.5			
MAGNESIUM	MG/KG	1850	B			3420	B			5230	B			2120	B			2380	B			2970	B			1480				1690			
MANGANESE	MG/KG	526	E			1150	E			363	E			2200	E H			1790	E			912	E			481	E			415	E		
MERCURY	MG/KG	ND				ND				0.09				ND				ND				0.19	E			ND				0.07			
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND				ND				ND						ND				ND		
NAPHTHALENE	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
N-HEXANE	UG/KG			ND				ND				ND				ND				ND				ND				ND				ND	
NICKEL	MG/KG	21	B			12.1				15.5	B			11.8				14.2	B			10.1				9.9				13.8	B		
NITROGLYCERIN	UG/KG									ND																							
OCDD	NG/KG																																
OCDF	NG/KG																																
PENTACHLOROPHENOL	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
PHENANTHRENE	UG/KG	ND				ND				260				66				ND				ND				180				58			
PHENOL	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
PHOSPHORUS, TOTAL (AS P)	MG/KG															891				801				272				227					
POTASSIUM	MG/KG	446				372				977	B			452				421				470				358				325			
PYRENE	UG/KG	ND				620				410				74				92				54				280				ND			
RDX	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND			
SELENIUM	MG/KG	0.88				1.3	E			1.2	E			1.7	E			2.2	E			ND				ND				ND			
SILVER	MG/KG	ND				ND				0.29				0.74	B			40.3	B E W1 W2			4	B E			1.4	B			0.45			
SODIUM	MG/KG	ND				ND				448	B			ND				ND				ND				ND				336	B		
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	ND				0.15				ND				ND				ND				ND				ND				0.19			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND				ND				ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG																																
TOTAL HpCDFs	NG/KG																																
TOTAL HxCDDs	NG/KG																																
TOTAL HxCDFs	NG/KG																																
TOTAL ORGANIC CARBON	MG/KG																					27400											
TOTAL PeCDDs	NG/KG																																
TOTAL PeCDFs	NG/KG																																
TOTAL TCDDs	NG/KG																																
TOTAL TCDFs	NG/KG																																
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				10				ND				ND				ND				ND				ND			
VANADIUM	MG/KG	29.9				32.3	B			20.4				20.2				28.6				16.8				36.7	B			27.1			
ZINC	MG/KG	112	B			50.1	B			422	B E			572	B E			491	B E			163	B E			99.3	B			116	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-016				AUS-0A2D-017				AUS-0A2D-018				AUS-0A2D-019				AUS-0A2D-020				AUS-0A2D-021				AUS-0A2D-022			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALL SVOC	UG/KG	--												ND				--				--				--			
ALL EXPLOSIVES	UG/KG	ND								ND				ND				ND				ND				--			
cPAH	UG/KG	373.29	H											ND				ND				556.42	H			7219.5	H		
Mammal TEQ	NG/KG					0.58				1.75	E																		
Bird TEQ	NG/KG					0.58				1.22	E																		
1,2,3,4,6,7,8-HpCDD	NG/KG					8.8				50.6																			
1,2,3,4,6,7,8-HpCDF	NG/KG					1.04				0.73																			
1,2,3,4,7,8,9-HpCDF	NG/KG					ND				ND																			
1,2,3,4,7,8-HxCDD	NG/KG					0.214				0.728																			
1,2,3,4,7,8-HxCDF	NG/KG					0.103				0.0937																			
1,2,3,6,7,8-HxCDD	NG/KG					0.873				1.09																			
1,2,3,6,7,8-HxCDF	NG/KG					0.0691				0.083																			
1,2,3,7,8,9-HxCDD	NG/KG					0.505				1.2																			
1,2,3,7,8,9-HxCDF	NG/KG					ND				ND																			
1,2,3,7,8-PeCDD	NG/KG					0.176				0.411																			
1,2,3,7,8-PeCDF	NG/KG					ND				0.0958																			
2,3,4,6,7,8-HxCDF	NG/KG					0.0942				0.0894																			
2,3,4,7,8-PeCDF	NG/KG					ND				0.109																			
2,3,7,8-TCDD	NG/KG					0.0511				ND																			
2,3,7,8-TCDF	NG/KG					0.182				ND																			
2-METHYLNAPHTHALENE	UG/KG	ND												ND				ND				ND				50			
ACENAPHTHENE	UG/KG	ND												ND				ND				ND				360			
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALUMINUM	MG/KG	5320	E			7560	E			7480	E			7560	E			6770	E			8330	E			19100	B E		
ANTHRACENE	UG/KG	ND												ND				71				57				950			
ANTIMONY	MG/KG	0.33				0.33				ND				ND				ND				ND				0.36			
ARSENIC	MG/KG	11.2	E H			48.9	B E H W1 W2			6.6	H			7.7	H			6.4	H			7.9	H			30.3	B E H W1 W2		
BARIUM	MG/KG	97.7				78.3				91.7				92.2				117				121				166			
BENZO(A)ANTHRACENE	UG/KG	68												ND				ND				260				4800	E H W1 W2		
BENZO(A)PYRENE	UG/KG	75												ND				ND				220	H			4800	E H		
BENZO(B)FLUORANTHENE	UG/KG	100												ND				ND				410				5200	E H W1 W2		
BENZO(G,H,I)PERYLENE	UG/KG	ND												ND				ND				110				1700			
BENZO(K)FLUORANTHENE	UG/KG	89												ND				ND				110				4400			
BENZYL BUTYL PHTHALATE	UG/KG	ND												ND				ND				ND				ND			
BERYLLIUM	MG/KG	0.45				0.35				ND				ND				0.57	B			0.46				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	53												ND				ND				67				1600	E		
BORON	MG/KG	ND				ND				4.4	E			3.1	E			3.5	E			74.2	B E			2460	B E		
CADMIUM	MG/KG	0.39	B E			1.3	B E			ND				ND				ND				0.14				2.3	B E		
CALCIUM	MG/KG	8690	B			7780	B			3760	B			3490	B			7890	B			3960	B			66100	B		
CARBAZOLE	UG/KG	ND												ND				ND				ND				620	W1 W2		
CHROMIUM, TOTAL	MG/KG	9.3	E			10.3	E			10.9	E			10.5	E			10.2	E			9.4	E			26	B E		
CHRYSENE	UG/KG	100												ND				ND				320				5500	E		
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND																ND					
COBALT	MG/KG	ND				ND				6.7				7				8.6				ND				4.8			
COPPER	MG/KG	10.8	B			26.6	B			7.4				8				13.5	B			12.2	B			377	B E		
CYANIDE	MG/KG																									ND			
DIBENZ(A,H)ANTHRACENE	UG/KG	ND												ND				ND				ND				1200	H		
DIBENZOFURAN	UG/KG	ND												ND				53				ND				160			
DIMETHYL PHTHALATE	UG/KG	ND												ND				ND				ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND												ND				ND				ND				140			
FLUORANTHENE	UG/KG	120												ND				ND				430				7100			
FLUORENE	UG/KG	ND												ND				ND				ND				340			
HMX	UG/KG	ND								ND				ND				ND				ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND												ND				ND				130				1700			
IRON	MG/KG	11000	E			10800	E			13300	E			14200	E			14300	E			10400	E			13300	E		

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-016				AUS-0A2D-017				AUS-0A2D-018				AUS-0A2D-019				AUS-0A2D-020				AUS-0A2D-021				AUS-0A2D-022			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
LEAD	MG/KG	25.6				32.6	B			ND				ND				ND				15.7				32.6	B		
MAGNESIUM	MG/KG	2350	B			4650	B			2140	B			2000	B			2540	B			2190	B			5630	B		
MANGANESE	MG/KG	514	E			329	E			440	E			461	E			420	E			418	E			976	E		
MERCURY	MG/KG	0.08				ND				ND				ND				ND				ND				0.07			
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND				ND				ND						ND			
NAPHTHALENE	UG/KG	ND												ND				ND				ND				50			
N-HEXANE	UG/KG			ND				ND				ND				ND				ND						ND			
NICKEL	MG/KG	8.9				13.9	B			10				10.4				14.4	B			8.7				13.1	B		
NITROGLYCERIN	UG/KG																									5300	W2		
OCDD	NG/KG					549				4410																			
OCDF	NG/KG					0.597				1.88																			
PENTACHLOROPHENOL	UG/KG	ND												ND				ND				ND				ND			
PHENANTHRENE	UG/KG	61												ND				56				ND				3200			
PHENOL	UG/KG	ND												ND				ND				ND				ND			
PHOSPHORUS, TOTAL (AS P)	MG/KG																												
POTASSIUM	MG/KG	744	B			444				613				500				395				629				1420	B		
PYRENE	UG/KG	110												ND				ND				360				6800			
RDX	UG/KG	ND								ND				ND				ND				ND				ND			
SELENIUM	MG/KG	0.97				0.83				1				0.82				0.65				0.94				1.2	E		
SILVER	MG/KG	ND				ND				ND				ND				ND				0.46				0.49			
SODIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	0.2				0.16				ND				ND				ND				ND				ND			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG					19.2				114																			
TOTAL HpCDFs	NG/KG					1.72				1.74																			
TOTAL HxCDDs	NG/KG					7.4				12.7																			
TOTAL HxCDFs	NG/KG					1.26				0.792																			
TOTAL ORGANIC CARBON	MG/KG																												
TOTAL PeCDDs	NG/KG					0.682				2.18																			
TOTAL PeCDFs	NG/KG					1.01				0.641																			
TOTAL TCDDs	NG/KG					0.244				0.564																			
TOTAL TCDFs	NG/KG					1.31				ND																			
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	15.9				14.7				17.8				19.6				17.2				16.3				19.2			
ZINC	MG/KG	131	B E			108	B			37.1				35.4				38.7				62.1	B			543	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-023				AUS-0A2D-024				AUS-0A2D-025				AUS-0A2D-026				AUS-0A2D-027				AUS-0A2D-028				AUS-0A2D-029			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			--				ND				ND				ND				ND				ND				--		
ALL SVOC	UG/KG	--				--				--				--												--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND								ND			
cPAH	UG/KG	405.68	H			318.065	H			325.06	H			344.88	H											ND			
Mammal TEQ	NG/KG																					27.9	E H						
Bird TEQ	NG/KG																					50.4	E H						
1,2,3,4,6,7,8-HpCDD	NG/KG																					21.1							
1,2,3,4,6,7,8-HpCDF	NG/KG																					72.3							
1,2,3,4,7,8,9-HpCDF	NG/KG																					11.9							
1,2,3,4,7,8-HxCDD	NG/KG																					1.88							
1,2,3,4,7,8-HxCDF	NG/KG																					25							
1,2,3,6,7,8-HxCDD	NG/KG																					3.22							
1,2,3,6,7,8-HxCDF	NG/KG																					23.3							
1,2,3,7,8,9-HxCDD	NG/KG																					2.53							
1,2,3,7,8,9-HxCDF	NG/KG																					7.83							
1,2,3,7,8-PeCDD	NG/KG																					2.61							
1,2,3,7,8-PeCDF	NG/KG																					16.1							
2,3,4,6,7,8-HxCDF	NG/KG																					24.4							
2,3,4,7,8-PeCDF	NG/KG																					25.9							
2,3,7,8-TCDD	NG/KG																					0.595							
2,3,7,8-TCDF	NG/KG																					10.3							
2-METHYLNAPHTHALENE	UG/KG	ND				91				ND				ND												ND			
ACENAPHTHENE	UG/KG	ND				ND				ND				ND												ND			
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND				34	
ALUMINUM	MG/KG	4250	E			6550	E			4150	E			4220	E			3140	E			13600	B E			6340	E		
ANTHRACENE	UG/KG	ND				ND				ND				ND												ND			
ANTIMONY	MG/KG	ND				ND				2.6	B			ND				2.5	B			5.3	B E W1 W2			ND			
ARSENIC	MG/KG	3.2	H			10.4	E H			11.6	E H			8.4	H			34.9	B E H W1 W2			7.4	H			7.2	H		
BARIUM	MG/KG	95.2				145				63.4				112				59.3				179				109			
BENZO(A)ANTHRACENE	UG/KG	140				ND				82				83												ND			
BENZO(A)PYRENE	UG/KG	130				51				96				96												ND			
BENZO(B)FLUORANTHENE	UG/KG	160				67				140				180												ND			
BENZO(G,H,I)PERYLENE	UG/KG	99				ND				93				62												ND			
BENZO(K)FLUORANTHENE	UG/KG	130				ND				64				58												ND			
BENZYL BUTYL PHTHALATE	UG/KG	ND				620	E			5900	E			ND												ND			
BERYLLIUM	MG/KG	0.34				ND				ND				0.26				ND				ND				0.26			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	70				73				210				ND												67			
BORON	MG/KG	ND				3.2	E			126	B E			ND				15	B E			326	B E			ND			
CADMIUM	MG/KG	ND				ND				0.95	B E			ND				0.47	B E			1.9	B E			ND			
CALCIUM	MG/KG	727				4720	B			133000	B			1310				94300	B			54600	B			982			
CARBAZOLE	UG/KG	ND				ND				ND				ND												ND			
CHROMIUM, TOTAL	MG/KG	5.9	E			7.5	E			10.6	E			6.8	E			6.3	E			48.3	B E W1 W2			8.7	E		
CHRYSENE	UG/KG	180				ND				120				100												ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND								ND				ND								ND	
COBALT	MG/KG	ND				4.7				ND				ND				ND				3.9				ND			
COPPER	MG/KG	12.2	B			6.8				51.8	B E			3.6				44.3	B E			937	B E			6.3			
CYANIDE	MG/KG	ND																				ND							
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND				ND												ND			
DIBENZOFURAN	UG/KG	ND				ND				63				ND												ND			
DIMETHYL PHTHALATE	UG/KG	ND				ND				ND				ND												ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				ND				ND												ND			
FLUORANTHENE	UG/KG	330				ND				150				100												ND			
FLUORENE	UG/KG	ND				ND				ND				ND												ND			
HMX	UG/KG	ND				ND				ND				ND				ND								ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	92				ND				61				69												ND			
IRON	MG/KG	6250	E			13100	E			6550	E			9080	E			6720	E			14100	E			13000	E		

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-023				AUS-0A2D-024				AUS-0A2D-025				AUS-0A2D-026				AUS-0A2D-027				AUS-0A2D-028				AUS-0A2D-029			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
LEAD	MG/KG	16.4				ND				250	B			11.1				308	B			372	B			16.6			
MAGNESIUM	MG/KG	636				2760	B			40800	B			796				3010	B			11000	B			853			
MANGANESE	MG/KG	145	E			547	E			248	E			1500	E			498	E			862	E			251	E		
MERCURY	MG/KG	ND				ND				ND				ND				0.11				ND				ND			
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
NAPHTHALENE	UG/KG	ND				ND				ND				ND												ND			
N-HEXANE	UG/KG			16				ND				ND				ND				ND				ND				ND	
NICKEL	MG/KG	3.8				5.8				7.8				5				6.8				24.3	B			5.5			
NITROGLYCERIN	UG/KG	ND				ND				ND				ND				ND								ND			
OCDD	NG/KG																					457							
OCDF	NG/KG																					48.9							
PENTACHLOROPHENOL	UG/KG	ND				ND				92	W1 W2			ND												ND			
PHENANTHRENE	UG/KG	140				ND				150				ND												ND			
PHENOL	UG/KG	ND				ND				ND				ND												ND			
PHOSPHORUS, TOTAL (AS P)	MG/KG																												
POTASSIUM	MG/KG	213				199				368				152				246				2240	B			382			
PYRENE	UG/KG	270				ND				220				110												ND			
RDX	UG/KG	ND				ND				ND				ND				ND								ND			
SELENIUM	MG/KG	0.96				ND				0.26				1.2	E			ND				1.1	E			1			
SILVER	MG/KG	0.31				0.39				ND				0.38				ND				1.3	B			0.34			
SODIUM	MG/KG	ND				ND				ND				ND				ND				656	B			ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG																					41.3							
TOTAL HpCDFs	NG/KG																					122							
TOTAL HxCDDs	NG/KG																					37.2							
TOTAL HxCDFs	NG/KG																					216							
TOTAL ORGANIC CARBON	MG/KG																												
TOTAL PeCDDs	NG/KG																					34.1							
TOTAL PeCDFs	NG/KG																					269							
TOTAL TCDDs	NG/KG																					31							
TOTAL TCDFs	NG/KG																					296							
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	19.7				18.7				5.5				16.8				8.3				17.5				20.7			
ZINC	MG/KG	32.6				23.3				375	B E			20.7				1060	B E			912	B E			36.8			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-030				AUS-0A2D-031				AUS-0A2D-032				AUS-0A2D-033				AUS-0A2D-034				AUS-0A2D-035				AUS-0A2D-036			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				--				ND				--				ND	
ALL SVOC	UG/KG	--				--								--				ND											
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND											
cPAH	UG/KG	619.56	H			352.7	H							5018.2	H			ND											
Mammal TEQ	NG/KG																					2.09	E			0.35			
Bird TEQ	NG/KG																					2.34	E			0.23			
1,2,3,4,6,7,8-HpCDD	NG/KG																					31.7				9.08			
1,2,3,4,6,7,8-HpCDF	NG/KG																					2.61				0.64			
1,2,3,4,7,8,9-HpCDF	NG/KG																					0.287				ND			
1,2,3,4,7,8-HxCDD	NG/KG																					0.714				0.143			
1,2,3,4,7,8-HxCDF	NG/KG																					0.535				0.0985			
1,2,3,6,7,8-HxCDD	NG/KG																					1.21				0.333			
1,2,3,6,7,8-HxCDF	NG/KG																					0.492				0.0716			
1,2,3,7,8,9-HxCDD	NG/KG																					1.15				0.208			
1,2,3,7,8,9-HxCDF	NG/KG																					0.183				ND			
1,2,3,7,8-PeCDD	NG/KG																					0.527				0.11			
1,2,3,7,8-PeCDF	NG/KG																					0.429				ND			
2,3,4,6,7,8-HxCDF	NG/KG																					0.535				ND			
2,3,4,7,8-PeCDF	NG/KG																					0.642				ND			
2,3,7,8-TCDD	NG/KG																					0.189				ND			
2,3,7,8-TCDF	NG/KG																					0.372				ND			
2-METHYLNAPHTHALENE	UG/KG	ND				ND								ND				ND											
ACENAPHTHENE	UG/KG	ND				ND								ND				ND											
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALUMINUM	MG/KG	8350	E			7410	E			6240	E			7230	E			11400	B E			8930	E			5640	E		
ANTHRACENE	UG/KG	ND				ND								46				ND											
ANTIMONY	MG/KG	ND								ND				ND				ND				0.78	B			0.86	B		
ARSENIC	MG/KG	14.3	B E H			8.7	H			5.2	H			8.5	H			9.3	E H			7.5	H			4.7	H		
BARIUM	MG/KG	159				120				89.4				138				44.8				227				271	B		
BENZO(A)ANTHRACENE	UG/KG	130				120								2700	H W1 W2			ND											
BENZO(A)PYRENE	UG/KG	210				120								3100	H			ND											
BENZO(B)FLUORANTHENE	UG/KG	250				120								4200	E H			ND											
BENZO(G,H,I)PERYLENE	UG/KG	140				70								2300				ND											
BENZO(K)FLUORANTHENE	UG/KG	140				160								3500				ND											
BENZYL BUTYL PHTHALATE	UG/KG	ND				ND								54				ND											
BERYLLIUM	MG/KG	1.1	B			ND				0.47				0.5	B			0.5	B			0.64	B			ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	110				ND								49				ND											
BORON	MG/KG	ND				3.9	E			ND				165	B E			9.8	B E			103	B E			ND			
CADMIUM	MG/KG	0.29	E			ND				ND				0.57	B E			ND				ND				ND			
CALCIUM	MG/KG	6350	B			28900	B			2780				4990	B			27300	B			38900	B			3340	B		
CARBAZOLE	UG/KG	ND				ND								65				ND											
CHROMIUM, TOTAL	MG/KG	14.1	B E			10.7	E			7.4	E			11.1	E			13.2	E			15.5	B E			96.8	B E W1 W2		
CHRYSENE	UG/KG	160				200								3200				ND											
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND																ND	
COBALT	MG/KG	15	B			7.9				ND				5.7				ND				6				ND			
COPPER	MG/KG	20.1	B			8.9				7.7				9.1				6.8				36.7	B E			8.2			
CYANIDE	MG/KG													ND				ND											
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND								980	H			ND											
DIBENZOFURAN	UG/KG	ND				ND								ND				ND											
DIMETHYL PHTHALATE	UG/KG	ND				ND								ND				ND											
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND								ND				ND											
FLUORANTHENE	UG/KG	150				300								2500				ND											
FLUORENE	UG/KG	ND				ND								ND				ND											
HMX	UG/KG	ND				ND				ND				ND				ND											
INDENO(1,2,3-C,D)PYRENE	UG/KG	150				69								2100				ND											
IRON	MG/KG	22000	B E			16800	E			10500	E			12000	E			16700	E			14900	E			10900	E		

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-030				AUS-0A2D-031				AUS-0A2D-032				AUS-0A2D-033				AUS-0A2D-034				AUS-0A2D-035				AUS-0A2D-036			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
LEAD	MG/KG	35.2	B			18.4				14.1				18.5				14.9				98.1	B			20.5			
MAGNESIUM	MG/KG	2070	B			11500	B			1100				2200	B			13900	B			12000	B			1810			
MANGANESE	MG/KG	698	E			1290	E			416	E			662	E			236	E			541	E			500	E		
MERCURY	MG/KG	ND				ND				ND				ND				ND				ND				ND			
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
NAPHTHALENE	UG/KG	ND				ND								ND				ND											
N-HEXANE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
NICKEL	MG/KG	16.6	B			8.2				8				7.8				6.5				12.6	B			8			
NITROGLYCERIN	UG/KG													ND				ND											
OCDD	NG/KG																					1700				534			
OCDF	NG/KG																					5.53				1.54			
PENTACHLOROPHENOL	UG/KG	ND				ND								ND				ND											
PHENANTHRENE	UG/KG	ND				180								110				ND											
PHENOL	UG/KG	ND				ND								ND				ND											
PHOSPHORUS, TOTAL (AS P)	MG/KG																												
POTASSIUM	MG/KG	509				330				462				1060	B			550				767	B			247			
PYRENE	UG/KG	180				240								4500				ND											
RDX	UG/KG	ND				ND				ND				ND				ND											
SELENIUM	MG/KG	1.7	E			0.76				0.79				0.81				0.97				0.51				ND			
SILVER	MG/KG	1.7	B			ND				ND				ND				ND				ND				0.28			
SODIUM	MG/KG	ND				ND				ND				ND				ND				390	B			ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				3				ND				ND				ND	
THALLIUM	MG/KG	ND				ND				ND				ND				ND				ND				0.16			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG																					68.6				20.4			
TOTAL HpCDFs	NG/KG																					6.79				1.58			
TOTAL HxCDDs	NG/KG																					7.99				2.07			
TOTAL HxCDFs	NG/KG																					5.75				0.528			
TOTAL ORGANIC CARBON	MG/KG	87000																											
TOTAL PeCDDs	NG/KG																					2.37				0.302			
TOTAL PeCDFs	NG/KG																					4.68				0.201			
TOTAL TCDDs	NG/KG																					0.834				ND			
TOTAL TCDFs	NG/KG																					4.96				0.0783			
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				3				ND	
VANADIUM	MG/KG	43.7	B			26.9				18.2				20.3				25.3				19.7				16.6			
ZINC	MG/KG	172	B E			34.8				38.9				52.5	B			52	B			269	B E			47.3	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-037				AUS-0A2D-038				AUS-0A2D-039				AUS-0A2D-040				AUS-0A2D-041				AUS-0A2D-042				AUS-0A2D-043			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALL SVOC	UG/KG	--				ND				ND				ND				ND				ND				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND				ND				ND			
cPAH	UG/KG	273.411	H							ND				ND				ND				ND				ND			
Mammal TEQ	NG/KG																												
Bird TEQ	NG/KG																												
1,2,3,4,6,7,8-HpCDD	NG/KG																												
1,2,3,4,6,7,8-HpCDF	NG/KG																												
1,2,3,4,7,8,9-HpCDF	NG/KG																												
1,2,3,4,7,8-HxCDD	NG/KG																												
1,2,3,4,7,8-HxCDF	NG/KG																												
1,2,3,6,7,8-HxCDD	NG/KG																												
1,2,3,6,7,8-HxCDF	NG/KG																												
1,2,3,7,8,9-HxCDD	NG/KG																												
1,2,3,7,8,9-HxCDF	NG/KG																												
1,2,3,7,8-PeCDD	NG/KG																												
1,2,3,7,8-PeCDF	NG/KG																												
2,3,4,6,7,8-HxCDF	NG/KG																												
2,3,4,7,8-PeCDF	NG/KG																												
2,3,7,8-TCDD	NG/KG																												
2,3,7,8-TCDF	NG/KG																												
2-METHYLNAPHTHALENE	UG/KG	110								ND				ND				ND				ND				ND			
ACENAPHTHENE	UG/KG	ND								ND				ND				ND				ND				ND			
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALUMINUM	MG/KG	4980	E			5450	E			5370	E			5950	E			5860	E			6240	E			6410	E		
ANTHRACENE	UG/KG	ND								ND				ND				ND				ND				ND			
ANTIMONY	MG/KG	ND				ND				0.82	B			ND								ND				ND			
ARSENIC	MG/KG	4.4	H			4.3	H			7.4	H			3.9	H			15.5	B E H			3.8	H			8.8	H		
BARIUM	MG/KG	85.7				92.5				88.2				77.7				140				81.1				126			
BENZO(A)ANTHRACENE	UG/KG	47								ND				ND				ND				ND				ND			
BENZO(A)PYRENE	UG/KG	43								ND				ND				ND				ND				ND			
BENZO(B)FLUORANTHENE	UG/KG	92								ND				ND				ND				ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND								ND				ND				ND				ND				ND			
BENZO(K)FLUORANTHENE	UG/KG	ND								ND				ND				ND				ND				ND			
BENZYL BUTYL PHTHALATE	UG/KG	51								ND				ND				ND				ND				ND			
BERYLLIUM	MG/KG	ND				0.42				0.53	B			0.38				1.1	B			0.42				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	62								ND				ND				ND				ND				250			
BORON	MG/KG	ND				ND				ND				ND				ND				ND				ND			
CADMIUM	MG/KG	ND				ND				ND				ND				0.51	B E			ND				ND			
CALCIUM	MG/KG	17500	B			3090	B			20700	B			1520				1310				1790				2720			
CARBAZOLE	UG/KG	ND								ND				ND				ND				ND				ND			
CHROMIUM, TOTAL	MG/KG	8.5	E			7.8	E			32.8	B E			8.2	E			13.8	B E			8.9	E			9.8	E		
CHRYSENE	UG/KG	61								ND				ND				ND				ND				ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
COBALT	MG/KG	ND				ND				5.4				ND				10.1	B			5.9				7.1			
COPPER	MG/KG	9.6	B			9				7.8				9.3				11	B			7.3				9.5	B		
CYANIDE	MG/KG																												
DIBENZ(A,H)ANTHRACENE	UG/KG	ND								ND				ND				ND				ND				ND			
DIBENZOFURAN	UG/KG	55								ND				ND				ND				ND				ND			
DIMETHYL PHTHALATE	UG/KG	ND								ND				ND				ND				ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND								ND				ND				ND				ND				ND			
FLUORANTHENE	UG/KG	92								ND				ND				ND				ND				ND			
FLUORENE	UG/KG	ND								ND				ND				ND				ND				ND			
HMX	UG/KG	ND				ND				ND				ND				ND				ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND								ND				ND				ND				ND				ND			
IRON	MG/KG	9280	E			9040	E			16400	E			10200	E			22100	B E			8860	E			15200	E		

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-037				AUS-0A2D-038				AUS-0A2D-039				AUS-0A2D-040				AUS-0A2D-041				AUS-0A2D-042				AUS-0A2D-043			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
LEAD	MG/KG	14.7				22.9				56	B			15.8				35.7	B			16.5				ND			
MAGNESIUM	MG/KG	2830	B			1280				4280	B			1510				739				1110				1740			
MANGANESE	MG/KG	350	E			442	E			478	E			247	E			589	E			293	E			606	E		
MERCURY	MG/KG	ND				0.08				0.07				ND				0.1				0.09				0.06			
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
NAPHTHALENE	UG/KG	ND								ND				ND				ND				ND				ND			
N-HEXANE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
NICKEL	MG/KG	11.5				7.3				9				7.8				11.6				8.7				12			
NITROGLYCERIN	UG/KG																												
OCDD	NG/KG																												
OCDF	NG/KG																												
PENTACHLOROPHENOL	UG/KG	ND								ND				ND				ND				ND				ND			
PHENANTHRENE	UG/KG	140								ND				ND				ND				ND				ND			
PHENOL	UG/KG	ND								ND				ND				ND				ND				ND			
PHOSPHORUS, TOTAL (AS P)	MG/KG																												
POTASSIUM	MG/KG	335				ND				ND				431				322				307				367			
PYRENE	UG/KG	93								ND				ND				ND				ND				ND			
RDX	UG/KG	ND				ND				ND				ND				ND				ND				ND			
SELENIUM	MG/KG	ND				1.1	E			0.87				1				1.4	E			0.87				ND			
SILVER	MG/KG	0.55				ND				ND				ND				0.35				ND				0.28			
SODIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	ND				0.26				ND				ND				ND				ND				ND			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG																												
TOTAL HpCDFs	NG/KG																												
TOTAL HxCDDs	NG/KG																												
TOTAL HxCDFs	NG/KG																												
TOTAL ORGANIC CARBON	MG/KG																												
TOTAL PeCDDs	NG/KG																												
TOTAL PeCDFs	NG/KG																												
TOTAL TCDDs	NG/KG																												
TOTAL TCDFs	NG/KG																												
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	13.6				15.5				20.7				18.4				46.3	B E			17.9				21			
ZINC	MG/KG	98	B			35.5				39.9				28.8				140	B E			46.9	B			38.7			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-045				AUS-0A2D-W01								AUS-0A2D-W02								AUS-0A2D-W03						AUS-0A2D-W04							
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**8 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**6 ft**	**CE**	**16 ft**	**CE**
ALL VOC	UG/KG			ND				--		--		--				ND		--		ND				--		--				ND		ND		ND	
ALL SVOC	UG/KG	--				--								--								--						--							
ALL EXPLOSIVES	UG/KG	ND				ND								ND								ND						ND							
cPAH	UG/KG	509.3	H			ND								299.242	H							ND						ND							
Mammal TEQ	NG/KG																																		
Bird TEQ	NG/KG																																		
1,2,3,4,6,7,8-HpCDD	NG/KG																																		
1,2,3,4,6,7,8-HpCDF	NG/KG																																		
1,2,3,4,7,8,9-HpCDF	NG/KG																																		
1,2,3,4,7,8-HxCDD	NG/KG																																		
1,2,3,4,7,8-HxCDF	NG/KG																																		
1,2,3,6,7,8-HxCDD	NG/KG																																		
1,2,3,6,7,8-HxCDF	NG/KG																																		
1,2,3,7,8,9-HxCDD	NG/KG																																		
1,2,3,7,8,9-HxCDF	NG/KG																																		
1,2,3,7,8-PeCDD	NG/KG																																		
1,2,3,7,8-PeCDF	NG/KG																																		
2,3,4,6,7,8-HxCDF	NG/KG																																		
2,3,4,7,8-PeCDF	NG/KG																																		
2,3,7,8-TCDD	NG/KG																																		
2,3,7,8-TCDF	NG/KG																																		
2-METHYLNAPHTHALENE	UG/KG	ND				ND								ND								ND						ND							
ACENAPHTHENE	UG/KG	ND				ND								ND								ND						ND							
ACETONE	UG/KG			ND				ND		ND		ND				ND		ND		ND				ND		ND				ND		ND		ND	
ALUMINUM	MG/KG	7200	E			7560	E							11800	B E							5400	E					7470	E						
ANTHRACENE	UG/KG	ND				ND								ND								ND						ND							
ANTIMONY	MG/KG	ND				ND								ND								ND						ND							
ARSENIC	MG/KG	5.4	H			7	H							8.2	H							7.6	H					9.5	E H						
BARIUM	MG/KG	88.5				145								52								135						108							
BENZO(A)ANTHRACENE	UG/KG	190				ND								ND								ND						ND							
BENZO(A)PYRENE	UG/KG	220	H			ND								42								ND						ND							
BENZO(B)FLUORANTHENE	UG/KG	280				ND								47								ND						ND							
BENZO(G,H,I)PERYLENE	UG/KG	150				ND								ND								ND						ND							
BENZO(K)FLUORANTHENE	UG/KG	300				ND								50								ND						ND							
BENZYL BUTYL PHTHALATE	UG/KG	ND				54								ND								ND						ND							
BERYLLIUM	MG/KG	ND				ND								ND								0.46						ND							
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				140								45								110						45							
BORON	MG/KG	ND				3.5	E							ND								ND						3.8	E						
CADMIUM	MG/KG	ND				ND								ND								ND						ND							
CALCIUM	MG/KG	1790				2670								1310								1960						3690	B						
CARBAZOLE	UG/KG	ND				ND								ND								ND						ND							
CHROMIUM, TOTAL	MG/KG	8.6	E			12.1	E							14.6	B E							9.4	E					10.4	E						
CHRYSENE	UG/KG	300				ND								42								ND						ND							
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND		220		200				ND		19		ND				ND		40				ND		ND		ND	
COBALT	MG/KG	ND				9								ND								ND						ND							
COPPER	MG/KG	7.9				10.6	B							12	B							7.5						19.9	B						
CYANIDE	MG/KG					ND								0.88	B													ND							
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND								ND								ND						ND							
DIBENZOFURAN	UG/KG	ND				ND								ND								ND						ND							
DIMETHYL PHTHALATE	UG/KG	ND				ND								ND								ND						ND							
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND								ND								ND						ND							
FLUORANTHENE	UG/KG	270				ND								ND								ND						ND							
FLUORENE	UG/KG	ND				ND								ND								ND						ND							
HMX	UG/KG	ND				ND								ND								ND						ND							
INDENO(1,2,3-C,D)PYRENE	UG/KG	140				ND								ND								ND						ND							
IRON	MG/KG	11800	E			16600	E							16900	E							11600	E					14500	E						

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-045				AUS-0A2D-W01								AUS-0A2D-W02								AUS-0A2D-W03						AUS-0A2D-W04							
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**8 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**6 ft**	**CE**	**16 ft**	**CE**
LEAD	MG/KG	13.8				12.2								12.3								21.6						15							
MAGNESIUM	MG/KG	1330				2010	B							2070	B							1100						2300	B						
MANGANESE	MG/KG	453	E			553	E							154	E							1180	E					434	E						
MERCURY	MG/KG	ND				ND								0.1								0.06						0.06							
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND		ND		ND				ND		ND		ND				ND		1200				ND		ND		ND	
NAPHTHALENE	UG/KG	ND				ND								ND								ND						ND							
N-HEXANE	UG/KG			ND				ND		ND		ND				ND		ND		ND				ND		ND				ND		ND		ND	
NICKEL	MG/KG	5.9				15.6	B							7.1								8.3						6.6							
NITROGLYCERIN	UG/KG					ND								ND														ND							
OCDD	NG/KG																																		
OCDF	NG/KG																																		
PENTACHLOROPHENOL	UG/KG	ND				ND								ND								ND						ND							
PHENANTHRENE	UG/KG	ND				ND								ND								130						ND							
PHENOL	UG/KG	ND				ND								ND								ND						ND							
PHOSPHORUS, TOTAL (AS P)	MG/KG																																		
POTASSIUM	MG/KG	325				496								496								260						333							
PYRENE	UG/KG	220				ND								ND								ND						ND							
RDX	UG/KG	ND				ND								ND								ND						ND							
SELENIUM	MG/KG	0.5				ND								0.47								1.1	E					0.82							
SILVER	MG/KG	0.48				ND								4	B E							ND						0.23							
SODIUM	MG/KG	134	B			ND								566	B							ND						ND							
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND		ND		ND				ND		ND		ND				23		810	W1 W2			ND		ND		ND	
THALLIUM	MG/KG	ND				ND								ND								ND						ND							
TOLUENE	UG/KG			ND				ND		ND		ND				ND		ND		ND				ND		ND				ND		ND		ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND		230		200				ND		20		ND				ND		42				ND		ND		ND	
TOTAL HpCDDs	NG/KG																																		
TOTAL HpCDFs	NG/KG																																		
TOTAL HxCDDs	NG/KG																																		
TOTAL HxCDFs	NG/KG																																		
TOTAL ORGANIC CARBON	MG/KG																																		
TOTAL PeCDDs	NG/KG																																		
TOTAL PeCDFs	NG/KG																																		
TOTAL TCDDs	NG/KG																																		
TOTAL TCDFs	NG/KG																																		
TRICHLOROETHYLENE (TCE)	UG/KG			ND				17		120	H W1 W2	73	W1 W2			ND		ND		ND				31		920	H W1 W2			ND		ND		ND	
VANADIUM	MG/KG	17.2				22.6								24.9								22.1						26.9							
ZINC	MG/KG	37.3				43.3	B							41.2								57.2	B					43.4	B						

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-W05								AUS-0A2D-W06								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**15 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND		ND		ND				ND		--		ND						
ALL SVOC	UG/KG	ND								ND												
ALL EXPLOSIVES	UG/KG	ND								ND												
cPAH	UG/KG	ND								ND										2.1E+02		
Mammal TEQ	NG/KG																		8.1E-01	1.6E+01		
Bird TEQ	NG/KG																		8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG																					
1,2,3,4,6,7,8-HpCDF	NG/KG																					
1,2,3,4,7,8,9-HpCDF	NG/KG																					
1,2,3,4,7,8-HxCDD	NG/KG																					
1,2,3,4,7,8-HxCDF	NG/KG																					
1,2,3,6,7,8-HxCDD	NG/KG																					
1,2,3,6,7,8-HxCDF	NG/KG																					
1,2,3,7,8,9-HxCDD	NG/KG																					
1,2,3,7,8,9-HxCDF	NG/KG																					
1,2,3,7,8-PeCDD	NG/KG																					
1,2,3,7,8-PeCDF	NG/KG																					
2,3,4,6,7,8-HxCDF	NG/KG																					
2,3,4,7,8-PeCDF	NG/KG																					
2,3,7,8-TCDD	NG/KG																		8.1E-01	1.6E+01		
2,3,7,8-TCDF	NG/KG																					
2-METHYLNAPHTHALENE	UG/KG	ND								ND									4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHENE	UG/KG	ND								ND									8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACETONE	UG/KG			ND		ND		ND				ND		ND		ND			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	4200	E							7770	E							9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND								ND									1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG									ND								4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.4	H							5.9	H							1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	85.1								57.7								2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND								ND									3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND								ND									3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND								ND									1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND								ND									1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND								ND									9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG	ND								ND									2.4E+02	9.3E+05	9.3E+05	9.3E+05
BERYLLIUM	MG/KG	0.41								ND								4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND								ND									9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND								1.7	E							4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND								ND								3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2080								38800	B							2.9E+03				
CARBAZOLE	UG/KG	ND								ND									1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	8.1	E							9.3	E							1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND								ND									4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		ND				ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	ND								ND								9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	4.4								8.3								9.4E+00	3.1E+01	4.1E+03		5.9E+04
CYANIDE	MG/KG	ND								ND								5.6E-01	9.0E-01	1.2E+03		4.0E+01
DIBENZ(A,H)ANTHRACENE	UG/KG	ND								ND									1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND								ND									2.5E+04	1.6E+05		1.5E+04
DIMETHYL PHTHALATE	UG/KG	ND								ND									2.0E+05	1.3E+06		3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG	ND								ND									7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND								ND									1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND								ND									2.2E+04	2.6E+06	5.6E+05	5.6E+05
HMX	UG/KG	ND								ND									2.5E+04	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND								ND									9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	10700	E							12700	E							2.0E+04	2.0E+02	3.1E+04		

Table 5-5
AUS-0A2D - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-2A and 5-2B for Locations)

Soil Samples		AUS-0A2D-W05								AUS-0A2D-W06								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**15 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
LEAD	MG/KG	16.1								9.1								2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1190								7940	B							1.8E+03				
MANGANESE	MG/KG	767	E							159	E							2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND								ND								2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND		ND		ND				ND		ND		ND			9.0E+04	7.1E+05		1.7E+04
NAPHTHALENE	UG/KG	ND								ND									4.6E+04	1.8E+03	8.4E+04	1.2E+04
N-HEXANE	UG/KG			ND		ND		ND				ND		ND		ND				4.0E+04		
NICKEL	MG/KG	5								6.8								1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
NITROGLYCERIN	UG/KG	ND								ND										1.0E+05		2.0E+01
OCDD	NG/KG																					
OCDF	NG/KG																					
PENTACHLOROPHENOL	UG/KG	ND								ND									1.2E+02	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	ND								ND									1.8E+04	2.9E+06	4.2E+06	2.2E+05
PHENOL	UG/KG	ND								ND									4.0E+04	1.8E+07	1.0E+05	1.0E+05
PHOSPHORUS, TOTAL (AS P)	MG/KG																					
POTASSIUM	MG/KG	237								370								6.9E+02				
PYRENE	UG/KG	ND								ND									7.9E+04	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND								ND									1.0E+05	1.6E+04		3.6E+02
SELENIUM	MG/KG	1.1	E							ND								3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND								ND								6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND								422	B							8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND		ND				ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND								ND								5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG			ND		ND		ND				ND		2		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		ND		ND				ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TOTAL HpCDDs	NG/KG																					
TOTAL HpCDFs	NG/KG																					
TOTAL HxCDDs	NG/KG																					
TOTAL HxCDFs	NG/KG																					
TOTAL ORGANIC CARBON	MG/KG																					
TOTAL PeCDDs	NG/KG																					
TOTAL PeCDFs	NG/KG																					
TOTAL TCDDs	NG/KG																					
TOTAL TCDFs	NG/KG																					
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		ND				ND		ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	20.8								15.2								3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	23.7								30.2								4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-6
AUS-0A2D - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-2A and 5-2B for Locations)

Sediment Samples		AUS-0A2D-044		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	ND						
ALL EXPLOSIVES	UG/KG	ND						
cPAH	UG/KG	ND				2.1E+02		
ALUMINUM	MG/KG	5840		1.1E+04	2.6E+04	9.2E+04		
BARIUM	MG/KG	92.5		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.71		1.6E+00		1.9E+02	6.3E+01	2.2E+01
CADMIUM	MG/KG	0.21		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2110	B	1.4E+03				
CHROMIUM, TOTAL	MG/KG	7.4		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	10.3	B	9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	6.7		1.7E+01	3.2E+01	4.1E+03		5.9E+04
IRON	MG/KG	6340		2.1E+04	1.9E+05	3.1E+04		
MAGNESIUM	MG/KG	1400		1.9E+03				
MANGANESE	MG/KG	279		1.0E+03	6.3E+02	1.9E+03		
NICKEL	MG/KG	6.8		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	241		1.4E+03				
SELENIUM	MG/KG	0.28		6.4E-01		5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	365		1.5E+03				
THALLIUM	MG/KG	0.17		3.1E-01		6.7E+00		2.6E+00
VANADIUM	MG/KG	13.5		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	18		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-7
AUS-0A2D - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-2A and 5-2B for Locations)

Surface Water Samples		AUS-0A2D-044-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL SVOC	UG/L	ND				
ALL EXPLOSIVES	UG/L	--				
ALUMINUM	UG/L	2720	B E	2.0E+02	8.7E+01	
ARSENIC	UG/L	3		1.0E+01	1.9E+02	
BARIUM	UG/L	65.9	B	2.3E+01	5.0E+03	5.0E+03
CALCIUM	UG/L	33100	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	2.4		1.0E+01	2.1E+02	
IRON	UG/L	2290	B E H	1.0E+02	1.0E+03	1.0E+03
MAGNESIUM	UG/L	10700	B	2.5E+03	8.2E+04	
POTASSIUM	UG/L	1870	B	1.6E+03	5.3E+04	
RDX	UG/L	1.8			1.9E+02	
SELENIUM	UG/L	2.5		2.7E+00	1.0E+03	1.0E+03
SODIUM	UG/L	20900	B	3.2E+03	6.8E+05	

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-8
AUS-0A2D - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-2A and 5-2B for Locations)

Groundwater Samples		AUS-0A2D-W01-GW		AUS-0A2D-W02-GW		AUS-0A2D-W03-GW		AUS-0A2D-W04-GW		AUS-0A2D-W05-GW		AUS-0A2D-W06-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	--		--		--		--		--		ND		
ALL SVOC	UG/L	--		ND		--		ND		--		ND		
ALL EXPLOSIVES	UG/L	ND		ND		ND		ND		ND		ND		
1,1,2-TRICHLOROETHANE	UG/L	28	C1	ND		ND		ND		ND		ND		5.0E+00
1,1-DICHLOROETHANE	UG/L	2		ND		ND		ND		ND		ND		7.0E+02
1,1-DICHLOROETHENE	UG/L	9	C1	ND		2		ND		ND		ND		7.0E+00
ALKALINITY, TOTAL (AS CACO3)	MG/L			395						670				
ALUMINUM	UG/L	100		248		4520	C1	9130	C1	4300	C1	278		3.5E+03
ANTIMONY	UG/L	ND		ND		ND		ND		2.3		ND		6.0E+00
BARIUM	UG/L	85.5		34.4		73.2		117		100		28.1		2.0E+03
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	9.4	C1	ND		1.1		ND		1.4		ND		6.0E+00
BORON	UG/L	14.1		ND		ND		ND		ND		13.2		2.0E+03
CALCIUM	UG/L	73200		41400		56300		155000		269000		141000		
CHLOROFORM	UG/L	ND		ND		ND		0.5	C1	ND		ND		2.0E-01
CHROMIUM, TOTAL	UG/L	ND		ND		7.5		12.8		2.9		ND		1.0E+02
CIS-1,2-DICHLOROETHYLENE	UG/L	9700	C1	1		400	C1	ND		4		ND		7.0E+01
COPPER	UG/L	1.6		ND		4.4		5.8		1.7		1.4		6.5E+02
IRON	UG/L	118		228		4110		10700	C1	2520		309		5.0E+03
LEAD	UG/L	ND		ND		ND		3.4		ND		ND		7.5E+00
MAGNESIUM	UG/L	33600		13700		21100		76500		107000		60100		
MANGANESE	UG/L	66.4		78.4		164	C1	948	C1	258	C1	246	C1	1.5E+02
MERCURY	UG/L	ND		ND		ND		ND		ND		0.13		2.0E+00
NICKEL	UG/L	ND		1.6		3.9		10.9		4.6		1.6		1.0E+02
NITROGEN, AMMONIA (AS N)	MG/L			ND		0.13				ND				
NITROGEN, NITRATE-NITRITE	MG/L	0.34				ND				0.21				1.0E+01
PHOSPHORUS, TOTAL (AS P)	UG/L			ND		0.14				0.13				
POTASSIUM	UG/L	ND		ND		2050		2960		2920		1860		
SODIUM	UG/L	240000		138000		134000		240000		224000		286000		
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L			5						84.5				
TETRACHLOROETHYLENE(PCE)	UG/L	2		ND		2800	C1	ND		ND		ND		5.0E+00
THALLIUM	UG/L	ND		ND		ND		3.4	C1	ND		ND		2.0E+00
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			513						2080				
TRANS-1,2-DICHLOROETHENE	UG/L	180	C1	ND		2		ND		ND		ND		1.0E+02
TRICHLOROETHYLENE (TCE)	UG/L	54000	C1	ND		4200	C1	ND		0.6		ND		5.0E+00
VANADIUM	UG/L	ND		ND		10.8		14.8		5.1		ND		4.9E+01
VINYL CHLORIDE	UG/L	53	C1	ND		11	C1	ND		ND		ND		2.0E+00
ZINC	UG/L	ND		ND		ND		36.6		8.5		ND		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-9
AUS-0A2F - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-3 for Locations)

Soil Samples		AUS-0A2F-001				AUS-0A2F-002				AUS-0A2F-003				AUS-0A2F-004				AUS-0A2F-005				AUS-0A2F-006				AUS-0A2F-007	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND				ND				ND			
ALL SVOC	UG/KG					--																					
ALL EXPLOSIVES	UG/KG					ND								ND				ND				ND				ND	
cPAH	UG/KG					301.117	H																				
4-METHYLPHENOL (P-CRESOL)	UG/KG					870	W2																				
ALUMINUM	MG/KG	7560	E			6040	E			4290	E			9500	B E			6390	E			8170	E			6940	E
ANTIMONY	MG/KG	ND				ND				0.65	B			1	B			0.45	B			0.35				0.48	B
ARSENIC	MG/KG	7.1	H			2.8	H			7.1	H			15.2	B E H			8.9	H			7.3	H			7.3	H
BARIUM	MG/KG	124				99.5				78.8				69.9				59.6				94.5				114	
BENZO(A)ANTHRACENE	UG/KG					49																					
BENZO(A)PYRENE	UG/KG					48																					
BENZO(B)FLUORANTHENE	UG/KG					55																					
BENZO(K)FLUORANTHENE	UG/KG					64																					
BERYLLIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					55																					
BORON	MG/KG	3.1	E			2.9	E			6.8	B E			14.2	B E			7.2	B E			4.7	B E			4.2	E
CADMIUM	MG/KG	0.53	B E			ND				0.97	B E			0.77	B E			0.28	E			ND				ND	
CALCIUM	MG/KG	2550				2900	B			38100	B			59100	B			4070	B			4090	B			3830	B
CARBON DISULFIDE	UG/KG			ND				ND				ND				ND				ND				ND			
CHROMIUM, TOTAL	MG/KG	14.1	B E			8.3	E			7.8	E			20.1	B E			13.1	E			13.7	E			12.2	E
CHRYSENE	UG/KG					77																					
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND				ND				ND				ND			
COBALT	MG/KG	8.6				ND				5.7				6.4				ND				5.8				8.9	
COPPER	MG/KG	10.3	B			6.6				15.8	B			57.1	B E			30.7	B			19.5	B			10.7	B
FLUORANTHENE	UG/KG					68																					
IRON	MG/KG	17800	E			9290	E			15300	E			29200	B E			39600	B E H			23000	B E			18400	E
LEAD	MG/KG	21.7				16.6				31.4	B			84.6	B			59	B			41.7	B			18.6	
MAGNESIUM	MG/KG	1780				1240				14700	B			3700	B			1110				2060	B			1440	
MANGANESE	MG/KG	526	E			104	E			406	E			953	E			468	E			502	E			608	E
MERCURY	MG/KG	0.08				ND				0.06				0.09				0.06				0.06				0.08	
NICKEL	MG/KG	16.3	B			7.1				12.5				19.9	B			14.1	B			13	B			11	
POTASSIUM	MG/KG	555				595				634				747	B			403				540				519	
PYRENE	UG/KG					79																					
SELENIUM	MG/KG	0.56				0.72				0.63				0.72				0.81				0.71				0.93	
SILVER	MG/KG	0.28				0.31				0.26				0.34				1.3	B			ND				ND	
SODIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	ND				0.18				ND				ND				ND				ND				ND	
TOTAL ORGANIC CARBON	MG/KG																					38000					
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				ND			
VANADIUM	MG/KG	24.1				15.7				14.7				26.4				19.7				22.6				28.2	
ZINC	MG/KG	50.5	B			45.4	B			81.3	B			106	B			99.4	B			74.6	B			65.1	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-9
AUS-0A2F - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-3 for Locations)

Soil Samples		AUS-0A2F-008		AUS-0A2F-009				AUS-0A2F-010				AUS-0A2F-011				AUS-0A2F-012				AUS-0A2F-013		AUS-0A2F-W01							
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**
ALL VOC	UG/KG					ND				--				--				--		ND				ND		ND		ND	
ALL SVOC	UG/KG											ND				ND				ND									
ALL EXPLOSIVES	UG/KG	ND		ND				ND				ND				ND				ND		ND							
cPAH	UG/KG											ND				ND				ND									
4-METHYLPHENOL (P-CRESOL)	UG/KG											ND				ND				ND									
ALUMINUM	MG/KG	8010	E	5140	E			6120	E			13400	B E			11600	B E			15800	B E	8710	E						
ANTIMONY	MG/KG	ND		0.82	B			ND				ND				ND				ND		ND							
ARSENIC	MG/KG	7.2	H	7.2	H			4.9	H			8.5	H			8.4	H			8.7	H	8	H						
BARIUM	MG/KG	94.5		101				87.6				146				142				128		167							
BENZO(A)ANTHRACENE	UG/KG											ND				ND				ND									
BENZO(A)PYRENE	UG/KG											ND				ND				ND									
BENZO(B)FLUORANTHENE	UG/KG											ND				ND				ND									
BENZO(K)FLUORANTHENE	UG/KG											ND				ND				ND									
BERYLLIUM	MG/KG	ND		ND				ND				0.61	B			0.58	B			0.58	B	ND							
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG											ND				ND				ND									
BORON	MG/KG	4.1	E	5.5	B E			3.4	E			ND				1.1	E			ND		ND							
CADMIUM	MG/KG	ND		1.8	B E			0.4	B E			ND				ND				ND		ND							
CALCIUM	MG/KG	24700	B	2620				3000	B			3870	B			2820				555		1900							
CARBON DISULFIDE	UG/KG					ND				6				ND				ND		ND				ND		ND		ND	
CHROMIUM, TOTAL	MG/KG	13.2	E	18.2	B E			10.8	E			18.5	B E			16.7	B E			18.5	B E	15.4	B E						
CHRYSENE	UG/KG											ND				ND				ND									
CIS-1,2-DICHLOROETHYLENE	UG/KG					ND				ND				ND				ND		ND				ND		ND		ND	
COBALT	MG/KG	6.2		8				5.8				9.4	B			8.4				4.8		7.9							
COPPER	MG/KG	15.2	B	25.5	B			11.7	B			14	B			14.5	B			13.1	B	20.8	B						
FLUORANTHENE	UG/KG											ND				ND				ND									
IRON	MG/KG	18800	E	19900	B E			13600	E			21000	B E			19400	E			21300	B E	18200	E						
LEAD	MG/KG	27	B	51.1	B			23.1				15.8				13.9				19.5		101	B						
MAGNESIUM	MG/KG	14700	B	1300				1580				3670	B			2710	B			2270	B	1590							
MANGANESE	MG/KG	400	E	319	E			240	E			681	E			592	E			651	E	1280	E						
MERCURY	MG/KG	ND		ND				0.08				0.02				0.028				ND		ND							
NICKEL	MG/KG	18.7	B	14	B			11.8				14	B			15.5	B			10.9		12							
POTASSIUM	MG/KG	639		216				497				648				682				601		422							
PYRENE	UG/KG											ND				ND				ND									
SELENIUM	MG/KG	ND		0.91				0.65				0.39				ND				0.36		0.94							
SILVER	MG/KG	ND		0.42				ND				ND				ND				ND		ND							
SODIUM	MG/KG	ND		ND				ND				58.2				49.9				308	B	ND							
THALLIUM	MG/KG	ND		ND				ND				ND				0.6	B			ND		ND							
TOTAL ORGANIC CARBON	MG/KG							34200																					
TRICHLOROETHYLENE (TCE)	UG/KG					ND				ND				4				4		ND				ND		ND		ND	
VANADIUM	MG/KG	24.9		23				19.4				32	B			30.1				30.9		23.1							
ZINC	MG/KG	71.9	B	231	B E			178	B E			48.1	B			47.8	B			50.2	B	47.6	B						

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-9
AUS-0A2F - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-3 for Locations)

Soil Samples		AUS-0A2F-W02								AUS-0A2F-W03								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**15 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**15 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND		ND		--				ND		ND		ND						
ALL SVOC	UG/KG																					
ALL EXPLOSIVES	UG/KG	ND								ND												
cPAH	UG/KG																			2.1E+02		
4-METHYLPHENOL (P-CRESOL)	UG/KG																		1.6E+05	3.1E+05		2.4E+02
ALUMINUM	MG/KG	6720	E							7760	E							9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	ND								0.66	B							4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	8.5	H							9.7	E H							1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	122								71.1								2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG																		3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG																		3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG																		1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(K)FLUORANTHENE	UG/KG																		9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND								ND								4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG																		9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND								9.1	B E							4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND								0.73	B E							3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	11200	B							58300	B							2.9E+03				
CARBON DISULFIDE	UG/KG			ND		ND		ND				ND		ND		ND			9.4E+01	9.0E+03	3.2E+04	3.2E+04
CHROMIUM, TOTAL	MG/KG	10.4	E							15.9	B E							1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG																		4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		29				ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	ND								ND								9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	12.2	B							24.5	B							9.4E+00	3.1E+01	4.1E+03		5.9E+04
FLUORANTHENE	UG/KG																		1.0E+05	2.2E+06	4.3E+06	4.3E+06
IRON	MG/KG	14900	E							28200	B E							2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	24.8								33.3	B							2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	6670	B							9720	B							1.8E+03				
MANGANESE	MG/KG	523	E							682	E							2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.1								0.07								2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	10.8								11.3								1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	458								623								6.9E+02				
PYRENE	UG/KG																		7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.48								0.63								3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.22								ND								6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND								ND								8.5E+01				
THALLIUM	MG/KG	ND								ND								5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL ORGANIC CARBON	MG/KG																					
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		96	W1 W2			ND		ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	20.3								18.7								3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	51.8	B							70.5	B							4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-10
AUS-0A2F - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-3 for Locations)

Surface Water Samples		AUS-0A2F-007-SW		AUS-0A2F-008-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL SVOC	UG/L	ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND				
ALUMINUM	UG/L	981	B E	2540	B E	2.0E+02	8.7E+01	
BARIUM	UG/L	78.1	B	58.6	B	2.3E+01	5.0E+03	5.0E+03
BORON	UG/L	26.6		ND			1.0E+03	1.0E+03
CALCIUM	UG/L	57600	B	33600	B	7.2E+03	1.2E+05	
IRON	UG/L	1090	B E H	3650	B E H	1.0E+02	1.0E+03	1.0E+03
MAGNESIUM	UG/L	19800	B	10300	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	150		198		5.8E+02	1.0E+03	1.0E+03
POTASSIUM	UG/L	2730	B	3490	B	1.6E+03	5.3E+04	
SELENIUM	UG/L	2		2.1		2.7E+00	1.0E+03	1.0E+03
SILVER	UG/L	6.7	E H	ND		1.0E+01	5.0E+00	5.0E+00
SODIUM	UG/L	11500	B	ND		3.2E+03	6.8E+05	

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-11
AUS-0A2F - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-3 for Locations)

Groundwater Samples		AUS-0A2F-W01-GW		AUS-0A2F-W02-GW		AUS-0A2F-W03-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**E**
ALL VOC	UG/L	--		--		ND		
ALL SVOC	UG/L	ND		ND		ND		
ALL EXPLOSIVES	UG/L	ND		ND		ND		
1,1-DICHLOROETHENE	UG/L	ND		1		ND		7.0E+00
ALUMINUM	UG/L	191		361		455		3.5E+03
BARIUM	UG/L	48.8		43.9		41.1		2.0E+03
BORON	UG/L	49.9		ND		11.3		2.0E+03
CALCIUM	UG/L	72700		46400		36100		
CHROMIUM, TOTAL	UG/L	2.9		ND		ND		1.0E+02
CIS-1,2-DICHLOROETHYLENE	UG/L	5		210	C1	ND		7.0E+01
COPPER	UG/L	ND		ND		1.7		6.5E+02
IRON	UG/L	175		288		399		5.0E+03
MAGNESIUM	UG/L	25000		18800		13900		
MANGANESE	UG/L	5.2		5.1		35		1.5E+02
NICKEL	UG/L	ND		ND		1.7		1.0E+02
POTASSIUM	UG/L	1090		758		ND		
SELENIUM	UG/L	ND		ND		3.3		5.0E+01
SODIUM	UG/L	23500		96000		124000		
TETRACHLOROETHYLENE(PCE)	UG/L	2		ND		ND		5.0E+00
TRANS-1,2-DICHLOROETHENE	UG/L	ND		6		ND		1.0E+02
TRICHLOROETHYLENE (TCE)	UG/L	5		2400	C1	ND		5.0E+00

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-12
AUS-0A2P - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-4 for Locations)

Soil Samples		AUS-0A2P-001				AUS-0A2P-002				AUS-0A2P-003				AUS-0A2P-004				AUS-0A2P-005				AUS-0A2P-006				AUS-0A2P-007			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALL SVOC	UG/KG																												
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND				ND				ND			
cPAH	UG/KG																												
1-METHYLNAPHTHALENE	UG/KG																												
2-METHYLNAPHTHALENE	UG/KG																												
ACENAPHTHENE	UG/KG																												
ACENAPHTHYLENE	UG/KG																												
ALUMINUM	MG/KG	11700	B E			4620	E			6690	E			8270	E			7710	E			11800	B E			7600	E		
ANTHRACENE	UG/KG																												
ANTIMONY	MG/KG	ND				0.38				ND				0.43	B			ND				ND				1.6	B		
ARSENIC	MG/KG	13.9	B E H			9.6	E H			8.3	H			21.4	B E H			8.4	H			18	B E H			13	E H		
BARIUM	MG/KG	71.2				56.4				90.5				84				81.7				105				82			
BENZO(A)ANTHRACENE	UG/KG																												
BENZO(A)PYRENE	UG/KG																												
BENZO(B)FLUORANTHENE	UG/KG																												
BENZO(G,H,I)PERYLENE	UG/KG																												
BENZO(K)FLUORANTHENE	UG/KG																												
BENZYL BUTYL PHTHALATE	UG/KG																												
BERYLLIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG																												
BORON	MG/KG	ND				ND				ND				ND				ND				ND				ND			
CADMIUM	MG/KG	ND				0.32	E			ND				ND				ND				ND				1.3	B E		
CALCIUM	MG/KG	1580				17800	B			2270				3310	B			3290	B			2600				10500	B		
CARBAZOLE	UG/KG																												
CHROMIUM, TOTAL	MG/KG	15.4	B E			8.3	E			10.8	E			12	E			11.7	E			15.9	B E			28.6	B E		
CHRYSENE	UG/KG																												
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND				ND				ND				ND				ND	
COBALT	MG/KG	ND				ND				6.9				ND				ND				ND				ND			
COPPER	MG/KG	14.4	B			6.7				8.5				11.8	B			10.1	B			12.1	B			13	B		
DIBENZ(A,H)ANTHRACENE	UG/KG																												
DIBENZOFURAN	UG/KG																												
DIETHYL PHTHALATE	UG/KG																												
FLUORANTHENE	UG/KG																												
FLUORENE	UG/KG																												
INDENO(1,2,3-C,D)PYRENE	UG/KG																												
IRON	MG/KG	25200	B E			13400	E			18100	E			18600	E			14800	E			25700	B E			14400	E		
LEAD	MG/KG	15.4				14.8				19.3				19.6				17.9				13.4				22.2			
MAGNESIUM	MG/KG	2700	B			10600	B			1510				2270	B			2770	B			1850	B			3150	B		
MANGANESE	MG/KG	246	E			581	E			1020	E			561	E			242	E			189	E			327	E		
MERCURY	MG/KG	ND				ND				ND				0.06				ND				0.09				0.26	E		
NAPHTHALENE	UG/KG																												
NICKEL	MG/KG	10.7				7.6				10.6				11.3				9.9				10.8				14.1	B		
PHENANTHRENE	UG/KG																												
POTASSIUM	MG/KG	637				517				500				622				819	B			519				665			
PYRENE	UG/KG																												
SELENIUM	MG/KG	0.97				0.86				1.3	E			1.2	E			0.7				1.2	E			1.1	E		
SILVER	MG/KG	ND				ND				0.55				1	B			ND				29.3	B E W2			0.99	B		
SODIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	0.21				ND				ND				0.21				0.17				0.18				ND			
TOTAL ORGANIC CARBON	MG/KG	16100																											
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	31.7	B			16.6				25.5				24.8				21.3				29.8				18.4			
ZINC	MG/KG	43.3	B			192	B E			35.3				104	B			40.7				47.6	B			122	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-12
AUS-0A2P - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-4 for Locations)

Soil Samples		AUS-0A2P-008				AUS-0A2P-009				AUS-0A2P-010		AUS-0A2P-011				AUS-0A2P-012				AUS-0A2P-013				AUS-0A2P-014			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND						ND				ND				ND				ND	
ALL SVOC	UG/KG	--				--						--															
ALL EXPLOSIVES	UG/KG	ND				ND				ND		ND				ND				ND				ND			
cPAH	UG/KG	ND				ND						554.463	H														
1-METHYLNAPHTHALENE	UG/KG																										
2-METHYLNAPHTHALENE	UG/KG	ND				ND						ND															
ACENAPHTHENE	UG/KG	ND				ND						ND															
ACENAPHTHYLENE	UG/KG	ND				ND						ND															
ALUMINUM	MG/KG	6990	E			4070	E			6710	E	6140	E			9530	B E			6510	E			7680	E		
ANTHRACENE	UG/KG	ND				ND						ND															
ANTIMONY	MG/KG	ND				ND				ND		0.76	B			ND				ND				0.29			
ARSENIC	MG/KG	26.1	B E H			7.5	H			87.5	B E H W1 W2	15.7	B E H			32	B E H W1 W2			8.7	H			75.9	B E H W1 W2		
BARIUM	MG/KG	90.7				82.1				119		83				139				105				99.2			
BENZO(A)ANTHRACENE	UG/KG	ND				ND						ND															
BENZO(A)PYRENE	UG/KG	ND				ND						ND															
BENZO(B)FLUORANTHENE	UG/KG	ND				ND						ND															
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND						ND															
BENZO(K)FLUORANTHENE	UG/KG	ND				ND						ND															
BENZYL BUTYL PHTHALATE	UG/KG	6300	E			60						100															
BERYLLIUM	MG/KG	ND				ND				ND		ND				ND				ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND						72															
BORON	MG/KG	ND				ND				3.2	E	ND				4	E			4.3	E			3.4	E		
CADMIUM	MG/KG	ND				ND				ND		0.96	B E			ND				0.03				ND			
CALCIUM	MG/KG	2100				13900	B			4520	B	13500	B			1960				10700	B			3040	B		
CARBAZOLE	UG/KG	ND				ND						ND															
CHROMIUM, TOTAL	MG/KG	11.5	E			7.5	E			10.8	E	14.5	B E			16	B E			12.5	E			13.2	E		
CHRYSENE	UG/KG	ND				ND						63															
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND						ND				ND				ND				ND	
COBALT	MG/KG	6.3				ND				6.5		15.1	B			10.2	B			6.6				5.3			
COPPER	MG/KG	13	B			4				20.6	B	186	B E			22.7	B			17.9	B			32.1	B E		
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND						ND															
DIBENZOFURAN	UG/KG	ND				ND						ND															
DIETHYL PHTHALATE	UG/KG	ND				ND						ND															
FLUORANTHENE	UG/KG	ND				ND						ND															
FLUORENE	UG/KG	ND				ND						ND															
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND						ND															
IRON	MG/KG	15600	E			14200	E			16400	E	21600	B E			20300	B E			2400	E			18100	E		
LEAD	MG/KG	23.5				11.7				22.8		60.5	B			39.9	B			19.5				38	B		
MAGNESIUM	MG/KG	1870	B			2020	B			1770		6240	B			2380	B			2710	B			1810			
MANGANESE	MG/KG	289	E			834	E			532	E	200	E			417	E			295	E			373	E		
MERCURY	MG/KG	0.09				ND				ND		0.019				ND				ND				0.08			
NAPHTHALENE	UG/KG	ND				ND						ND															
NICKEL	MG/KG	9.1				6.9				8.8		16	B			18.6	B			14.3	B			10.3			
PHENANTHRENE	UG/KG	ND				ND						ND															
POTASSIUM	MG/KG	647				263				405		534				534				573				445			
PYRENE	UG/KG	ND				ND						49															
SELENIUM	MG/KG	1.2	E			1.1	E			ND		0.91				ND				ND				1.1	E		
SILVER	MG/KG	1.1	B			ND				ND		20.6	B E W2			22.9	B E W2			ND				2.2	B E		
SODIUM	MG/KG	ND				ND				ND		ND				ND				ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND						ND				ND				ND				ND	
THALLIUM	MG/KG	ND				ND				ND		ND				ND				ND				ND			
TOTAL ORGANIC CARBON	MG/KG																										
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND						ND				ND				ND				ND	
VANADIUM	MG/KG	20.9				21.5				24.1		17				29				21.7				22.8			
ZINC	MG/KG	52.2	B			59.8	B			71.8	B	612	B E			86.1	B			73.3	B			213	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-12
AUS-0A2P - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-4 for Locations)

Soil Samples		AUS-0A2P-015				AUS-0A2P-016				AUS-0A2P-017				AUS-0A2P-018				AUS-0A2P-019		AUS-0A2P-020		AUS-0A2P-021				AUS-0A2P-022			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND								--				ND	
ALL SVOC	UG/KG	--								--				ND				--				--				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND		ND									
cPAH	UG/KG	554.65	H							747.53	H			ND				749.5	H			99.315				21.214			
1-METHYLNAPHTHALENE	UG/KG																					2200				130			
2-METHYLNAPHTHALENE	UG/KG	ND								ND				ND				ND				6700				170			
ACENAPHTHENE	UG/KG	ND								ND				ND				ND				95				ND			
ACENAPHTHYLENE	UG/KG	ND								ND				ND				ND				3700	H			160			
ALUMINUM	MG/KG	5670	E			8500	E			10100	B E			4150	E			6840	E	7890	E	12000	B E			6400	E		
ANTHRACENE	UG/KG	72								100				ND				89				ND				ND			
ANTIMONY	MG/KG	ND				ND				ND				ND				ND		ND		ND				0.53	B		
ARSENIC	MG/KG	10.9	E H			12.4	E H			10.9	E H			4.9	H			19.7	B E H	10.3	E H	9.2	E H			23.2	B E H		
BARIUM	MG/KG	73.9				80.2				68.9				54.2				81.6		73.7		135				49.3			
BENZO(A)ANTHRACENE	UG/KG	280								500				ND				410				150				12			
BENZO(A)PYRENE	UG/KG	280	H							480	H			ND				390	H			75				13			
BENZO(B)FLUORANTHENE	UG/KG	320								510				ND				410				28				14			
BENZO(G,H,I)PERYLENE	UG/KG	180								320				ND				240				330				18			
BENZO(K)FLUORANTHENE	UG/KG	230								490				ND				400				21				7.8			
BENZYL BUTYL PHTHALATE	UG/KG	ND								ND				ND				250	E										
BERYLLIUM	MG/KG	ND				ND				0.44				0.27				0.73	B	ND		0.52	B			0.37			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND								190				ND				ND											
BORON	MG/KG	ND				4.1	E			ND				ND				ND		2.5	E	1.7	E			7.3	B E		
CADMIUM	MG/KG	ND				ND				ND				ND				ND		ND		ND				ND			
CALCIUM	MG/KG	45300	B			15000	B			2540				29500	B			42800	B	2650		12000	B			113000	B		
CARBAZOLE	UG/KG	ND								63				ND				66											
CHROMIUM, TOTAL	MG/KG	12.6	E			12.7	E			15.3	B E			5.7	E			12.8	E	11.3	E	15.1	B E			10.8	E		
CHRYSENE	UG/KG	350								630				ND				500				470				36			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND				ND								ND				ND	
COBALT	MG/KG	6.4				5.8				ND				ND				10.7	B	5.9		7.2				5.1			
COPPER	MG/KG	10.1	B			11.9	B			36.8	B E			4.3				9.2		10.8	B	12	B			19.5	B		
DIBENZ(A,H)ANTHRACENE	UG/KG	ND								130				ND				ND				ND				ND			
DIBENZOFURAN	UG/KG	ND								ND				ND				58											
DIETHYL PHTHALATE	UG/KG	ND								ND				ND				ND											
FLUORANTHENE	UG/KG	550								1200				ND				760				570				45			
FLUORENE	UG/KG	ND								ND				ND				ND				44				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	170								310				ND				230				ND							
IRON	MG/KG	15800	E			18400	E			13300	E			7210	E			20300	B E	18400	E	18800	E			12700	E		
LEAD	MG/KG	12.7				15.3				25.6				8.3				18.1		16.5		11.6				23			
MAGNESIUM	MG/KG	28300	B			2390	B			1710				2720	B			12700	B	1920	B	7820	B			57200	B		
MANGANESE	MG/KG	873	E			445	E			202	E			242	E			806	E	503	E	802	E			373	E		
MERCURY	MG/KG	ND				ND				0.13				0.06				0.06		ND		0.045				0.15			
NAPHTHALENE	UG/KG	ND								ND				ND				ND				1600				59			
NICKEL	MG/KG	10				11.4				10.9				4.4				10.5		9.1		11.6				11.6			
PHENANTHRENE	UG/KG	380								550				ND				490				1200				76			
POTASSIUM	MG/KG	609				886	B			505				231				498		521		836	B			770	B		
PYRENE	UG/KG	730								960				ND				980				120				26			
SELENIUM	MG/KG	0.57				ND				1.4	E			ND				3.7	B E	ND		ND				ND			
SILVER	MG/KG	ND				ND				ND				3.1	B E			3.5	B E	ND		ND				0.29			
SODIUM	MG/KG	ND				1590	B			ND				ND				ND		ND		61.4				150	B		
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND								ND				ND	
THALLIUM	MG/KG	ND				ND				ND				ND				ND		ND		ND				ND			
TOTAL ORGANIC CARBON	MG/KG													20200															
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND				ND								4				ND	
VANADIUM	MG/KG	18.6				27.6				26.9				13.7				30.7		26.3		31.8	B			18.2			
ZINC	MG/KG	35.5				59	B			124	B E			34.5				91.7	B	57.1	B	53.5	B			101	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-12
AUS-0A2P - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-4 for Locations)

Soil Samples		AUS-0A2P-023				AUS-0A2P-W01								AUS-0A2P-W02								AUS-0A2P-W03							
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**17 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**15 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**18 ft**	**CE**
ALL VOC	UG/KG			ND				ND		ND		ND				ND		ND		--				--		--		--	
ALL SVOC	UG/KG	ND																											
ALL EXPLOSIVES	UG/KG	ND				ND								ND								ND							
cPAH	UG/KG	ND																											
1-METHYLNAPHTHALENE	UG/KG																												
2-METHYLNAPHTHALENE	UG/KG	ND																											
ACENAPHTHENE	UG/KG	ND																											
ACENAPHTHYLENE	UG/KG	ND																											
ALUMINUM	MG/KG	7300	E			8200	E							5380	E							6570	E						
ANTHRACENE	UG/KG	ND																											
ANTIMONY	MG/KG	ND				ND								0.33								0.37							
ARSENIC	MG/KG	3.9	H			9.9	E H							10	E H							13.7	B E H						
BARIUM	MG/KG	75.1				89.1								62.5								111							
BENZO(A)ANTHRACENE	UG/KG	ND																											
BENZO(A)PYRENE	UG/KG	ND																											
BENZO(B)FLUORANTHENE	UG/KG	ND																											
BENZO(G,H,I)PERYLENE	UG/KG	ND																											
BENZO(K)FLUORANTHENE	UG/KG	ND																											
BENZYL BUTYL PHTHALATE	UG/KG	ND																											
BERYLLIUM	MG/KG	0.42				ND								ND								ND							
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND																											
BORON	MG/KG	ND				ND								ND								2.5	E						
CADMIUM	MG/KG	0.72	B E			0.21								ND								ND							
CALCIUM	MG/KG	2310				16400	B							7790	B							2550							
CARBAZOLE	UG/KG	ND																											
CHROMIUM, TOTAL	MG/KG	9.5	E			13	E							12.6	E							12.4	E						
CHRYSENE	UG/KG	ND																											
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND		ND		ND				ND		ND		3				ND		8		2	
COBALT	MG/KG	5.3				8.1								ND								7.2							
COPPER	MG/KG	6.8				13	B							7.7								9.1							
DIBENZ(A,H)ANTHRACENE	UG/KG	ND																											
DIBENZOFURAN	UG/KG	ND																											
DIETHYL PHTHALATE	UG/KG	ND																											
FLUORANTHENE	UG/KG	ND																											
FLUORENE	UG/KG	ND																											
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND																											
IRON	MG/KG	10100	E			17900	E							11600	E							17000	E						
LEAD	MG/KG	12.8				16.8								17.7								22.3							
MAGNESIUM	MG/KG	1430				4730	B							2250	B							2260	B						
MANGANESE	MG/KG	986	E			472	E							397	E							785	E						
MERCURY	MG/KG	0.024				0.15								0.1								0.07							
NAPHTHALENE	UG/KG	ND																											
NICKEL	MG/KG	8.9				13.6	B							7.5								9.2							
PHENANTHRENE	UG/KG	ND																											
POTASSIUM	MG/KG	549				540								280								311							
PYRENE	UG/KG	ND																											
SELENIUM	MG/KG	ND				ND								0.65								0.68							
SILVER	MG/KG	ND				ND								237	B E W1 W2							ND							
SODIUM	MG/KG	118	B			ND								ND								ND							
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND		ND		ND				ND		ND		ND				ND		ND		15	
THALLIUM	MG/KG	ND				ND								ND								ND							
TOTAL ORGANIC CARBON	MG/KG																												
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND		ND		ND				ND		ND		ND				4		190	H W1 W2	240	H W1 W2
VANADIUM	MG/KG	17.9				20.6								16.6								26.3							
ZINC	MG/KG	119	B			50.8	B							30.4								31.2							

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-12
AUS-0A2P - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-4 for Locations)

Soil Samples		AUS-0A2P-W04								AUS-0A2P-W05								AUS-0A2P-W06								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**20 ft**	**CE**	**1.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**16 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND						
ALL SVOC	UG/KG	--																--												
ALL EXPLOSIVES	UG/KG	ND								ND								ND												
cPAH	UG/KG	447.6	H															ND										2.1E+02		
1-METHYLNAPHTHALENE	UG/KG																										4.6E+04	1.9E+04	8.4E+04	7.2E+03
2-METHYLNAPHTHALENE	UG/KG	ND																ND									4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHENE	UG/KG	ND																ND									8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND																ND									8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	6000	E							7900	E							5900	E							9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND																ND									1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND								ND								ND								4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	7.8	H							8.5	H							18.4	B E H							1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	127								122								95.4								2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND																ND									3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND																ND									3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	54																ND									1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND																ND									1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND																ND									9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG	840	E															430	E								2.4E+02	9.3E+05	9.3E+05	9.3E+05
BERYLLIUM	MG/KG	ND								ND								ND								4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND																180									9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND								3.3	E							ND								4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND								ND								1	B E							3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	20000	B							2790								4800	B							2.9E+03				
CARBAZOLE	UG/KG	ND																ND									1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	9.8	E							16.2	B E							9.9	E							1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND																ND									4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	8.4								8.5								6.6								9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	6.5								15.1	B							23.9	B							9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND																ND									1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND																ND									2.5E+04	1.6E+05		1.5E+04
DIETHYL PHTHALATE	UG/KG	140																ND									1.0E+05	2.0E+06		4.7E+05
FLUORANTHENE	UG/KG	42																ND									1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND																ND									2.2E+04	2.6E+06	5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND																ND									9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	14800	E							20700	B E							11100	E							2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	17.6								9.8								56	B							2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	11700	B							2210	B							2070	B							1.8E+03				
MANGANESE	MG/KG	1680	E							421	E							1090	E							2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.096								ND								0.32	B E							2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND																ND									4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	9								22.7	B							10.1								1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND																ND									1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	378								395								230								6.9E+02				
PYRENE	UG/KG	61																ND									7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	1.6	E							1.1	E							1.1	E							3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND								ND								ND								6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND								ND								ND								8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND								ND								ND								5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL ORGANIC CARBON	MG/KG																													
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	21.3								29.2								18.8								3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	33.3								40.7								162	B E							4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-13
AUS-0A2P - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-4 for Locations)

Surface Water Samples		AUS-0A2P-019-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	ND				
ALL SVOC	UG/L	ND				
ALL EXPLOSIVES	UG/L	ND				
ALUMINUM	UG/L	1320	B E	2.0E+02	8.7E+01	
ARSENIC	UG/L	2.1		1.0E+01	1.9E+02	
BARIUM	UG/L	52.5	B	2.3E+01	5.0E+03	5.0E+03
CALCIUM	UG/L	63400	B	7.2E+03	1.2E+05	
IRON	UG/L	1260	B E H	1.0E+02	1.0E+03	1.0E+03
MAGNESIUM	UG/L	17200	B	2.5E+03	8.2E+04	
POTASSIUM	UG/L	1970	B	1.6E+03	5.3E+04	
SODIUM	UG/L	26700	B	3.2E+03	6.8E+05	
ZINC	UG/L	36.9	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
E - exceeds the maximum of the Ecological SW Screening Criteria or 95UTL Background SW Concentration

Table 5-14
AUS-0A2P - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-4 for Locations)

Groundwater Samples		AUS-0A2P-W01-GW		AUS-0A2P-W02-GW		AUS-0A2P-W03-GW		AUS-0A2P-W04-GW		AUS-0A2P-W05-GW		AUS-0A2P-W06-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	--		--		--		ND		--		ND		
ALL SVOC	UG/L	ND		ND		ND		ND		ND		ND		
ALL EXPLOSIVES	UG/L	ND		ND		ND		ND		ND		ND		
1,1,1-TRICHLOROETHANE	UG/L	ND		ND		7		ND		ND		ND		2.0E+02
1,1,2-TRICHLOROETHANE	UG/L	ND		ND		14	C1	ND		ND		ND		5.0E+00
1,1-DICHLOROETHENE	UG/L	ND		ND		5		ND		ND		ND		7.0E+00
1,2-DICHLOROETHANE	UG/L	ND		ND		2		ND		ND		ND		5.0E+00
ALKALINITY, TOTAL (AS CACO3)	MG/L	346										223		
ALUMINUM	UG/L	1220		63.3		49.9		579		74.3		133		3.5E+03
BARIUM	UG/L	54.4		31.6		50		34.6		39.7		61.7		2.0E+03
BORON	UG/L	ND		11.7		14.3		ND		30.6		119		2.0E+03
CALCIUM	UG/L	66500		49900		68900		38200		32900		64500		
CHLOROFORM	UG/L	ND		ND		0.6	C1	ND		ND		ND		2.0E-01
CIS-1,2-DICHLOROETHYLENE	UG/L	ND		40		23		ND		ND		ND		7.0E+01
COPPER	UG/L	1.2		1		ND		ND		ND		ND		6.5E+02
IRON	UG/L	996		93.7		70.6		758		70		148		5.0E+03
MAGNESIUM	UG/L	30700		19300		24300		20500		15900		22900		
MANGANESE	UG/L	22.7		24.6		19.2		7.6		15.2		8.8		1.5E+02
NICKEL	UG/L	1.7		ND		ND		ND		ND		ND		1.0E+02
NITROGEN, AMMONIA (AS N)	MG/L	ND		0.31				0.11		ND		ND		
NITROGEN, NITRATE-NITRITE	MG/L	1.6		0.27				0.72		1.1		4.6		1.0E+01
PERCHLORATE	UG/L	ND		ND		ND		1200	C1	ND		ND		2.5E+01
PHOSPHORUS, TOTAL (AS P)	UG/L	0.062												
POTASSIUM	UG/L	725		ND		ND		ND		ND		ND		
SELENIUM	UG/L	ND		ND		3.2		3.8		6.2		ND		5.0E+01
SODIUM	UG/L	89700		86200		33800		84000		22700		18500		
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L	34.5										2.5		
TETRACHLOROETHYLENE(PCE)	UG/L	ND		ND		230	C1	ND		ND		ND		5.0E+00
TOLUENE	UG/L	ND		ND		1		ND		ND		ND		1.0E+03
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	548										370		
TRANS-1,2-DICHLOROETHENE	UG/L	ND		1		ND		ND		ND		ND		1.0E+02
TRICHLOROETHYLENE (TCE)	UG/L	5		6	C1	120000	C1	ND		0.9		ND		5.0E+00
VINYL CHLORIDE	UG/L	ND		0.7		ND		ND		ND		ND		2.0E+00

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-15
AUS-0A2R - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-5 for Locations)

Soil Samples		AUS-0A2R-001				AUS-0A2R-002		AUS-0A2R-003		AUS-0A2R-004		AUS-0A2R-005		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**5 ft**	**CE**	**10 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG	ND		ND														
ALL SVOC	UG/KG	ND		ND		--		--		--		--						
ALL EXPLOSIVES	UG/KG	ND		ND														
cPAH	UG/KG	ND		ND		660.7	H	144.87		3649.2	H	1794.4	H			2.1E+02		
1-METHYLNAPHTHALENE	UG/KG					250		430		2400		240			4.6E+04	1.9E+04	8.4E+04	7.2E+03
2-METHYLNAPHTHALENE	UG/KG	ND		ND		830		1000		7200		1200			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG	ND		ND		190		390		4500	H	130			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	9010	E	6430	E	4820	E	7560	E	3450	E	10700	B E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND		ND		130		ND		340		180			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND		ND		1.1	B	0.79	B	0.92	B	0.47	B	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	9.7	E H	5.3	H	9.2	E H	5.9	H	12.8	E H	9	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	337	B	123		76.4		167		53.4		83.5		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		ND		430		86		1900		740			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		ND		460	H	100		2600	H	1200	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		ND		610		180		3500	E H	1800	E		1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND		280		110		1400		1200			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND		ND		300		75		1600		890			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.83	B	0.77	B	0.29		0.97	B	0.28		0.42		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	ND		1.9	E	10.4	B E	59.6	B E	13.8	B E	2.6	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	0.71	B E	0.62	B E	0.8	B E	1.6	B E	1.3	B E	0.74	B E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2950	B	2080		68400	B	16300	B	76400	B	36200	B	2.9E+03				
CHROMIUM, TOTAL	MG/KG	15.9	B E	11.3	E	17.4	B E	15.6	B E	19	B E	15.8	B E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		ND		700		220		3200		1500			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	ND		29.5	B E	6		6.3		6.5		6.7		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	13.3	B	13.1	B	83.2	B E	30.3	B	156	B E	20.9	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		66		12		320	H	210			1.8E+04	2.1E+02	2.0E+03	2.0E+03
FLUORANTHENE	UG/KG	ND		ND		690		270		3500		1900			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND		ND		ND		17		ND		110			2.2E+04	2.6E+06	5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND		270		53		1700		1200			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	17900	E	21400	B E	33800	B E H	33900	B E H	24700	B E	18500	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	12.1		15.9		55.9	B	54.2	B	101	B	35.1	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2490	B	1360		36800	B	4800	B	21900	B	14700	B	1.8E+03				
MANGANESE	MG/KG	261	E	747	E	569	E	265	E	302	E	481	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND		ND		0.043		0.028		0.055		0.043		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND		230		290		3600	H	360			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	30.7	B E	14.2	B	23.9	B	23.2	B	17.6	B	15.6	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND		ND		280		230		1400		440			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	473		295		606		613		457		705	B	6.9E+02				
PYRENE	UG/KG	ND		ND		660		190		3500		1700			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	ND		ND		ND		ND		0.49		ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		0.73	B	ND		ND		ND		ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	315	B	220	B	169	B	543	B	280	B	75.8		8.5E+01				
THALLIUM	MG/KG	ND		ND		ND		ND		ND		0.76	B	5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	27.9		34.5	B	12.7		28.4		14		25.6		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	54.1	B	22.3		150	B E	634	B E	583	B E	115	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-16
AUS-0A2R - Detections of Constituents in PA/SI Trench Water Samples
(see Figure 5-5 for Locations)

Groundwater Samples		AUS-0A2R-001-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**E**
ALL VOC	UG/L	ND		
ALL SVOC	UG/L	ND		
ALL EXPLOSIVES	UG/L	ND		
ALUMINUM	UG/L	111000	C1	3.5E+03
ARSENIC	UG/L	18.4		5.0E+01
BARIUM	UG/L	2510	C1	2.0E+03
BERYLLIUM	UG/L	10.9	C1	4.0E+00
CADMIUM	UG/L	4.9		5.0E+00
CALCIUM	UG/L	283000		
CHROMIUM, TOTAL	UG/L	111	C1	1.0E+02
COBALT	UG/L	68.8		1.0E+03
COPPER	UG/L	80.5		6.5E+02
IRON	UG/L	84200	C1	5.0E+03
LEAD	UG/L	99.4	C1	7.5E+00
MAGNESIUM	UG/L	61700		
MANGANESE	UG/L	4180	C1	1.5E+02
MERCURY	UG/L	1		2.0E+00
NICKEL	UG/L	142	C1	1.0E+02
POTASSIUM	UG/L	8630		
SELENIUM	UG/L	3.6		5.0E+01
SODIUM	UG/L	45000		
VANADIUM	UG/L	169	C1	4.9E+01
ZINC	UG/L	432		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-17
AUS-0A4E - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-6 for Locations)

Soil Samples		AUS-0A4E-001				AUS-0A4E-002				AUS-0A4E-003				AUS-0A4E-004				AUS-0A4E-005				AUS-0A4E-006			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND				ND				ND	
ALL SVOC	UG/KG	--				--				--				--				--				--			
ALL EXPLOSIVES	UG/KG	ND				ND								ND				ND				ND			
cPAH	UG/KG	13.742				ND				84				470.8	H			507.35	H			490.92	H		
1-METHYLNAPHTHALENE	UG/KG	ND								200															
2-METHYLNAPHTHALENE	UG/KG	91				55				800				500				1900				53			
ACENAPHTHYLENE	UG/KG	ND				ND				350				ND				ND				ND			
ALUMINUM	MG/KG	6150	E			4010	E			3690	E			7930	E			8620	E			4510	E		
ANTHRACENE	UG/KG	ND				ND				27				ND				80				ND			
ANTIMONY	MG/KG	ND				0.62	B			ND				ND				ND				ND			
ARSENIC	MG/KG	4.2	H			5.1	H			5.8	H			5.7	H			7.2	H			3.2	H		
BARIUM	MG/KG	98.4				54.5				126				74.9				89.5				74.2			
BENZO(A)ANTHRACENE	UG/KG	ND				ND				28				66				100				ND			
BENZO(A)PYRENE	UG/KG	7.7				ND				56				ND				ND				ND			
BENZO(B)FLUORANTHENE	UG/KG	ND				ND				110				ND				ND				45			
BENZO(G,H,I)PERYLENE	UG/KG	12				ND				71				ND				ND				ND			
BENZO(K)FLUORANTHENE	UG/KG	6.2				ND				43				ND				ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					86								ND				55				1700	E		
BORON	MG/KG	ND				4.2	E			2.6	E			2	E			ND				2	E		
CADMIUM	MG/KG	0.26				1.9	B E			3.5	B E			ND				0.26				1.4	B E		
CALCIUM	MG/KG	52100	B			98100	B			130000	B			3120	B			7330	B			19100	B		
CHROMIUM, TOTAL	MG/KG	8.6	E			11.8	E			19.7	B E			10.2	E			11.7	E			15	B E		
CHRYSENE	UG/KG	30				ND				170				100				100				ND			
COBALT	MG/KG	ND				ND				ND				ND				5.6				ND			
COPPER	MG/KG	9.4				20.8	B			26.1	B			8.6				21.7	B			26.2	B		
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				10				ND				ND				ND			
DIBENZOFURAN	UG/KG					ND								180				430				ND			
DIMETHYL PHTHALATE	UG/KG					ND								ND				ND				290			
DI-N-BUTYL PHTHALATE	UG/KG					ND								ND				ND				89			
ETHYLBENZENE	UG/KG			ND				ND				ND				ND				ND				ND	
FLUORANTHENE	UG/KG	68				42				180				73				76				46			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				36				ND				ND				ND			
IRON	MG/KG	11700	E			11000	E			9120	E			13200	E			17400	E			13100	E		
LEAD	MG/KG	66	B			86	B			223	B			11.5				25.1				81.2	B		
MAGNESIUM	MG/KG	24900	B			57700	B			28600	B			2100	B			4690	B			8600	B		
MANGANESE	MG/KG	252	E			510	E			262	E			388	E			437	E			553	E		
MERCURY	MG/KG	ND				0.06				0.12				ND				ND				ND			
NAPHTHALENE	UG/KG	ND				ND				ND				170				880				ND			
N-HEXANE	UG/KG			ND				ND				ND				ND				ND				ND	
NICKEL	MG/KG	9				8.7				13.8	B			6.2				11				8.4			
PHENANTHRENE	UG/KG	68				71				180				410				620				64			
POTASSIUM	MG/KG	427				438				405				349				423				370			
PYRENE	UG/KG	46				67				140				120				170				55			
SELENIUM	MG/KG	0.67				0.53				0.55				0.87				1.4	E			0.8			
SILVER	MG/KG	ND				ND				ND				ND				0.25				ND			
SODIUM	MG/KG	ND				ND				272	B			ND				ND				ND			
THALLIUM	MG/KG	ND				ND				ND				ND				ND				ND			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	14				12.4				9.2				20.1				21.8				10.2			
XYLENES, TOTAL	UG/KG			ND				ND				ND				ND				ND				ND	
ZINC	MG/KG	42.3	B			150	B E			189	B E			39.8				47.7	B			60.7	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in a "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-17
AUS-0A4E - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-6 for Locations)

Soil Samples		AUS-0A4E-007		AUS-0A4E-009		AUS-0A4E-010		AUS-0A4E-011				AUS-0A4E-012		AUS-0A4E-013		AUS-0A4E-014				AUS-0A4E-015			
Constituents Detected	**Units**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG	ND		ND		ND				ND		ND		ND				ND				ND	
ALL SVOC	UG/KG							--								--				--			
ALL EXPLOSIVES	UG/KG							ND								ND				ND			
cPAH	UG/KG							ND								ND				ND			
1-METHYLNAPHTHALENE	UG/KG																						
2-METHYLNAPHTHALENE	UG/KG							ND								ND				ND			
ACENAPHTHYLENE	UG/KG							ND								ND				ND			
ALUMINUM	MG/KG							2470	E							5640	E			7240	E		
ANTHRACENE	UG/KG							ND								ND				ND			
ANTIMONY	MG/KG							ND												ND			
ARSENIC	MG/KG							3.3	H							3.6	H			8	H		
BARIUM	MG/KG							23.1								124				125			
BENZO(A)ANTHRACENE	UG/KG							ND								ND				ND			
BENZO(A)PYRENE	UG/KG							ND								ND				ND			
BENZO(B)FLUORANTHENE	UG/KG							ND								ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG							ND								ND				ND			
BENZO(K)FLUORANTHENE	UG/KG							ND								ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG							120								59				48			
BORON	MG/KG							ND								4.7	B E			ND			
CADMIUM	MG/KG							0.95	B E							ND				0.61	B E		
CALCIUM	MG/KG							180000	B							5780	B			3580	B		
CHROMIUM, TOTAL	MG/KG							3.5								10.7	E			13.9	B E		
CHRYSENE	UG/KG							ND								ND				ND			
COBALT	MG/KG							ND								5				10.5	B		
COPPER	MG/KG							15.4	B							8.7				20.9	B		
DIBENZ(A,H)ANTHRACENE	UG/KG							ND								ND				ND			
DIBENZOFURAN	UG/KG							ND								ND				ND			
DIMETHYL PHTHALATE	UG/KG							ND								ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG							ND								ND				ND			
ETHYLBENZENE	UG/KG	ND		ND		ND				ND		ND		ND				ND				ND	
FLUORANTHENE	UG/KG							ND								ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG							ND								ND				ND			
IRON	MG/KG							5670	E							11100	E			16800	E		
LEAD	MG/KG							102	B							11.3				36.6	B		
MAGNESIUM	MG/KG							106000	B							3440	B			2410	B		
MANGANESE	MG/KG							184	E							313	E			728	E		
MERCURY	MG/KG							ND								0.18	E			0.24	E		
NAPHTHALENE	UG/KG							ND								ND				ND			
N-HEXANE	UG/KG	ND		ND		ND				ND		ND		ND				ND				ND	
NICKEL	MG/KG							7.6								10.6				13.2	B		
PHENANTHRENE	UG/KG							ND								ND				ND			
POTASSIUM	MG/KG							283								364				462			
PYRENE	UG/KG							ND								ND				ND			
SELENIUM	MG/KG							ND								0.56				0.88			
SILVER	MG/KG							ND								ND				ND			
SODIUM	MG/KG							ND								264	B			ND			
THALLIUM	MG/KG							ND								ND				ND			
TOLUENE	UG/KG	ND		ND		ND				ND		ND		ND				ND				ND	
VANADIUM	MG/KG							2.9								20.4				25.8			
XYLENES, TOTAL	UG/KG	ND		ND		ND				ND		ND		ND				ND				ND	
ZINC	MG/KG							262	B E							26.3				147	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in a "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-17
AUS-0A4E - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-6 for Locations)

Soil Samples		AUS-0A4E-016				AUS-0A4E-017						AUS-0A4E-018				AUS-0A4E-019				AUS-0A4E-020				AUS-0A4E-W01	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**6 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG			ND				--		--				ND				ND				ND			
ALL SVOC	UG/KG	ND				--				--		--				--				--				--	
ALL EXPLOSIVES	UG/KG	ND										ND				ND				ND				ND	
cPAH	UG/KG	ND				15.1936				ND		ND				473.2	H			311.343	H			ND	
1-METHYLNAPHTHALENE	UG/KG					ND				72														ND	
2-METHYLNAPHTHALENE	UG/KG	ND				76				160		1300				1000				ND				ND	
ACENAPHTHYLENE	UG/KG	ND				ND				ND		ND				ND				ND				ND	
ALUMINUM	MG/KG	6510	E			466	E			7450	E	2710	E			3620	E			6770	E			7510	E
ANTHRACENE	UG/KG	ND				ND				ND		ND				43				ND				ND	
ANTIMONY	MG/KG	0.29				ND						0.31				2.3	B			ND				ND	
ARSENIC	MG/KG	6.7	H			ND				4.1	H	ND				15.4	B E H			9.7	E H			5.4	H
BARIUM	MG/KG	174				4.1				137		31.7				89.5				86.9				111	
BENZO(A)ANTHRACENE	UG/KG	ND				ND				ND		ND				90				77				ND	
BENZO(A)PYRENE	UG/KG	ND				10				ND		ND				ND				64				ND	
BENZO(B)FLUORANTHENE	UG/KG	ND				ND				ND		ND				ND				120				ND	
BENZO(G,H,I)PERYLENE	UG/KG	ND				25				ND		ND				ND				ND				ND	
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				ND		ND				ND				ND				ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND										ND				ND				43					
BORON	MG/KG	ND				ND				ND		ND				14.1	B E			ND				ND	
CADMIUM	MG/KG	0.21				ND				0.08		0.51	B E			1.1	B E			0.63	B E			ND	
CALCIUM	MG/KG	33700	B			177000	B			2020		163000	B			78700	B			59200	B			10400	B
CHROMIUM, TOTAL	MG/KG	14.9	B E			1.1				12.3	E	4.5				13.4	E			11.5	E			10.1	E
CHRYSENE	UG/KG	ND				ND				ND		ND				100				93				ND	
COBALT	MG/KG	11.6	B			ND				14.5	B	0.99				5.9				5.3				5.5	
COPPER	MG/KG	9.5	B			ND				9.5	B	7.6				816	B E			12	B			10.6	B
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND		ND				ND				ND				ND	
DIBENZOFURAN	UG/KG	ND										290				620				ND					
DIMETHYL PHTHALATE	UG/KG	ND										ND				ND				ND					
DI-N-BUTYL PHTHALATE	UG/KG	ND										ND				66				ND					
ETHYLBENZENE	UG/KG			ND				20		1400				ND				ND				ND			
FLUORANTHENE	UG/KG	ND				14				ND		65				94				170				ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				ND		ND				ND				ND				ND	
IRON	MG/KG	16900	E			1660	E			11300	E	6840	E			22900	B E			15600	E			12500	E
LEAD	MG/KG	11.1				5.3				11		48	B			128	B			18.8				24.8	
MAGNESIUM	MG/KG	3660	B			114000	B			1810		98200	B			47700	B			9380	B			4970	B
MANGANESE	MG/KG	692	E			118	E			268	E	283	E			443	E			346	E			219	E
MERCURY	MG/KG	ND				ND				0.1		ND				0.14				0.16	E			ND	
NAPHTHALENE	UG/KG	ND				ND				150		620				340				ND				ND	
N-HEXANE	UG/KG			ND				6		6600				ND				ND				ND			
NICKEL	MG/KG	25.4	B			2.5				15	B	5.4				18.8	B			13	B			10.6	
PHENANTHRENE	UG/KG	ND				17				ND		310				610				130				7.1	
POTASSIUM	MG/KG	331				151				329		289				234				487				427	
PYRENE	UG/KG	ND				18				ND		130				190				200				ND	
SELENIUM	MG/KG	0.5				ND				0.26		ND				ND				ND				ND	
SILVER	MG/KG	ND				ND				ND		ND				ND				ND				ND	
SODIUM	MG/KG	ND				ND				ND		ND				ND				ND				ND	
THALLIUM	MG/KG	ND				ND				ND		ND				0.21				ND				ND	
TOLUENE	UG/KG			ND				ND		ND				ND				ND				ND			
VANADIUM	MG/KG	21.8				0.75				18.9		7.7				12.1				18.9				21.4	
XYLENES, TOTAL	UG/KG			ND				3		830	E			ND				ND				ND			
ZINC	MG/KG	36.8				10.2				34.1		53.3	B			321	B E			62.2	B			35.1	

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in a "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-17
AUS-0A4E - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-6 for Locations)

Soil Samples		AUS-0A4E-W01 (cont)						AUS-0A4E-W02								AUS-0A4E-W03						Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**2 ft**	**CE**	**5 ft**	**CE**	**15 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**12 ft**	**CE**	**18 ft**	**CE**	**24 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG	--		--		--				ND		ND		ND		ND		ND		ND						
ALL SVOC	UG/KG							ND								ND		ND		ND						
ALL EXPLOSIVES	UG/KG																									
cPAH	UG/KG							ND								ND		ND		ND				2.1E+02		
1-METHYLNAPHTHALENE	UG/KG							ND								ND		ND		ND			4.6E+04	1.9E+04	8.4E+04	7.2E+03
2-METHYLNAPHTHALENE	UG/KG							ND								ND		ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG							ND								ND		ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG							5860	E							7560	E	9340	B E	7150	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG							ND								ND		ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG															ND		ND		ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG							7.3	H							ND		4.2	H	2.8	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG							127								58.6		361	B	37.1		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG							ND								ND		ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG							ND								ND		ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG							ND								ND		ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG							ND								ND		ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG							ND								ND		ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG																						9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG							2.1	E							ND		3.5	E	3.8	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG							ND								ND		ND		0.25		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG							977								1920		2730		31400	B	2.9E+03				
CHROMIUM, TOTAL	MG/KG							9.2	E							12.4	E	19.8	B E	14.3	B E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG							ND								ND		ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG							7.5								7.5		5.9		7.7		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG							5.6								5.5		12.4	B	13.5	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG							ND								ND		ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG																						2.5E+04	1.6E+05		1.5E+04
DIMETHYL PHTHALATE	UG/KG																						2.0E+05	1.3E+06		3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG																						7.1E+02	2.3E+06	2.3E+06	2.3E+06
ETHYLBENZENE	UG/KG	ND		ND		ND				ND		ND		ND		ND		ND		ND			5.0E+03	5.8E+04	1.3E+04	1.3E+04
FLUORANTHENE	UG/KG							ND								ND		ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG							ND								ND		ND		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG							13000	E							11700	E	19100	E	19900	B E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG							14.1								9.6		8.3		7.7		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG							1090								1500		3000	B	10300	B	1.8E+03				
MANGANESE	MG/KG							879	E							185	E	304	E	237	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG							ND								ND		ND		ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG							ND								ND		ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
N-HEXANE	UG/KG	ND		ND		ND				ND		ND		ND		ND		ND		ND				4.0E+04		
NICKEL	MG/KG							6.8								8.3		19	B	20.3	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG							ND								ND		ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG							315								335		900	B	926	B	6.9E+02				
PYRENE	UG/KG							ND								ND		ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG							1								ND		ND		ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG							ND								ND		ND		ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG							ND								373	B	375	B	308	B	8.5E+01				
THALLIUM	MG/KG							ND								ND		ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG	ND		2		ND				ND		ND		ND		ND		ND		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
VANADIUM	MG/KG							29.5								17		15.7		16.2		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
XYLENES, TOTAL	UG/KG	2		ND		2				ND		ND		ND		ND		ND		ND			6.0E+02	9.0E+04	2.1E+05	1.5E+05
ZINC	MG/KG							22.5								19.7		50.4	B	65.1	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in a "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-18
AUS-0A4E - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-6 for Locations)

Sediment Samples		AUS-0A4E-007		AUS-0A4E-008		AUS-0A4E-009		AUS-0A4E-010		AUS-0A4E-012		AUS-0A4E-013		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--		--		--		--		--		ND						
ALL EXPLOSIVES	UG/KG	ND		ND		ND				ND		ND						
cPAH	UG/KG	93.275		15.756		ND		25.793		554.457	H	ND				2.1E+02		
1-METHYLNAPHTHALENE	UG/KG	160		44				200								1.9E+04	8.4E+04	7.2E+03
2-METHYLNAPHTHALENE	UG/KG	300	E	67		50		300	E	130	E	ND			7.0E+01	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG	320	E	ND		ND		150	E	ND		ND			4.4E+01	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	7180		1580		8580		10800		6240		9010		1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG	ND		7.7		ND		13		ND		ND			5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.54		0.29		ND		ND		ND		ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	14.6	B E H	ND		23.6	B E H	4.7	H	7	H	12	B E H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	233	B	13.6		128		120		98.3		105		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		8		ND		ND		ND		ND			1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	74		7		ND		15		ND		ND			1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	75	E	16		ND		26		ND		ND			2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	100	E	19	E	ND		20	E	ND		ND			1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	11		ND		ND		7.9		ND		ND			2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND		0.78		ND		ND		ND		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					70				80		ND			7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	7.3		ND		3.7		ND		2		1.7				1.8E+04		
CADMIUM	MG/KG	1.7	B E	0.54		0.35		0.46		0.69		ND		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	17200	B	185000	B	7620	B	3940	B	15600	B	5480	B	1.4E+03				
CHROMIUM, TOTAL	MG/KG	14		3.6		18.4	B	15.7		12.8		14.4		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	380	E	25		ND		34		57		ND			1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	21.5	B	ND		11	B	5.8		5.4		6.3		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	33.1	B E	6.9		28.9	B	23.8	B	28.9	B	17.5	B	1.7E+01	3.2E+01	4.1E+03		5.9E+04
FLUORANTHENE	UG/KG	130		26		ND		35		48		ND			4.2E+02	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	44	E	13		ND		12		ND		ND			1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	21100	B	7280		30100	B	14900		13500		21700	B	2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	79.2	B E	12.5		78	B E	54.2	B E	91	B E	32.3	B	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	8620	B	53100	B	4520	B	2790	B	9240	B	3790	B	1.9E+03				
MANGANESE	MG/KG	5410	B E H	354		937	E	224		421		553		1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.12		ND		0.08		0.09		0.09		ND		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND		ND		80		79		ND			1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	26.7	B E	4.7		15.5		15.2		11.2		12.2		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	110		21		ND		51		110		ND			2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	582		225		659		643		470		501		1.4E+03				
PYRENE	UG/KG	390	E	22		ND		27		81		ND			2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	3.2	B	ND		1.8	B	0.54		0.81	B	1	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	1.2	E	ND		0.44		ND		ND		0.24		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	263		ND		ND		ND		ND		ND		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG	51500																
VANADIUM	MG/KG	23.8		4.2		48.5	B	18.2		20.5		32.9	B	2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	163	B E	25.4		113	B	143	B E	123	B E	61.3	B	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class II GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-19
AUS-0A4E - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-6 for Locations)

Surface Water Samples		AUS-0A4E-008-SW		SW BkgL	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL SVOC	UG/L	ND				
ALL EXPLOSIVES	UG/L	ND				
ALUMINUM	UG/L	367	B E	2.0E+02	8.7E+01	
BARIUM	UG/L	75.4	B	2.3E+01	5.0E+03	5.0E+03
CALCIUM	UG/L	62900	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	1.5		1.0E+01	2.1E+02	
IRON	UG/L	338	B	1.0E+02	1.0E+03	1.0E+03
MAGNESIUM	UG/L	20700	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	298		5.8E+02	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L	0.14		2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	0.12	B	5.0E-02		
POTASSIUM	UG/L	926		1.6E+03	5.3E+04	
SODIUM	UG/L	61900	B	3.2E+03	6.8E+05	
ZINC	UG/L	6.4		2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-20
AUS-0A4E - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-6 for Locations)

Groundwater Samples		AUS-0A4E-W01-GW		AUS-0A4E-W02-GW		AUS-0A4E-W03-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		ND		ND		
ALL SVOC	UG/L	ND		ND		ND		
ALL EXPLOSIVES	UG/L	--						
1,3,5-TRINITROBENZENE	UG/L	2.5						2.1E+02
ALUMINUM	UG/L	ND		1320		138		3.5E+03
BARIUM	UG/L	ND		ND		65.3		2.0E+03
CALCIUM	UG/L	141000		34100		86400		
IRON	UG/L	ND		805		155		5.0E+03
MAGNESIUM	UG/L	58100		14100		32700		
MANGANESE	UG/L	811	C1	ND		585	C1	1.5E+02
NICKEL	UG/L	ND		ND		1.8		1.0E+02
POTASSIUM	UG/L	1350		1260		ND		
SODIUM	UG/L	134000		105000		205000		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-21
AUS-0A4W - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-7 for Locations)

Soil Samples		AUS-0A4W-001				AUS-0A4W-002				AUS-0A4W-003				AUS-0A4W-004				AUS-0A4W-005				AUS-0A4W-006				AUS-0A4W-007			
Constituents Detected	**Units**	**2 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG	--		ND				--				ND				ND				ND				ND				ND	
ALL SVOC	UG/KG	ND		ND		ND																							
ALL EXPLOSIVES	UG/KG	ND		ND		ND																							
cPAH	UG/KG	ND		ND		ND																							
2-METHYLNAPHTHALENE	UG/KG	ND		ND		ND																							
ACENAPHTHYLENE	UG/KG	ND		ND		ND																							
ACETONE	UG/KG	ND		ND				35				ND				ND				ND				ND				ND	
ALUMINUM	MG/KG	16500	B E	8260	E	6470	E			5070	E			6360	E			5430	E			8330	E			10500	B E		
ANTHRACENE	UG/KG	ND		ND		ND																							
ANTIMONY	MG/KG	ND		ND		0.27				4.4	B			4	B			4.5	B			1.5	B			ND			
ARSENIC	MG/KG	10.8	E H	4.9	H	7.5	H			60.1	B E H W1 W2			10.2	E H			7.2	H			8.6	H			10.2	E H		
BARIUM	MG/KG	68.5		78.6		81.9				94.7				214				142				75.4				69.1			
BENZO(A)ANTHRACENE	UG/KG	ND		ND		ND																							
BENZO(A)PYRENE	UG/KG	ND		ND		ND																							
BENZO(B)FLUORANTHENE	UG/KG	ND		ND		ND																							
BENZO(K)FLUORANTHENE	UG/KG	ND		ND		ND																							
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND		ND																							
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND		ND																							
BORON	MG/KG	ND		ND		ND				34.2	B E			5.1	B E			ND				ND				ND			
CADMIUM	MG/KG	ND		ND		ND				4520	B E H W1 W2			45.8	B E H W1 W2			167	B E H W1 W2			132	B E H W1 W2			8.3	B E W1 W2		
CALCIUM	MG/KG	620		1030		828				43600	B			3070	B			1700				955				1020			
CARBAZOLE	UG/KG	ND		ND		ND																							
CHLOROFORM	UG/KG	2		ND				ND				ND				ND				ND				ND				ND	
CHROMIUM, TOTAL	MG/KG	16.3	B E	14.9	B E	9.8	E			234	B E W1 W2			298	B E W1 W2			229	B E W1 W2			144	B E W1 W2			21.6	B E		
CHRYSENE	UG/KG	ND		ND		ND																							
COBALT	MG/KG	5.1		5.7		9.8	B			32.8	B E			18.9	B			7.9				6.9				ND			
COPPER	MG/KG	15.5	B	10.2	B	6.4				178	B E			88.8	B E			42.6	B E			12.1	B			9.8	B		
DIBENZOFURAN	UG/KG	ND		ND		ND																							
FLUORANTHENE	UG/KG	ND		ND		ND																							
HMX	UG/KG	ND		ND		ND																							
IRON	MG/KG	24800	B E	16700	E	15700	E			21600	B E			27000	B E			13200	E			18100	E			20100	B E		
LEAD	MG/KG	12.7		7.6		15.8				275	B			160	B			39.3	B			28.4	B			15.4			
MAGNESIUM	MG/KG	2670	B	2100	B	1370				21000	B			1560				1110				1640				1860	B		
MANGANESE	MG/KG	159	E	339	E	1010	E			765	E			2160	E H			1190	E			500	E			477	E		
MERCURY	MG/KG	ND		ND		ND				0.72	B E			0.25	E			0.14				0.07				0.076			
NAPHTHALENE	UG/KG	ND		ND		ND																							
NICKEL	MG/KG	12.5		15.3	B	9.8				77.8	B E			77.3	B E			114	B E W2			32.7	B E			8.8			
PHENANTHRENE	UG/KG	ND		ND		ND																							
POTASSIUM	MG/KG	674		386		419				496				786	B			363				520				456			
PYRENE	UG/KG	ND		ND		ND																							
SELENIUM	MG/KG	0.55		0.58		0.93				4	B E			0.79				1.2	E			0.75				0.53			
THALLIUM	MG/KG	0.19		ND		ND				1.2	B E			ND				ND				ND				ND			
TOLUENE	UG/KG	ND		ND				ND				ND				ND				ND				ND				ND	
TOTAL ORGANIC CARBON	MG/KG																												
VANADIUM	MG/KG	27.1		26.1		21.3				29.1				19.3				18.1				23.8				28.7			
XYLENES, TOTAL	UG/KG	ND		ND				ND				ND				ND				ND				ND				ND	
ZINC	MG/KG	47.2	B	32.6		28.9				780	B E			728	B E			173	B E			209	B E			41			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-21
AUS-0A4W - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-7 for Locations)

Soil Samples		AUS-0A4W-008				AUS-0A4W-009				AUS-0A4W-010				AUS-0A4W-011				AUS-0A4W-012				AUS-0A4W-013		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**6 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND				ND				ND				ND		--		--		--						
ALL SVOC	UG/KG													ND				--				ND						
ALL EXPLOSIVES	UG/KG													ND				--				ND						
cPAH	UG/KG													ND				446.139	H			ND				2.1E+02		
2-METHYLNAPHTHALENE	UG/KG													ND				3500				ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG													ND				67				ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ACETONE	UG/KG			ND				ND				ND				ND				ND		30			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	9590	B E			7230	E			9560	B E			7940	E			5490	E			4770	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG													ND				65				ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND				0.45	B			0.35				0.79	B			0.36				ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.2	H			7.3	H			7.9	H			10.4	E H			7.5	H			3.4	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	124				85.5				103				83.9				90.7				67.8		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG													ND				130				ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG													ND				97				ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG													ND				63				ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(K)FLUORANTHENE	UG/KG													ND				100				ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG													ND				46				ND			2.4E+02	9.3E+05	9.3E+05	9.3E+05
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG													ND				100				ND			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND				3.8	E			ND				3.6	E			3.3	E			1.8	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND				12.6	B E W1 W2			8.4	B E W1 W2			1.9	B E			5	B E			ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	968				10500	B			8050	B			24000	B			3430	B			900		2.9E+03				
CARBAZOLE	UG/KG													ND				92				ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHLOROFORM	UG/KG			ND				ND				ND				ND				ND		ND			1.2E+03	4.7E+02	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	11.7	E			18.7	B E			17.7	B E			32.8	B E			11.1	E			7.3	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG													ND				170				ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	ND				7.5				ND				7				7.4				7.1		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	8.8				15.3	B			14.8	B			13.6	B			30.3	B			3.6		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG													ND				790				ND			2.5E+04	1.6E+05		1.5E+04
FLUORANTHENE	UG/KG													ND				120				ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG													ND				3800							2.5E+04	3.1E+06		5.7E+03
IRON	MG/KG	13000	E			20200	B E			18000	E			22200	B E			14400	E			14100	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	11.6				29.5	B			17.6				56.2	B			27.7	B			9.5		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1760				6260	B			4260	B			11600	B			1330				676		1.8E+03				
MANGANESE	MG/KG	124	E			529	E			274	E			700	E			1200	E			360	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND				0.07				0.06				0.22	E			0.18	E			ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG													ND				1800				ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	7.1				13.6	B			14.1	B			13.3	B			7.5				3.8		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG													ND				990				ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	466				589				581				714	B			399				213		6.9E+02				
PYRENE	UG/KG													ND				320				ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	ND				0.24				ND				0.64				1.1	E			ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
THALLIUM	MG/KG	ND				ND				ND				ND				ND				ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG			ND				ND				ND				ND				3		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL ORGANIC CARBON	MG/KG													16400														
VANADIUM	MG/KG	17.4				19.1				20.9				28.1				19.1				19.8		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
XYLENES, TOTAL	UG/KG			ND				ND				ND				ND				8		ND			6.0E+02	9.0E+04	2.1E+05	1.5E+05
ZINC	MG/KG	30.9				59.7	B			47.1	B			97.1	B			503	B E			12.3		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-22
AUS-0A06 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-8 for Locations)

Soil Samples		AUS-0A06-001		AUS-0A06-002		AUS-0A06-003		AUS-0A06-004		AUS-0A06-005		AUS-0A06-006		AUS-0A06-007		AUS-0A06-008		AUS-0A06-009		AUS-0A06-010		AUS-0A06-011		AUS-0A06-012	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL SVOC		ND		--		--		--		--		--		--		--		--		--		--		--	
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
cPAH	UG/KG	ND		427.409	H	467.57	H	923.58	H	170.088		392.724	H	336.2	H	ND		416.3	H	454.255	H	457.41	H	365.35	H
2,4,5-TRICHLOROPHENOL	UG/KG	ND		ND		ND		ND		40		ND		ND		ND		ND		ND		ND		ND	
2,4,6-TRICHLOROPHENOL	UG/KG	ND		ND		ND		ND		42		ND		ND		ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND		230		ND		ND		ND		96		ND		ND		ND		ND		89		ND	
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND		ND		ND		ND		42		ND		ND		ND		ND		ND		ND		ND	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND		ND		ND		ND		53		ND		ND		ND		ND		ND		ND		ND	
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND		ND		ND		ND		37		ND		ND		ND		ND		ND		ND		ND	
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		ND		ND		ND		71		ND		ND		ND		ND		ND		ND		ND	
4-NITROPHENOL	UG/KG	ND		ND		ND		ND		59		ND		ND		ND		ND		ND		ND		ND	
ACENAPHTHENE	UG/KG	ND		ND		ND		ND		41		ND		ND		ND		ND		ND		ND		ND	
ACENAPHTHYLENE	UG/KG	ND		ND		ND		ND		37		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG	5270	E	1600	E	1470	E	4900	E	755	E	735	E	8310	E	17300	B E	6350	E	2580	E	8320	E	6570	E
ANTHRACENE	UG/KG	ND		ND		ND		120		42		ND		ND		ND		ND		ND		63		ND	
ANTIMONY	MG/KG	ND		ND		ND				ND		ND		ND		ND		ND		ND		0.41		ND	
ARSENIC	MG/KG	6	H	2.3	H	1.4		11.5	E H	ND		5.8	H	4.7	H	10.6	E H	ND		1.9	H	7.3	H	ND	
BARIUM	MG/KG	71.4		26		15		105		8.8		25.7		109		49.2		66.8		30.8		82.5		108	
BENZO(A)ANTHRACENE	UG/KG	ND		ND		ND		610		89		ND		110		ND		140		49		330		93	
BENZO(A)PYRENE	UG/KG	ND		ND		ND		570	H	97		ND		94		ND		150		ND		310	H	110	
BENZO(B)FLUORANTHENE	UG/KG	ND		ND		50		630		110		59		140		ND		200		62		340		180	
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND		ND		360		42		ND		53		ND		100		ND		160		74	
BENZO(K)FLUORANTHENE	UG/KG	ND		ND		52		580		89		ND		150		ND		110		ND		400		140	
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND		ND		ND		73		ND		ND		ND		ND		ND		ND		ND	
BIS(2-CHLOROISOPROPYL) ETHER	UG/KG	ND		ND		ND		ND		54		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND		61		96		99		ND		ND		ND		63		ND		120		70	
BORON	MG/KG	1.6	E	ND		ND		ND		ND		ND		3	E	5.2	B E	ND		6.5	B E	5.7	B E	ND	
CADMIUM	MG/KG	ND		0.3	E	0.31	E	0.18		ND		0.31	E	ND		ND		ND		0.33	E	0.53	B E	ND	
CALCIUM	MG/KG	1650		285000	B	193000	B	84600	B	188000	B	270000	B	2200		49200	B	3160	B	152000	B	29100	B	16200	B
CARBAZOLE	UG/KG	ND		ND		ND		48		51		ND		ND		ND		ND		ND		45		ND	
CHROMIUM, TOTAL	MG/KG	7.7	E	3.3		2.5		12	E	1.4		2.8		16	B E	18.1	B E	8.4	E	3.7		13.1	E	13.4	E
CHRYSENE	UG/KG	ND		59		50		780		98		74		200		ND		200		55		410		150	
COBALT	MG/KG	4.1		ND		ND		5.1		ND		ND		ND		ND		ND		ND		6		4.9	
COPPER	MG/KG	5.9		3.8		2.5		6.2		2.7		4		10.3	B	14	B	5.4		5.9		13.1	B	9.1	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		ND		190		47		ND		ND		ND		ND		ND		61		ND	
DIBENZOFURAN	UG/KG	ND		610		ND		ND		40		360		ND		ND		ND		ND		46		ND	
DIETHYL PHTHALATE	UG/KG	ND		ND		ND		ND		50		ND		ND		ND		ND		ND		ND		ND	
DIMETHYL PHTHALATE	UG/KG	ND		ND		ND		ND		40		ND		ND		ND		ND		ND		ND		ND	
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND		ND		43		59		ND		ND		ND		ND		ND		ND		ND	
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND		ND		ND		120		ND		ND		ND		ND		ND		ND		ND	
FLUORANTHENE	UG/KG	ND		ND		59		1000		110		57		280		44		240		70		710		130	
FLUORENE	UG/KG	ND		ND		ND		ND		38		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	ND		ND		ND		ND		39		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND		ND		330		52		ND		55		ND		110		ND		150		65	
IRON	MG/KG	11300	E	5200	E	3150	E	17900	E	2100	E	7110	E	16300	E	24900	B E	10400	E	4530	E	17600	E	16100	E
LEAD	MG/KG	14.5		ND		9.1		18.5		13.4		ND		21		16.4		12.3		22.1		31.9	B	11.6	
MAGNESIUM	MG/KG	751		13700	B	90900	B	39400	B	93600	B	15300	B	2100	B	27100	B	1560		90700	B	5230	B	8390	B
MANGANESE	MG/KG	490	E	148	E	295	E	759	E	177	E	284	E	244	E	277	E	264	E	274	E	491	E	394	E
MERCURY	MG/KG	0.07		0.11		0.063		0.14		0.052		0.051		0.06		0.07		0.48	B E	0.06		0.09		0.1	
NAPHTHALENE	UG/KG	ND		160		ND		ND		ND		110		ND		ND		ND		ND		49		ND	
NICKEL	MG/KG	6.2		7		12.8	B	7.5		2.7		11.4		12.9	B	9.9		5.5		4.3		12.3		15.6	B
NITROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-NITROSODI-N-PROPYLAMINE	UG/KG	ND		ND		ND		ND		41	W1 W2	ND		ND		ND		ND		ND		ND		ND	
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND		ND		ND		38		ND		ND		ND		ND		ND		ND		ND	
PENTACHLOROPHENOL	UG/KG	ND		ND		ND		ND		47	W1 W2	ND		ND		ND		ND		ND		ND		ND	
PHENANTHRENE	UG/KG	ND		350		ND		630		70		240		ND		ND		140		ND		390		ND	
PHENOL	UG/KG	ND		ND		57		ND		40		ND		ND		ND		ND		ND		ND		ND	
POTASSIUM	MG/KG	246		496		280		379		193		362		392		876	B	488		492		880	B	747	B
PYRENE	UG/KG	ND		ND		91		1700		150		73		220		ND		370		110		820		260	
SELENIUM	MG/KG	1.1	E	ND		ND		1.1	E	ND		ND		0.35		ND		0.82		ND		0.6		0.83	
THALLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		0.2		ND		ND		ND		ND	
TOTAL ORGANIC CARBON	MG/KG																								
VANADIUM	MG/KG	18.7		2.4		1.4		19.4		ND		0.88		22		27.5		16.2		4.1		17.8		18.8	
ZINC	MG/KG	21.7		36.2		47.3	B	33.2		16.1		29.9		35		44.8	B	24.6		32		63.1	B	37.5	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-22
AUS-0A06 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-8 for Locations)

Soil Samples		AUS-0A06-013		AUS-0A06-014		AUS-0A06-015		AUS-0A06-016		AUS-0A06-017		AUS-0A06-018		AUS-0A06-019		AUS-0A06-020		AUS-0A06-021		AUS-0A06-022		AUS-0A06-023		AUS-0A06-024	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL SVOC		--		ND		ND		--		--		--		ND		--		--		--		--		--	
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		--	
cPAH	UG/KG	582.01	H	ND		ND		13074	H	3502.3	H	483.06	H	ND		506.3	H	462.041	H	319.66	H	936.58	H	1237.2	H
2,4,5-TRICHLOROPHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4,6-TRICHLOROPHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		59		ND		130		70	
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-NITROPHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ACENAPHTHENE	UG/KG	ND		ND		ND		45		430		ND		ND		ND		ND		ND		ND		88	
ACENAPHTHYLENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG	7430	E	9440	B E	466	E	6620	E	5760	E	5790	E	2850	E	5260	E	860	E	6770	E	4480	E	5250	E
ANTHRACENE	UG/KG	ND		ND		ND		560		1000		ND		ND		ND		ND		ND		140		220	
ANTIMONY	MG/KG	0.28		ND		ND		ND		ND		ND		ND		ND		ND		ND				ND	
ARSENIC	MG/KG	6.7	H	7.7	H	ND		ND		ND		ND		ND		ND		ND		4.2	H	2.7	H	3.6	H
BARIUM	MG/KG	115		117		3.1		109		67.5		50		19.9		74.9		27.1		75.1		97		84.5	
BENZO(A)ANTHRACENE	UG/KG	240		ND		ND		8700	E H W1 W2	2700	H W1 W2	270		ND		230		ND		63		530		840	
BENZO(A)PYRENE	UG/KG	270	H	ND		ND		8400	E H W1 W2	2200	H	310	H	ND		220	H	ND		64		490	H	790	H
BENZO(B)FLUORANTHENE	UG/KG	480		ND		ND		10000	E H W1 W2	2800	E H	330		ND		300		ND		66		490		1000	
BENZO(G,H,I)PERYLENE	UG/KG	130		ND		ND		4100		1100		170		ND		120		ND		ND		330		450	
BENZO(K)FLUORANTHENE	UG/KG	360		ND		ND		7300		1900		270		ND		200		ND		66		490		710	
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-CHLOROISOPROPYL) ETHER	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND		ND		80		54		50		ND		55		ND		ND		100		150	
BORON	MG/KG	3.9	E	3.3	E	ND		ND		ND		ND		ND		ND		ND		1.7	E	ND		ND	
CADMIUM	MG/KG	ND		ND		ND		0.2		ND		ND		0.089		0.12		0.39	B E	ND		0.16		0.43	B E
CALCIUM	MG/KG	35700	B	2100		284000	B	3450	B	2960	B	17000	B	66000	B	5380	B	348000	B	2480		84900	B	148000	B
CARBAZOLE	UG/KG	ND		ND		ND		360		660	W1 W2	ND		ND		ND		ND		ND		78		130	
CHROMIUM, TOTAL	MG/KG	11.4	E	13.7	E	1.1		11.6	E	8.7	E	7.8	E	7.3	E	10.5	E	2.2		9.4	E	6.2	E	7.5	E
CHRYSENE	UG/KG	410		ND		ND		11000	E	3300		360		ND		300		41		100		680		1100	
COBALT	MG/KG	6.2		6.1		ND		5.2		ND		ND		ND		4.5		ND		ND		ND		ND	
COPPER	MG/KG	8.5		11.5	B	ND		5.5		6.8		7.9		4.5		32.4	B E	ND		6.7		9.1		9.5	B
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		ND		2300	H W1 W2	620	H	94		ND		ND		ND		ND		ND		210	
DIBENZOFURAN	UG/KG	ND		ND		ND		ND		160		ND		ND		ND		210		ND		110		150	
DIETHYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
DIMETHYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND		ND		130		ND		ND		ND		ND		ND		ND		ND		99	
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
FLUORANTHENE	UG/KG	430		ND		ND		12000		6500		250		ND		510		ND		130		870		1600	
FLUORENE	UG/KG	ND		ND		ND		49		480		ND		ND		ND		ND		ND		ND		85	
HEXACHLOROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	160		ND		ND		4200	H	1100		160		ND		110		ND		ND		290		450	
IRON	MG/KG	14600	E	18600	E	991	E	15500	E	10500	E	11400	E	7710	E	13500	E	5800	E	11500	E	9170	E	11800	E
LEAD	MG/KG	15.8		12.2		ND		27.7	B	17.6		37.3	B	11.5		48.8	B	ND		12.5		8.8		15.5	
MAGNESIUM	MG/KG	17000	B	2440	B	31100	B	1380		1330		5340	B	19300	B	1200		9820	B	1390		24700	B	47500	B
MANGANESE	MG/KG	751	E	480	E	23.3		918	E	167	E	194	E	215	E	554	E	307	E	289	E	324	E	330	E
MERCURY	MG/KG	0.09		0.12		ND		0.12		0.12		0.076		ND		0.13		0.073		0.08		0.13		0.11	
NAPHTHALENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		71		ND		85		74	
NICKEL	MG/KG	9		12.8	B	ND		7.2		6.3		6.6		7.6		7.4		9		7.1		8		11.7	
NITROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		550	W1 W2
N-NITROSODI-N-PROPYLAMINE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		240	
PENTACHLOROPHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
PHENANTHRENE	UG/KG	120		ND		ND		3100		5000		58		ND		260		150		ND		660		1200	
PHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
POTASSIUM	MG/KG	583		403		145		263		469		432		362		900	B	280		400		2090	B	1370	B
PYRENE	UG/KG	600		ND		ND		11000		5600		560		ND		570		ND		97		1500		2400	
SELENIUM	MG/KG	ND		0.25		ND		1.3	E	0.69		0.47		0.26		0.95		0.29		0.49		ND		ND	
THALLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TOTAL ORGANIC CARBON	MG/KG	38700																							
VANADIUM	MG/KG	18.1		21.5		ND		24		15.8		14.1		6.5		18.6		2.2		17.6		10.1		11	
ZINC	MG/KG	36.8		38.1		6.6		58.2	B	25.8		38.7		26.2		51	B	48.1	B	26.6		43.6	B	51.2	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-22
AUS-0A06 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-8 for Locations)

Soil Samples		AUS-0A06-025		AUS-0A06-026		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC		--		--						
ALL EXPLOSIVES	UG/KG	ND		ND						
cPAH	UG/KG	5406.5	H	811.79	H			2.1E+02		
2,4,5-TRICHLOROPHENOL	UG/KG	ND		ND			4.0E+03	6.2E+06	2.7E+05	3.2E+05
2,4,6-TRICHLOROPHENOL	UG/KG	ND		ND			1.0E+04	6.2E+03	2.0E+02	2.0E+02
2-METHYLNAPHTHALENE	UG/KG	58		45			4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-BROMOPHENYL PHENYL ETHER	UG/KG	ND		ND						
4-CHLORO-3-METHYLPHENOL	UG/KG	ND		ND			8.0E+03			
4-CHLOROPHENYL PHENYL ETHER	UG/KG	ND		ND						
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		ND			1.6E+05	3.1E+05		2.4E+02
4-NITROPHENOL	UG/KG	ND		ND			7.0E+03	1.0E+04		
ACENAPHTHENE	UG/KG	280		ND			8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	6250	E	8170	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	720		98			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND		0.28		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	3.4	H	6.8	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	89.1		123		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	3500	E H W1 W2	470			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	3400	E H	460	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	4400	E H	540			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	1900		330			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	3200		520			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND			2.4E+02	9.3E+05	9.3E+05	9.3E+05
BIS(2-CHLOROISOPROPYL) ETHER	UG/KG	ND		ND				7.4E+03		2.4E+03
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	220		6600	E		9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	0.45	B E	0.37	B E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	38900	B	41200	B	2.9E+03				
CARBAZOLE	UG/KG	400		68			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	9	E	10.8	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	4500		590			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	ND		5.8		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	10	B	14.1	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	1000	H	ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	67		ND			2.5E+04	1.6E+05		1.5E+04
DIETHYL PHTHALATE	UG/KG	ND		ND			1.0E+05	2.0E+06		4.7E+05
DIMETHYL PHTHALATE	UG/KG	ND		ND			2.0E+05	1.3E+06		3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND			7.1E+02	2.3E+06	2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND			6.1E+05	2.5E+06	1.0E+07	1.0E+07
FLUORANTHENE	UG/KG	5900		740			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	210		ND			2.2E+04	2.6E+06	5.6E+05	5.6E+05
HEXACHLOROBENZENE	UG/KG	ND		ND			1.0E+06	1.1E+03	2.0E+03	2.0E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	1800		290			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	12000	E	17800	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	39.5	B	40.8	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	17500	B	19600	B	1.8E+03				
MANGANESE	MG/KG	382	E	801	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.24	E	0.18	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	9.4		14.2	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
NITROBENZENE	UG/KG	ND		ND			4.0E+04	9.4E+03	1.0E+02	1.0E+02
N-NITROSODI-N-PROPYLAMINE	UG/KG	ND		ND			5.4E+02	2.5E+02	5.0E-02	5.0E-02
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND			2.0E+04	3.5E+05	1.0E+03	1.0E+03
PENTACHLOROPHENOL	UG/KG	ND		ND			1.2E+02	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	3400		520			1.8E+04	2.9E+06	4.2E+06	2.2E+05
PHENOL	UG/KG	ND		ND			4.0E+04	1.8E+07	1.0E+05	1.0E+05
POTASSIUM	MG/KG	1100	B	923	B	6.9E+02				
PYRENE	UG/KG	9800		1500			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	ND		1.5	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
THALLIUM	MG/KG	ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL ORGANIC CARBON	MG/KG									
VANADIUM	MG/KG	14.1		19.3		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	83.3	B	72.6	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-001						AUS-0A07-002										AUS-0A07-003					
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**4 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**
ALL VOC	UG/KG																						
ALL SVOC	UG/KG																						
ALL EXPLOSIVES	UG/KG																						
ALL PESTICIDES	UG/KG	--		--		--		--		--		--		--		--		--		--		--	
cPAH	UG/KG																						
Mammal TEQ	NG/KG							3.36	E														
Bird TEQ	NG/KG							8.74	E														
1,2,3,4,6,7,8-HpCDD	NG/KG							17.8															
1,2,3,4,6,7,8-HpCDF	NG/KG							6.66															
1,2,3,4,7,8,9-HpCDF	NG/KG							1.42															
1,2,3,4,7,8-HxCDD	NG/KG							0.214															
1,2,3,4,7,8-HxCDF	NG/KG							2.29															
1,2,3,6,7,8-HxCDD	NG/KG							0.51															
1,2,3,6,7,8-HxCDF	NG/KG							0.98															
1,2,3,7,8,9-HxCDD	NG/KG							0.303															
1,2,3,7,8,9-HxCDF	NG/KG							1.14															
1,2,3,7,8-PeCDD	NG/KG							0.126															
1,2,3,7,8-PeCDF	NG/KG							3.5															
1,2-DICHLOROPROPANE	UG/KG																						
2,3,4,6,7,8-HxCDF	NG/KG							0.765															
2,3,4,7,8-PeCDF	NG/KG							3.35															
2,3,7,8-TCDD	NG/KG							ND															
2,3,7,8-TCDF	NG/KG							4.16															
2-METHYLNAPHTHALENE	UG/KG																						
4,4'-DDD	UG/KG	320		1.7		ND		ND		7		8600	E	ND		690		ND		ND		ND	
4,4'-DDE	UG/KG	37		ND		ND		290		ND		ND		ND		ND		ND		ND		ND	
4,4'-DDT	UG/KG	41	E	ND		ND		ND		ND		ND		ND		ND		1		ND		ND	
ACENAPHTHENE	UG/KG																						
ACENAPHTHYLENE	UG/KG																						
ACETONE	UG/KG																						
ALDRIN	UG/KG	48000	E H W1 W2	1600	E H W1 W2	59	E	520000	E H W1 W2	1300	E H W1 W2	470000	E H W1 W2	150000	E H W1 W2	21000	E H W1 W2	ND		8.7	E	2.6	
ALPHA ENDOSULFAN	UG/KG	ND		0.62		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALPHA-CHLORDANE	UG/KG	120		0.81		ND		ND		0.66		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG																						
ANTHRACENE	UG/KG																						
ANTIMONY	MG/KG																						
ARSENIC	MG/KG																						
BARIUM	MG/KG																						
BENZENE	UG/KG																						
BENZO(A)ANTHRACENE	UG/KG																						
BENZO(A)PYRENE	UG/KG																						
BENZO(B)FLUORANTHENE	UG/KG																						
BENZO(G,H,I)PERYLENE	UG/KG																						
BENZO(K)FLUORANTHENE	UG/KG																						
BERYLLIUM	MG/KG																						
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND		ND		ND		8.4	E W1	ND		ND		ND		ND		ND		ND		ND	
BETA ENDOSULFAN	UG/KG	18		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG																						
BORON	MG/KG																						
CADMIUM	MG/KG																						
CALCIUM	MG/KG																						
CARBAZOLE	UG/KG																						
CHLOROBENZENE	UG/KG																						
CHROMIUM, TOTAL	MG/KG																						
CHRYSENE	UG/KG																						
CIS-1,2-DICHLOROETHYLENE	UG/KG																						
COBALT	MG/KG																						
COPPER	MG/KG																						
DIBENZ(A,H)ANTHRACENE	UG/KG																						
DIBENZOFURAN	UG/KG																						
DIELDRIN	UG/KG	55000	E H W1 W2	460	E H W1 W2	81	E W1 W2	240000	E H W1 W2	810	E H W1 W2	170000	E H W1 W2	40000	E H W1 W2	13000	E H W1 W2	180	E H W1 W2	24	E W1 W2	2	
DIMETHYL PHTHALATE	UG/KG																						
DI-N-BUTYL PHTHALATE	UG/KG																						
DI-N-OCTYLPHTHALATE	UG/KG																						
ENDOSULFAN SULFATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN	UG/KG	1000	E	7.1		ND		ND		11	E	1600	E W1 W2	ND		ND		ND		ND		ND	
ENDRIN ALDEHYDE	UG/KG	ND		ND		ND		ND		1.7		9000	E W1 W2	ND		770	E	ND		ND		ND	
ENDRIN KETONE	UG/KG	840		20		ND		ND		100		20000	H W1 W2	4200	W1 W2	1700	W1 W2	9.9		1.9		ND	
ETHYLBENZENE	UG/KG																						

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-001						AUS-0A07-002										AUS-0A07-003					
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**4 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**
FLUORANTHENE	UG/KG																						
FLUORENE	UG/KG																						
GAMMA BHC (LINDANE)	UG/KG	3.2		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GAMMA-CHLORDANE	UG/KG	96		0.73		ND		150		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR	UG/KG	6.1	E	ND		ND		69	E	ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR EPOXIDE	UG/KG	4.9		ND		ND		11		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	43		ND		ND		150		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG																						
IRON	MG/KG																						
ISODRIN	UG/KG	2800	E	49	E	ND		60000	E	130	E	46000	E	19000	E	2300	E	ND		0.9		ND	
LEAD	MG/KG																						
MAGNESIUM	MG/KG																						
MANGANESE	MG/KG																						
MERCURY	MG/KG																						
METHOXYCHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG																						
METHYLENE CHLORIDE	UG/KG																						
NAPHTHALENE	UG/KG																						
NICKEL	MG/KG																						
OCDD	NG/KG							878															
OCDF	NG/KG							33.4															
PCB (TOTAL)	UG/KG																						
PCB-1260 (AROCHLOR 1260)	UG/KG																						
PHENANTHRENE	UG/KG																						
POTASSIUM	MG/KG																						
PYRENE	UG/KG																						
SELENIUM	MG/KG																						
SODIUM	MG/KG																						
STYRENE	UG/KG																						
TETRACHLOROETHYLENE(PCE)	UG/KG																						
THALLIUM	MG/KG																						
TOLUENE	UG/KG																						
TOTAL 1,2-DICHLOROETHENE	UG/KG																						
TOTAL HpCDDs	NG/KG							44.1															
TOTAL HpCDFs	NG/KG							14.7															
TOTAL HxCDDs	NG/KG							3.54															
TOTAL HxCDFs	NG/KG							9.53															
TOTAL ORGANIC CARBON	MG/KG																						
TOTAL PeCDDs	NG/KG							0.126															
TOTAL PeCDFs	NG/KG							15.6															
TOTAL TCDDs	NG/KG							ND															
TOTAL TCDFs	NG/KG							15.2															
TRICHLOROETHYLENE (TCE)	UG/KG																						
VANADIUM	MG/KG																						
XYLENES, TOTAL	UG/KG																						
ZINC	MG/KG																						

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-004				AUS-0A07-005						AUS-0A07-006				AUS-0A07-007		AUS-0A07-008				AUS-0A07-009			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG													ND						--				--	
ALL SVOC	UG/KG											--						--				--			
ALL EXPLOSIVES	UG/KG											ND						ND				ND			
ALL PESTICIDES	UG/KG	--		--		--		--		--															
cPAH	UG/KG											ND						473.597	H			ND			
Mammal TEQ	NG/KG																								
Bird TEQ	NG/KG																								
1,2,3,4,6,7,8-HpCDD	NG/KG																								
1,2,3,4,6,7,8-HpCDF	NG/KG																								
1,2,3,4,7,8,9-HpCDF	NG/KG																								
1,2,3,4,7,8-HxCDD	NG/KG																								
1,2,3,4,7,8-HxCDF	NG/KG																								
1,2,3,6,7,8-HxCDD	NG/KG																								
1,2,3,6,7,8-HxCDF	NG/KG																								
1,2,3,7,8,9-HxCDD	NG/KG																								
1,2,3,7,8,9-HxCDF	NG/KG																								
1,2,3,7,8-PeCDD	NG/KG																								
1,2,3,7,8-PeCDF	NG/KG																								
1,2-DICHLOROPROPANE	UG/KG													ND						ND				ND	
2,3,4,6,7,8-HxCDF	NG/KG																								
2,3,4,7,8-PeCDF	NG/KG																								
2,3,7,8-TCDD	NG/KG																								
2,3,7,8-TCDF	NG/KG																								
2-METHYLNAPHTHALENE	UG/KG											ND						430				ND			
4,4'-DDD	UG/KG	66		ND		1400	E	130		ND															
4,4'-DDE	UG/KG	5.4		5.8		290		14		ND															
4,4'-DDT	UG/KG	37	E	13	E	630	E	15	E	ND															
ACENAPHTHENE	UG/KG											ND						ND				ND			
ACENAPHTHYLENE	UG/KG											ND						ND				ND			
ACETONE	UG/KG													ND						ND				ND	
ALDRIN	UG/KG	350000	E H W1 W2	2300	E H W1 W2	360	E H	110	E H	130	E H														
ALPHA ENDOSULFAN	UG/KG	12		6.7		ND		2.2		ND															
ALPHA-CHLORDANE	UG/KG	ND		41		17		ND		ND															
ALUMINUM	MG/KG											16100	B E					9160	B E			17500	B E		
ANTHRACENE	UG/KG											ND						ND				ND			
ANTIMONY	MG/KG											0.34						ND				0.44	B		
ARSENIC	MG/KG											7.1	H					6	H			6.9	H		
BARIUM	MG/KG											135						143				263	B		
BENZENE	UG/KG													ND						ND				ND	
BENZO(A)ANTHRACENE	UG/KG											ND						ND				ND			
BENZO(A)PYRENE	UG/KG											ND						ND				ND			
BENZO(B)FLUORANTHENE	UG/KG											ND						ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG											130						ND				ND			
BENZO(K)FLUORANTHENE	UG/KG											ND						ND				ND			
BERYLLIUM	MG/KG											0.67	B					0.59	B			0.72	B		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	1.3		ND		ND		ND		ND															
BETA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND															
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG											ND						2000	E			3100	E		
BORON	MG/KG											0.85	E					1.8	E			1.2	E		
CADMIUM	MG/KG											ND						ND				ND			
CALCIUM	MG/KG											3850	B					105000	B			3250	B		
CARBAZOLE	UG/KG											ND						ND				ND			
CHLOROBENZENE	UG/KG													ND						ND				ND	
CHROMIUM, TOTAL	MG/KG											20.7	B E					14.5	B E			23.1	B E		
CHRYSENE	UG/KG											ND						47				ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG													ND						ND				ND	
COBALT	MG/KG											9.9	B					7.2				12.6	B		
COPPER	MG/KG											14.5	B					9				14.9	B		
DIBENZ(A,H)ANTHRACENE	UG/KG											ND						ND				ND			
DIBENZOFURAN	UG/KG											ND						590				ND			
DIELDRIN	UG/KG	290000	E H W1 W2	120000	E H W1 W2	2900	E H W1 W2	410	E H W1 W2	55	E W1 W2														
DIMETHYL PHTHALATE	UG/KG											ND						ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG											ND						ND				64			
DI-N-OCTYLPHTHALATE	UG/KG											ND						ND				690			
ENDOSULFAN SULFATE	UG/KG	ND		ND		44	E	7.7		ND															
ENDRIN	UG/KG	1100	E W1 W2	840	E	290	E	19	E	ND															
ENDRIN ALDEHYDE	UG/KG	ND		26	E	15	E	ND		ND															
ENDRIN KETONE	UG/KG	410		440		240		12		ND															
ETHYLBENZENE	UG/KG													ND						ND				ND	

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-004				AUS-0A07-005						AUS-0A07-006				AUS-0A07-007		AUS-0A07-008				AUS-0A07-009			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG											ND						43				ND			
FLUORENE	UG/KG											ND						51				ND			
GAMMA BHC (LINDANE)	UG/KG	1.1		0.59		5.6	E	0.71		ND															
GAMMA-CHLORDANE	UG/KG	310	E	32		130		13		ND															
HEPTACHLOR	UG/KG	63	E	52	E	4		ND		ND															
HEPTACHLOR EPOXIDE	UG/KG	2.2		4.7		3.7		0.72		ND															
HEXACHLOROBENZENE	UG/KG	72		25		4.4		ND		ND		ND						ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG											ND						ND				ND			
IRON	MG/KG											22100	B E					14600	E			21700	B E		
ISODRIN	UG/KG	310	E	5.7	E	9	E	ND		ND															
LEAD	MG/KG											64.8	B					12.3				16.5			
MAGNESIUM	MG/KG											3760	B					15000	B			3350	B		
MANGANESE	MG/KG											568	E					679	E			603	E		
MERCURY	MG/KG											0.011						0.012				0.021			
METHOXYCHLOR	UG/KG	ND		26	E	ND		ND		ND															
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG													ND						ND				ND	
METHYLENE CHLORIDE	UG/KG													ND						ND				ND	
NAPHTHALENE	UG/KG											ND						280				ND			
NICKEL	MG/KG											16.4	B					20.1	B			22	B		
OCDD	NG/KG																								
OCDF	NG/KG																								
PCB (TOTAL)	UG/KG															140									
PCB-1260 (AROCHLOR 1260)	UG/KG															140	E								
PHENANTHRENE	UG/KG											ND						340				ND			
POTASSIUM	MG/KG											897	B					697	B			1080	B		
PYRENE	UG/KG											ND						51				ND			
SELENIUM	MG/KG											ND						ND				ND			
SODIUM	MG/KG											60.4						350	B			155	B		
STYRENE	UG/KG													ND						ND				ND	
TETRACHLOROETHYLENE(PCE)	UG/KG													ND						ND				ND	
THALLIUM	MG/KG											ND						ND				ND			
TOLUENE	UG/KG													ND						ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG													ND						ND				ND	
TOTAL HpCDDs	NG/KG																								
TOTAL HpCDFs	NG/KG																								
TOTAL HxCDDs	NG/KG																								
TOTAL HxCDFs	NG/KG																								
TOTAL ORGANIC CARBON	MG/KG																								
TOTAL PeCDDs	NG/KG																								
TOTAL PeCDFs	NG/KG																								
TOTAL TCDDs	NG/KG																								
TOTAL TCDFs	NG/KG																								
TRICHLOROETHYLENE (TCE)	UG/KG													ND						3				9	
VANADIUM	MG/KG											38.4	B					25.5				40.2	B		
XYLENES, TOTAL	UG/KG													ND						ND				ND	
ZINC	MG/KG											58.2	B					39				56.8	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-010				AUS-0A07-011				AUS-0A07-012				AUS-0A07-013				AUS-0A07-014				AUS-0A07-015			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			--				--				--				--				--				--	
ALL SVOC	UG/KG	--				ND				--				--				ND							
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND							
ALL PESTICIDES	UG/KG																								
cPAH	UG/KG	479.263	H			ND				285.292	H			322.796	H			ND							
Mammal TEQ	NG/KG																								
Bird TEQ	NG/KG																								
1,2,3,4,6,7,8-HpCDD	NG/KG																								
1,2,3,4,6,7,8-HpCDF	NG/KG																								
1,2,3,4,7,8,9-HpCDF	NG/KG																								
1,2,3,4,7,8-HxCDD	NG/KG																								
1,2,3,4,7,8-HxCDF	NG/KG																								
1,2,3,6,7,8-HxCDD	NG/KG																								
1,2,3,6,7,8-HxCDF	NG/KG																								
1,2,3,7,8,9-HxCDD	NG/KG																								
1,2,3,7,8,9-HxCDF	NG/KG																								
1,2,3,7,8-PeCDD	NG/KG																								
1,2,3,7,8-PeCDF	NG/KG																								
1,2-DICHLOROPROPANE	UG/KG			ND				ND				ND				ND				ND				ND	
2,3,4,6,7,8-HxCDF	NG/KG																								
2,3,4,7,8-PeCDF	NG/KG																								
2,3,7,8-TCDD	NG/KG																								
2,3,7,8-TCDF	NG/KG																								
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND				ND				ND							
4,4'-DDD	UG/KG																								
4,4'-DDE	UG/KG																								
4,4'-DDT	UG/KG																								
ACENAPHTHENE	UG/KG	ND				ND				ND				ND				ND							
ACENAPHTHYLENE	UG/KG	ND				ND				ND				ND				ND							
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND	
ALDRIN	UG/KG																								
ALPHA ENDOSULFAN	UG/KG																								
ALPHA-CHLORDANE	UG/KG																								
ALUMINUM	MG/KG	16400	B E			11200	B E																		
ANTHRACENE	UG/KG	ND				ND				ND				ND				ND							
ANTIMONY	MG/KG	ND				ND																			
ARSENIC	MG/KG	5.5	H			5.8	H																		
BARIUM	MG/KG	154				89.7																			
BENZENE	UG/KG			ND				ND				ND				ND				ND				ND	
BENZO(A)ANTHRACENE	UG/KG	ND				ND				47				63				ND							
BENZO(A)PYRENE	UG/KG	ND				ND				48				66				ND							
BENZO(B)FLUORANTHENE	UG/KG	57				ND				64				76				ND							
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				ND				ND				ND							
BENZO(K)FLUORANTHENE	UG/KG	51				ND				63				80				ND							
BERYLLIUM	MG/KG	0.71	B			0.61	B																		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG																								
BETA ENDOSULFAN	UG/KG																								
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	10000	E			ND				69				48				ND							
BORON	MG/KG	1.1	E			ND																			
CADMIUM	MG/KG	9	B E W1 W2			ND																			
CALCIUM	MG/KG	3950	B			3060	B																		
CARBAZOLE	UG/KG	ND				ND				ND				ND				ND							
CHLOROBENZENE	UG/KG			ND				ND				ND				ND				ND				ND	
CHROMIUM, TOTAL	MG/KG	24	B E			15.1	B E																		
CHRYSENE	UG/KG	53				ND				62				96				ND							
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND				ND				ND				ND	
COBALT	MG/KG	9.3				5.3																			
COPPER	MG/KG	14	B			11.1	B																		
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND				ND				ND							
DIBENZOFURAN	UG/KG	ND				ND				ND				ND				ND							
DIELDRIN	UG/KG																								
DIMETHYL PHTHALATE	UG/KG	ND				ND				ND				ND				ND							
DI-N-BUTYL PHTHALATE	UG/KG	130				ND				ND				ND				ND							
DI-N-OCTYLPHTHALATE	UG/KG	3900				ND				ND				ND				ND							
ENDOSULFAN SULFATE	UG/KG																								
ENDRIN	UG/KG																								
ENDRIN ALDEHYDE	UG/KG																								
ENDRIN KETONE	UG/KG																								
ETHYLBENZENE	UG/KG			ND				ND				ND				ND				ND				ND	

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-010				AUS-0A07-011				AUS-0A07-012				AUS-0A07-013				AUS-0A07-014				AUS-0A07-015			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG	56				ND				49				140				ND							
FLUORENE	UG/KG	ND				ND				ND				ND				ND							
GAMMA BHC (LINDANE)	UG/KG																								
GAMMA-CHLORDANE	UG/KG																								
HEPTACHLOR	UG/KG																								
HEPTACHLOR EPOXIDE	UG/KG																								
HEXACHLOROBENZENE	UG/KG	ND				ND				ND				ND				ND							
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				ND				ND				ND							
IRON	MG/KG	18700	E			14700	E																		
ISODRIN	UG/KG																								
LEAD	MG/KG	21.7				23.1																			
MAGNESIUM	MG/KG	2430	B			2000	B																		
MANGANESE	MG/KG	971	E			189	E																		
MERCURY	MG/KG	0.03				0.025																			
METHOXYCHLOR	UG/KG																								
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND				ND				ND				ND	
METHYLENE CHLORIDE	UG/KG			ND				ND				ND				ND				ND				ND	
NAPHTHALENE	UG/KG	ND				ND				ND				ND				ND							
NICKEL	MG/KG	15.4	B			10.6																			
OCDD	NG/KG																								
OCDF	NG/KG																								
PCB (TOTAL)	UG/KG													ND				ND				ND			
PCB-1260 (AROCHLOR 1260)	UG/KG													ND				ND				ND			
PHENANTHRENE	UG/KG	ND				ND				ND				ND				ND							
POTASSIUM	MG/KG	691				515																			
PYRENE	UG/KG	57				ND				59				120				ND							
SELENIUM	MG/KG	ND				0.44																			
SODIUM	MG/KG	117	B			87.7	B																		
STYRENE	UG/KG			ND				ND				ND				ND				ND				ND	
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG	ND				ND																			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG																								
TOTAL HpCDFs	NG/KG																								
TOTAL HxCDDs	NG/KG																								
TOTAL HxCDFs	NG/KG																								
TOTAL ORGANIC CARBON	MG/KG																								
TOTAL PeCDDs	NG/KG																								
TOTAL PeCDFs	NG/KG																								
TOTAL TCDDs	NG/KG																								
TOTAL TCDFs	NG/KG																								
TRICHLOROETHYLENE (TCE)	UG/KG			10				4				4				4				11				9	
VANADIUM	MG/KG	38.1	B			27.2																			
XYLENES, TOTAL	UG/KG			ND				ND				ND				ND				ND				ND	
ZINC	MG/KG	54.8	B			39.6																			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-016				AUS-0A07-017				AUS-0A07-018				AUS-0A07-019				AUS-0A07-020				AUS-0A07-021			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			--				--				--				--				--				--	
ALL SVOC	UG/KG	--				--				--				--				--				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND				ND			
ALL PESTICIDES	UG/KG	--																							
cPAH	UG/KG	ND				3550.1	H			ND				1912.9	H			547.7	H			ND			
Mammal TEQ	NG/KG																								
Bird TEQ	NG/KG																								
1,2,3,4,6,7,8-HpCDD	NG/KG																								
1,2,3,4,6,7,8-HpCDF	NG/KG																								
1,2,3,4,7,8,9-HpCDF	NG/KG																								
1,2,3,4,7,8-HxCDD	NG/KG																								
1,2,3,4,7,8-HxCDF	NG/KG																								
1,2,3,6,7,8-HxCDD	NG/KG																								
1,2,3,6,7,8-HxCDF	NG/KG																								
1,2,3,7,8,9-HxCDD	NG/KG																								
1,2,3,7,8,9-HxCDF	NG/KG																								
1,2,3,7,8-PeCDD	NG/KG																								
1,2,3,7,8-PeCDF	NG/KG																								
1,2-DICHLOROPROPANE	UG/KG			ND				ND				ND				ND				ND				ND	
2,3,4,6,7,8-HxCDF	NG/KG																								
2,3,4,7,8-PeCDF	NG/KG																								
2,3,7,8-TCDD	NG/KG																								
2,3,7,8-TCDF	NG/KG																								
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND				89				130				ND			
4,4'-DDD	UG/KG	ND																							
4,4'-DDE	UG/KG	ND																							
4,4'-DDT	UG/KG	ND																							
ACENAPHTHENE	UG/KG	ND				ND				ND				ND				ND				ND			
ACENAPHTHYLENE	UG/KG	ND				530				ND				ND				ND				ND			
ACETONE	UG/KG			ND				ND				ND				ND				ND				ND	
ALDRIN	UG/KG	ND																							
ALPHA ENDOSULFAN	UG/KG	ND																							
ALPHA-CHLORDANE	UG/KG	ND																							
ALUMINUM	MG/KG					16300	B E			16200	B E			2600	E			20200	B E			14900	B E		
ANTHRACENE	UG/KG	ND				290				ND				190				66				ND			
ANTIMONY	MG/KG					0.45	B			ND				ND				ND				ND			
ARSENIC	MG/KG					6.1	H			11.2	E H			4.2	H			11.6	E H			5.6	H		
BARIUM	MG/KG					151				255	B			23				147				161			
BENZENE	UG/KG			ND				ND				ND				ND				ND				ND	
BENZO(A)ANTHRACENE	UG/KG	ND				1300				ND				790				260				ND			
BENZO(A)PYRENE	UG/KG	ND				2400	H			ND				1400	H			350	H			ND			
BENZO(B)FLUORANTHENE	UG/KG	ND				3200	E H			ND				670				480				ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND				1200				ND				1900				260				ND			
BENZO(K)FLUORANTHENE	UG/KG	ND				2800				ND				190				430				ND			
BERYLLIUM	MG/KG					0.56	B			1.9	B			ND				0.65	B			0.66	B		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND																							
BETA ENDOSULFAN	UG/KG	ND																							
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				230				ND				ND				ND			
BORON	MG/KG					4.3	E			1.8	E			4.4	E			1	E			1.4	E		
CADMIUM	MG/KG					ND				ND				ND				ND				ND			
CALCIUM	MG/KG					11700	B			2890	B			201000	B			7320	B			4940	B		
CARBAZOLE	UG/KG	ND				130				ND				84				ND				ND			
CHLOROBENZENE	UG/KG			ND				ND				ND				ND				ND				ND	
CHROMIUM, TOTAL	MG/KG					22.6	B E			23.2	B E			4.8				23	B E			20.1	B E		
CHRYSENE	UG/KG	ND				2100				ND				2000				400				ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND				ND				ND				ND	
COBALT	MG/KG					6.7				9.4	B			2.6				10	B			6.7			
COPPER	MG/KG					11.6	B			22.6	B			5.2				20.3	B			13.1	B		
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				550	H			ND				320	H			95				ND			
DIBENZOFURAN	UG/KG	ND				ND				ND				52				130				ND			
DIELDRIN	UG/KG	ND																							
DIMETHYL PHTHALATE	UG/KG	ND				ND				ND				ND				ND				170			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				ND				ND				ND				ND			
DI-N-OCTYLPHTHALATE	UG/KG	73				51				ND				ND				ND				ND			
ENDOSULFAN SULFATE	UG/KG	ND																							
ENDRIN	UG/KG	ND																							
ENDRIN ALDEHYDE	UG/KG	ND																							
ENDRIN KETONE	UG/KG	ND																							
ETHYLBENZENE	UG/KG			ND				ND				ND				ND				ND				ND	

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-016				AUS-0A07-017				AUS-0A07-018				AUS-0A07-019				AUS-0A07-020				AUS-0A07-021			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG	ND				1200				ND				180				350				ND			
FLUORENE	UG/KG	ND				ND				ND				ND				ND				ND			
GAMMA BHC (LINDANE)	UG/KG	ND																							
GAMMA-CHLORDANE	UG/KG	ND																							
HEPTACHLOR	UG/KG	ND																							
HEPTACHLOR EPOXIDE	UG/KG	ND																							
HEXACHLOROBENZENE	UG/KG	ND				ND				ND				ND				ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				1200				ND				430				240				ND			
IRON	MG/KG					18800	E			28800	B E			5950	E			26700	B E			18000	E		
ISODRIN	UG/KG	4.2	E																						
LEAD	MG/KG					24.9				22.2				34	B			21.4				14.7			
MAGNESIUM	MG/KG					8560	B			3800	B			52300	B			6870	B			3130	B		
MANGANESE	MG/KG					441	E			990	E			253	E			368	E			574	E		
MERCURY	MG/KG					0.023				0.033				ND				0.021				0.024			
METHOXYCHLOR	UG/KG	ND																							
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND				ND				ND				ND	
METHYLENE CHLORIDE	UG/KG			ND				ND				ND				5				ND				ND	
NAPHTHALENE	UG/KG	ND				ND				ND				ND				240				ND			
NICKEL	MG/KG					14.3	B			42.2	B E			6.8				21.4	B			18.5	B		
OCDD	NG/KG																								
OCDF	NG/KG																								
PCB (TOTAL)	UG/KG	ND				ND																			
PCB-1260 (AROCHLOR 1260)	UG/KG	ND				ND																			
PHENANTHRENE	UG/KG	ND				220				ND				430				240				ND			
POTASSIUM	MG/KG					996	B			1350	B			351				1420	B			660			
PYRENE	UG/KG	ND				1700				ND				2400				380				ND			
SELENIUM	MG/KG					ND				ND				ND				0.57				ND			
SODIUM	MG/KG					91	B			88.6	B			171	B			89.5	B			66.8			
STYRENE	UG/KG			ND				ND				ND				ND				ND				ND	
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND				ND				ND	
THALLIUM	MG/KG					ND				0.9	B			ND				ND				ND			
TOLUENE	UG/KG			ND				ND				ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG																								
TOTAL HpCDFs	NG/KG																								
TOTAL HxCDDs	NG/KG																								
TOTAL HxCDFs	NG/KG																								
TOTAL ORGANIC CARBON	MG/KG					ND																			
TOTAL PeCDDs	NG/KG																								
TOTAL PeCDFs	NG/KG																								
TOTAL TCDDs	NG/KG																								
TOTAL TCDFs	NG/KG																								
TRICHLOROETHYLENE (TCE)	UG/KG			8				11				10				9				11				21	
VANADIUM	MG/KG					39.6	B			45.3	B			8.8				42.3	B			30.6			
XYLENES, TOTAL	UG/KG			ND				ND				ND				ND				ND				ND	
ZINC	MG/KG					49.2	B			88.8	B			26.4				65.6	B			67.9	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-022		AUS-0A07-023				AUS-0A07-024		AUS-0A07-025				AUS-0A07-026				AUS-0A07-027				AUS-0A07-028			
Constituents Detected	**Units**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG	--				--		--		--		ND				--				--				--	
ALL SVOC	UG/KG													--				6213				--			
ALL EXPLOSIVES	UG/KG													ND				ND				ND			
ALL PESTICIDES	UG/KG									--		--													
cPAH	UG/KG									1502.15	H			ND				715.84	H			307.38	H		
Mammal TEQ	NG/KG																								
Bird TEQ	NG/KG																								
1,2,3,4,6,7,8-HpCDD	NG/KG																								
1,2,3,4,6,7,8-HpCDF	NG/KG																								
1,2,3,4,7,8,9-HpCDF	NG/KG																								
1,2,3,4,7,8-HxCDD	NG/KG																								
1,2,3,4,7,8-HxCDF	NG/KG																								
1,2,3,6,7,8-HxCDD	NG/KG																								
1,2,3,6,7,8-HxCDF	NG/KG																								
1,2,3,7,8,9-HxCDD	NG/KG																								
1,2,3,7,8,9-HxCDF	NG/KG																								
1,2,3,7,8-PeCDD	NG/KG																								
1,2,3,7,8-PeCDF	NG/KG																								
1,2-DICHLOROPROPANE	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
2,3,4,6,7,8-HxCDF	NG/KG																								
2,3,4,7,8-PeCDF	NG/KG																								
2,3,7,8-TCDD	NG/KG																								
2,3,7,8-TCDF	NG/KG																								
2-METHYLNAPHTHALENE	UG/KG													ND				ND				ND			
4,4'-DDD	UG/KG									1400	E	62													
4,4'-DDE	UG/KG									400		8.3													
4,4'-DDT	UG/KG									22	E	ND													
ACENAPHTHENE	UG/KG													ND				ND				ND			
ACENAPHTHYLENE	UG/KG													ND				120				ND			
ACETONE	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
ALDRIN	UG/KG									35	E	8.8	E												
ALPHA ENDOSULFAN	UG/KG									ND		ND													
ALPHA-CHLORDANE	UG/KG									ND		ND													
ALUMINUM	MG/KG			17200	B E									13100	B E			11500	B E			13400	B E		
ANTHRACENE	UG/KG													ND				110				ND			
ANTIMONY	MG/KG			ND										ND				ND				ND			
ARSENIC	MG/KG			6.7	H									16.9	B E H			4.7	H			7	H		
BARIUM	MG/KG			311	B									229				87.5				126			
BENZENE	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
BENZO(A)ANTHRACENE	UG/KG													ND				430				60			
BENZO(A)PYRENE	UG/KG													ND				440	H			50			
BENZO(B)FLUORANTHENE	UG/KG													ND				690				85			
BENZO(G,H,I)PERYLENE	UG/KG													ND				290				ND			
BENZO(K)FLUORANTHENE	UG/KG													ND				710				76			
BERYLLIUM	MG/KG			1.1	B									0.76	B			0.49				0.66	B		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG									ND		ND													
BETA ENDOSULFAN	UG/KG									ND		ND													
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG													68				ND				ND			
BORON	MG/KG			ND										1.1	E			1.3	E			2.9	E		
CADMIUM	MG/KG			ND										0.68	B E			ND				ND			
CALCIUM	MG/KG			6910	B									4360	B			30500	B			3610	B		
CARBAZOLE	UG/KG													ND				63				ND			
CHLOROBENZENE	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
CHROMIUM, TOTAL	MG/KG			21.1	B E									18.6	B E			16.3	B E			20.3	B E		
CHRYSENE	UG/KG													ND				740				120			
CIS-1,2-DICHLOROETHYLENE	UG/KG	ND				2		ND		ND		ND				ND				ND				ND	
COBALT	MG/KG			19.3	B									9.6	B			6				7			
COPPER	MG/KG			15.9	B									19.6	B			14.9	B			14	B		
DIBENZ(A,H)ANTHRACENE	UG/KG													ND				130				ND			
DIBENZOFURAN	UG/KG													ND				ND				ND			
DIELDRIN	UG/KG									ND		16	E W1 W2												
DIMETHYL PHTHALATE	UG/KG													ND				ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG													ND				ND				ND			
DI-N-OCTYLPHTHALATE	UG/KG													ND				ND				ND			
ENDOSULFAN SULFATE	UG/KG									ND		ND													
ENDRIN	UG/KG									ND		ND													
ENDRIN ALDEHYDE	UG/KG									ND		ND													
ENDRIN KETONE	UG/KG									ND		ND													
ETHYLBENZENE	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-022		AUS-0A07-023				AUS-0A07-024		AUS-0A07-025				AUS-0A07-026				AUS-0A07-027				AUS-0A07-028			
Constituents Detected	**Units**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG													ND				810				59			
FLUORENE	UG/KG													ND				ND				ND			
GAMMA BHC (LINDANE)	UG/KG									ND		ND													
GAMMA-CHLORDANE	UG/KG									ND		ND													
HEPTACHLOR	UG/KG									ND		ND													
HEPTACHLOR EPOXIDE	UG/KG									ND		ND													
HEXACHLOROBENZENE	UG/KG									ND		ND		ND				ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG													ND				260				ND			
IRON	MG/KG			22200	B E									15400	E			14300	E			19400	E		
ISODRIN	UG/KG									ND		ND													
LEAD	MG/KG			13										54.9	B			31.3	B			27.3	B		
MAGNESIUM	MG/KG			5070	B									3180	B			19400	B			3170	B		
MANGANESE	MG/KG			692	E									389	E			378	E			430	E		
MERCURY	MG/KG			0.02										0.017				0.025				0.02			
METHOXYCHLOR	UG/KG									ND		ND													
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
METHYLENE CHLORIDE	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
NAPHTHALENE	UG/KG													ND				ND				ND			
NICKEL	MG/KG			18.7	B									19.6	B			12.4				15.8	B		
OCDD	NG/KG																								
OCDF	NG/KG																								
PCB (TOTAL)	UG/KG			ND										ND											
PCB-1260 (AROCHLOR 1260)	UG/KG			ND										ND											
PHENANTHRENE	UG/KG													ND				220				ND			
POTASSIUM	MG/KG			713	B									654				597				795	B		
PYRENE	UG/KG													ND				1200				54			
SELENIUM	MG/KG			ND										ND				ND				0.65			
SODIUM	MG/KG			157	B									56.3				81.5				138	B		
STYRENE	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
TETRACHLOROETHYLENE(PCE)	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
THALLIUM	MG/KG			ND										ND				0.5				ND			
TOLUENE	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG	ND				2		ND		ND						ND				ND				ND	
TOTAL HpCDDs	NG/KG																								
TOTAL HpCDFs	NG/KG																								
TOTAL HxCDDs	NG/KG																								
TOTAL HxCDFs	NG/KG																								
TOTAL ORGANIC CARBON	MG/KG													5980											
TOTAL PeCDDs	NG/KG																								
TOTAL PeCDFs	NG/KG																								
TOTAL TCDDs	NG/KG																								
TOTAL TCDFs	NG/KG																								
TRICHLOROETHYLENE (TCE)	UG/KG	17				24		18		21		ND				16				16				25	
VANADIUM	MG/KG			42.7	B									30.3				25.6				30.8			
XYLENES, TOTAL	UG/KG	ND				ND		ND		ND		ND				ND				ND				ND	
ZINC	MG/KG			68.6	B									83.4	B			89.1	B			69.4	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-029								AUS-0A07-030								AUS-0A07-031		AUS-0A07-032			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**6 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND		ND						ND		ND									
ALL SVOC	UG/KG	ND						ND		ND						ND							
ALL EXPLOSIVES	UG/KG	ND						ND		ND						ND							
ALL PESTICIDES	UG/KG																	--		--		--	
cPAH	UG/KG	ND						ND		ND						ND							
Mammal TEQ	NG/KG																						
Bird TEQ	NG/KG																						
1,2,3,4,6,7,8-HpCDD	NG/KG																						
1,2,3,4,6,7,8-HpCDF	NG/KG																						
1,2,3,4,7,8,9-HpCDF	NG/KG																						
1,2,3,4,7,8-HxCDD	NG/KG																						
1,2,3,4,7,8-HxCDF	NG/KG																						
1,2,3,6,7,8-HxCDD	NG/KG																						
1,2,3,6,7,8-HxCDF	NG/KG																						
1,2,3,7,8,9-HxCDD	NG/KG																						
1,2,3,7,8,9-HxCDF	NG/KG																						
1,2,3,7,8-PeCDD	NG/KG																						
1,2,3,7,8-PeCDF	NG/KG																						
1,2-DICHLOROPROPANE	UG/KG			ND		ND						ND		ND									
2,3,4,6,7,8-HxCDF	NG/KG																						
2,3,4,7,8-PeCDF	NG/KG																						
2,3,7,8-TCDD	NG/KG																						
2,3,7,8-TCDF	NG/KG																						
2-METHYLNAPHTHALENE	UG/KG	ND						ND		ND						ND							
4,4'-DDD	UG/KG																	ND		ND		ND	
4,4'-DDE	UG/KG																	ND		ND		ND	
4,4'-DDT	UG/KG																	ND		ND		ND	
ACENAPHTHENE	UG/KG	ND						ND		ND						ND							
ACENAPHTHYLENE	UG/KG	ND						ND		ND						ND							
ACETONE	UG/KG			ND		ND						ND		ND									
ALDRIN	UG/KG																	5.6	E	2.5		4.4	E
ALPHA ENDOSULFAN	UG/KG																	ND		ND		ND	
ALPHA-CHLORDANE	UG/KG																	ND		ND		ND	
ALUMINUM	MG/KG	11300	B E					8260	E	9930	B E					9120	B E						
ANTHRACENE	UG/KG	ND						ND		ND						ND							
ANTIMONY	MG/KG							0.27		ND						ND							
ARSENIC	MG/KG	7.8	H					3.9	H	7.2	H					4.9	H						
BARIUM	MG/KG	120						73.6		112						64.2							
BENZENE	UG/KG			ND		ND						ND		ND									
BENZO(A)ANTHRACENE	UG/KG	ND						ND		ND						ND							
BENZO(A)PYRENE	UG/KG	ND						ND		ND						ND							
BENZO(B)FLUORANTHENE	UG/KG	ND						ND		ND						ND							
BENZO(G,H,I)PERYLENE	UG/KG	ND						ND		ND						ND							
BENZO(K)FLUORANTHENE	UG/KG	ND						ND		ND						ND							
BERYLLIUM	MG/KG	ND						ND		ND						ND							
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG																	ND		ND		ND	
BETA ENDOSULFAN	UG/KG																	ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND						ND		ND						ND							
BORON	MG/KG	3.8	E					2.6	E	ND						1.5	E						
CADMIUM	MG/KG	ND						ND		ND						ND							
CALCIUM	MG/KG	2070						1530		3260	B					1470							
CARBAZOLE	UG/KG	ND						ND		ND						ND							
CHLOROBENZENE	UG/KG			ND		ND						ND		ND									
CHROMIUM, TOTAL	MG/KG	14.6	B E					13	E	12.5	E					19	B E						
CHRYSENE	UG/KG	ND						ND		ND						ND							
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND						ND		ND									
COBALT	MG/KG	4.8						12.5	B	5.9						6.7							
COPPER	MG/KG	11.4	B					7.9		11	B					10.5	B						
DIBENZ(A,H)ANTHRACENE	UG/KG	ND						ND		ND						ND							
DIBENZOFURAN	UG/KG	ND						ND		ND						ND							
DIELDRIN	UG/KG																	80	E W1 W2	ND		ND	
DIMETHYL PHTHALATE	UG/KG	ND						ND		ND						ND							
DI-N-BUTYL PHTHALATE	UG/KG	ND						ND		ND						ND							
DI-N-OCTYLPHTHALATE	UG/KG	ND						ND		ND						ND							
ENDOSULFAN SULFATE	UG/KG																	ND		ND		ND	
ENDRIN	UG/KG																	ND		ND		ND	
ENDRIN ALDEHYDE	UG/KG																	ND		ND		ND	
ENDRIN KETONE	UG/KG																	ND		ND		ND	
ETHYLBENZENE	UG/KG			ND		ND						ND		ND									

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-029								AUS-0A07-030								AUS-0A07-031		AUS-0A07-032			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**6 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG	ND						ND		ND						ND							
FLUORENE	UG/KG	ND						ND		ND						ND							
GAMMA BHC (LINDANE)	UG/KG																	ND		ND		ND	
GAMMA-CHLORDANE	UG/KG																	ND		ND		ND	
HEPTACHLOR	UG/KG																	ND		ND		ND	
HEPTACHLOR EPOXIDE	UG/KG																	ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	ND						ND		ND						ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND						ND		ND						ND							
IRON	MG/KG	20400	B E					15900	E	18400	E					19600	B E						
ISODRIN	UG/KG																	ND		ND		ND	
LEAD	MG/KG	12.3						12.1		11.7						12.5							
MAGNESIUM	MG/KG	2490	B					1960	B	3220	B					2090	B						
MANGANESE	MG/KG	345	E					747	E	489	E					358	E						
MERCURY	MG/KG	ND						ND		ND						ND							
METHOXYCHLOR	UG/KG																	ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND		ND						ND		ND									
METHYLENE CHLORIDE	UG/KG			ND		ND						ND		ND									
NAPHTHALENE	UG/KG	ND						ND		ND						ND							
NICKEL	MG/KG	11.5						14.8	B	13.2	B					17.3	B						
OCDD	NG/KG																						
OCDF	NG/KG																						
PCB (TOTAL)	UG/KG																						
PCB-1260 (AROCHLOR 1260)	UG/KG																						
PHENANTHRENE	UG/KG	ND						ND		ND						ND							
POTASSIUM	MG/KG	603						287		453						333							
PYRENE	UG/KG	ND						ND		ND						ND							
SELENIUM	MG/KG	ND						ND		0.62						0.33							
SODIUM	MG/KG	ND						348	B	ND						266	B						
STYRENE	UG/KG			ND		ND						ND		ND									
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND						ND		ND									
THALLIUM	MG/KG	ND						ND		ND						ND							
TOLUENE	UG/KG			ND		ND						ND		ND									
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		ND						ND		ND									
TOTAL HpCDDs	NG/KG																						
TOTAL HpCDFs	NG/KG																						
TOTAL HxCDDs	NG/KG																						
TOTAL HxCDFs	NG/KG																						
TOTAL ORGANIC CARBON	MG/KG																						
TOTAL PeCDDs	NG/KG																						
TOTAL PeCDFs	NG/KG																						
TOTAL TCDDs	NG/KG																						
TOTAL TCDFs	NG/KG																						
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND						ND		ND									
VANADIUM	MG/KG	25.9						25.9		21.2						30							
XYLENES, TOTAL	UG/KG			ND		ND						ND		ND									
ZINC	MG/KG	36.5						24.4		35.9						30.2							

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-033				AUS-0A07-034		AUS-0A07-035				AUS-0A07-036				AUS-0A07-037				AUS-0A07-038			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG																					--	
ALL SVOC	UG/KG																			--		--	
ALL EXPLOSIVES	UG/KG																			ND			
ALL PESTICIDES	UG/KG	--		--		--		--		--		--		--		--		--		--		--	
cPAH	UG/KG																			1502.15	H		
Mammal TEQ	NG/KG																						
Bird TEQ	NG/KG																						
1,2,3,4,6,7,8-HpCDD	NG/KG																						
1,2,3,4,6,7,8-HpCDF	NG/KG																						
1,2,3,4,7,8,9-HpCDF	NG/KG																						
1,2,3,4,7,8-HxCDD	NG/KG																						
1,2,3,4,7,8-HxCDF	NG/KG																						
1,2,3,6,7,8-HxCDD	NG/KG																						
1,2,3,6,7,8-HxCDF	NG/KG																						
1,2,3,7,8,9-HxCDD	NG/KG																						
1,2,3,7,8,9-HxCDF	NG/KG																						
1,2,3,7,8-PeCDD	NG/KG																						
1,2,3,7,8-PeCDF	NG/KG																						
1,2-DICHLOROPROPANE	UG/KG																					ND	
2,3,4,6,7,8-HxCDF	NG/KG																						
2,3,4,7,8-PeCDF	NG/KG																						
2,3,7,8-TCDD	NG/KG																						
2,3,7,8-TCDF	NG/KG																						
2-METHYLNAPHTHALENE	UG/KG																			ND			
4,4'-DDD	UG/KG	ND		ND		ND		ND		ND		ND		ND		6.4		ND		ND		2300	E
4,4'-DDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,4'-DDT	UG/KG	ND		ND		ND		ND		ND		ND		ND		1.9		ND		220	E	1800	E
ACENAPHTHENE	UG/KG																			ND			
ACENAPHTHYLENE	UG/KG																			ND			
ACETONE	UG/KG																					24	
ALDRIN	UG/KG	160000	E H W1 W2	220	E H	240	E H	84	E	240	E H	ND		12000	E H W1 W2	29	E	1400	E H W1 W2	54000	E H W1 W2	43000	E H W1 W2
ALPHA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALPHA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		54		ND	
ALUMINUM	MG/KG																			17900	B E		
ANTHRACENE	UG/KG																			ND			
ANTIMONY	MG/KG																			0.49	B		
ARSENIC	MG/KG																			9.6	E H		
BARIUM	MG/KG																			104			
BENZENE	UG/KG																					ND	
BENZO(A)ANTHRACENE	UG/KG																			ND			
BENZO(A)PYRENE	UG/KG																			ND			
BENZO(B)FLUORANTHENE	UG/KG																			ND			
BENZO(G,H,I)PERYLENE	UG/KG																			ND			
BENZO(K)FLUORANTHENE	UG/KG																			ND			
BERYLLIUM	MG/KG																			1.2	B		
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BETA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		5.3		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG																			ND			
BORON	MG/KG																			ND			
CADMIUM	MG/KG																			ND			
CALCIUM	MG/KG																			5060	B		
CARBAZOLE	UG/KG																			ND			
CHLOROBENZENE	UG/KG																					ND	
CHROMIUM, TOTAL	MG/KG																			25.6	B E		
CHRYSENE	UG/KG																			ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG																					ND	
COBALT	MG/KG																			9.3			
COPPER	MG/KG																			23.5	B		
DIBENZ(A,H)ANTHRACENE	UG/KG																			ND			
DIBENZOFURAN	UG/KG																			ND			
DIELDRIN	UG/KG	22000	E H W1 W2	2000	E H W1 W2	1500	E H W1 W2	560	E H W1 W2	940	E H W1 W2	13000	E H W1 W2	48000	E H W1 W2	150	E H W1 W2	750	E H W1 W2	2100	E H W1 W2	190000	E H W1 W2
DIMETHYL PHTHALATE	UG/KG																			ND			
DI-N-BUTYL PHTHALATE	UG/KG																			ND			
DI-N-OCTYLPHTHALATE	UG/KG																			ND			
ENDOSULFAN SULFATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN	UG/KG	ND		ND		ND		ND		ND		ND		450	E	6.9		ND		920	E	12000	E W1 W2
ENDRIN ALDEHYDE	UG/KG	ND		ND		ND		ND		15	E	ND		ND		ND		ND		1200	E W1 W2	7000	E W1 W2
ENDRIN KETONE	UG/KG	ND		93		ND		ND		73		ND		790		17		120		1600	W1 W2	9000	W1 W2
ETHYLBENZENE	UG/KG																					ND	

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-033				AUS-0A07-034		AUS-0A07-035				AUS-0A07-036				AUS-0A07-037				AUS-0A07-038			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG																			ND			
FLUORENE	UG/KG																			ND			
GAMMA BHC (LINDANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GAMMA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR EPOXIDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		310		ND		ND		120		1600	H
INDENO(1,2,3-C,D)PYRENE	UG/KG																			ND			
IRON	MG/KG																			31300	B E H		
ISODRIN	UG/KG	4700	E	ND		34	E	ND		15	E	ND		320	E	ND		170	E	1600	E	1500	E
LEAD	MG/KG																			22			
MAGNESIUM	MG/KG																			3890	B		
MANGANESE	MG/KG																			628	E		
MERCURY	MG/KG																			0.053			
METHOXYCHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG																					ND	
METHYLENE CHLORIDE	UG/KG																					ND	
NAPHTHALENE	UG/KG																			ND			
NICKEL	MG/KG																			22.9	B		
OCDD	NG/KG																						
OCDF	NG/KG																						
PCB (TOTAL)	UG/KG																						
PCB-1260 (AROCHLOR 1260)	UG/KG																						
PHENANTHRENE	UG/KG																			ND			
POTASSIUM	MG/KG																			766	B		
PYRENE	UG/KG																			ND			
SELENIUM	MG/KG																			ND			
SODIUM	MG/KG																			898	B		
STYRENE	UG/KG																					ND	
TETRACHLOROETHYLENE(PCE)	UG/KG																					ND	
THALLIUM	MG/KG																			ND			
TOLUENE	UG/KG																					ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG																						
TOTAL HpCDDs	NG/KG																						
TOTAL HpCDFs	NG/KG																						
TOTAL HxCDDs	NG/KG																						
TOTAL HxCDFs	NG/KG																						
TOTAL ORGANIC CARBON	MG/KG																						
TOTAL PeCDDs	NG/KG																						
TOTAL PeCDFs	NG/KG																						
TOTAL TCDDs	NG/KG																						
TOTAL TCDFs	NG/KG																						
TRICHLOROETHYLENE (TCE)	UG/KG																					ND	
VANADIUM	MG/KG																			38.1	B		
XYLENES, TOTAL	UG/KG																					ND	
ZINC	MG/KG																			54.2	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-039				AUS-0A07-040				AUS-0A07-041		AUS-0A07-042						AUS-0A07-043					
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**
ALL VOC	UG/KG															--				--			
ALL SVOC	UG/KG															ND		ND					
ALL EXPLOSIVES	UG/KG																	ND					
ALL PESTICIDES	UG/KG	--		--		--		--		--		--		--		--		--		--		--	
cPAH	UG/KG															50.056		1271.05	H				
Mammal TEQ	NG/KG																						
Bird TEQ	NG/KG																						
1,2,3,4,6,7,8-HpCDD	NG/KG																						
1,2,3,4,6,7,8-HpCDF	NG/KG																						
1,2,3,4,7,8,9-HpCDF	NG/KG																						
1,2,3,4,7,8-HxCDD	NG/KG																						
1,2,3,4,7,8-HxCDF	NG/KG																						
1,2,3,6,7,8-HxCDD	NG/KG																						
1,2,3,6,7,8-HxCDF	NG/KG																						
1,2,3,7,8,9-HxCDD	NG/KG																						
1,2,3,7,8,9-HxCDF	NG/KG																						
1,2,3,7,8-PeCDD	NG/KG																						
1,2,3,7,8-PeCDF	NG/KG																						
1,2-DICHLOROPROPANE	UG/KG															20				150	W1 W2		
2,3,4,6,7,8-HxCDF	NG/KG																						
2,3,4,7,8-PeCDF	NG/KG																						
2,3,7,8-TCDD	NG/KG																						
2,3,7,8-TCDF	NG/KG																						
2-METHYLNAPHTHALENE	UG/KG																	ND					
4,4'-DDD	UG/KG	ND		ND		ND		ND		ND		ND		1.8		ND		37		ND		ND	
4,4'-DDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,4'-DDT	UG/KG	180	E	ND		ND		ND		ND		23	E	ND		ND		77	E	78	E	ND	
ACENAPHTHENE	UG/KG															ND		ND					
ACENAPHTHYLENE	UG/KG															95		ND					
ACETONE	UG/KG															ND				15			
ALDRIN	UG/KG	3200	E H W1 W2	240	E H	170	E H	1.7		26	E	220	E H	8	E	2		200	E H	230	E H	2.8	
ALPHA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALPHA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG															9000	E	12500	B E				
ANTHRACENE	UG/KG															87		ND					
ANTIMONY	MG/KG															ND		0.51	B				
ARSENIC	MG/KG															9.6	E H	8.8	H				
BARIUM	MG/KG															40.8		71.2					
BENZENE	UG/KG															ND				ND			
BENZO(A)ANTHRACENE	UG/KG															100		ND					
BENZO(A)PYRENE	UG/KG															ND		ND					
BENZO(B)FLUORANTHENE	UG/KG															6.8		ND					
BENZO(G,H,I)PERYLENE	UG/KG															ND		ND					
BENZO(K)FLUORANTHENE	UG/KG															4.5		ND					
BERYLLIUM	MG/KG															0.99	B	0.66	B				
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BETA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG																	ND					
BORON	MG/KG															ND		ND					
CADMIUM	MG/KG															ND		ND					
CALCIUM	MG/KG															1010		1600					
CARBAZOLE	UG/KG																	ND					
CHLOROBENZENE	UG/KG															ND				ND			
CHROMIUM, TOTAL	MG/KG															20.4	B E	16.2	B E				
CHRYSENE	UG/KG															81		ND					
CIS-1,2-DICHLOROETHYLENE	UG/KG															ND				ND			
COBALT	MG/KG															7.8		8.1					
COPPER	MG/KG															16.4	B	12.4	B				
DIBENZ(A,H)ANTHRACENE	UG/KG															ND		ND					
DIBENZOFURAN	UG/KG																	ND					
DIELDRIN	UG/KG	49000	E H W1 W2	4300	E H W1 W2	920	E H W1 W2	140	E H W1 W2	50	E W1 W2	740	E H W1 W2	91	E W1 W2	2.6	E	1400	E H W1 W2	2200	E H W1 W2	2.7	E
DIMETHYL PHTHALATE	UG/KG																	ND					
DI-N-BUTYL PHTHALATE	UG/KG																	ND					
DI-N-OCTYLPHTHALATE	UG/KG																	ND					
ENDOSULFAN SULFATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN	UG/KG	5400	E W1 W2	380	E	ND		ND		ND		ND		ND		ND		77	E	2300	E W1 W2	ND	
ENDRIN ALDEHYDE	UG/KG	1700	E W1 W2	ND		ND		ND		ND		ND		ND		ND		ND		110	E	ND	
ENDRIN KETONE	UG/KG	8000	W1 W2	160		ND		ND		ND		ND		ND		ND		ND		700		ND	
ETHYLBENZENE	UG/KG															ND				ND			

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-039				AUS-0A07-040				AUS-0A07-041		AUS-0A07-042						AUS-0A07-043					
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**
FLUORANTHENE	UG/KG															620		ND					
FLUORENE	UG/KG															210		ND					
GAMMA BHC (LINDANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GAMMA-CHLORDANE	UG/KG	ND		16		ND		ND		ND		ND		ND		ND		3.1		ND		ND	
HEPTACHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR EPOXIDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG															ND		ND					
IRON	MG/KG															34000	B E H	20000	B E				
ISODRIN	UG/KG	150	E	ND		ND		ND		ND		ND		ND		ND		ND		72	E	ND	
LEAD	MG/KG															18.3		11.5					
MAGNESIUM	MG/KG															1650		2370	B				
MANGANESE	MG/KG															414	E	364	E				
MERCURY	MG/KG															ND		0.036					
METHOXYCHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG															ND				ND			
METHYLENE CHLORIDE	UG/KG															ND				ND			
NAPHTHALENE	UG/KG															ND		ND					
NICKEL	MG/KG															18.6	B	12.5					
OCDD	NG/KG																						
OCDF	NG/KG																						
PCB (TOTAL)	UG/KG																						
PCB-1260 (AROCHLOR 1260)	UG/KG																						
PHENANTHRENE	UG/KG															360		ND					
POTASSIUM	MG/KG															689		930	B				
PYRENE	UG/KG															330		ND					
SELENIUM	MG/KG															ND		ND					
SODIUM	MG/KG															700	B	874	B				
STYRENE	UG/KG															ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG															ND				ND			
THALLIUM	MG/KG															ND		ND					
TOLUENE	UG/KG															ND				ND			
TOTAL 1,2-DICHLOROETHENE	UG/KG																						
TOTAL HpCDDs	NG/KG																						
TOTAL HpCDFs	NG/KG																						
TOTAL HxCDDs	NG/KG																						
TOTAL HxCDFs	NG/KG																						
TOTAL ORGANIC CARBON	MG/KG																						
TOTAL PeCDDs	NG/KG																						
TOTAL PeCDFs	NG/KG																						
TOTAL TCDDs	NG/KG																						
TOTAL TCDFs	NG/KG																						
TRICHLOROETHYLENE (TCE)	UG/KG															ND				ND			
VANADIUM	MG/KG															25.2		29.3					
XYLENES, TOTAL	UG/KG															ND				ND			
ZINC	MG/KG															55.2	B	35.2					

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-044						AUS-0A07-045										AUS-0A07-046			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**4 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG									ND				ND							
ALL SVOC	UG/KG							ND						ND							
ALL EXPLOSIVES	UG/KG							ND						ND							
ALL PESTICIDES	UG/KG	--		--		--		--		--		--		ND		ND		--		--	
cPAH	UG/KG							1733.25	H					1271.05	H						
Mammal TEQ	NG/KG							2.16	E												
Bird TEQ	NG/KG							1.92	E												
1,2,3,4,6,7,8-HpCDD	NG/KG							55.5													
1,2,3,4,6,7,8-HpCDF	NG/KG							7.31													
1,2,3,4,7,8,9-HpCDF	NG/KG							0.597													
1,2,3,4,7,8-HxCDD	NG/KG							0.59													
1,2,3,4,7,8-HxCDF	NG/KG							0.289													
1,2,3,6,7,8-HxCDD	NG/KG							1.3													
1,2,3,6,7,8-HxCDF	NG/KG							0.412													
1,2,3,7,8,9-HxCDD	NG/KG							0.997													
1,2,3,7,8,9-HxCDF	NG/KG							ND													
1,2,3,7,8-PeCDD	NG/KG							0.373													
1,2,3,7,8-PeCDF	NG/KG							0.106													
1,2-DICHLOROPROPANE	UG/KG									ND				ND							
2,3,4,6,7,8-HxCDF	NG/KG							0.638													
2,3,4,7,8-PeCDF	NG/KG							0.583													
2,3,7,8-TCDD	NG/KG							0.289													
2,3,7,8-TCDF	NG/KG							0.13													
2-METHYLNAPHTHALENE	UG/KG							ND						ND							
4,4'-DDD	UG/KG	ND		ND		ND		ND		ND		69		ND		ND		ND		2.2	
4,4'-DDE	UG/KG	ND		ND		ND		ND		ND		100		ND		ND		ND		3	
4,4'-DDT	UG/KG	4.4	E	ND		ND		ND		ND		39	E	ND		ND		ND		6.5	E
ACENAPHTHENE	UG/KG							ND						ND							
ACENAPHTHYLENE	UG/KG							ND						ND							
ACETONE	UG/KG									ND				ND							
ALDRIN	UG/KG	ND		ND		ND		ND		5.6	E	350	E H	ND		ND		ND		17	E
ALPHA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALPHA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG							3750	E					12800	B E						
ANTHRACENE	UG/KG							ND						ND							
ANTIMONY	MG/KG							ND						0.38							
ARSENIC	MG/KG							4.3	H					6.8	H						
BARIUM	MG/KG							72.8						54.7							
BENZENE	UG/KG									ND				ND							
BENZO(A)ANTHRACENE	UG/KG							ND						ND							
BENZO(A)PYRENE	UG/KG							ND						ND							
BENZO(B)FLUORANTHENE	UG/KG							ND						ND							
BENZO(G,H,I)PERYLENE	UG/KG							ND						ND							
BENZO(K)FLUORANTHENE	UG/KG							ND						ND							
BERYLLIUM	MG/KG							0.13						0.66	B						
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BETA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG							ND						2500	E						
BORON	MG/KG							6.2	B E					ND							
CADMIUM	MG/KG							0.39	B E					ND							
CALCIUM	MG/KG							146000	B					14800	B						
CARBAZOLE	UG/KG							ND						ND							
CHLOROBENZENE	UG/KG									ND				ND							
CHROMIUM, TOTAL	MG/KG							6.2	E					11.5	E						
CHRYSENE	UG/KG							ND						ND							
CIS-1,2-DICHLOROETHYLENE	UG/KG									ND				ND							
COBALT	MG/KG							6						5.4							
COPPER	MG/KG							10.2	B					13.4	B						
DIBENZ(A,H)ANTHRACENE	UG/KG							ND						ND							
DIBENZOFURAN	UG/KG							ND						ND							
DIELDRIN	UG/KG	81	E W1 W2	1600	E H W1 W2	9.3	E W1 W2	36	E W1 W2	4.2	E W1 W2	580	E H W1 W2	ND		ND		ND		13	E W1 W2
DIMETHYL PHTHALATE	UG/KG							ND						ND							
DI-N-BUTYL PHTHALATE	UG/KG							ND						ND							
DI-N-OCTYLPHTHALATE	UG/KG							ND						ND							
ENDOSULFAN SULFATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN	UG/KG	ND		ND		ND		ND		ND		180	E	ND		ND		ND		ND	
ENDRIN ALDEHYDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN KETONE	UG/KG	ND		ND		ND		ND		ND		60		ND		ND		ND		ND	
ETHYLBENZENE	UG/KG									ND				ND							

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-044						AUS-0A07-045										AUS-0A07-046			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**4 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG							ND						ND							
FLUORENE	UG/KG							ND						ND							
GAMMA BHC (LINDANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GAMMA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR EPOXIDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG							ND						ND							
IRON	MG/KG							6550	E					20200	B E						
ISODRIN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		7.1	E	ND	
LEAD	MG/KG							15.7						15.6							
MAGNESIUM	MG/KG							16200	B					8340	B						
MANGANESE	MG/KG							1370	E					556	E						
MERCURY	MG/KG							ND						0.038							
METHOXYCHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG									ND				ND							
METHYLENE CHLORIDE	UG/KG									ND				ND							
NAPHTHALENE	UG/KG							ND						ND							
NICKEL	MG/KG							9.2						13.3	B						
OCDD	NG/KG							1250													
OCDF	NG/KG							25.7													
PCB (TOTAL)	UG/KG																				
PCB-1260 (AROCHLOR 1260)	UG/KG																				
PHENANTHRENE	UG/KG							ND						ND							
POTASSIUM	MG/KG							796	B					826	B						
PYRENE	UG/KG							ND						ND							
SELENIUM	MG/KG							ND						ND							
SODIUM	MG/KG							566	B					733	B						
STYRENE	UG/KG									ND				ND							
TETRACHLOROETHYLENE(PCE)	UG/KG									ND				ND							
THALLIUM	MG/KG							ND						ND							
TOLUENE	UG/KG									ND				ND							
TOTAL 1,2-DICHLOROETHENE	UG/KG																				
TOTAL HpCDDs	NG/KG							166													
TOTAL HpCDFs	NG/KG							21.4													
TOTAL HxCDDs	NG/KG							14.9													
TOTAL HxCDFs	NG/KG							9.98													
TOTAL ORGANIC CARBON	MG/KG																				
TOTAL PeCDDs	NG/KG							3.55													
TOTAL PeCDFs	NG/KG							6.42													
TOTAL TCDDs	NG/KG							0.351													
TOTAL TCDFs	NG/KG							1.07													
TRICHLOROETHYLENE (TCE)	UG/KG									ND				ND							
VANADIUM	MG/KG							10.1						21.2							
XYLENES, TOTAL	UG/KG									ND				ND							
ZINC	MG/KG							46.1	B					43.6	B						

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-047										AUS-0A07-048				AUS-0A07-049				AUS-0A07-050			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**4 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG					--		--		--													
ALL SVOC	UG/KG					ND		ND		ND													
ALL EXPLOSIVES	UG/KG																						
ALL PESTICIDES	UG/KG	--		--		--		--		--		ND		--		--		--		--		--	
cPAH	UG/KG					53.428		45.783		41.657													
Mammal TEQ	NG/KG																						
Bird TEQ	NG/KG																						
1,2,3,4,6,7,8-HpCDD	NG/KG																						
1,2,3,4,6,7,8-HpCDF	NG/KG																						
1,2,3,4,7,8,9-HpCDF	NG/KG																						
1,2,3,4,7,8-HxCDD	NG/KG																						
1,2,3,4,7,8-HxCDF	NG/KG																						
1,2,3,6,7,8-HxCDD	NG/KG																						
1,2,3,6,7,8-HxCDF	NG/KG																						
1,2,3,7,8,9-HxCDD	NG/KG																						
1,2,3,7,8,9-HxCDF	NG/KG																						
1,2,3,7,8-PeCDD	NG/KG																						
1,2,3,7,8-PeCDF	NG/KG																						
1,2-DICHLOROPROPANE	UG/KG					660	H W1 W2	480	W1 W2	380	W1 W2												
2,3,4,6,7,8-HxCDF	NG/KG																						
2,3,4,7,8-PeCDF	NG/KG																						
2,3,7,8-TCDD	NG/KG																						
2,3,7,8-TCDF	NG/KG																						
2-METHYLNAPHTHALENE	UG/KG																						
4,4'-DDD	UG/KG	12000	E H	ND		ND		290		1100	E	ND		2200	E	31		100		250		1.5	
4,4'-DDE	UG/KG	2000	E	ND		ND		ND		ND		ND		2900	E	100		120				ND	
4,4'-DDT	UG/KG	14000	E H	ND		3900	E	1700	E	4400	E	ND		9300	E H	110	E	260	E			ND	
ACENAPHTHENE	UG/KG					ND		320		150													
ACENAPHTHYLENE	UG/KG					ND		420		190													
ACETONE	UG/KG					14		14		ND													
ALDRIN	UG/KG	88000	E H W1 W2	1300000	E H W1 W2	120000	E H W1 W2	13000	E H W1 W2	2400	E H W1 W2	ND		ND		290	E H	76	E	57	E	5.1	E
ALPHA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND				ND	
ALPHA-CHLORDANE	UG/KG	490	E	ND		ND		ND		ND		ND		ND		ND		ND				ND	
ALUMINUM	MG/KG					7010	E	9710	B E	9360	B E												
ANTHRACENE	UG/KG					ND		11		2.8													
ANTIMONY	MG/KG					ND		ND		ND													
ARSENIC	MG/KG					9.6	E H	7.1	H	7.5	H												
BARIUM	MG/KG					60.7		69.8		70													
BENZENE	UG/KG					7		8		7													
BENZO(A)ANTHRACENE	UG/KG					18		25		8.2													
BENZO(A)PYRENE	UG/KG					17		10		ND													
BENZO(B)FLUORANTHENE	UG/KG					21		12		5													
BENZO(G,H,I)PERYLENE	UG/KG					15		ND		ND													
BENZO(K)FLUORANTHENE	UG/KG					11		6		2.7													
BERYLLIUM	MG/KG					0.64	B	0.78	B	0.82	B												
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND				ND	
BETA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND				ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG																						
BORON	MG/KG					ND		4	E	4.1	E												
CADMIUM	MG/KG					ND		0.18		0.1													
CALCIUM	MG/KG					2550		2050		2060													
CARBAZOLE	UG/KG																						
CHLOROBENZENE	UG/KG					48		39		13													
CHROMIUM, TOTAL	MG/KG					17.4	B E	17.1	B E	17.9	B E												
CHRYSENE	UG/KG					18		23		10													
CIS-1,2-DICHLOROETHYLENE	UG/KG					ND		ND		ND													
COBALT	MG/KG					7.8		10.5	B	10.2	B												
COPPER	MG/KG					14.9	B	16	B	17.3	B												
DIBENZ(A,H)ANTHRACENE	UG/KG					ND		ND		ND													
DIBENZOFURAN	UG/KG																						
DIELDRIN	UG/KG	140000	E H W1 W2	99000	E H W1 W2	15000	E H W1 W2	3500	E H W1 W2	6700	E H W1 W2	200	E H W1 W2	4900	E H W1 W2	550	E H W1 W2	810	E H W1 W2	510	E H W1 W2	19	E W1 W2
DIMETHYL PHTHALATE	UG/KG																						
DI-N-BUTYL PHTHALATE	UG/KG																						
DI-N-OCTYLPHTHALATE	UG/KG																						
ENDOSULFAN SULFATE	UG/KG	ND		ND		ND		ND		ND		ND				ND		ND				ND	
ENDRIN	UG/KG	1200	E W1 W2	ND		ND		ND		ND		ND		330	E	ND		42	E	44	E	ND	
ENDRIN ALDEHYDE	UG/KG	2100	E W1 W2	ND		ND		ND		ND		ND		ND		ND		ND				ND	
ENDRIN KETONE	UG/KG	4900	W1 W2	ND		ND		ND		ND		ND		ND		ND		ND				ND	
ETHYLBENZENE	UG/KG					41		27		ND													

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-047										AUS-0A07-048				AUS-0A07-049				AUS-0A07-050			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**4 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG					38		87		28													
FLUORENE	UG/KG					ND		55		ND													
GAMMA BHC (LINDANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GAMMA-CHLORDANE	UG/KG	1600	E	ND		ND		400	E	920	E	ND		ND		ND		ND		ND		ND	
HEPTACHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND				ND	
HEPTACHLOR EPOXIDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	2700	H W1 W2	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG					14		10		ND													
IRON	MG/KG					19800	B E	23500	B E	27800	B E												
ISODRIN	UG/KG	920	E	49000	E	4600	E	480	E	ND		ND		ND		ND		ND				ND	
LEAD	MG/KG					14.3		13.4		15.2													
MAGNESIUM	MG/KG					2550	B	2600	B	2610	B												
MANGANESE	MG/KG					427	E	597	E	635	E												
MERCURY	MG/KG					ND		ND		ND													
METHOXYCHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG					ND		ND		ND													
METHYLENE CHLORIDE	UG/KG					ND		ND		ND													
NAPHTHALENE	UG/KG					ND		330		150													
NICKEL	MG/KG					18.8	B	21.9	B	22.5	B												
OCDD	NG/KG																						
OCDF	NG/KG																						
PCB (TOTAL)	UG/KG																						
PCB-1260 (AROCHLOR 1260)	UG/KG																						
PHENANTHRENE	UG/KG					24		170		44													
POTASSIUM	MG/KG					524		910	B	808	B												
PYRENE	UG/KG					39		110		20													
SELENIUM	MG/KG					ND		ND		ND													
SODIUM	MG/KG					828	B	1100	B	1040	B												
STYRENE	UG/KG					28		21		ND													
TETRACHLOROETHYLENE(PCE)	UG/KG					48		15		ND													
THALLIUM	MG/KG					ND		ND		ND													
TOLUENE	UG/KG					11		10		4													
TOTAL 1,2-DICHLOROETHENE	UG/KG																						
TOTAL HpCDDs	NG/KG																						
TOTAL HpCDFs	NG/KG																						
TOTAL HxCDDs	NG/KG																						
TOTAL HxCDFs	NG/KG																						
TOTAL ORGANIC CARBON	MG/KG																						
TOTAL PeCDDs	NG/KG																						
TOTAL PeCDFs	NG/KG																						
TOTAL TCDDs	NG/KG																						
TOTAL TCDFs	NG/KG																						
TRICHLOROETHYLENE (TCE)	UG/KG					ND		ND		ND													
VANADIUM	MG/KG					20.8		22.6		23.2													
XYLENES, TOTAL	UG/KG					4500	E	2500	E	200													
ZINC	MG/KG					55.1	B	58.2	B	59.3	B												

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-051				AUS-0A07-052				AUS-0A07-053				AUS-0A07-054				AUS-0A07-055				AUS-0A07-056			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG											ND													
ALL SVOC	UG/KG									ND															
ALL EXPLOSIVES	UG/KG									ND															
ALL PESTICIDES	UG/KG	--		--		--		ND		--		--		--		--		--		ND		--		--	
cPAH	UG/KG									1271.05	H														
Mammal TEQ	NG/KG																								
Bird TEQ	NG/KG																								
1,2,3,4,6,7,8-HpCDD	NG/KG																								
1,2,3,4,6,7,8-HpCDF	NG/KG																								
1,2,3,4,7,8,9-HpCDF	NG/KG																								
1,2,3,4,7,8-HxCDD	NG/KG																								
1,2,3,4,7,8-HxCDF	NG/KG																								
1,2,3,6,7,8-HxCDD	NG/KG																								
1,2,3,6,7,8-HxCDF	NG/KG																								
1,2,3,7,8,9-HxCDD	NG/KG																								
1,2,3,7,8,9-HxCDF	NG/KG																								
1,2,3,7,8-PeCDD	NG/KG																								
1,2,3,7,8-PeCDF	NG/KG																								
1,2-DICHLOROPROPANE	UG/KG											ND													
2,3,4,6,7,8-HxCDF	NG/KG																								
2,3,4,7,8-PeCDF	NG/KG																								
2,3,7,8-TCDD	NG/KG																								
2,3,7,8-TCDF	NG/KG																								
2-METHYLNAPHTHALENE	UG/KG									ND															
4,4'-DDD	UG/KG	320		12000	E H	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,4'-DDE	UG/KG	890	E	4800	E	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,4'-DDT	UG/KG	2100	E	100000	E H W1 W2	ND		ND		2.1		2		ND		ND		44	E	ND		4.8	E	ND	
ACENAPHTHENE	UG/KG									ND															
ACENAPHTHYLENE	UG/KG									ND															
ACETONE	UG/KG											ND													
ALDRIN	UG/KG	39	E	ND		ND		ND		27	E	2.8		ND		2.2		ND		ND		57	E	110	E H
ALPHA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALPHA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG									10700	B E														
ANTHRACENE	UG/KG									ND															
ANTIMONY	MG/KG									0.42															
ARSENIC	MG/KG									5.9	H														
BARIUM	MG/KG									153															
BENZENE	UG/KG											ND													
BENZO(A)ANTHRACENE	UG/KG									ND															
BENZO(A)PYRENE	UG/KG									ND															
BENZO(B)FLUORANTHENE	UG/KG									ND															
BENZO(G,H,I)PERYLENE	UG/KG									ND															
BENZO(K)FLUORANTHENE	UG/KG									ND															
BERYLLIUM	MG/KG									0.86	B														
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BETA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG									ND															
BORON	MG/KG									4	E														
CADMIUM	MG/KG									ND															
CALCIUM	MG/KG									2340															
CARBAZOLE	UG/KG									ND															
CHLOROBENZENE	UG/KG											ND													
CHROMIUM, TOTAL	MG/KG									17.4	B E														
CHRYSENE	UG/KG									ND															
CIS-1,2-DICHLOROETHYLENE	UG/KG											ND													
COBALT	MG/KG									8.9															
COPPER	MG/KG									12.9	B														
DIBENZ(A,H)ANTHRACENE	UG/KG									ND															
DIBENZOFURAN	UG/KG									ND															
DIELDRIN	UG/KG	1300	E H W1 W2	13000	E H W1 W2	28	E W1 W2	ND		41	E W1 W2	19	E W1 W2	140	E H W1 W2	5.9	E W1 W2	440	E H W1 W2	ND		580	E H W1 W2	10	E W1 W2
DIMETHYL PHTHALATE	UG/KG									ND															
DI-N-BUTYL PHTHALATE	UG/KG									ND															
DI-N-OCTYLPHTHALATE	UG/KG									ND															
ENDOSULFAN SULFATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN	UG/KG	1300	E W1 W2	1800	E W1 W2	ND		ND		ND		ND		ND		ND		ND		ND		5.4		ND	
ENDRIN ALDEHYDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		2.6		ND	
ENDRIN KETONE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		10		ND	
ETHYLBENZENE	UG/KG											ND													

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-051				AUS-0A07-052				AUS-0A07-053				AUS-0A07-054				AUS-0A07-055				AUS-0A07-056			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG									ND															
FLUORENE	UG/KG									ND															
GAMMA BHC (LINDANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GAMMA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR EPOXIDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG									ND															
IRON	MG/KG									17900	E														
ISODRIN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		3.9	E
LEAD	MG/KG									9.3															
MAGNESIUM	MG/KG									2360	B														
MANGANESE	MG/KG									694	E														
MERCURY	MG/KG									ND															
METHOXYCHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG											ND													
METHYLENE CHLORIDE	UG/KG											ND													
NAPHTHALENE	UG/KG									ND															
NICKEL	MG/KG									19.8	B														
OCDD	NG/KG																								
OCDF	NG/KG																								
PCB (TOTAL)	UG/KG																								
PCB-1260 (AROCHLOR 1260)	UG/KG																								
PHENANTHRENE	UG/KG									ND															
POTASSIUM	MG/KG									735	B														
PYRENE	UG/KG									ND															
SELENIUM	MG/KG									ND															
SODIUM	MG/KG									1360	B														
STYRENE	UG/KG											ND													
TETRACHLOROETHYLENE(PCE)	UG/KG											ND													
THALLIUM	MG/KG									ND															
TOLUENE	UG/KG											ND													
TOTAL 1,2-DICHLOROETHENE	UG/KG																								
TOTAL HpCDDs	NG/KG																								
TOTAL HpCDFs	NG/KG																								
TOTAL HxCDDs	NG/KG																								
TOTAL HxCDFs	NG/KG																								
TOTAL ORGANIC CARBON	MG/KG																								
TOTAL PeCDDs	NG/KG																								
TOTAL PeCDFs	NG/KG																								
TOTAL TCDDs	NG/KG																								
TOTAL TCDFs	NG/KG																								
TRICHLOROETHYLENE (TCE)	UG/KG											ND													
VANADIUM	MG/KG									32.6	B														
XYLENES, TOTAL	UG/KG											ND													
ZINC	MG/KG									39.9															

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-057				AUS-0A07-058		AUS-0A07-059				AUS-0A07-060						AUS-0A07-061				AUS-0A07-062			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND						--				--		--									
ALL SVOC	UG/KG	--						--				ND				ND									
ALL EXPLOSIVES	UG/KG	ND						ND				ND				ND									
ALL PESTICIDES	UG/KG	--		--		--		--		--		--		--		--		--		--		--		ND	
cPAH	UG/KG	ND						1386.6	H			1271.05	H			1386.6	H								
Mammal TEQ	NG/KG																								
Bird TEQ	NG/KG																								
1,2,3,4,6,7,8-HpCDD	NG/KG																								
1,2,3,4,6,7,8-HpCDF	NG/KG																								
1,2,3,4,7,8,9-HpCDF	NG/KG																								
1,2,3,4,7,8-HxCDD	NG/KG																								
1,2,3,4,7,8-HxCDF	NG/KG																								
1,2,3,6,7,8-HxCDD	NG/KG																								
1,2,3,6,7,8-HxCDF	NG/KG																								
1,2,3,7,8,9-HxCDD	NG/KG																								
1,2,3,7,8,9-HxCDF	NG/KG																								
1,2,3,7,8-PeCDD	NG/KG																								
1,2,3,7,8-PeCDF	NG/KG																								
1,2-DICHLOROPROPANE	UG/KG			ND						ND				ND		ND									
2,3,4,6,7,8-HxCDF	NG/KG																								
2,3,4,7,8-PeCDF	NG/KG																								
2,3,7,8-TCDD	NG/KG																								
2,3,7,8-TCDF	NG/KG																								
2-METHYLNAPHTHALENE	UG/KG	ND						ND				ND				ND									
4,4'-DDD	UG/KG	120		ND		440		ND		ND		1800	E	14		ND		ND		ND				ND	
4,4'-DDE	UG/KG	510		ND		710	E	ND		ND		ND		ND		ND		ND		ND				ND	
4,4'-DDT	UG/KG	410	E	230	E	2100	E	4.4	E	ND		91	E	ND		ND		ND		ND				ND	
ACENAPHTHENE	UG/KG	ND						ND				ND				ND									
ACENAPHTHYLENE	UG/KG	ND						ND				ND				ND									
ACETONE	UG/KG			ND						9				10		11									
ALDRIN	UG/KG	26	E	390	E H	650	E H W1 W2	ND		ND		240	E H	15	E	ND		ND		ND				ND	
ALPHA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALPHA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG	2720	E					11800	B E			11700	B E			11800	B E								
ANTHRACENE	UG/KG	ND						ND				ND				ND									
ANTIMONY	MG/KG	ND						0.35				ND				0.63	B								
ARSENIC	MG/KG	4.3	H					6.8	H			8.5	H			5.4	H								
BARIUM	MG/KG	18.8						129				108				115									
BENZENE	UG/KG			ND						ND				ND		ND									
BENZO(A)ANTHRACENE	UG/KG	ND						ND				ND				ND									
BENZO(A)PYRENE	UG/KG	ND						ND				ND				ND									
BENZO(B)FLUORANTHENE	UG/KG	ND						ND				ND				ND									
BENZO(G,H,I)PERYLENE	UG/KG	ND						ND				ND				ND									
BENZO(K)FLUORANTHENE	UG/KG	ND						ND				ND				ND									
BERYLLIUM	MG/KG	ND						0.61	B			0.66	B			0.59	B								
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BETA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND						ND				ND				ND									
BORON	MG/KG	5.5	B E					ND				3.3	E			2.7	E								
CADMIUM	MG/KG	0.34	E					ND				ND				ND									
CALCIUM	MG/KG	217000	B					1620				3090	B			1260									
CARBAZOLE	UG/KG	ND						ND				ND				ND									
CHLOROBENZENE	UG/KG			ND						ND				ND		ND									
CHROMIUM, TOTAL	MG/KG	6.1	E					16.6	B E			17.3	B E			17	B E								
CHRYSENE	UG/KG	ND						ND				ND				ND									
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND						ND				ND		ND									
COBALT	MG/KG	2.4						15.1	B			8.1				9.6	B								
COPPER	MG/KG	8.6						13.4	B			11.3	B			13.4	B								
DIBENZ(A,H)ANTHRACENE	UG/KG	ND						ND				ND				ND									
DIBENZOFURAN	UG/KG	ND						ND				ND				ND									
DIELDRIN	UG/KG	3800	E H W1 W2	7200	E H W1 W2	7400	E H W1 W2	20	E W1 W2	8.2	E W1 W2	4100	E H W1 W2	61	E W1 W2	39	E W1 W2	13000	E H W1 W2	44	E W1 W2			ND	
DIMETHYL PHTHALATE	UG/KG	ND						ND				ND				ND									
DI-N-BUTYL PHTHALATE	UG/KG	ND						ND				ND				ND									
DI-N-OCTYLPHTHALATE	UG/KG	ND						ND				ND				ND									
ENDOSULFAN SULFATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN	UG/KG	97	E	800	E	90	E	ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN ALDEHYDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		4700	E W1 W2	ND		ND		ND	
ENDRIN KETONE	UG/KG	81		1100	W1 W2	150		ND		ND		ND		ND		ND		ND		ND				ND	
ETHYLBENZENE	UG/KG			ND						ND				ND		ND									

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-057				AUS-0A07-058		AUS-0A07-059				AUS-0A07-060						AUS-0A07-061				AUS-0A07-062			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
FLUORANTHENE	UG/KG	ND						ND				ND				ND									
FLUORENE	UG/KG	ND						ND				ND				ND									
GAMMA BHC (LINDANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GAMMA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR EPOXIDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	23		ND		ND		5.8		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND						ND				ND				ND									
IRON	MG/KG	6170	E					18700	E			18300	E			16400	E								
ISODRIN	UG/KG	ND		ND		95	E	ND		ND		ND		ND		ND		ND		ND				ND	
LEAD	MG/KG	58.1	B					11.8				54.5	B			11.9									
MAGNESIUM	MG/KG	18500	B					2530	B			2850	B			2180	B								
MANGANESE	MG/KG	209	E					921	E			565	E			721	E								
MERCURY	MG/KG	ND						ND				ND				ND									
METHOXYCHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND						ND				ND		ND									
METHYLENE CHLORIDE	UG/KG			ND						ND				ND		ND									
NAPHTHALENE	UG/KG	ND						ND				ND				ND									
NICKEL	MG/KG	10.6						13.1	B			12.1				11.8									
OCDD	NG/KG																								
OCDF	NG/KG																								
PCB (TOTAL)	UG/KG																								
PCB-1260 (AROCHLOR 1260)	UG/KG																								
PHENANTHRENE	UG/KG	ND						ND				ND				ND									
POTASSIUM	MG/KG	859	B					744	B			680				668									
PYRENE	UG/KG	ND						ND				ND				ND									
SELENIUM	MG/KG	ND						ND				ND				0.78									
SODIUM	MG/KG	416	B					1250	B			1090	B			1110	B								
STYRENE	UG/KG			ND						ND				ND		ND									
TETRACHLOROETHYLENE(PCE)	UG/KG			ND						ND				ND		ND									
THALLIUM	MG/KG	ND						ND				ND				ND									
TOLUENE	UG/KG			ND						ND				ND		ND									
TOTAL 1,2-DICHLOROETHENE	UG/KG																								
TOTAL HpCDDs	NG/KG																								
TOTAL HpCDFs	NG/KG																								
TOTAL HxCDDs	NG/KG																								
TOTAL HxCDFs	NG/KG																								
TOTAL ORGANIC CARBON	MG/KG																								
TOTAL PeCDDs	NG/KG																								
TOTAL PeCDFs	NG/KG																								
TOTAL TCDDs	NG/KG																								
TOTAL TCDFs	NG/KG																								
TRICHLOROETHYLENE (TCE)	UG/KG			ND						ND				ND		ND									
VANADIUM	MG/KG	5.7						30.6				30.4				29.3									
XYLENES, TOTAL	UG/KG			ND						ND				ND		ND									
ZINC	MG/KG	95.4	B					39.8				54.3	B			33.2									

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-065		AUS-0A07-067		AUS-0A07-068		AUS-0A07-071				AUS-0A07-073				AUS-0A07-076				AUS-0A07-081		AUS-0A07-162	
Constituents Detected	**Units**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG	--		ND						--				ND				ND					
ALL SVOC	UG/KG							ND				ND				ND						--	
ALL EXPLOSIVES	UG/KG							ND				ND				ND						ND	
ALL PESTICIDES	UG/KG	ND		ND		ND		ND		ND		--		--		ND		--		ND		ND	
cPAH	UG/KG							1271.05	H			1271.05	H			1386.6	H					462.14	H
Mammal TEQ	NG/KG															0.58							
Bird TEQ	NG/KG															0.39							
1,2,3,4,6,7,8-HpCDD	NG/KG															22.4							
1,2,3,4,6,7,8-HpCDF	NG/KG															1.06							
1,2,3,4,7,8,9-HpCDF	NG/KG															ND							
1,2,3,4,7,8-HxCDD	NG/KG															0.154							
1,2,3,4,7,8-HxCDF	NG/KG															0.0844							
1,2,3,6,7,8-HxCDD	NG/KG															0.363							
1,2,3,6,7,8-HxCDF	NG/KG															0.101							
1,2,3,7,8,9-HxCDD	NG/KG															0.448							
1,2,3,7,8,9-HxCDF	NG/KG															ND							
1,2,3,7,8-PeCDD	NG/KG															0.0971							
1,2,3,7,8-PeCDF	NG/KG															0.0612							
1,2-DICHLOROPROPANE	UG/KG	10		ND						ND				ND				ND					
2,3,4,6,7,8-HxCDF	NG/KG															ND							
2,3,4,7,8-PeCDF	NG/KG															0.0823							
2,3,7,8-TCDD	NG/KG															ND							
2,3,7,8-TCDF	NG/KG															ND							
2-METHYLNAPHTHALENE	UG/KG							ND				ND				ND						ND	
4,4'-DDD	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,4'-DDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
4,4'-DDT	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ACENAPHTHENE	UG/KG							ND				ND				ND						ND	
ACENAPHTHYLENE	UG/KG							ND				ND				ND						ND	
ACETONE	UG/KG	ND		ND						11				ND				ND					
ALDRIN	UG/KG	ND		ND		ND		ND		ND		ND		140	E H	ND		ND		ND		ND	
ALPHA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALPHA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG							14300	B E			8730	E			12400	B E					11000	B E
ANTHRACENE	UG/KG							ND				ND				ND						ND	
ANTIMONY	MG/KG							ND				ND				0.35						ND	
ARSENIC	MG/KG							5.8	H			4.6	H			4.7	H					6.5	H
BARIUM	MG/KG							112				75.6				96.9						79	
BENZENE	UG/KG	ND		ND						ND				ND				ND					
BENZO(A)ANTHRACENE	UG/KG							ND				ND				ND						ND	
BENZO(A)PYRENE	UG/KG							ND				ND				ND						ND	
BENZO(B)FLUORANTHENE	UG/KG							ND				ND				ND						ND	
BENZO(G,H,I)PERYLENE	UG/KG							ND				ND				ND						ND	
BENZO(K)FLUORANTHENE	UG/KG							ND				ND				ND						ND	
BERYLLIUM	MG/KG							0.68	B			0.42				0.8	B					0.35	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BETA ENDOSULFAN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG							ND				ND				ND						ND	
BORON	MG/KG							4	E			3.8	E			ND							
CADMIUM	MG/KG							ND				0.22				ND						ND	
CALCIUM	MG/KG							2060				64100	B			2450						2300	
CARBAZOLE	UG/KG							ND				ND				ND						ND	
CHLOROBENZENE	UG/KG	ND		ND						ND				ND				ND					
CHROMIUM, TOTAL	MG/KG							18.9	B E			12.1	E			20.2	B E					14	B E
CHRYSENE	UG/KG							ND				ND				ND						140	
CIS-1,2-DICHLOROETHYLENE	UG/KG	ND		ND						ND				ND				ND					
COBALT	MG/KG							8.5				4.2				3.6						10	B
COPPER	MG/KG							12.1	B			10.1	B			10.5	B					9.6	B
DIBENZ(A,H)ANTHRACENE	UG/KG							ND				ND				ND						ND	
DIBENZOFURAN	UG/KG							ND				ND				ND						ND	
DIELDRIN	UG/KG	ND		ND		ND		ND		ND		96	E W1 W2	430	E H W1 W2	ND		9.7	E W1 W2	ND		ND	
DIMETHYL PHTHALATE	UG/KG							ND				ND				ND						ND	
DI-N-BUTYL PHTHALATE	UG/KG							ND				ND				ND						ND	
DI-N-OCTYLPHTHALATE	UG/KG							ND				ND				ND						ND	
ENDOSULFAN SULFATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ENDRIN	UG/KG	ND		ND		ND		ND		ND		100	E	310	E	ND		ND		ND		ND	
ENDRIN ALDEHYDE	UG/KG	ND		ND		ND		ND		ND		320	E	140	E	ND		ND		ND		ND	
ENDRIN KETONE	UG/KG	ND		ND		ND		ND		ND		2600	W1 W2	1700	W1 W2	ND		ND		ND		ND	
ETHYLBENZENE	UG/KG	ND		ND						ND				ND				ND					

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-065		AUS-0A07-067		AUS-0A07-068		AUS-0A07-071				AUS-0A07-073				AUS-0A07-076				AUS-0A07-081		AUS-0A07-162	
Constituents Detected	**Units**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**
FLUORANTHENE	UG/KG							ND				ND				ND						240	
FLUORENE	UG/KG							ND				ND				ND						ND	
GAMMA BHC (LINDANE)	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
GAMMA-CHLORDANE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			
HEPTACHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEPTACHLOR EPOXIDE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
HEXACHLOROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG							ND				ND				ND						ND	
IRON	MG/KG							16500	E			11100	E			16100	E					14000	E
ISODRIN	UG/KG	ND		ND		ND		ND		ND		ND		58	E	ND		ND		ND			
LEAD	MG/KG							11.8				18.8				9.4						18	
MAGNESIUM	MG/KG							2510	B			19700	B			2360	B					2400	B
MANGANESE	MG/KG							440	E			254	E			225	E					570	E
MERCURY	MG/KG							ND				ND				ND						0.028	
METHOXYCHLOR	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG	ND		ND						ND				ND				ND					
METHYLENE CHLORIDE	UG/KG	ND		ND						ND				ND				ND					
NAPHTHALENE	UG/KG							ND				ND				ND						ND	
NICKEL	MG/KG							13	B			10.4				10.3						8.9	
OCDD	NG/KG															925							
OCDF	NG/KG															3.39							
PCB (TOTAL)	UG/KG							ND				ND				ND						ND	
PCB-1260 (AROCHLOR 1260)	UG/KG							ND				ND				ND						ND	
PHENANTHRENE	UG/KG							ND				ND				ND						ND	
POTASSIUM	MG/KG							849	B			662				613						600	
PYRENE	UG/KG							ND				ND				ND						190	
SELENIUM	MG/KG							ND				ND				ND						0.56	
SODIUM	MG/KG							1170	B			855	B			1200	B					170	B
STYRENE	UG/KG	ND		ND						ND				ND				ND					
TETRACHLOROETHYLENE(PCE)	UG/KG	ND		ND						ND				ND				ND					
THALLIUM	MG/KG							ND				ND				ND						ND	
TOLUENE	UG/KG	ND		ND						ND				ND				ND					
TOTAL 1,2-DICHLOROETHENE	UG/KG																						
TOTAL HpCDDs	NG/KG															51.9							
TOTAL HpCDFs	NG/KG															3.6							
TOTAL HxCDDs	NG/KG															3.32							
TOTAL HxCDFs	NG/KG															1.01							
TOTAL ORGANIC CARBON	MG/KG																						
TOTAL PeCDDs	NG/KG															0.103							
TOTAL PeCDFs	NG/KG															0.435							
TOTAL TCDDs	NG/KG															ND							
TOTAL TCDFs	NG/KG															ND							
TRICHLOROETHYLENE (TCE)	UG/KG	ND		ND						ND				ND				ND					
VANADIUM	MG/KG							32.3	B			19.6				31						26	
XYLENES, TOTAL	UG/KG	ND		ND						ND				ND				ND					
ZINC	MG/KG							34.2				41.5	B			28.9						29	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-163		AUS-0A07-164		AUS-0A07-165		AUS-0A07-166		AUS-0A07-167		AUS-0A07-168		AUS-0A07-169		AUS-0A07-170		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**2 ft**	**CE**	**6 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG	--		--				--				ND		--		--						
ALL SVOC	UG/KG																					
ALL EXPLOSIVES	UG/KG																					
ALL PESTICIDES	UG/KG																					
cPAH	UG/KG																			2.1E+02		
Mammal TEQ	NG/KG																		8.1E-01	1.6E+01		
Bird TEQ	NG/KG																		8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG																					
1,2,3,4,6,7,8-HpCDF	NG/KG																					
1,2,3,4,7,8,9-HpCDF	NG/KG																					
1,2,3,4,7,8-HxCDD	NG/KG																					
1,2,3,4,7,8-HxCDF	NG/KG																					
1,2,3,6,7,8-HxCDD	NG/KG																					
1,2,3,6,7,8-HxCDF	NG/KG																					
1,2,3,7,8,9-HxCDD	NG/KG																					
1,2,3,7,8,9-HxCDF	NG/KG																					
1,2,3,7,8-PeCDD	NG/KG																					
1,2,3,7,8-PeCDF	NG/KG																					
1,2-DICHLOROPROPANE	UG/KG	ND		ND				ND				ND		ND		ND			7.0E+05	5.0E+02	3.0E+01	3.0E+01
2,3,4,6,7,8-HxCDF	NG/KG																					
2,3,4,7,8-PeCDF	NG/KG																					
2,3,7,8-TCDD	NG/KG																		8.1E-01	1.6E+01		
2,3,7,8-TCDF	NG/KG																					
2-METHYLNAPHTHALENE	UG/KG																		4.6E+04	1.9E+04	8.4E+04	7.7E+03
4,4'-DDD	UG/KG																		7.6E+02	1.0E+04	1.6E+04	1.6E+04
4,4'-DDE	UG/KG																		6.0E+02	7.0E+03	5.4E+04	5.4E+04
4,4'-DDT	UG/KG																		3.5E+00	7.0E+03	3.2E+04	3.2E+04
ACENAPHTHENE	UG/KG																		8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG																		8.3E+03	1.8E+03	8.4E+04	2.4E+04
ACETONE	UG/KG	ND		ND				ND				ND		ND		ND			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALDRIN	UG/KG																		3.3E+00	1.0E+02	5.0E+02	5.0E+02
ALPHA ENDOSULFAN	UG/KG																		1.2E+02	3.7E+05	1.8E+04	1.8E+04
ALPHA-CHLORDANE	UG/KG																		2.2E+02	1.6E+03	1.0E+04	1.0E+04
ALUMINUM	MG/KG					10000	B E			12000	B E							9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG																		1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG					ND				ND								4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG					5.7	H			5.8	H							1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG					90				93								2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZENE	UG/KG	ND		ND				ND				ND		ND		ND			1.6E+04	1.4E+03	3.0E+01	3.0E+01
BENZO(A)ANTHRACENE	UG/KG																		3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG																		3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG																		1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG																		1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG																		9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG					0.36				0.36								4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	UG/KG																		4.0E+00	1.3E+03	3.0E+00	
BETA ENDOSULFAN	UG/KG																		1.2E+02	3.7E+05	1.8E+04	1.8E+04
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG																		9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG																	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG					ND				ND								3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG					3400	B			2700								2.9E+03				
CARBAZOLE	UG/KG																		1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHLOROBENZENE	UG/KG	ND		ND				ND				ND		ND		ND			4.0E+04	1.3E+03	1.0E+03	1.0E+03
CHROMIUM, TOTAL	MG/KG					14	B E			15	B E							1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG																		4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG																		7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG					6				6.5								9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG					10	B			11	B							9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG																		1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG																		2.5E+04	1.6E+05		1.5E+04
DIELDRIN	UG/KG																		2.4E+00	1.1E+02	4.0E+00	4.0E+00
DIMETHYL PHTHALATE	UG/KG																		2.0E+05	1.3E+06		3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG																		7.1E+02	2.3E+06	2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	UG/KG																		6.1E+05	2.5E+06	1.0E+07	1.0E+07
ENDOSULFAN SULFATE	UG/KG																		3.6E+01	3.7E+05	1.8E+04	1.8E+04
ENDRIN	UG/KG																		1.0E+01	1.8E+04	1.0E+03	1.0E+03
ENDRIN ALDEHYDE	UG/KG																		1.1E+01	1.8E+04	1.0E+03	1.0E+03
ENDRIN KETONE	UG/KG																			1.8E+04	1.0E+03	1.0E+03
ETHYLBENZENE	UG/KG	ND		ND				ND				ND		ND		ND			5.0E+03	5.8E+04	1.3E+04	1.3E+04

Table 5-23
AUS-0A07 - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Soil Samples		AUS-0A07-163		AUS-0A07-164		AUS-0A07-165		AUS-0A07-166		AUS-0A07-167		AUS-0A07-168		AUS-0A07-169		AUS-0A07-170		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**2 ft**	**CE**	**6 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
FLUORANTHENE	UG/KG																		1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG																		2.2E+04	2.6E+06	5.6E+05	5.6E+05
GAMMA BHC (LINDANE)	UG/KG																		5.0E+00	1.7E+03	9.0E+00	9.0E+00
GAMMA-CHLORDANE	UG/KG																		2.2E+02	1.6E+03	1.0E+04	1.0E+04
HEPTACHLOR	UG/KG																		6.0E+00	3.8E+02	2.3E+04	2.3E+04
HEPTACHLOR EPOXIDE	UG/KG																		1.5E+02	1.9E+02	7.0E+02	7.0E+02
HEXACHLOROBENZENE	UG/KG																		1.0E+06	1.1E+03	2.0E+03	2.0E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG																		9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG					13000	E			14000	E							2.0E+04	2.0E+02	3.1E+04		
ISODRIN	UG/KG																		3.3E+00			
LEAD	MG/KG					12				13								2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG					3000	B			2500	B							1.8E+03				
MANGANESE	MG/KG					360	E			380	E							2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG					0.018				0.025								2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHOXYCHLOR	UG/KG																		2.0E+01	3.1E+05	1.6E+05	1.6E+05
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG	12		6				ND				ND		7.4		18			9.0E+04	7.1E+05		1.7E+04
METHYLENE CHLORIDE	UG/KG	ND		ND				5.7				ND		ND		ND			4.1E+03	2.1E+04	2.0E+01	2.0E+01
NAPHTHALENE	UG/KG																		4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG					9.6				11								1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
OCDD	NG/KG																					
OCDF	NG/KG																					
PCB (TOTAL)	UG/KG																		4.0E+04	7.4E+02		
PCB-1260 (AROCHLOR 1260)	UG/KG																		3.4E+01	7.4E+02		
PHENANTHRENE	UG/KG																		1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG					680				1000	B							6.9E+02				
PYRENE	UG/KG																		7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG					0.39				0.7								3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG					160	B			170	B							8.5E+01				
STYRENE	UG/KG	ND		ND				ND				ND		ND		ND			3.0E+05	4.3E+05	4.0E+03	4.0E+03
TETRACHLOROETHYLENE(PCE)	UG/KG	ND		ND				ND				ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG					ND				ND								5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG	ND		ND				ND				ND		ND		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG	ND		ND				ND				ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TOTAL HpCDDs	NG/KG																					
TOTAL HpCDFs	NG/KG																					
TOTAL HxCDDs	NG/KG																					
TOTAL HxCDFs	NG/KG																					
TOTAL ORGANIC CARBON	MG/KG																					
TOTAL PeCDDs	NG/KG																					
TOTAL PeCDFs	NG/KG																					
TOTAL TCDDs	NG/KG																					
TOTAL TCDFs	NG/KG																					
TRICHLOROETHYLENE (TCE)	UG/KG	ND		ND				ND				ND		ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG					24				25								3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
XYLENES, TOTAL	UG/KG	ND		ND				ND				ND		ND		ND			6.0E+02	9.0E+04	2.1E+05	1.5E+05
ZINC	MG/KG					32				39								4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-24
AUS-0A07 - Detections of Constituents in PA/SI Sediment Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Sediment Samples		AUS-0A07-022		AUS-0A07-024		AUS-0A07-025		AUS-0A07-063		AUS-0A07-064		AUS-0A07-065		AUS-0A07-066		AUS-0A07-067		AUS-0A07-068		AUS-0A07-069		AUS-0A07-079		AUS-0A07-080		AUS-0A07-081		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG					ND																										
ALL EXPLOSIVES	UG/KG					ND																										
ALL PESTICIDES	UG/KG					--		--		ND		ND		ND		--		ND		ND		ND		ND		ND						
cPAH	UG/KG					ND																								2.1E+02		
4,4'-DDD	UG/KG					19	E	39	E	ND		ND		ND		2.9		ND		ND		ND		ND		ND			4.9E+00	1.0E+04	1.6E+04	1.6E+04
4,4'-DDT	UG/KG					ND		48	E	ND		ND		ND		4.7	E	ND		ND		ND		ND		ND			4.2E+00	7.0E+03	3.2E+04	3.2E+04
ALDRIN	UG/KG					14	E	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			2.0E+00	1.0E+02	5.0E+02	5.0E+02
ALUMINUM	MG/KG					8760																						1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG					0.33																						1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG					25.2	B E H																					1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG					85.8																						2.0E+02		6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG					1.3																						1.6E+00		1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG					3.5																								1.8E+04		
CALCIUM	MG/KG					3790	B																					1.4E+03				
CHROMIUM, TOTAL	MG/KG					28.1	B																					1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG					16.4	B																					9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG					14.8																						1.7E+01	3.2E+01	4.1E+03		5.9E+04
IRON	MG/KG					38600	B H																					2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG					33.7	B																					2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG					2530	B																					1.9E+03				
MANGANESE	MG/KG					1180	B E																					1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG					0.036																						1.5E-01	1.8E-01	3.1E+01		8.9E-01
METHOXYCHLOR	UG/KG					ND		ND		ND		ND		ND		14		ND		ND		ND		ND		ND			1.9E+01	3.1E+05	1.6E+05	1.6E+05
NICKEL	MG/KG					13																						1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
PCB (TOTAL)	UG/KG	ND		ND		ND																							6.0E+01	7.4E+02		
POTASSIUM	MG/KG					497																						1.4E+03				
SELENIUM	MG/KG					1.8	B																					6.4E-01		5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG					1090																						1.5E+03				
VANADIUM	MG/KG					65.1	B																					2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG					144	B E																					5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-25
AUS-0A07 - Detections of Constituents in PA/SI Surface Water Samples
(see Figures 5-9A, 5-9B, and 5-9C for Locations)

Surface Water Samples		AUS-0A07-025-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL PESTICIDES	UG/L	--				
ALUMINUM	UG/L	625	B E	2.0E+02	8.7E+01	
BARIUM	UG/L	80.9	B	2.3E+01	5.0E+03	5.0E+03
CALCIUM	UG/L	77100	B	7.2E+03	1.2E+05	
HEXACHLOROBENZENE	UG/L	0.027			3.7E+00	
IRON	UG/L	493	B	1.0E+02	1.0E+03	1.0E+03
MAGNESIUM	UG/L	33500	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	180		5.8E+02	1.0E+03	1.0E+03
POTASSIUM	UG/L	1110		1.6E+03	5.3E+04	
SODIUM	UG/L	34200	B	3.2E+03	6.8E+05	
VANADIUM	UG/L	2.1		5.0E+01	1.9E+01	
ZINC	UG/L	19.3		2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-26
AUS-0A8S - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-10A and 5-10B for Locations)

Soil Samples		AUS-0A8S-004		AUS-0A8S-005				AUS-0A8S-007				AUS-0A8S-008				AUS-0A8S-009				AUS-0A8S-010						AUS-0A8S-013			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG					ND				ND				ND				ND				ND		ND				ND	
ALL SVOC	UG/KG	ND		ND								ND				ND													
ALL EXPLOSIVES	UG/KG	ND		ND				ND				ND				ND				ND				ND		ND			
cPAH	UG/KG	ND		ND								ND				ND													
Mammal TEQ	NG/KG			0.29										0.18															
Bird TEQ	NG/KG			0.11										0.12															
1,2,3,4,6,7,8-HpCDD	NG/KG			11.2										6.28															
1,2,3,4,6,7,8-HpCDF	NG/KG			0.825										ND															
1,2,3,6,7,8-HxCDD	NG/KG			0.8										ND															
1,2,3,7,8,9-HxCDD	NG/KG			ND										ND															
2,3,7,8-TCDD	NG/KG			ND										ND															
2,4-DINITROTOLUENE	UG/KG	ND		ND				ND				ND				ND				ND				ND		ND			
2,6-DINITROTOLUENE	UG/KG	ND		ND				ND				ND				ND				ND				ND		ND			
ALUMINUM	MG/KG	6390	E																										
ANTIMONY	MG/KG	ND																											
ARSENIC	MG/KG	4.5	H																										
BARIUM	MG/KG	65.4																											
BENZO(A)ANTHRACENE	UG/KG	ND		ND								ND				ND													
BENZO(A)PYRENE	UG/KG	ND		ND								ND				ND													
BENZO(B)FLUORANTHENE	UG/KG	ND		ND								ND				ND													
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND								ND				ND													
BENZO(K)FLUORANTHENE	UG/KG	ND		ND								ND				ND													
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND								ND				ND													
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND								ND				ND													
BORON	MG/KG	ND																											
CADMIUM	MG/KG	ND																											
CALCIUM	MG/KG	1080																											
CHROMIUM, TOTAL	MG/KG	9.1	E																										
CHRYSENE	UG/KG	ND		ND								ND				ND													
COBALT	MG/KG	ND																											
COPPER	MG/KG	4.8																											
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND								ND				ND													
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND								ND				ND													
FLUORANTHENE	UG/KG	ND		ND								ND				ND													
IRON	MG/KG	11900	E																										
LEAD	MG/KG	13																											
MAGNESIUM	MG/KG	1340																											
MANGANESE	MG/KG	428	E																										
NICKEL	MG/KG	5.3																											
NITROGEN, AMMONIA (AS N)	MG/KG							18																		7.4			
NITROGEN, NITRATE-NITRITE	MG/KG							35																					
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND								ND				ND													
OCDD	NG/KG			849										1170															
OCDF	NG/KG			ND										ND															
PHENANTHRENE	UG/KG	ND		ND								ND				ND													
POTASSIUM	MG/KG	364																											
PHENOL	UG/KG	ND		ND								ND				ND													
SELENIUM	MG/KG	1																											
SILVER	MG/KG	ND																											
SODIUM	MG/KG	ND																											
THALLIUM	MG/KG	ND																											
TOTAL HpCDDs	NG/KG			25.4										14.1															
TOTAL HpCDFs	NG/KG			1.47										ND															
TOTAL HxCDDs	NG/KG			4.63										ND															
TOTAL HxCDFs	NG/KG			0.332										ND															
TOTAL TCDDs	NG/KG			ND										ND															
TOTAL ORGANIC CARBON	MG/KG																												
TOTAL PeCDDs	NG/KG			ND										ND															
VANADIUM	MG/KG	20.1																											
ZINC	MG/KG	23.5																											

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-26
AUS-0A8S - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-10A and 5-10B for Locations)

Soil Samples		AUS-0A8S-014				AUS-0A8S-015				AUS-0A8S-016				AUS-0A8S-017		AUS-0A8S-018				AUS-0A8S-019				AUS-0A8S-020		AUS-0A8S-021			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**0 - 0.5 ft**		**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND								ND						ND				ND						ND	
ALL SVOC	UG/KG									--				--		--				--				ND		ND			
ALL EXPLOSIVES	UG/KG	ND				ND		ND		ND				--		ND				--				ND		ND			
cPAH	UG/KG									ND				340.754	H	ND				ND				ND		ND			
Mammal TEQ	NG/KG															0.19				0.31									
Bird TEQ	NG/KG															0.11				0.24									
1,2,3,4,6,7,8-HpCDD	NG/KG															8.59				5.08									
1,2,3,4,6,7,8-HpCDF	NG/KG															ND				0.392									
1,2,3,6,7,8-HxCDD	NG/KG															ND				0.186									
1,2,3,7,8,9-HxCDD	NG/KG															ND				0.172									
2,3,7,8-TCDD	NG/KG															ND				0.176									
2,4-DINITROTOLUENE	UG/KG	ND				ND		ND		ND				610	W1 W2	ND				1400	E W1 W2			ND		ND			
2,6-DINITROTOLUENE	UG/KG	ND				ND		ND		ND				ND		ND				100	E W1 W2			ND		ND			
ALUMINUM	MG/KG									4770	E			9910	B E	5480	E			7660	E			6460	E	9780	B E		
ANTIMONY	MG/KG									ND				ND		ND				0.34				ND		ND			
ARSENIC	MG/KG									4	H			4.1	H	6.9	H			6.8	H			4.6	H	7.3	H		
BARIUM	MG/KG									57.5				129		58.5				140				74.3		86.8			
BENZO(A)ANTHRACENE	UG/KG									ND				63		ND				ND				ND		ND			
BENZO(A)PYRENE	UG/KG									ND				72		ND				ND				ND		ND			
BENZO(B)FLUORANTHENE	UG/KG									ND				87		ND				ND				ND		ND			
BENZO(G,H,I)PERYLENE	UG/KG									ND				49		ND				ND				ND		ND			
BENZO(K)FLUORANTHENE	UG/KG									ND				67		ND				ND				ND		ND			
BENZYL BUTYL PHTHALATE	UG/KG									ND				ND		ND				ND				ND		ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG									62				ND		43				120				ND		ND			
BORON	MG/KG									ND				ND		ND				2	E			ND		ND			
CADMIUM	MG/KG									ND				0.3	E	ND				0.34	E			ND		0.17			
CALCIUM	MG/KG									1680				8510	B	2780				20300	B			1180		1480			
CHROMIUM, TOTAL	MG/KG									6.4	E			11.7	E	7	E			12.3	E			9.4	E	13	E		
CHRYSENE	UG/KG									ND				84		ND				ND				ND		ND			
COBALT	MG/KG									ND				ND		ND				19.6	B			ND		8			
COPPER	MG/KG									3.5				8.9		4.2				33.2	B E			5.6		10.2	B		
DI-N-BUTYL PHTHALATE	UG/KG									ND				750	E	ND				2200	E			ND		ND			
DI-N-OCTYLPHTHALATE	UG/KG									ND				ND		ND				ND				ND		ND			
FLUORANTHENE	UG/KG									ND				100		ND				ND				ND		ND			
IRON	MG/KG									7630	E			14400	E	9820	E			15500	E			12700	E	18600	E		
LEAD	MG/KG									9.2				19.2		14				21.4				10.5		14.2			
MAGNESIUM	MG/KG									1290				4570	B	2180	B			4810	B			1480		2140	B		
MANGANESE	MG/KG									612	E			207	E	621	E			419	E			288	E	695	E		
NICKEL	MG/KG									4.1				10.9		4.9				10.8				11.4		11.1			
NITROGEN, AMMONIA (AS N)	MG/KG																												
NITROGEN, NITRATE-NITRITE	MG/KG																												
N-NITROSODIPHENYLAMINE	UG/KG									ND				65		ND				280				ND		ND			
OCDD	NG/KG															996				397									
OCDF	NG/KG															ND				1.25									
PHENANTHRENE	UG/KG									ND				ND		ND				ND				ND		ND			
POTASSIUM	MG/KG									596				653		513				456				377		695	B		
PHENOL	UG/KG									ND				100		ND				ND				ND		ND			
SELENIUM	MG/KG									0.6				ND		1				0.3				ND		0.97			
SILVER	MG/KG									ND				ND		0.22				ND				ND		ND			
SODIUM	MG/KG									ND				ND		ND				ND				ND		ND			
THALLIUM	MG/KG									ND				ND		ND				ND				ND		ND			
TOTAL HpCDDs	NG/KG															20.6				11.1									
TOTAL HpCDFs	NG/KG															ND				1									
TOTAL HxCDDs	NG/KG															ND				0.695									
TOTAL HxCDFs	NG/KG															ND				0.269									
TOTAL TCDDs	NG/KG															ND				0.176									
TOTAL ORGANIC CARBON	MG/KG													44300															
TOTAL PeCDDs	NG/KG															ND				ND									
VANADIUM	MG/KG									14.2				16.4		21.6				17.7				17.2		25.6			
ZINC	MG/KG									17.5				50.5	B	19.6				59.1	B			34.2		39.6			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-26
AUS-0A8S - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-10A and 5-10B for Locations)

Soil Samples		AUS-0A8S-022		AUS-0A8S-025				AUS-0A8S-026				AUS-0A8S-027				AUS-0A8S-028		AUS-0A8S-029				AUS-0A8S-031				AUS-0A8S-W01	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**8 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG					ND				ND				ND						ND		ND		ND			
ALL SVOC	UG/KG	--		--				--				--				ND		--				--		ND			
ALL EXPLOSIVES	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND		ND	
cPAH	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
Mammal TEQ	NG/KG																										
Bird TEQ	NG/KG																										
1,2,3,4,6,7,8-HpCDD	NG/KG																										
1,2,3,4,6,7,8-HpCDF	NG/KG																										
1,2,3,6,7,8-HxCDD	NG/KG																										
1,2,3,7,8,9-HxCDD	NG/KG																										
2,3,7,8-TCDD	NG/KG																										
2,4-DINITROTOLUENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND		ND	
ALUMINUM	MG/KG	8800	E	6610	E			5150	E			4690	E			6080	E	5500	E			8540	E	7490	E		
ANTIMONY	MG/KG			ND				ND				ND				ND		ND						ND			
ARSENIC	MG/KG	3.8	H	5	H			5.9	H			5.3	H			4.6	H	7.4	H			3	H	3.6	H		
BARIUM	MG/KG	93.3		69.2				64.9				62.1				148		70.6				105		303	B		
BENZO(A)ANTHRACENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
BENZO(A)PYRENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
BENZO(B)FLUORANTHENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
BENZO(K)FLUORANTHENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND				290	E			ND				ND		ND				ND		ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		69				570				65				ND		56				65		ND			
BORON	MG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
CADMIUM	MG/KG	0.2		ND				ND				0.05				1.2	B E	ND				ND		ND			
CALCIUM	MG/KG	2600		1850				7320	B			5330	B			30400	B	571				787		1050			
CHROMIUM, TOTAL	MG/KG	11.8	E	9	E			7.3	E			7.3	E			13.2	E	7.5	E			7.9	E	13.6	E		
CHRYSENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
COBALT	MG/KG	ND		5.9				ND				ND				6.8		ND				2.7		ND			
COPPER	MG/KG	8		6.5				4.9				4.7				8.9		5				5.9		7.1			
DI-N-BUTYL PHTHALATE	UG/KG	150		ND				ND				56				ND		ND				ND		ND			
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND				200				ND				ND		ND				ND		ND			
FLUORANTHENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
IRON	MG/KG	14300	E	11700	E			10400	E			10100	E			13200	E	10300	E			10200	E	11300	E		
LEAD	MG/KG	14		11.4				12.7				11				29.4	B	12.4				7.9		7			
MAGNESIUM	MG/KG	2410	B	1490				2720	B			2230	B			7320	B	1520				1340		1590			
MANGANESE	MG/KG	233	E	515	E			574	E			647	E			409	E	164	E			175	E	54.2			
NICKEL	MG/KG	9.9		6.8				5.4				4.9				8.9		3.6				5		6.7			
NITROGEN, AMMONIA (AS N)	MG/KG																										
NITROGEN, NITRATE-NITRITE	MG/KG																										
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
OCDD	NG/KG																										
OCDF	NG/KG																										
PHENANTHRENE	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
POTASSIUM	MG/KG	610		438				415				370				383		319				325		227			
PHENOL	UG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
SELENIUM	MG/KG	0.78		0.27				0.33				0.44				1.1	E	1.3	E			ND		ND			
SILVER	MG/KG	ND		ND				ND				ND				ND		ND				ND		ND			
SODIUM	MG/KG	ND		ND				ND				ND				ND		633	B			ND		ND			
THALLIUM	MG/KG	ND		ND				ND				1.9	B E			0.19		ND				ND		ND			
TOTAL HpCDDs	NG/KG																										
TOTAL HpCDFs	NG/KG																										
TOTAL HxCDDs	NG/KG																										
TOTAL HxCDFs	NG/KG																										
TOTAL TCDDs	NG/KG																										
TOTAL ORGANIC CARBON	MG/KG																										
TOTAL PeCDDs	NG/KG																										
VANADIUM	MG/KG	19.4		18				19.2				18				16.3		25.3				12.4		21.1			
ZINC	MG/KG	41.6	B	25.7				22.6				21.7				37.3		18				19.5		19.3			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-26
AUS-0A8S - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-10A and 5-10B for Locations)

Soil Samples		AUS-0A8S-W01 cont.				AUS-0A8S-W02						AUS-0A8S-W03						AUS-0A8S-W04						AUS-0A8S-W05					
Constituents Detected	**Units**	**5 ft**	**CE**	**18 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**23 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**21 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**19 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**29 ft**	**CE**
ALL VOC	UG/KG	ND		ND				ND		ND				ND		ND				ND		ND				ND		ND	
ALL SVOC	UG/KG					--						--						--						ND					
ALL EXPLOSIVES	UG/KG					ND						ND						ND		ND		ND		ND					
cPAH	UG/KG					ND						ND						ND						ND					
Mammal TEQ	NG/KG											0.1						0.004											
Bird TEQ	NG/KG											0.04						0.002											
1,2,3,4,6,7,8-HpCDD	NG/KG											3.82						0.249											
1,2,3,4,6,7,8-HpCDF	NG/KG											0.23						0.11											
1,2,3,6,7,8-HxCDD	NG/KG											0.224						ND											
1,2,3,7,8,9-HxCDD	NG/KG											ND						ND											
2,3,7,8-TCDD	NG/KG											ND						ND											
2,4-DINITROTOLUENE	UG/KG					ND						ND						ND		ND		ND		ND					
2,6-DINITROTOLUENE	UG/KG					ND						ND						ND		ND		ND		ND					
ALUMINUM	MG/KG					10600	B E					7530	E					7150	E					8410	E				
ANTIMONY	MG/KG					ND												0.34						ND					
ARSENIC	MG/KG					5.5	H					9.3	E H					4.8	H					7.7	H				
BARIUM	MG/KG					43.6						392	B					67.4						91.1					
BENZO(A)ANTHRACENE	UG/KG					ND						ND						ND						ND					
BENZO(A)PYRENE	UG/KG					ND						ND						ND						ND					
BENZO(B)FLUORANTHENE	UG/KG					ND						ND						ND						ND					
BENZO(G,H,I)PERYLENE	UG/KG					ND						ND						ND						ND					
BENZO(K)FLUORANTHENE	UG/KG					ND						ND						ND						ND					
BENZYL BUTYL PHTHALATE	UG/KG					ND						ND						ND						ND					
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					48						ND						ND						ND					
BORON	MG/KG					ND						ND						5.1	B E					ND					
CADMIUM	MG/KG					0.21						0.45	B E					ND						ND					
CALCIUM	MG/KG					45300	B					12200	B					2260						1140					
CHROMIUM, TOTAL	MG/KG					11.3	E					11.4	E					13.2	E					13.2	E				
CHRYSENE	UG/KG					ND						ND						ND						ND					
COBALT	MG/KG					ND						20.4	B E					7.1						7.3					
COPPER	MG/KG					7						6.6						8						10.1	B				
DI-N-BUTYL PHTHALATE	UG/KG					63						45						ND						ND					
DI-N-OCTYLPHTHALATE	UG/KG					ND						ND						ND						ND					
FLUORANTHENE	UG/KG					ND						ND						ND						ND					
IRON	MG/KG					14200	E					14700	E					12500	E					16200	E				
LEAD	MG/KG					7.7						22.7						8.5						25.7					
MAGNESIUM	MG/KG					2360	B					7580	B					1340						1910	B				
MANGANESE	MG/KG					113	E					6940	B E H					488	E					584	E				
NICKEL	MG/KG					6.6						12.5						10.9						11.3					
NITROGEN, AMMONIA (AS N)	MG/KG																												
NITROGEN, NITRATE-NITRITE	MG/KG																												
N-NITROSODIPHENYLAMINE	UG/KG					ND						ND						ND						ND					
OCDD	NG/KG											361						7.57											
OCDF	NG/KG											0.407						ND											
PHENANTHRENE	UG/KG					ND						ND						46						ND					
POTASSIUM	MG/KG					442						438						276						460					
PHENOL	UG/KG					ND						ND						ND						ND					
SELENIUM	MG/KG					ND						3.8	B E					ND						0.77					
SILVER	MG/KG					ND						1.9	B					ND						ND					
SODIUM	MG/KG					ND						ND						ND						ND					
THALLIUM	MG/KG					ND						ND						ND						ND					
TOTAL HpCDDs	NG/KG											8.14						ND											
TOTAL HpCDFs	NG/KG											0.23						ND											
TOTAL HxCDDs	NG/KG											1.25						ND											
TOTAL HxCDFs	NG/KG											0.13						ND											
TOTAL TCDDs	NG/KG											ND						1.72											
TOTAL ORGANIC CARBON	MG/KG																												
TOTAL PeCDDs	NG/KG											ND						0.279											
VANADIUM	MG/KG					18.4						27.7						24.4						24.2					
ZINC	MG/KG					32.4						175	B E					31.8						34					

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-26
AUS-0A8S - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-10A and 5-10B for Locations)

Soil Samples		AUS-0A8S-W06						Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**12 ft**	**CE**	**18 ft**	**CE**	**24 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG	ND		ND		ND						
ALL SVOC	UG/KG	ND		ND		ND						
ALL EXPLOSIVES	UG/KG											
cPAH	UG/KG	ND		ND		ND				2.1E+02		
Mammal TEQ	NG/KG								8.1E-01	1.6E+01		
Bird TEQ	NG/KG								8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG											
1,2,3,4,6,7,8-HpCDF	NG/KG											
1,2,3,6,7,8-HxCDD	NG/KG											
1,2,3,7,8,9-HxCDD	NG/KG											
2,3,7,8-TCDD	NG/KG								8.1E-01	1.6E+01		
2,4-DINITROTOLUENE	UG/KG								1.3E+03	2.5E+03	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG								3.3E+01	2.5E+03	7.0E-01	7.0E-01
ALUMINUM	MG/KG	5280	E	5590	E	5380	E	9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	ND		ND		0.27		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	3.5	H	8.7	H	2.8	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	47.9		270	B	36.6		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND		ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG								2.4E+02	9.3E+05	9.3E+05	9.3E+05
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG								9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		1.6	E	ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		0.33	E	ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	1910		7780	B	38200	B	2.9E+03				
CHROMIUM, TOTAL	MG/KG	8.9	E	10.8	E	10.3	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	5.3		ND		ND		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	8.4		9		11.2	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DI-N-BUTYL PHTHALATE	UG/KG								7.1E+02	2.3E+06	2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	UG/KG								6.1E+05	2.5E+06	1.0E+07	1.0E+07
FLUORANTHENE	UG/KG	ND		ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
IRON	MG/KG	10500	E	12300	E	10400	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	10.8		10.4		7.8		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1170		1780		11500	B	1.8E+03				
MANGANESE	MG/KG	186	E	1900	E	171	E	2.4E+03	1.0E+02	1.9E+03		
NICKEL	MG/KG	7.8		12.9	B	13.3	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
NITROGEN, AMMONIA (AS N)	MG/KG											
NITROGEN, NITRATE-NITRITE	MG/KG									3.3E+05		
N-NITROSODIPHENYLAMINE	UG/KG								2.0E+04	3.5E+05	1.0E+03	1.0E+03
OCDD	NG/KG											
OCDF	NG/KG											
PHENANTHRENE	UG/KG	ND		ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	234		414		771	B	6.9E+02				
PHENOL	UG/KG	ND		ND		ND			4.0E+04	1.8E+07	1.0E+05	1.0E+05
SELENIUM	MG/KG	ND		0.81		ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		0.46		ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND		ND		8.5E+01				
THALLIUM	MG/KG	0.29		ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL HpCDDs	NG/KG											
TOTAL HpCDFs	NG/KG											
TOTAL HxCDDs	NG/KG											
TOTAL HxCDFs	NG/KG											
TOTAL TCDDs	NG/KG											
TOTAL ORGANIC CARBON	MG/KG											
TOTAL PeCDDs	NG/KG											
VANADIUM	MG/KG	24.3		15.2		12		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	16.9		30.3		43	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-27
AUS-0A8S - Detections of Constituents in PA/SI Drum and Sewer Line Samples
(see Figures 5-10A and 5-10B for Locations)

		AUS-0A8S-005-DRUM		AUS-0A8S-030-SL (Sewer Line)		AUS-0A8S-034-SL (Sewer Line)		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG											
ALL SVOC	UG/KG	--		--								
ALL EXPLOSIVES	UG/KG					ND						
cPAH	UG/KG	ND		1636.1	H					2.1E+02		
Mammal TEQ	NG/KG	0.3							8.1E-01	1.6E+01		
Bird TEQ	NG/KG	0.15							8.1E-01	1.6E+01		
1,2,3,6,7,8-HxCDD	NG/KG	3.36										
1,2,3,7,8,9-HxCDD	NG/KG	17										
ALUMINUM	MG/KG			7890	E			9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND		160					1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG			0.28				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG			17.3	B E H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG			162				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		940					3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		1100	H				3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		1400	E				1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		490					1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND		1100					9.0E+04	2.1E+04	4.9E+04	4.9E+04
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	870		ND					9.3E+02	1.2E+05		3.6E+06
CADMIUM	MG/KG			0.39	B E			3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG			3380	B			2.9E+03				
CARBAZOLE	MG/KG	ND		170					1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG			14.8	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		1100					4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG			16.4	B			9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG			16.9	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		240	H				1.8E+04	2.1E+02	2.0E+03	2.0E+03
DI-N-BUTYL PHTHALATE	UG/KG	430							7.1E+02	2.3E+06	2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	UG/KG	160		ND					6.1E+05	2.5E+06	1.0E+07	1.0E+07
FLUORANTHENE	UG/KG	ND		1600					1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		500					9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG			35700	B E H			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG			25.9	B			2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG			2000	B			1.8E+03				
MANGANESE	MG/KG			2380	B E H			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG			0.08				2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG			15.6	B			1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND		810					1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG			600				6.9E+02				
PHENOL	UG/KG	490							4.0E+04	1.8E+07	1.0E+05	1.0E+05
PYRENE	UG/KG	ND		1700					7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG			1.8	E			3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG			0.27				6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
TOTAL HpCDDs	NG/KG	41.6										
TOTAL HpCDFs	NG/KG	6.19										
VANADIUM	MG/KG			36.8	B			3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG			60.2	B			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20

Table 5-28
AUS-0A8S - Detections of Constituents in PA/SI Sediment Samples
(see Figures 5-10A and 5-10B for Locations)

Sediment Samples		AUS-0A8S-001		AUS-0A8S-002		AUS-0A8S-003		AUS-0A8S-006		AUS-0A8S-011		AUS-0A8S-012		AUS-0A8S-023		AUS-0A8S-024		AUS-0A8S-032		AUS-0A8S-033		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	ND		--				ND				--		--		ND		--								
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND						
cPAH	UG/KG	ND		ND				ND				67.71		757.09	H	ND		420.59						2.1E+02		
Mammal TEQ	NG/KG	0.16		0.42				0.77															3.3E+00	1.6E+01		
Bird TEQ	NG/KG	0.09		0.21				0.88															3.3E+00	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG	8.04		10.5				18.1																		
1,2,3,4,6,7,8-HpCDF	NG/KG	ND		0.873				1.33																		
1,2,3,4,7,8-HxCDD	NG/KG	ND		ND				0.454																		
1,2,3,6,7,8-HxCDD	NG/KG	ND		1.32				0.952																		
1,2,3,7,8,9-HxCDD	NG/KG	ND		0.821				0.66																		
1,2,3,7,8-PeCDD	NG/KG	ND		ND				0.241																		
2,3,7,8-TCDF	NG/KG	ND		ND				0.418																		
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		540	E W1 W2	ND			8.6E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG	ND		ND				ND				ND		110	E	ND		3700	E				7.0E+01	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	4800		5190										27900	B E	8550		4630				1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG	ND		ND				ND				ND		ND		ND		140	E				5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND												3.8	B E	0.39		0.99				1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.8	H	4.2	H									63.2	B E H W1 W2	7	H	15	B E H			1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	66.8		100										433	B	129		54.9				2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		ND				ND				ND		170	E	ND		210	E				1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		ND				ND				57		260	E H	ND		120					1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		ND				ND				100	E	340	E	ND		130	E				2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND				ND				ND		300	E	ND		ND					1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND		ND				ND				61	E	280	E	ND		ND					2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND										ND		ND		1.2				1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		75				ND				ND		180		ND		ND					7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND										39.2		3.3		60.5						1.8E+04		
CADMIUM	MG/KG	0.34		ND										5.5	B E W2	ND		ND				1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3580	B	5600	B									26000	B	1860	B	4300	B			1.4E+03				
CARBAZOLE	UG/KG	ND		ND				ND				ND		ND		ND		170					3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	13.7		9										59.7	B E W1 W2	14.2		14.3				1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		ND				ND				100		290	E	ND		190	E				1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	8.1		ND										17.2	B	8.6		4.9				9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	ND		5.7										3330	B E	13.1		12.9				1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	ND		ND				ND				ND		97		ND		1200					2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND				ND				ND		87		ND		ND					1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND		ND				ND				ND		150		ND		170					4.2E+02	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND				ND				ND		180	E	ND		ND					1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	16400		10900										103000	B H	20600		21800	B			2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	11.6		13.2										665	B E H	14.3		19				2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	2370	B	3850	B									11400	B	2380	B	456				1.9E+03				
MANGANESE	MG/KG	1150	B E	229										1180	B E	426		94				1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.12		ND										0.15		ND		0.035				1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND				ND				ND		130		ND		1700	E				1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	8.2		7.3										58.9	B E	14.9		19.7	B			1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
NITROGEN, AMMONIA (AS N)	MG/KG					63.8				11.5												2.2E+02				
NITROGEN, NITRATE-NITRITE	MG/KG					2.8	B			0.53												1.5E+00		3.3E+05		
OCDD	NG/KG	801		928				873																		
OCDF	NG/KG	ND		ND				1.8																		
PHENANTHRENE	UG/KG	ND		ND				ND				ND		140		ND		1400	E				2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	363		291										597		568		483				1.4E+03				
PYRENE	UG/KG	ND		ND				ND				61		340	E	ND		370	E				2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	1.6	B	0.83	B									2.9	B	ND		3	B			6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.34		ND										1.9	E	ND		ND				3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND										ND		ND		152				1.5E+03				
THALLIUM	MG/KG	ND		ND										ND		ND		0.72	B			3.1E-01		6.7E+00		2.6E+00
TOTAL HpCDDs	NG/KG	18.7		24.4				40.4																		
TOTAL HpCDFs	NG/KG	ND		0.873				1.54																		
TOTAL HxCDDs	NG/KG	ND		7.91				5.77																		
TOTAL HxCDFs	NG/KG	ND		0.546				1.24																		
TOTAL ORGANIC CARBON	MG/KG			23800																						
TOTAL PeCDDs	NG/KG	ND		0.784				1.22																		
TOTAL PeCDFs	NG/KG	ND		0.732				1.03																		
TOTAL TCDFs	NG/KG	ND		ND				0.449																		
VANADIUM	MG/KG	25		20.9										18.3		21.6		70.1	B			2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	176	B E	26										1800	B E	46.7		49.6				5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-29
AUS-0A8S - Detections of Constituents in PA/SI Surface Water Samples
(see Figures 5-10A and 5-10B for Locations)

Surface Water Samples		AUS-0A8S-002-SW		AUS-0A8S-023-SW		AUS-0A8S-024-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	ND		ND		ND				
ALL SVOC	UG/L	--		ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND		ND				
ALUMINUM	UG/L	437	B E	ND		1300	B E	2.0E+02	8.7E+01	
BARIUM	UG/L	54.7	B	31.5	B	51.5	B	2.3E+01	5.0E+03	5.0E+03
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	3.1	E	ND		ND			3.0E+00	
CALCIUM	UG/L	114000	B	12800	B	11900	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	ND		ND		2.2		1.0E+01	2.1E+02	
COBALT	UG/L	ND		ND		3.9	E	5.0E+01	2.3E+00	
COPPER	UG/L	ND		21.4	B E	4.4		1.0E+01	1.2E+01	
IRON	UG/L	312	B	1190	B E H	5290	B E H	1.0E+02	1.0E+03	1.0E+03
MAGNESIUM	UG/L	68300	B	5380	B	6410	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	80.8		180		461		5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	ND		0.1	H	ND		2.0E-01	1.3E+00	1.2E-02
POTASSIUM	UG/L	1710	B	ND		ND		1.6E+03	5.3E+04	
SELENIUM	UG/L	ND		ND		4.4	B	2.7E+00	1.0E+03	1.0E+03
SODIUM	UG/L	98500	B	ND		4510	B	3.2E+03	6.8E+05	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-30
AUS-0A8S - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-10A and 5-10B for Locations)

Groundwater Samples		AUS-0A8S-W01-GW		AUS-0A8S-W02-GW		AUS-0A8S-W03-GW		AUS-0A8S-W04-GW		AUS-0A8S-W05-GW		AUS-0A8S-W06-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		ND		ND		ND		--		ND		
ALL SVOC	UG/L	ND		ND		ND		ND		ND		ND		
ALL EXPLOSIVES	UG/L	ND		ND		--		ND		ND				
2-AMINO-4,6-DINITROTOLUENE	UG/L	ND		ND		1.4		ND		ND				5.6E+00
4-AMINO-2,6-DINITROTOLUENE	UG/L	ND		ND		1.2		ND		ND				5.6E+00
ALKALINITY, TOTAL (AS CACO3)	MG/L	668												
ALUMINUM	UG/L			ND		209		180		412		769		3.5E+03
BARIUM	UG/L			ND		ND		73.4		ND		21.5		2.0E+03
BORON	UG/L			ND		ND		96.4		ND		36.8		2.0E+03
CALCIUM	UG/L			344000		196000		84200		76600		146000		
CHLOROMETHANE	UG/L	ND		ND		ND		ND		0.6		ND		
COPPER	UG/L			ND		ND		ND		ND		1.4		6.5E+02
IRON	UG/L			ND		259		202		506		879		5.0E+03
MAGNESIUM	UG/L			165000		139000		48400		38100		96800		
MANGANESE	UG/L			ND		227	C1	9.5		259	C1	161	C1	1.5E+02
NICKEL	UG/L			ND		ND		ND		ND		2.1		1.0E+02
NITROGEN, AMMONIA (AS N)	MG/L	0.1												
POTASSIUM	UG/L			1230		1320		ND		ND		ND		
SELENIUM	UG/L			6		12.7		ND		5.1		ND		5.0E+01
SODIUM	UG/L			87900		149000		25800		57400		190000		
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L	13												
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	6530												
VANADIUM	UG/L			ND		ND		ND		ND		3.3		4.9E+01

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-31
AUS-0A09 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-11 for Locations)

Soil Samples		AUS-0A09-001				AUS-0A09-002				AUS-0A09-003				AUS-0A09-005				AUS-0A09-006				AUS-0A09-007				AUS-0A09-008					
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND				ND				ND				ND			
ALL SVOC	UG/KG	ND				ND								--				--				ND				--				ND	
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND	
cPAH	UG/KG	ND				ND								ND				ND				ND				ND					
2,4-DINITROTOLUENE	UG/KG	ND				ND				ND				ND				ND				ND				ND				ND	
2-METHYLNAPHTHALENE	UG/KG	ND				ND								ND				ND				ND				ND					
ALUMINUM	MG/KG	7050	E			5260	E			5620	E			4870	E			12000	B E			6110	E			6120	E				
ANTIMONY	MG/KG	ND				ND				3.7	B			ND				0.56	B			ND				ND					
ARSENIC	MG/KG	8.6	H			4	H			4.3	H			11.3	E H			15	B E H			5	H			6.6	H				
BARIUM	MG/KG	109				51.2				62.6				66.2				90.9				62.7				106					
BENZYL BUTYL PHTHALATE	UG/KG	ND				ND								2000	E			1400	E			ND				ND					
BERYLLIUM	MG/KG	ND				ND				ND				0.36				0.37				ND				ND					
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND								1600	E			260				ND				ND					
BORON	MG/KG	ND				1.6	E			2.4	E			ND				ND				ND				18.1	B E				
CADMIUM	MG/KG	ND				0.22				0.48	B E			2.3	B E			1.2	B E			ND				ND					
CALCIUM	MG/KG	3290	B			7220	B			44700	B			56200	B			5780	B			12900	B			1420					
CHROMIUM, TOTAL	MG/KG	13.2	E			7.6	E			9	E			10.8	E			15.8	B E			7.9	E			14	B E				
COBALT	MG/KG	ND				ND				ND				ND				ND				ND				4.9					
COPPER	MG/KG	9				6.6				24.1	B			18.4	B			51.6	B E			7.6				9					
DIBENZOFURAN	UG/KG	ND				ND								ND				ND				ND				ND					
DIMETHYL PHTHALATE	UG/KG	ND				ND								ND				ND				ND				190					
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND								ND				58				ND				92					
IRON	MG/KG	14900	E			10500	E			9750	E			10100	E			10700	E			9950	E			13000	E				
LEAD	MG/KG	13.7				9				18.4				103	B			46.8	B			11.2				13.4					
MAGNESIUM	MG/KG	1550				1360				6270	B			6470	B			1690				1510				1260					
MANGANESE	MG/KG	732	E			501	E			239	E			489	E			659	E			140	E			1280	E				
MERCURY	MG/KG	ND				ND				0.094				0.27	E			0.54	B E			ND				ND					
NICKEL	MG/KG	7.8				4.8				7.9				6.5				11.2				4.9				6.8					
PHENANTHRENE	UG/KG	ND				ND								ND				ND				ND				ND					
POTASSIUM	MG/KG	478				270				424				488				460				330				364					
SELENIUM	MG/KG	1				ND				ND				ND				1.3	E			ND				1.5	E				
SILVER	MG/KG	ND				ND				ND				1.5	B			59.4	B E W1 W2			ND				ND					
SODIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND					
TOTAL ORGANIC CARBON	MG/KG					12700																				16700					
VANADIUM	MG/KG	22.9				12.8				12.1				17				17.6				13.7				19.2					
ZINC	MG/KG	47.9	B			27.8				253	B E			175	B E			806	B E			23.9				37.4					

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-31
AUS-0A09 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-11 for Locations)

Soil Samples		AUS-0A09-009				AUS-0A09-010				AUS-0A09-011				AUS-0A09-012				AUS-0A09-013				AUS-0A09-014				AUS-0A09-015			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND				ND				ND				ND	
ALL SVOC	UG/KG	--				ND																							
ALL EXPLOSIVES	UG/KG	ND				ND				ND				--				ND				ND				--			
cPAH	UG/KG	ND				ND																							
2,4-DINITROTOLUENE	UG/KG	ND				ND				ND				2100	E W1 W2			ND				ND				860	W1 W2		
2-METHYLNAPHTHALENE	UG/KG	ND				ND																							
ALUMINUM	MG/KG	5760	E			7120	E			7890	E			4660	E			5030	E			8310	E			11300	B E		
ANTIMONY	MG/KG	ND				ND				ND				ND				ND				ND				ND			
ARSENIC	MG/KG	4.4	H			10.1	E H			8.5	H			25.2	B E H			8.4	H			5.2	H			10.7	E H		
BARIUM	MG/KG	121				72.5				57.1				115				76.8				74.2				146			
BENZYL BUTYL PHTHALATE	UG/KG	210				ND																							
BERYLLIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	50				ND																							
BORON	MG/KG	5	B E			ND				1.7	E			3.5	E			2	E			ND				ND			
CADMIUM	MG/KG	ND				ND				2.1	B E			1.4	B E			ND				ND				3.8	B E		
CALCIUM	MG/KG	1330				2350				1760				62300	B			31400	B			14100	B			8770	B		
CHROMIUM, TOTAL	MG/KG	12.3	E			10.1	E			12.7	E			9.1	E			8.3	E			11.4	E			25.8	B E		
COBALT	MG/KG	ND				ND				ND				8.9				4.6				ND				ND			
COPPER	MG/KG	8.5				9.4				71.1	B E			37.9	B E			8.9				10.1	B			296	B E		
DIBENZOFURAN	UG/KG	ND				ND																							
DIMETHYL PHTHALATE	UG/KG	ND				ND																							
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND																							
IRON	MG/KG	10100	E			15500	E			14600	E			11400	E			11900	E			14000	E			13000	E		
LEAD	MG/KG	12.9				14.7				29.6	B			28.4	B			22.8				15.6				45.3	B		
MAGNESIUM	MG/KG	1250				1340				1410				3410	B			1720				2780	B			2170	B		
MANGANESE	MG/KG	878	E			1360	E			322	E			2470	B E H			851	E			291	E			130	E		
MERCURY	MG/KG	ND				ND				ND				0.12				0.08				ND				0.41	B E		
NICKEL	MG/KG	7.1				6.5				5.2				9.6				8				9.9				11.4			
PHENANTHRENE	UG/KG	ND				ND																							
POTASSIUM	MG/KG	362				341				316				400				331				593				520			
SELENIUM	MG/KG	ND				1.2	E			ND				ND				ND				0.66				1.4	E		
SILVER	MG/KG	ND				ND				0.91	B			ND				ND				ND				ND			
SODIUM	MG/KG	ND				ND				ND				ND				ND				ND				ND			
TOTAL ORGANIC CARBON	MG/KG																												
VANADIUM	MG/KG	14.8				22.4				24.6				17.5				21.2				22.2				16.9			
ZINC	MG/KG	43.8	B			28.8				66.5	B			131	B E			38.8				44.2	B			1330	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-31
AUS-0A09 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-11 for Locations)

Soil Samples		AUS-0A09-016				AUS-0A09-017				AUS-0A09-018				AUS-0A09-019				AUS-0A09-020				AUS-0A09-021		AUS-0A09-W01						Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**22.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND				ND				ND				ND				ND		ND				ND		ND						
ALL SVOC	UG/KG									ND				--				--						--		ND								
ALL EXPLOSIVES	UG/KG	ND								ND				ND				ND						ND		ND								
cPAH	UG/KG									ND				ND				ND						ND								2.1E+02		
2,4-DINITROTOLUENE	UG/KG	ND								ND				ND				ND						ND		ND					1.3E+03	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG									ND				ND				52						ND							4.6E+04	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	5080	E			14300	B E			13800	B E			14500	B E			9850	B E					5270	E					9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	ND				0.24				ND				ND				0.56	B					ND						4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	3.7	H			8.3	H			5	H			6.3	H			5.7	H					5.2	H					1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	71.5				173				87.7				75				75.9						191						2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZYL BUTYL PHTHALATE	UG/KG									ND				ND				ND						ND							2.4E+02	9.3E+05	9.3E+05	9.3E+05
BERYLLIUM	MG/KG	ND				0.45				0.38				0.54	B			0.27						ND						4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG									ND				110				ND						89							9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND				ND				3	E			3.1	E			1.9	E					ND						4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	0.36	B E			ND				ND				ND				ND						ND						3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	14000	B			7710	B			15900	B			13200	B			78000	B					2210						2.9E+03				
CHROMIUM, TOTAL	MG/KG	8.1	E			19.1	B E			18.2	B E			18.1	B E			14	B E					54.1	B E W1 W2					1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	ND				6.2				5.3				4.2				4.1						5.8						9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	9.2				15.5	B			12.9	B			13.5	B			10.9	B					5.4						9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG									ND				ND				90						ND							2.5E+04	1.6E+05		1.5E+04
DIMETHYL PHTHALATE	UG/KG									ND				200				ND						ND							2.0E+05	1.3E+06		3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG									ND				ND				ND						ND							7.1E+02	2.3E+06	2.3E+06	2.3E+06
IRON	MG/KG	8960	E			19900	B E			16200	E			15900	E			12300	E					9960	E					2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	14.2				17.9				18.6				22.8				60.2	B					16.7						2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2370	B			3190	B			4110	B			6090	B			23700	B					815						1.8E+03				
MANGANESE	MG/KG	179	E			593	E			198	E			202	E			501	E					1570	E					2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND				0.017				0.019				0.034				0.029						0.06						2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	8.9				14.5	B			12.4				13	B			11.2						4.6						1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG									ND				ND				93						ND							1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	715	B			969	B			1150	B			783	B			669						230						6.9E+02				
SELENIUM	MG/KG	0.61				ND				0.42				0.95				ND						2.2	E					3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND				ND				ND				ND				ND						3	B E					6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND				81.6				79.7				48				96.3	B					ND						8.5E+01				
TOTAL ORGANIC CARBON	MG/KG																																	
VANADIUM	MG/KG	13.6				32.8	B			25.5				31.7	B			19.8						19.9						3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	147	B E			198	B E			89.4	B			62.9	B			63.4	B					21.7						4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-32
AUS-0A09 - Detections of Constituents in PA/SI Sewer Line Samples
(see Figure 5-11 for Locations)

Sewer Line Samples		AUS-0A09-004-SL (Sewer Lines)		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG							
ALL SVOC	UG/KG							
ALL METALS	MG/KG							
ALL EXPLOSIVES	UG/KG	ND						

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-33
AUS-0A09 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-11 for Locations)

Sediment Samples		AUS-0A09-021		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--						
ALL EXPLOSIVES	UG/KG	--						
cPAH	UG/KG	604.83	H			2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	2100	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	1300	W2			1.2E+04		3.1E+01
4-NITROTOLUENE	UG/KG	760			1.9E+04	3.0E+04		9.2E+02
ACENAPHTHYLENE	UG/KG	82	E		4.4E+01	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	5760		1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG	130	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07
ARSENIC	MG/KG	5.2	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	38.2		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	290	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	320	E H		1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	330	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	200	E		1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	340	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.32		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	9.4				1.8E+04		
CALCIUM	MG/KG	157000	B	1.4E+03				
CARBAZOLE	UG/KG	78			3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	9.9		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	430	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	2.8		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	7.6		1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	760			2.0E+03	1.6E+05		1.5E+04
FLUORANTHENE	UG/KG	380			4.2E+02	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	850	E		1.0E+01	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	140	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	9550		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	63.9	B E	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	19700	B	1.9E+03				
MANGANESE	MG/KG	298		1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.074		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	1000	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	7.2		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	1100	E		2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1040		1.4E+03				
PYRENE	UG/KG	440	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06
SODIUM	MG/KG	189		1.5E+03				
VANADIUM	MG/KG	14.3		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	70.3	B	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-34
AUS-0A09 - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-11 for Locations)

Groundwater Samples		AUS-0A09-W01-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	--		
ALL SVOC	UG/L	--		
ALL EXPLOSIVES	UG/L	ND		
1,4-DICHLOROBENZENE	UG/L	1.4		7.5E+01
BARIUM	UG/L	11.3		2.0E+03
CALCIUM	UG/L	243000		
CHROMIUM, TOTAL	UG/L	3.2		1.0E+02
CIS-1,2-DICHLOROETHYLENE	UG/L	3		7.0E+01
MAGNESIUM	UG/L	192000		
MANGANESE	UG/L	22		1.5E+02
NICKEL	UG/L	2.8		1.0E+02
NITROGEN, NITRATE-NITRITE	MG/L	0.058		1.0E+01
SODIUM	UG/L	572000		
TRICHLOROETHYLENE (TCE)	UG/L	11	C1	5.0E+00

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-35
AUS-0A10 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-12 for Locations)

Soil Samples		AUS-0A10-001								AUS-0A10-002								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**6 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**7 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			--		ND						--		--								
ALL SVOC	UG/KG	--						--		--						ND						
ALL EXPLOSIVES	UG/KG	ND						ND		ND						ND						
cPAH	UG/KG	ND						ND		ND						ND				2.1E+02		
Mammal TEQ	NG/KG							0.006								0.025			8.1E-01	1.6E+01		
Bird TEQ	NG/KG							0.002								0.023			8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG							0.429								0.494						
1,2,3,7,8,9-HxCDD	NG/KG							ND								0.131						
1,2,3,7,8-PeCDF	NG/KG							ND								0.0593						
2-METHYLNAPHTHALENE	UG/KG	1400						590		58						ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHENE	UG/KG	97						ND		ND						ND			8.3E+03	2.9E+06	5.7E+05	5.7E+05
ALUMINUM	MG/KG	6810	E					7570	E	8630	E					9210	B E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	190						ND		ND						ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND						ND		ND						ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	5.9	H					3.4	H	8.4	H					5.1	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	14100	B E H W1 W2					21.3		1780	B E W1 W2					145		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	150						ND		680						ND			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	513	B E					ND		192	B E					ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	0.33	E					0.09		1.9	B E					0.08		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	1230						1260		10200	B					1320		2.9E+03				
CARBAZOLE	UG/KG	62						ND		ND						ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHLOROFORM	UG/KG			ND		ND						ND		2					1.2E+03	4.7E+02	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	31.4	B E					14.6	B E	30.6	B E					16.2	B E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	11	B					4.1		8.5						13.2	B	9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	107	B E					8.3		517	B E					9.1		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	100						ND		ND						ND			2.5E+04	1.6E+05		1.5E+04
FLUORANTHENE	UG/KG	75						ND		ND						ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	310						47		ND						ND			2.2E+04	2.6E+06	5.6E+05	5.6E+05
IRON	MG/KG	14500	E					14100	E	17900	E					18900	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	18.6						6.4		67	B					10.2		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	51900	B					2050	B	17500	B					2010	B	1.8E+03				
MANGANESE	MG/KG	866	E					258	E	1110	E					821	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.07						ND		ND						0.21	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	250						110		ND						ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	81	B E					23	B	18.1	B					19.5	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
OCDD	NG/KG							17.3								35.3						
PHENANTHRENE	UG/KG	2700						170		74						ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	580						376		722	B					376		6.9E+02				
PYRENE	UG/KG	370						ND		ND						ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	1.2	E					0.58		1.7	E					ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	39.5	B E W1 W2					ND		8.8	B E W2					ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	1070	B					766	B	1050	B					ND		8.5E+01				
TOLUENE	UG/KG			6		ND						ND		4					3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL HpCDDs	NG/KG							0.631								1.45						
TOTAL HxCDDs	NG/KG							0.813								0.374						
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND						32		230	H W1 W2				9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	20.9						22.2		24.9						28.3		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
XYLENES, TOTAL	UG/KG			ND		ND						ND		2					6.0E+02	9.0E+04	2.1E+05	1.5E+05
ZINC	MG/KG	114	B					31.2		362	B E					32		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-36
AUS-0A10 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-12 for Locations)

Sediment Samples		AUS-0A10-003		AUS-0A10-004		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	ND		ND						
ALL EXPLOSIVES	UG/KG			ND						
cPAH	UG/KG	ND		ND				2.1E+02		
ALUMINUM	MG/KG	10500		8060		1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	0.36		ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	5.8	H	6.9	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	123		113		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BORON	MG/KG	3.7		2.5				1.8E+04		
CALCIUM	MG/KG	856		1290		1.4E+03				
CHROMIUM, TOTAL	MG/KG	15.5		12.4		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	6.5		7		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	15.7		13.1		1.7E+01	3.2E+01	4.1E+03		5.9E+04
IRON	MG/KG	19800		18600		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	20		16.9		2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1890		1790		1.9E+03				
MANGANESE	MG/KG	404		467		1.0E+03	6.3E+02	1.9E+03		
NICKEL	MG/KG	13.5		11.4		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	616		591		1.4E+03				
THALLIUM	MG/KG	0.25		ND		3.1E-01		6.7E+00		2.6E+00
VANADIUM	MG/KG	27.5		24		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	54.8		122	B E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-37
AUS-0A10 - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-12 for Locations)

Surface Water Samples		AUS-0A10-004-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL SVOC	UG/L	ND				
ALL EXPLOSIVES	UG/L	ND				
ALUMINUM	UG/L	13300	B E	2.0E+02	8.7E+01	
BARIUM	UG/L	178	B	2.3E+01	5.0E+03	5.0E+03
BORON	UG/L	26			1.0E+03	1.0E+03
CALCIUM	UG/L	8220	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	14.8	B	1.0E+01	2.1E+02	
IRON	UG/L	13100	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	10.8	B	2.0E+00	2.0E+01	
MAGNESIUM	UG/L	5580	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	397		5.8E+02	1.0E+03	1.0E+03
POTASSIUM	UG/L	3020	B	1.6E+03	5.3E+04	
VANADIUM	UG/L	21.7	E	5.0E+01	1.9E+01	
ZINC	UG/L	328	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-38
AUS-A11A- Detections of Constituents in PA/SI Soil Samples
(see Figure 5-14 for Locations)

Soil Samples		AUS-A11A-009		AUS-A11A-012		AUS-A11A-013-SL		AUS-A11A-015		AUS-A11A-018				AUS-A11A-019		AUS-A11A-020				AUS-A11A-025				AUS-A11A-027			
Constituents Detected	**Units**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG	ND										ND										ND				ND	
ALL SVOC	UG/KG					--				--										--				ND			
ALL EXPLOSIVES	UG/KG							ND		ND				ND		ND		ND		ND				ND			
cPAH	UG/KG					508.266	H			ND										ND				ND			
2-METHYLNAPHTHALENE	UG/KG					ND				ND										670				ND			
ALUMINUM	MG/KG			7470	E	7480	E	8000	E	10300	B E			7090	E	8290	E	11800	B E	14900	B E			7480	E		
ANTHRACENE	UG/KG					ND				ND										ND				ND			
ANTIMONY	MG/KG			ND		0.36		ND		ND				ND		0.62	B	0.29		0.23				ND			
ARSENIC	MG/KG			8.9	H	9.9	E H	5.9	H	7.2	H			8.4	H	9.9	E H	8.5	H	8	H			8.8	H		
BARIUM	MG/KG			109		59.7		117		93.1				83.2		120		182		118				229			
BENZO(A)ANTHRACENE	UG/KG					ND				ND										ND				ND			
BENZO(A)PYRENE	UG/KG					ND				ND										ND				ND			
BENZO(B)FLUORANTHENE	UG/KG					ND				ND										ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG					ND				ND										ND				ND			
BENZO(K)FLUORANTHENE	UG/KG					ND				ND										ND				ND			
BENZYL BUTYL PHTHALATE	UG/KG					ND				ND										ND				ND			
BERYLLIUM	MG/KG			ND		ND		ND		ND				ND		ND		ND		0.43				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					ND				74										ND				ND			
BORON	MG/KG			ND		ND		9.5	B E	1.8	E			3.2	E	ND		ND		2.3	E			ND			
CADMIUM	MG/KG			ND		0.16		0.46	B E	0.37	B E			0.4	B E	1.1	B E	0.24		ND				ND			
CALCIUM	MG/KG			2300		83200	B	17000	B	4220	B			20900	B	3670	B	3220	B	18200	B			15400	B		
CARBAZOLE	UG/KG					ND				ND										ND				ND			
CHROMIUM, TOTAL	MG/KG			11.1	E	11.4	E	13.9	B E	14.9	B E			10.4	E	68.1	B E W1 W2	38.8	B E W1	18.7	B E			15	B E		
CHRYSENE	UG/KG					66				ND										ND				ND			
COBALT	MG/KG			6.2		ND		ND		ND				ND		7.5		9.3		6.6				6.2			
COPPER	MG/KG			7.2		9		10.8	B	10.6	B			5.9		14.5	B	15.4	B	14.3	B			11.7	B		
DIBENZ(A,H)ANTHRACENE	UG/KG					66				ND										ND				ND			
DIBENZOFURAN	UG/KG					ND				ND										130				ND			
DI-N-BUTYL PHTHALATE	UG/KG					310				ND										ND				ND			
FLUORANTHENE	UG/KG					76				ND										ND				ND			
IRON	MG/KG			17600	E	17900	E	15600	E	18300	E			15700	E	19200	E	12300	E	19900	B E			16900	E		
LEAD	MG/KG			22.8		20.9		21.4		12.1				18.2		57.2	B	18.1		16.2				14.9			
MAGNESIUM	MG/KG			1440		5130	B	6910	B	2310	B			12600	B	2580	B	2630	B	3280	B			5250	B		
MANGANESE	MG/KG			1250	E	628	E	287	E	267	E			1030	E	468	E	335	E	419	E			1440	E		
MERCURY	MG/KG			ND		0.08		ND		ND				ND		ND		ND		0.029				ND			
NAPHTHALENE	UG/KG					ND				ND										420				ND			
NICKEL	MG/KG			8.3		9.3		13.5	B	8.8				6.8		16.5	B	17.4	B	14.7	B			15.3	B		
PHENANTHRENE	UG/KG					100				ND										170				ND			
POTASSIUM	MG/KG			704	B	516		826	B	787	B			616		544		664		756	B			394			
PYRENE	UG/KG					100				ND										ND				ND			
SELENIUM	MG/KG			1.8	E	ND		0.77		ND				0.51		1		ND		ND				ND			
SILVER	MG/KG			0.33		ND		ND		0.38				0.35		ND		ND		ND				0.22			
SODIUM	MG/KG			ND		ND		ND		ND				ND		ND		ND		73.4				ND			
THALLIUM	MG/KG			ND		ND		ND		ND				ND		ND		ND		ND				ND			
VANADIUM	MG/KG			28.4		26.8		20.8		22.8				24.8		27.9		26		29.6				22.9			
ZINC	MG/KG			39.7		198	B E	54.5	B	44.8	B			29.2		362	B E	153	B E	108	B			60.7	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-38
AUS-A11A- Detections of Constituents in PA/SI Soil Samples
(see Figure 5-14 for Locations)

Soil Samples		AUS-A11A-030		AUS-A11A-036		AUS-A11A-037		AUS-A11A-W01								AUS-A11A-W02								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**20 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**19 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND		ND				ND		ND		ND				ND		ND		ND						
ALL SVOC	UG/KG							ND				ND		ND		ND				--		ND						
ALL EXPLOSIVES	UG/KG							ND				ND		ND		ND				ND		ND						
cPAH	UG/KG							ND				ND		ND		ND				ND		ND				2.1E+02		
2-METHYLNAPHTHALENE	UG/KG							ND				ND		ND		ND				ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	7510	E					4730	E			10500	B E	8960	E	7900	E			5810	E	7410	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG							ND				ND		ND		ND				ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.87	B					ND				ND		ND		ND				ND		ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	5.9	H					6.4	H			5	H	6.3	H	7.2	H			4.2	H	3.5	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	66.4						64.4				41.3		101		96.9				54.4		59		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG							ND				ND		ND		ND				ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG							ND				ND		ND		ND				ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG							ND				ND		ND		ND				ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG							ND				ND		ND		ND				ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG							ND				ND		ND		ND				ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG							ND				ND		ND		ND				ND		ND			2.4E+02	9.3E+05	9.3E+05	9.3E+05
BERYLLIUM	MG/KG	ND						ND				ND		ND		ND				ND		ND		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG															ND				64		ND			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND						ND				ND		ND		ND				ND		ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND						ND				ND		ND		ND				ND		ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	8280	B					364				350		3530	B	10600	B			728		1800		2.9E+03				
CARBAZOLE	UG/KG							ND				ND		ND		ND				ND		ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	79.2	E W1 W2					8.8	E			11.3	E	15.6	B E	10.9	E			11.3	E	13	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG															ND				ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	4.8						ND				ND		ND		ND				ND		6		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	12.6	B					ND				9.3		14.8	B	10.5	B			7.6		9.1		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG															ND				ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG															ND				ND		ND			2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG															ND				ND		ND			7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG															ND				ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
IRON	MG/KG	15200	E					11400	E			13600	E	23500	B E	14800	E			13600	E	15500	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	16.7						14				10		7.8		13.3				8.3		8.7		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	4120	B					826				2410	B	4270	B	2000	B			890		1960	B	1.8E+03				
MANGANESE	MG/KG	370	E					1140	E			84.4		236	E	423	E			431	E	622	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND						0.07				ND		0.08		0.09				ND		ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG							ND				ND		ND		ND				ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	8.5						ND				6.1		19.1	B	8.8				8.6		15.5	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG							ND				ND		ND		ND				ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	430						210				438		671		517				181		446		6.9E+02				
PYRENE	UG/KG															ND				ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	1.2	E					1.4	E			0.23		0.29		ND				ND		ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.23						0.28				ND		ND		ND				0.33		0.41		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND						ND				770	B	881	B	ND				ND		ND		8.5E+01				
THALLIUM	MG/KG	ND						ND				0.31		ND		ND				ND		0.15		5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	21.9						20.8				15.7		20.3		20.4				21.1		15.7		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	82.3	B					17.7				31.7		56.3	B	45.6	B			28.7		38.3		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-39
AUS-A11A- Detections of Constituents in PA/SI Sewer Line Samples
(see Figure 5-14 for Locations)

Sewer Line Samples		Soil Bkg 95UTL	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	Units	B	E	H	W1	W2

All samples have been incorporated into Table 5-38 Soil Samples.

Table 5-40
AUS-A11A - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-14 for Locations)

Sediment Samples		AUS-A11A-001		AUS-A11A-005		AUS-A11A-006		AUS-A11A-007		AUS-A11A-008		AUS-A11A-009		AUS-A11A-010		AUS-A11A-011		AUS-A11A-014		AUS-A11A-016		AUS-A11A-017	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG			--																			
ALL SVOC	UG/KG	ND		ND		--		ND		--		--										ND	
ALL EXPLOSIVES	UG/KG	ND		ND		--		ND		ND		ND		ND						ND		ND	
cPAH	UG/KG	ND		ND		562.559		ND		ND		108.056										ND	
2,4-DINITROTOLUENE	UG/KG	ND		ND		63	W1 W2	ND		ND		ND		ND						ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND		ND		ND		ND		ND		130	E									ND	
4-METHYLPHENOL (P-CRESOL)	UG/KG			ND		53		ND		ND												ND	
ACENAPHTHENE	UG/KG	ND		ND		ND		ND		ND		ND										ND	
ACETONE	UG/KG			35																			
ALUMINUM	MG/KG	8830		6700		5330		8870		14600	B	8670		10300		6850		7730		7460		7190	
ANTHRACENE	UG/KG	ND		ND		ND		ND		ND		ND										ND	
ANTIMONY	MG/KG	ND				ND		ND		ND		ND		ND		ND		ND		ND		ND	
ARSENIC	MG/KG	9.2	H	6.2	H	6.3	H	7.2	H	53.5	B E H W1 W2	25.7	B E H	16.1	B E H	5.1	H	6.9	H	6	H	3.4	H
BARIUM	MG/KG	161		91.6		112		81.3		496	B	154		119		184		139		58.3		72	
BENZO(A)ANTHRACENE	UG/KG	ND		ND		ND		ND		ND		39										ND	
BENZO(A)PYRENE	UG/KG	ND		ND		ND		ND		ND		76										ND	
BENZO(B)FLUORANTHENE	UG/KG	ND		ND		100	E	ND		ND		95	E									ND	
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND		ND		ND		ND		51	E									ND	
BENZO(K)FLUORANTHENE	UG/KG	ND		ND		ND		ND		ND		36	E									ND	
BERYLLIUM	MG/KG	ND		ND		ND		ND		2.5	B	1.7	B	0.64		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG			ND		55		ND		ND												ND	
BORON	MG/KG	4		ND		ND		2.8		ND		ND		ND		ND		ND		ND		ND	
CADMIUM	MG/KG	0.49		ND		0.11		0.36		0.66		0.06		ND		0.26		ND		ND		ND	
CALCIUM	MG/KG	2160	B	2140	B	3630	B	6380	B	4990	B	3960	B	2550	B	3990	B	12700	B	5000	B	2960	B
CARBAZOLE	UG/KG			ND		ND		ND		ND												ND	
CHROMIUM, TOTAL	MG/KG	13.6		9.1		7.8		12.9		40.5	B W1 W2	19.2	B	16.5		18	B	12.9		9.5		8.3	
CHRYSENE	UG/KG	ND		ND		59		ND		ND		96										ND	
COBALT	MG/KG	20.5	B	5.7		11.3	B	ND		61.4	B E	34.3	B	12.1	B	7		7.5		ND		ND	
COPPER	MG/KG	6.6		8.2		6.9		8.4		24.4	B	14.9		15.2		16		15.1		8.2		6.3	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		ND		ND		ND		15										ND	
DIBENZOFURAN	UG/KG			ND		ND		ND		ND												ND	
DIETHYL PHTHALATE	UG/KG			ND		140		ND		ND												ND	
DI-N-BUTYL PHTHALATE	UG/KG			ND		290		ND		200												ND	
FLUORANTHENE	UG/KG	ND		ND		ND		ND		ND		81										ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND		ND		ND		ND		32	E									ND	
IRON	MG/KG	19500		12000		36100	B H	15900		65700	B H	35600	B H	23400	B	13700		27300	B	11800		9600	
LEAD	MG/KG	18.7		17.2		18.8		14.9		92	B E	40.1	B E	25.3	B	37.6	B E	29	B	18.2		11.6	
MAGNESIUM	MG/KG	1960	B	1820		1510		3510	B	3090	B	1880		2470	B	1600		2850	B	2060	B	1360	
MANGANESE	MG/KG	1140	B E	1040	E	1480	B E	730	E	8960	B E H	913	E	609		393		455		366		363	
MERCURY	MG/KG	0.24	B E	ND		ND		0.1		0.045		ND		ND		0.09		ND		ND		ND	
NAPHTHALENE	UG/KG	ND		ND		ND		ND		ND		ND										ND	
NICKEL	MG/KG	13.5		8.7		9.2		9.2		32.7	B E	20.4	B	15.1		16.6		15.9		6.7		5.8	
N-NITROSODIPHENYLAMINE	UG/KG			ND		710	E	ND		ND												ND	
PENTACHLOROPHENOL	UG/KG			ND		ND		ND		ND												ND	
PHENANTHRENE	UG/KG	ND		ND		ND		ND		ND		24										ND	
POTASSIUM	MG/KG	655		371		318		470		717		432		536		492		462		613		422	
PYRENE	UG/KG	ND		ND		ND		ND		ND		69										ND	
SELENIUM	MG/KG	1.8	B	1.4	B	1.5	B	0.51		5.2	B W1	3.8	B	1.5	B	ND		ND		ND		ND	
SILVER	MG/KG	0.48		0.43		0.27		0.23		ND		0.69		0.41		ND		0.28		ND		ND	
SODIUM	MG/KG	ND		ND		ND		ND		118		ND		ND		ND		ND		ND		ND	
TOTAL ORGANIC CARBON	MG/KG																						
VANADIUM	MG/KG	24.7		21.4		17.9		23.4		138	B H	61	B	41.9	B	22.2		22.2		20.4		17.6	
ZINC	MG/KG	48.5		33.2		57.9	B	37.2		240	B E	137	B E	58.9	B	261	B E	326	B E	46.2		32.5	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-40
AUS-A11A - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-14 for Locations)

Sediment Samples		AUS-A11A-021		AUS-A11A-022		AUS-A11A-023		AUS-A11A-024		AUS-A11A-026		AUS-A11A-028		AUS-A11A-031		AUS-A11A-032		AUS-A11A-033		AUS-A11A-034		AUS-A11A-035	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG																						
ALL SVOC	UG/KG			ND		--		--		--		--				ND		ND		--		--	
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND				ND		ND		ND		ND	
cPAH	UG/KG			ND		ND		430.1		348.04		ND				ND		ND		360.96		335.35	
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND				ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG			ND		ND		86	E	ND		ND				ND		ND		260	E	300	E
4-METHYLPHENOL (P-CRESOL)	UG/KG			ND		ND		ND		ND		ND				ND		ND		ND		ND	
ACENAPHTHENE	UG/KG			ND		ND		ND		ND		ND				ND		ND		ND		ND	
ACETONE	UG/KG																						
ALUMINUM	MG/KG	9330		10400		10800		14000	B	8570		15500	B	9730		10600		7700		7870		6510	
ANTHRACENE	UG/KG			ND		ND		ND		ND		ND				ND		ND		ND		ND	
ANTIMONY	MG/KG	ND		ND		0.26		ND		1.1		0.67		ND		ND		ND		1.1		ND	
ARSENIC	MG/KG	6.9	H	8.6	H	5	H	6	H	10.5	B E H	5.2	H	6.3	H	7.5	H	3.5	H	8.3	H	8	H
BARIUM	MG/KG	97.8		105		97.9		101		102		167		80.6		76.3		81.4		116		75.1	
BENZO(A)ANTHRACENE	UG/KG			ND		ND		100		73		ND				ND		ND		93		92	
BENZO(A)PYRENE	UG/KG			ND		ND		100		69		ND				ND		ND		100		61	
BENZO(B)FLUORANTHENE	UG/KG			ND		ND		110	E	180	E	ND				ND		ND		150	E	110	E
BENZO(G,H,I)PERYLENE	UG/KG			ND		ND		ND		61	E	ND				ND		ND		56	E	ND	
BENZO(K)FLUORANTHENE	UG/KG			ND		ND		98	E	63	E	ND				ND		ND		55	E	100	E
BERYLLIUM	MG/KG	ND		ND		0.58		0.42		ND		0.67		ND		ND		ND		0.76		0.61	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG			ND		300		ND		530		350				ND		ND		81		ND	
BORON	MG/KG	ND		ND		3.9		2.1		ND		3.3		3.1		ND		ND		ND		14.1	
CADMIUM	MG/KG	ND		ND		ND		ND		0.07		ND		0.04		ND		ND		ND		0.29	
CALCIUM	MG/KG	3280	B	8700	B	5390	B	4740	B	4130	B	4400	B	15100	B	7300	B	1680	B	2420	B	25300	B
CARBAZOLE	UG/KG			ND		ND		ND		ND		ND				ND		ND		ND		ND	
CHROMIUM, TOTAL	MG/KG	12.3		13.9		28.2	B	20.1	B	102	B E W1 W2	60.3	B E W1 W2	28	B	24.2	B	19.4	B	98.3	B E W1 W2	10.8	
CHRYSENE	UG/KG			ND		ND		120		110		ND				ND		ND		110		150	
COBALT	MG/KG	7		5.2		7.9		5.9		9.1		10.4	B	5.6		8.1		3.5		10.2	B	5.2	
COPPER	MG/KG	10.5		15.9		27.3	B	17.5	B	15.2		20.1	B	12.4		8.5		8.8		11.4		15.2	
DIBENZ(A,H)ANTHRACENE	UG/KG			ND		ND		ND		ND		ND				ND		ND		ND		ND	
DIBENZOFURAN	UG/KG			ND		ND		ND		ND		ND				ND		ND		75		100	
DIETHYL PHTHALATE	UG/KG			ND		ND		ND		ND		ND				ND		ND		ND		ND	
DI-N-BUTYL PHTHALATE	UG/KG			ND		ND		ND		88		ND				ND		ND		ND		120	
FLUORANTHENE	UG/KG			ND		ND		120		130		ND				ND		ND		170		82	
INDENO(1,2,3-C,D)PYRENE	UG/KG			ND		ND		ND		ND		ND				ND		ND		60	E	ND	
IRON	MG/KG	20600		2600		17300		19300		10200		23500	B	16600		18800		10800		25700	B	18800	
LEAD	MG/KG	16.9		15.9		28.3	B	17.2		30.8	B	21.1		29.6	B	15.8		9.4		29.2	B	34.4	B
MAGNESIUM	MG/KG	2350	B	2150	B	1880		2660	B	1540		3000	B	5810	B	3440	B	1900		1220		2460	B
MANGANESE	MG/KG	691	E	472		134		251		627		278		573		590		161		508		337	
MERCURY	MG/KG	ND		ND		0.049		0.063		0.12		0.026		0.08		ND		ND		0.21	B E	0.06	
NAPHTHALENE	UG/KG			ND		ND		ND		ND		ND				ND		ND		130		150	
NICKEL	MG/KG	12.1		11.8		23.2	B E	15.3		17.4	B	20.7	B	11.8		10.4		9.6		15.3		13.8	
N-NITROSODIPHENYLAMINE	UG/KG			ND		ND		ND		ND		ND				ND		ND		ND		ND	
PENTACHLOROPHENOL	UG/KG			ND		ND		ND		65	W1 W2	ND				ND		ND		170	E W1 W2	ND	
PHENANTHRENE	UG/KG			ND		ND		73		60		ND				ND		ND		150		180	
POTASSIUM	MG/KG	519		679		753		893		534		1130		622		555		392		370		704	
PYRENE	UG/KG			ND		ND		140		120		ND				ND		ND		210	E	110	
SELENIUM	MG/KG	0.96	B	1.2	B	0.47		ND		1.1	B	ND		1	B	1	B	1.3	B	0.95	B	0.66	B
SILVER	MG/KG	0.25		0.27		ND		ND		0.3		ND		ND		0.22		ND		0.53		ND	
SODIUM	MG/KG	ND		ND		66.3		65.1		ND		64.9		ND		311		ND		ND		ND	
TOTAL ORGANIC CARBON	MG/KG					42000																	
VANADIUM	MG/KG	24.4		26		27.9		31.1	B	26.1		36.1	B	22.8		27		17.9		26.7		27.4	
ZINC	MG/KG	49.8		54.5		155	B E	92.4	B	143	B E	106	B	79.2	B	38.4		29.7		68.6	B	162	B E

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-40
AUS-A11A - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-14 for Locations)

Sediment Samples		AUS-A11A-036		AUS-A11A-037		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	Units	0 - 0.5 ft	CE	0 - 0.5 ft	CE	B	E	H	W1	W2
ALL VOC	UG/KG									
ALL SVOC	UG/KG	--		--						
ALL EXPLOSIVES	UG/KG	ND		ND						
cPAH	UG/KG	4488.6	H	ND				2.1E+02		
2,4-DINITROTOLUENE	UG/KG	ND		ND			6.5E+02	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG	280	E	47			7.0E+01	1.9E+04	8.4E+04	7.7E+03
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		ND			4.0E+03	3.1E+05		2.4E+02
ACENAPHTHENE	UG/KG	44	E	ND			1.6E+01	2.9E+06	5.7E+05	5.7E+05
ACETONE	UG/KG						8.4E+01	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	6100		6610		1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG	260	E	ND			5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND		ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.5	H	4.9	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	81.8		129		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	2600	E H W1 W2	ND			1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	2700	E H	ND			1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	2200	E H	ND			2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	1800	E	ND			1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	2600	E	ND			2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	100		ND			7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND				1.8E+04		
CADMIUM	MG/KG	0.18		ND		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	50600	B	3330	B	1.4E+03				
CARBAZOLE	UG/KG	99		ND			3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	8.9		10.3		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	2600	E	ND			1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	3.6		17.9	B	9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	11.7		10.4		1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	1100	E H	ND			3.3E+01	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	180		ND			2.0E+03	1.6E+05		1.5E+04
DIETHYL PHTHALATE	UG/KG	ND		ND			6.3E+02	2.0E+06		4.7E+05
DI-N-BUTYL PHTHALATE	UG/KG	82		ND			1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	3800	E	ND			4.2E+02	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	1800	E	ND			1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	15000		13200		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	21.6		12.1		2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	4710	B	1530		1.9E+03				
MANGANESE	MG/KG	376		837	E	1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.13		ND		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	150		ND			1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	9.7		15.9		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND			7.0E+02	3.5E+05	1.0E+03	1.0E+03
PENTACHLOROPHENOL	UG/KG	ND		ND			7.4E+01	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	690	E	ND			2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	589		420		1.4E+03				
PYRENE	UG/KG	3800	E	ND			2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.52		0.32		6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		ND		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG									
VANADIUM	MG/KG	17.9		17		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	118	B	44.8		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-41
AUS-A11A - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-14 for Locations)

Surface Water Samples		AUS-A11A-006-SW		AUS-A11A-007-SW		AUS-A11A-008-SW		AUS-A11A-010-SW		AUS-A11A-014-SW		AUS-A11A-022-SW		AUS-A11A-023-SW		AUS-A11A-024-SW		AUS-A11A-026-SW		AUS-A11A-028-SW		AUS-A11A-032-SW		AUS-A11A-033-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	ND		ND		ND						ND						ND		ND				ND				
ALL SVOC	UG/L	ND		ND		--		ND				ND		ND		ND		ND		ND		ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND		ND		ND				ND		ND		ND		ND		ND		ND		ND				
ALKALINITY, TOTAL (AS CACO3)	MG/L					193								111				123		106		200		72.8				
ALUMINUM	UG/L	518	B E	200	E	28000	B E	69000	B E	1840	B E	183	E	3950	B E	ND		928	B E	2530	B E	289	B E	415	B E	2.0E+02	8.7E+01	
ANTIMONY	UG/L	ND		ND		ND		1.6		ND		ND		ND		ND		ND		ND		ND		ND		6.0E+00	3.0E+01	
ARSENIC	UG/L	ND		3.5		16.2	B	38.7	B	ND		ND		ND		7.7		ND		ND		ND		2.6		1.0E+01	1.9E+02	
BARIUM	UG/L	78.7	B	50.1	B	310	B	632	B	281	B	90.4	B	116	B	31.1	B	75	B	79.3	B	121	B	19.4		2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	ND		ND		1.5	E	ND		ND		ND		ND		ND		ND		ND		ND		ND		5.0E+00	5.3E-01	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	ND		ND		410	E					ND		ND		ND		ND		ND				ND			3.0E+00	
BORON	UG/L	16.2		ND		ND		48.5		36.8		57.3		ND		ND		19.6		ND		ND		19.9			1.0E+03	1.0E+03
CADMIUM	UG/L	ND		ND		ND		3	E	ND		ND		ND		ND		ND		ND		ND		ND		5.0E+00	1.1E+00	
CALCIUM	UG/L	51400	B	43800	B	111000	B	172000	B E	159000	B E	34000	B	75800	B	43300	B	95200	B	105000	B	145000	B E	27400	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	1.1		ND		31.5	B	105	B	2.7		1.2		9		ND		4.6		12.7	B	ND		3.7		1.0E+01	2.1E+02	
COBALT	UG/L	ND		ND		29.4	E	63	B E	ND		ND		ND		ND		ND		ND		ND		ND		5.0E+01	2.3E+00	
COPPER	UG/L	ND		ND		29.1	B E	89.3	B E	4.2		ND		12.4	B E	ND		ND		3.9		ND		ND		1.0E+01	1.2E+01	
IRON	UG/L	2990	B E H	1460	B E H	34100	B E H	98000	B E H	3660	B E H	3150	B E H	7180	B E H	1610	B E H	2040	B E H	4390	B E H	720	B	688	B	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	ND		ND		28.3	B E	95.1	B E	ND		ND		9.2	B	ND		ND		3.3	B	ND		ND		2.0E+00	2.0E+01	
MAGNESIUM	UG/L	13400	B	13000	B	50300	B	89700	B E	23400	B	6170	B	15200	B	7970	B	14800	B	15100	B	36300	B	13500	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	2330	B E H	882	B	6720	B E H	3580	B E H	2200	B E H	1700	B E H	464		102		497		694	B	92.4		345		5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	0.22	B H	ND		ND		0.66	B H	0.36	B H	0.22	B H	ND		ND		0.21	B H	ND		ND		0.26	B H	2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L	ND		ND		41.9	B	87.9	B	ND		ND		17.4	B	1.4		ND		6.8		ND		ND		1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L	0.44	B	0.36	B	1.54	B	1.6	B	0.97	B	0.25		1.9	B	0.84	B	ND		0.77	B	0.47	B	0.28	B	2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	0.15	B	ND		74.4	B	174	B	0.34	B	ND		3.8	B	ND		0.48	B	0.038		18.6	B	ND		5.0E-02		
PHOSPHORUS, TOTAL (AS P)	MG/L	0.42	B			0.39	B																	0.15	B	5.0E-02		
POTASSIUM	UG/L	2790	B	3440	B	3910	B	6190	B	1790	B	2830	B	1410		2710	B	2440	B	2500	B	3530	B	825		1.6E+03	5.3E+04	
SELENIUM	UG/L	ND		2		ND		7.9	B	ND		ND		ND		ND		ND		ND		3.4	B	ND		2.7E+00	1.0E+03	1.0E+03
SODIUM	UG/L	8290	B	7840	B	31900	B	48900	B	8390	B	ND		11800	B	1670		9760	B	7770	B	26500	B	16600	B	3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L					180000								130000						240000		13000						5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L					853																		12				
THALLIUM	UG/L	ND		ND		3.8		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.0E+01	4.0E+00	
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	260	B	212	B	574	B	1038	B H	434	B	192	B	354	B	189	B	456	B	466	B	728	B	204	B	7.2E+01		1.0E+03
VANADIUM	UG/L	ND		ND		54.7	B E	158	B E	ND		ND		11.3		ND		ND		7.7		ND		ND		5.0E+01	1.9E+01	
ZINC	UG/L	ND		ND		193	B	616	B	418	B	ND		202	B	ND		ND		ND		ND		ND		2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-42
AUS-A11A - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-14 for Locations)

Groundwater Samples		AUS-A11A-W01-GW		AUS-A11A-W02-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		ND		
ALL SVOC	UG/L	ND		ND		
ALL EXPLOSIVES	UG/L	ND		ND		
ALKALINITY, TOTAL (AS CACO3)	MG/L			252		
ALUMINUM	UG/L	1370		1490		3.5E+03
BARIUM	UG/L	17.7		53.5		2.0E+03
CALCIUM	UG/L	399000		228000		
IRON	UG/L	1730		1670		5.0E+03
MAGNESIUM	UG/L	986000		125000		
MANGANESE	UG/L	211	C1	159	C1	1.5E+02
MERCURY	UG/L	0.075		ND		2.0E+00
NICKEL	UG/L	6.7		10.1		1.0E+02
NITROGEN, AMMONIA (AS N)	MG/L	0.21		0.99		
NITROGEN, NITRATE-NITRITE	MG/L	3.2		140	C1	1.0E+01
PHOSPHORUS, TOTAL (AS P)	MG/L			0.095		
POTASSIUM	UG/L	2140		ND		
SODIUM	UG/L	1220000		124000		
SULFATE (AS SO4)	UG/L	6400000	C1	490000	C1	4.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L			29.5		
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	6170		2070		
ZINC	UG/L	ND		4.3		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-43
AUS-A11H - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-15A and 5-15B for Locations)

Soil Samples		AUS-A11H-001				AUS-A11H-004				AUS-A11H-006		AUS-A11H-013		AUS-A11H-015		AUS-A11H-016				AUS-A11H-021				AUS-A11H-023		AUS-A11H-024		AUS-A11H-027			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**5 ft**	**CE**	**7 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND				ND												ND		ND		ND						--	
ALL SVOC	UG/KG	--				--				ND		--		ND						ND		ND						ND			
ALL EXPLOSIVES	UG/KG									ND		--		ND		ND		ND		ND		ND				--		ND			
cPAH	UG/KG	83.644				15.398						438.714	H	ND						ND		ND						ND			
Mammal TEQ	NG/KG																	0.08													
Bird TEQ	NG/KG																	0.05													
1,2,3,4,6,7,8-HpCDD	NG/KG																	3.55													
1,2,3,4,6,7,8-HpCDF	NG/KG																	ND													
1-METHYLNAPHTHALENE	UG/KG	ND				73																									
2,3,7,8-TCDF	NG/KG																	ND													
2,4-DINITROTOLUENE	UG/KG									ND		500	W1 W2	ND		ND		ND		ND		ND				ND		ND			
2-METHYLNAPHTHALENE	UG/KG	ND				ND						57		ND						ND		ND						ND			
4-CHLOROANILINE	UG/KG											ND		ND						ND		ND						ND			
ACENAPHTHYLENE	UG/KG	ND				ND						ND		ND						ND		ND						ND			
ALUMINUM	MG/KG	5390	E			703	E			8990	E			10100	B E	11000	B E	8120	E	9310	B E	9460	B E					9360	B E		
ANTHRACENE	UG/KG	ND				ND						ND		ND						ND		ND						ND			
ANTIMONY	MG/KG	ND				ND				0.34				ND		ND						ND						0.45	B		
ARSENIC	MG/KG	5.3	H			6.7	H			6	H			6.2	H	7.2	H	6.3	H	14.6	B E H	13.8	B E H					5.6	H		
BARIUM	MG/KG	58.6				34.5				95.9				117		103		99.7		86.5		43.1						69.2			
BENZO(A)ANTHRACENE	UG/KG	13				ND						67		ND						ND		ND						ND			
BENZO(A)PYRENE	UG/KG	58				8.3						51		ND						ND		ND						ND			
BENZO(B)FLUORANTHENE	UG/KG	93				20						120		ND						ND		ND						ND			
BENZO(G,H,I)PERYLENE	UG/KG	54				21						ND		ND						ND		ND						ND			
BENZO(K)FLUORANTHENE	UG/KG	40				ND						41		ND						ND		ND						ND			
BERYLLIUM	MG/KG	ND				ND				ND				ND		ND		ND		ND		ND						0.51	B		
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG											75		ND						ND		ND						ND			
BORON	MG/KG	ND				ND				ND				ND		ND		ND		ND		ND						8.9	B E		
CADMIUM	MG/KG	0.16				0.14				ND				ND		ND		ND		ND		0.25						ND			
CALCIUM	MG/KG	179000	B			324000	B			2420				4390	B	6080	B	4530	B	1540		1170						3940	B		
CHROMIUM, TOTAL	MG/KG	7.7	E			1.7				15.1	B E			15.8	B E	15.5	B E	12.2	E	10.8	E	15.8	B E					13.9	B E		
CHRYSENE	UG/KG	44				31						95		ND						ND		ND						ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND												ND		ND		ND						ND	
COBALT	MG/KG	ND				ND				8.4				9.8	B	5.9		5.5		8		ND						4.5			
COPPER	MG/KG	8.3				ND				10.3	B			10.3	B	11.7	B	10.4	B	12.1	B	17.4	B					10.2	B		
DIBENZ(A,H)ANTHRACENE	UG/KG	10				ND						ND		ND						ND		ND						ND			
DIBENZOFURAN	UG/KG											160		ND						ND		ND						ND			
DI-N-BUTYL PHTHALATE	UG/KG											2100	E	ND						ND		ND						ND			
FLUORANTHENE	UG/KG	35				29						130		ND						ND		ND						ND			
HMX	UG/KG									ND		ND		ND		ND		ND		ND		ND				720		ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	46				ND						ND		ND						ND		ND						ND			
IRON	MG/KG	11600	E			6070	E			17900	E			18900	E	20100	B E	16900	E	25100	B E	35000	B E H					15000	E		
LEAD	MG/KG	9.4				3.8				15.3				12.3		12.6		11.3		22.8		8.5						24.7			
MAGNESIUM	MG/KG	4150	B			7270	B			1720				2990	B	2820	B	2150	B	1490		1550						1670			
MANGANESE	MG/KG	256	E			294	E			453	E			481	E	381	E	490	E	769	E	292	E					285	E		
MERCURY	MG/KG	ND				ND				ND				ND		ND		ND		ND		ND						0.03			
NAPHTHALENE	UG/KG	ND				64						55		ND						ND		ND						ND			
NICKEL	MG/KG	11.2				12.7	B			11.9				15.1	B	12.5		10.7		10.9		10.7						12			
NITROGLYCERIN	UG/KG											16000	W2	ND		ND		ND								11000	W2	ND			
N-NITROSODIPHENYLAMINE	UG/KG											330		ND						ND		ND						ND			
OCDD	NG/KG																	424													
OCDF	NG/KG																	ND													
PENTACHLOROPHENOL	UG/KG											ND		ND						ND		ND						ND			
PHENANTHRENE	UG/KG	39				94						140		ND						ND		ND						ND			
POTASSIUM	MG/KG	559				399				499				695	B	678		426		354		347						675			
PYRENE	UG/KG	42				37						150		ND						ND		ND						ND			
RDX	UG/KG									ND		ND		ND		ND		ND		ND		ND				1300	W2	ND			
SELENIUM	MG/KG	ND				ND				0.61				0.54		0.36		0.67		1.5	E	1						ND			
SILVER	MG/KG	ND				ND				ND				ND		ND		ND		0.3		0.42						ND			
SODIUM	MG/KG	ND				ND				ND				ND		ND		ND		ND		ND						64.5			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND												ND		ND		ND						ND	
THALLIUM	MG/KG	ND				ND				ND				ND		ND		ND		ND		ND						ND			
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND												ND		ND		ND						ND	
TOTAL HpCDDs	NG/KG																	7.42													
TOTAL HpCDFs	NG/KG																	ND													
TOTAL HxCDDs	NG/KG																	0.375													
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND												ND		ND		ND						10	
VANADIUM	MG/KG	12.9				ND				24.5				24.9		24		21.1		35.1	B	24.6						22.8			
ZINC	MG/KG	54.8	B			21.5				38.4				41.6	B	43.5	B	35.2		34.9		47.8	B					374	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-43
AUS-A11H - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-15A and 5-15B for Locations)

Soil Samples		AUS-A11H-028						AUS-A11H-032				AUS-A11H-034				AUS-A11H-037				AUS-A11H-039				AUS-A11H-044				AUS-A11H-047			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**
ALL VOC	UG/KG			--		--																									
ALL SVOC	UG/KG	--				ND		ND		ND										ND		ND		ND		--					
ALL EXPLOSIVES	UG/KG	ND				ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
cPAH	UG/KG	322.347	H			ND		ND		ND										ND		ND		ND		ND					
Mammal TEQ	NG/KG																			0.11											
Bird TEQ	NG/KG																			0.31											
1,2,3,4,6,7,8-HpCDD	NG/KG																			5.24											
1,2,3,4,6,7,8-HpCDF	NG/KG																			0.533											
1-METHYLNAPHTHALENE	UG/KG																														
2,3,7,8-TCDF	NG/KG																			0.271											
2,4-DINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
4-CHLOROANILINE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
ACENAPHTHYLENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
ALUMINUM	MG/KG	9080	B E			7670	E	12500	B E	9480	B E									12000	B E	12100	B E					16500	B E	15900	B E
ANTHRACENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
ANTIMONY	MG/KG	5.8	B E W1 W2			ND		ND		ND										0.29		0.29						0.31		0.24	
ARSENIC	MG/KG	4.6	H			7.5	H	6.2	H	5.6	H									8.2	H	10.9	E H					9.2	E H	11.1	E H
BARIUM	MG/KG	75.9				92.9		104		68.9										327	B	279	B					187		118	
BENZO(A)ANTHRACENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
BENZO(A)PYRENE	UG/KG	63				ND		ND		ND										ND		ND		ND		ND					
BENZO(B)FLUORANTHENE	UG/KG	52				ND		ND		ND										ND		ND		ND		ND					
BENZO(G,H,I)PERYLENE	UG/KG	49				ND		ND		ND										ND		ND		ND		ND					
BENZO(K)FLUORANTHENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
BERYLLIUM	MG/KG	ND				ND		0.59	B	0.62	B									0.63	B	0.91	B					0.65	B	0.63	B
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	43				ND		ND		ND										ND		ND		ND		150					
BORON	MG/KG	ND				2.2	E	ND		ND										ND		ND						ND		ND	
CADMIUM	MG/KG	ND				ND		ND		ND										ND		ND						ND		ND	
CALCIUM	MG/KG	2440				1870		2350		2500										14000	B	5120	B					6990	B	3880	B
CHROMIUM, TOTAL	MG/KG	15.8	B E			11.6	E	17.1	B E	12.4	E									18.2	B E	18.6	B E					22.3	B E	22.2	B E
CHRYSENE	UG/KG	47				ND		ND		ND										ND		ND		ND		ND					
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		24																									
COBALT	MG/KG	4.7				ND		7.9		7.2										21	B E	20.1	B E					13.1	B	8	
COPPER	MG/KG	14.7	B			8.2		12	B	16.9	B									13.4	B	14.3	B					13.8	B	14.7	B
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
DIBENZOFURAN	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
FLUORANTHENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
HMX	UG/KG	ND				ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
IRON	MG/KG	15500	E			16900	E	19600	B E	21800	B E									20300	B E	26700	B E					22700	B E	25100	B E
LEAD	MG/KG	90.3	B			19.7		10.6		31.8	B									30.6	B	19.4						20.7		15.6	
MAGNESIUM	MG/KG	1670				2020	B	2270	B	1300										3630	B	2820	B					3230	B	3550	B
MANGANESE	MG/KG	126	E			412	E	431	E	225	E									3450	B E H	3030	B E H					1380	E	584	E
MERCURY	MG/KG	ND				ND		0.023		0.024										0.02		0.018						0.018		0.022	
NAPHTHALENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
NICKEL	MG/KG	9.2				11.7		15.7	B	14.3	B									24.3	B	21.8	B					18.1	B	15.5	B
NITROGLYCERIN	UG/KG	ND				ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
N-NITROSODIPHENYLAMINE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
OCDD	NG/KG																			265											
OCDF	NG/KG																			1.87											
PENTACHLOROPHENOL	UG/KG	130	E W1 W2			ND		ND		ND										ND		ND		ND		ND					
PHENANTHRENE	UG/KG	46				ND		ND		ND										ND		ND		ND		ND					
POTASSIUM	MG/KG	618				391		579		742	B									682		596						1050	B	967	B
PYRENE	UG/KG	ND				ND		ND		ND										ND		ND		ND		ND					
RDX	UG/KG	ND				ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
SELENIUM	MG/KG	0.61				0.81		ND		ND										ND		ND						ND		ND	
SILVER	MG/KG	ND				ND		ND		ND										ND		ND						ND		ND	
SODIUM	MG/KG	ND				ND		60.8		44.2										62.2		74.5						72.1		92.1	B
TETRACHLOROETHYLENE(PCE)	UG/KG			150	W1 W2	530	W1 W2																								
THALLIUM	MG/KG	ND				ND		ND		ND										0.9	B	0.54	B					ND		ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		25																									
TOTAL HpCDDs	NG/KG																			11											
TOTAL HpCDFs	NG/KG																			1.61											
TOTAL HxCDDs	NG/KG																			0.537											
TRICHLOROETHYLENE (TCE)	UG/KG			4		92	W1 W2																								
VANADIUM	MG/KG	21.8				23.4		27.5		18.9										32.6	B	40.6	B					41.1	B	39.8	B
ZINC	MG/KG	228	B E			35.6		38		91.7	B									51.4	B	45.2	B					55.7	B	55	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-43
AUS-A11H - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-15A and 5-15B for Locations)

Soil Samples		AUS-A11H-049				AUS-A11H-052		AUS-A11H-053		AUS-A11H-056		AUS-A11H-059		AUS-A11H-060				AUS-A11H-061								AUS-A11H-063		AUS-A11H-065			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**7 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			ND												ND				ND		ND		ND		ND				ND	
ALL SVOC	UG/KG	--						--				--		--				--		ND		--		--				--			
ALL EXPLOSIVES	UG/KG	ND				ND		ND		ND		ND		ND				ND				ND		ND				ND			
cPAH	UG/KG	ND						602.6	H			ND		ND				ND				675.6	H	ND				491.452	H		
Mammal TEQ	NG/KG																														
Bird TEQ	NG/KG																														
1,2,3,4,6,7,8-HpCDD	NG/KG																														
1,2,3,4,6,7,8-HpCDF	NG/KG																														
1-METHYLNAPHTHALENE	UG/KG																														
2,3,7,8-TCDF	NG/KG																														
2,4-DINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND		ND				ND				ND		ND				ND			
2-METHYLNAPHTHALENE	UG/KG	ND						80				ND		350				400				39		ND				260			
4-CHLOROANILINE	UG/KG	ND						1300	E W1 W2			ND		ND				ND				ND		ND				ND			
ACENAPHTHYLENE	UG/KG	ND						50				ND		ND				ND				63		ND				ND			
ALUMINUM	MG/KG	10600	B E			10100	B E	12500	B E			15500	B E	11300	B E			9420	B E			2170	E	3970	E			14600	B E		
ANTHRACENE	UG/KG	ND						ND				ND		ND				ND				41		ND				ND			
ANTIMONY	MG/KG	0.32				0.28		6	B E W1 W2			0.3		0.22				ND				ND		ND				0.25			
ARSENIC	MG/KG	5.9	H			4.2	H	7.2	H			6.8	H	5.4	H			6.4	H			1.9	H	4.5	H			7.5	H		
BARIUM	MG/KG	87.3				136		445	B			87.1		154				135				30.6		81				103			
BENZO(A)ANTHRACENE	UG/KG	ND						200				ND		ND				ND				350		ND				52			
BENZO(A)PYRENE	UG/KG	ND						260	H			ND		ND				ND				380	H	ND				ND			
BENZO(B)FLUORANTHENE	UG/KG	ND						470				ND		ND				ND				540		ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND						300				ND		ND				ND				150		ND				ND			
BENZO(K)FLUORANTHENE	UG/KG	ND						130				ND		ND				ND				520		ND				ND			
BERYLLIUM	MG/KG	ND				0.4		0.73	B			0.68	B	0.56	B			ND				ND		ND				0.54	B		
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	160						2000	E			ND		ND				ND				ND		ND				ND			
BORON	MG/KG	1.7	E			ND		5.5	B E			ND		ND				ND				ND		ND				ND			
CADMIUM	MG/KG	ND				ND		204	B E H W1 W2			ND		ND				0.26				0.43	B E	0.31	E			ND			
CALCIUM	MG/KG	3500	B			1420		1370				4930	B	17800	B			10500	B			251000	B	8200	B			23000	B		
CHROMIUM, TOTAL	MG/KG	15.8	B E			15.3	B E	585	B E H W1 W2			18.3	B E	15.1	B E			12.5	E			3.5		6.1	E			18.8	B E		
CHRYSENE	UG/KG	ND						300				ND		ND				ND				400		ND				52			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND												ND				ND		ND		ND		ND				ND	
COBALT	MG/KG	5.1				5.7		4.6				10.2	B	6.5				ND				ND		ND				6.8			
COPPER	MG/KG	13.3	B			9.7	B	123	B E			11.4	B	14.8	B			11.3	B			6.8		4.8				13.5	B		
DIBENZ(A,H)ANTHRACENE	UG/KG	ND						ND				ND		ND				ND				ND		ND				ND			
DIBENZOFURAN	UG/KG	ND						ND				44		65				110				ND		65				68			
DI-N-BUTYL PHTHALATE	UG/KG	ND						110				ND		47				ND				99		ND				ND			
FLUORANTHENE	UG/KG	ND						190				ND		ND				ND				320		ND				59			
HMX	UG/KG					ND		ND		ND		ND		ND				ND				ND		ND							
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND						290				ND		ND				ND				160		ND				ND			
IRON	MG/KG	17000	E			13600	E	29300	B E			24200	B E	15700	E			17100	E			6750	E	14100	E			18900	E		
LEAD	MG/KG	54.8	B			8.6		137	B			11.7		11.5				11				2		6.4				15.8			
MAGNESIUM	MG/KG	1910	B			2050	B	1490				2040	B	10000	B			6590	B			12200	B	1780				12500	B		
MANGANESE	MG/KG	281	E			433	E	219	E			456	E	372	E			440	E			261	E	146	E			524	E		
MERCURY	MG/KG	0.023				0.0094		2	B E W2			0.021		0.016				ND				ND		ND				0.02			
NAPHTHALENE	UG/KG	ND						ND				ND		180				220				ND		ND				98			
NICKEL	MG/KG	13.7	B			13	B	35.6	B E			19	B	13	B			12.3				6.1		8.3				14.1	B		
NITROGLYCERIN	UG/KG					ND		ND																							
N-NITROSODIPHENYLAMINE	UG/KG	ND						ND				ND		ND				ND				ND		ND				ND			
OCDD	NG/KG																														
OCDF	NG/KG																														
PENTACHLOROPHENOL	UG/KG	ND						ND				ND		ND				ND				ND		ND				ND			
PHENANTHRENE	UG/KG	ND						120				40		95				160				80		41				170			
POTASSIUM	MG/KG	982	B			671		867	B			693	B	946	B			469				384		166				1020	B		
PYRENE	UG/KG	ND						330				ND		43				ND				390		ND				73			
RDX	UG/KG					ND		ND		ND		ND		ND				ND				ND		ND							
SELENIUM	MG/KG	ND				ND		1.9	E			ND		ND				ND				ND		1.6	E			ND			
SILVER	MG/KG	ND				ND		53.5	B E W1 W2			ND		ND				ND				ND		ND				ND			
SODIUM	MG/KG	46.6				197	B	50.8				63.8		61				ND				ND		ND				74.5			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND												ND				ND		ND		ND						ND	
THALLIUM	MG/KG	ND				ND		ND				ND		ND				ND				ND		ND				ND			
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND												ND				ND		ND		ND						ND	
TOTAL HpCDDs	NG/KG																														
TOTAL HpCDFs	NG/KG																														
TOTAL HxCDDs	NG/KG																														
TRICHLOROETHYLENE (TCE)	UG/KG			ND												ND				ND		ND		ND						ND	
VANADIUM	MG/KG	24.6				23.6		35.7	B			29.1		24.7				20.9				3.7		12.4				32.2	B		
ZINC	MG/KG	78.8	B			36.9		345	B E			41.1		60.7	B			49.7	B			52.8	B	28.7				84.1	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-43
AUS-A11H - Detections of Constituents in PA/SI Soil Samples
(see Figures 5-15A and 5-15B for Locations)

Soil Samples		AUS-A11H-066				AUS-A11H-067		AUS-A11H-068		AUS-A11H-W01								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**18 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND								ND		ND		ND						
ALL SVOC	UG/KG	--				--								ND		ND						
ALL EXPLOSIVES	UG/KG					ND		ND		ND				ND		ND						
cPAH	UG/KG	57.83295				ND								ND		ND				2.1E+02		
Mammal TEQ	NG/KG																		8.1E-01	1.6E+01		
Bird TEQ	NG/KG																		8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG																					
1,2,3,4,6,7,8-HpCDF	NG/KG																					
1-METHYLNAPHTHALENE	UG/KG	71												ND		ND			4.6E+04	1.9E+04	8.4E+04	7.2E+03
2,3,7,8-TCDF	NG/KG																					
2,4-DINITROTOLUENE	UG/KG					ND		ND		ND				ND		ND			1.3E+03	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG	100				110								ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-CHLOROANILINE	UG/KG					ND													1.0E+03	2.5E+05	7.0E+02	7.0E+02
ACENAPHTHYLENE	UG/KG	ND				ND								ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	8320	E			13400	B E	12700	B E	2000	E			13000	B E	7570	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND				ND								ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.79	B			ND		0.34		ND				ND		ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.6	H			9.9	E H	12.7	E H	4.6	H			4.6	H	2.1	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	68.4				82.1		87.8		45.7				160		48.2		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	16				ND								ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	35				ND								ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	27				ND								ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	18				ND								ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	13				ND								ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.34				0.46		ND		0.13				0.39		0.38		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					ND													9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND				ND		ND		ND				ND		ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND				ND		ND		ND				ND		ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	71800	B			16100	B	138000	B	984				984		1780		2.9E+03				
CHROMIUM, TOTAL	MG/KG	11.1	E			16.7	B E	ND		2.1				12.4	E	10.4	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND				ND								ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND								ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	8.8				7.2		ND		ND				8.5		ND		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	10.4	B			8.5		ND		5.7				11.7	B	5		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	15				ND								ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG					180													2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG					ND													7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	34				ND								ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG					ND		ND		ND				ND		ND			2.5E+04	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	34				ND								ND		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	12000	E			19200	E	18600	E	7190	E			18400	E	9760	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	13.5				19.3		ND		4.4				8.2		7.7		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	8020	B			4160	B	7600	B	1760				1760		1640		1.8E+03				
MANGANESE	MG/KG	577	E			847	E	484	E	334	E			452	E	85.6		2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.017				0.03		0.027		ND				ND		ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND				70								ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	13.1	B			12.6	B	ND		11.7				11.7		7.8		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
NITROGLYCERIN	UG/KG																			1.0E+05		2.0E+01
N-NITROSODIPHENYLAMINE	UG/KG					ND													2.0E+04	3.5E+05	1.0E+03	1.0E+03
OCDD	NG/KG																					
OCDF	NG/KG																					
PENTACHLOROPHENOL	UG/KG					ND													1.2E+02	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	48				160								ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	682				852	B	ND		405				434		401		6.9E+02				
PYRENE	UG/KG	29				ND								ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG					ND		ND		ND				ND		ND			1.0E+05	1.6E+04		3.6E+02
SELENIUM	MG/KG	1.1	E			0.49		ND		0.31				0.77		0.18		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND				ND		ND		ND				0.24		ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	84.4				71.1		ND		ND				ND		411	B	8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND								ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND				ND		ND		ND				ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND								ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TOTAL HpCDDs	NG/KG																					
TOTAL HpCDFs	NG/KG																					
TOTAL HxCDDs	NG/KG																					
TRICHLOROETHYLENE (TCE)	UG/KG			ND								ND		ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	19.1				35.8	B	ND		3.8				16.9		9		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	49.2	B			36.8		ND		31				49.8	B	31		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-44
AUS-A11H - Detections of Constituents in PA/SI Sewer Line Samples
(see Figures 5-15A and 5-15B for Locations)

Sewer Line Samples		AUS-A11H-025-SL (Sewer Line)		AUS-A11H-029-SL (Sewer Line)		AUS-A11H-064-SL (Sewer Line)				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG							ND						
ALL SVOC	UG/KG	--		ND		--								
ALL EXPLOSIVES	UG/KG	ND		ND		ND								
cPAH	UG/KG	ND		ND		2662.9	H					2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	ND		ND		1400					4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND		280	W2				8.0E+04	1.2E+04		3.1E+01
ACENAPHTHYLENE	UG/KG	ND		ND		450					8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	14700	B E	8840	E	8040	E			9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND		ND		330					1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.49	B	ND		0.41				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	4.5	H	4.6	H	6.3	H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	94.3		172		65.6				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		ND		1500					3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		ND		1800	H				3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		ND		2500	E H				1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND		1000					1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND		ND		2300					9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.53	B	0.47		0.8	B			4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		460		ND					9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND		28.3	B E			4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		ND		0.63	B E			3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3250	B	3170	B	34800	B			2.9E+03				
CARBAZOLE	UG/KG	ND		ND		130					1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	20.1	B E	13.5	E	14.4	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		ND		1900					4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	6.2		7.3		4.9				9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	13	B	9.6	B	16.6	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		340	H				1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND		ND		440					2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND		59		ND					7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND		ND		1600					1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND		980					9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	18300	E	13900	E	20500	B E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	34.6	B	11.7		35	B			2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2440	B	2200	B	4280	B			1.8E+03				
MANGANESE	MG/KG	333	E	671	E	313	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.024		0.011		0.38	B E			2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND		630					4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	18.3	B	16.3	B	17	B			1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND		ND		830					1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1030	B	575		817	B			6.9E+02				
PYRENE	UG/KG	ND		ND		2300					7.9E+04	2.9E+06	4.2E+06	4.2E+06
SODIUM	MG/KG	122	B	95.1	B	106	B			8.5E+01				
VANADIUM	MG/KG	30.3		19.7		40.7	B			3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	121	B E	90.9	B	176	B E			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-45
AUS-A11H - Detections of Constituents in PA/SI Sediment Samples
(see Figures 5-15A and 5-15B for Locations)

Sediment Samples		AUS-A11H-002		AUS-A11H-003				AUS-A11H-005				AUS-A11H-007		AUS-A11H-008				AUS-A11H-009		AUS-A11H-010		AUS-A11H-011		AUS-A11H-012		AUS-A11H-014	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG					ND				ND						ND											
ALL SVOC	UG/KG	--		--				--				ND		ND				ND		--				--			
ALL EXPLOSIVES	UG/KG											ND		--				ND		ND		ND		--		ND	
cPAH	UG/KG	ND		14.6155				25.959				ND		ND				ND		ND				ND			
1,3,5-TRINITROBENZENE	UG/KG											ND		490	E			ND		ND		ND		ND		ND	
1,3-DINITROBENZENE	UG/KG											ND		460	E W2			ND		ND		ND		ND		ND	
1-METHYLNAPHTHALENE	UG/KG	ND		ND				ND																			
2,4,6-TRINITROTOLUENE	UG/KG											ND		ND				ND		ND		ND		ND		ND	
2,4-DINITROTOLUENE	UG/KG											ND		510	W1 W2			ND		ND		ND		140	W1 W2	ND	
2,6-DINITROTOLUENE	UG/KG											ND		ND				ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND		ND				110	E			ND		ND				ND		ND				ND			
4-NITROTOLUENE	UG/KG											ND		ND				ND		ND		ND		ND		ND	
ACENAPHTHYLENE	UG/KG	ND		ND				ND				ND		ND				ND		ND				ND			
ALUMINUM	MG/KG	11300	B	4860				8790				7740		5000				6760		7690				8430			
ANTHRACENE	UG/KG	ND		ND				ND				ND		ND				ND		ND				ND			
ANTIMONY	MG/KG	0.27		ND				ND				ND		0.75				ND		ND				ND			
ARSENIC	MG/KG	5	H	6.2	H			5.5	H			6.5	H	4.6	H			5.2	H	6.5	H			5.6	H		
BARIUM	MG/KG	96.5		102				127				88.3		74.8				83.9		92.6				102			
BENZO(A)ANTHRACENE	UG/KG	ND		ND				ND				ND		ND				ND		ND				ND			
BENZO(A)PYRENE	UG/KG	ND		7.4				16				ND		ND				ND		ND				ND			
BENZO(B)FLUORANTHENE	UG/KG	ND		10				27				ND		ND				ND		ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND		11				16				ND		ND				ND		ND				ND			
BENZO(K)FLUORANTHENE	UG/KG	ND		ND				ND				ND		ND				ND		ND				ND			
BERYLLIUM	MG/KG	0.6		ND				ND				ND		ND				0.24		ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG											ND		ND				ND		ND				ND			
BORON	MG/KG	ND		ND				ND				ND		ND				ND		ND				ND			
CADMIUM	MG/KG	ND		ND				ND				30.9	B E W1 W2	5.1	B E			ND		ND				1.2	E		
CALCIUM	MG/KG	8470	B	22300	B			2340	B			2660	B	1930	B			1740	B	2680	B			2960	B		
CARBAZOLE	UG/KG											ND		ND				ND		ND				ND			
CHROMIUM, TOTAL	MG/KG	16.5		7.4				14.7				15.3		9.8				10.9		12.5				13.1			
CHRYSENE	UG/KG	ND		12				33				ND		ND				ND		ND				ND			
COBALT	MG/KG	11.1	B	6.2				6.9				6.6		6				10.5	B	4.9				5.8			
COPPER	MG/KG	11.4		5.4				18.1	B			11.3		6.9				11.1		9.8				12.6			
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND				ND				ND		ND				ND		ND				ND			
DIBENZOFURAN	UG/KG											ND		ND				ND		ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG											ND		ND				ND		420				3600			
FLUORANTHENE	UG/KG	10		17				49				ND		ND				ND		ND				ND			
HMX	UG/KG											ND		ND				ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND				8.3				ND		ND				ND		ND				ND			
IRON	MG/KG	14700		14000				15900				19600		10300				15700		16900				16300			
LEAD	MG/KG	13.9		12.6				17.7				52.3	B E	19				46.5	B E	17.7				16.1			
MAGNESIUM	MG/KG	1820		3700	B			1900				1580		1040				1140		1750				1880			
MANGANESE	MG/KG	954	E	685	E			438				507		315				472		289				306			
MERCURY	MG/KG	0.025		ND				ND				ND		ND				ND		ND				ND			
NAPHTHALENE	UG/KG	ND		ND				ND				ND		ND				ND		ND				ND			
NICKEL	MG/KG	14.4		7.1				14				29.2	B E	9.9				9.2		11.3				13.7			
NITROBENZENE	UG/KG											ND		540	W1 W2			ND		ND		ND		ND		ND	
NITROGLYCERIN	UG/KG											ND		ND						ND		ND				ND	
N-NITROSODIPHENYLAMINE	UG/KG											ND		ND				ND		ND				2300	E W1 W2		
PHENANTHRENE	UG/KG	12		11				35				ND		ND				ND		ND				ND			
POTASSIUM	MG/KG	702		273				555				605		344				279		525				767			
PYRENE	UG/KG	ND		13				32				ND		ND				ND		ND				ND			
SELENIUM	MG/KG	ND		ND				ND				ND		1.9	B			ND		0.96	B			0.38			
SILVER	MG/KG	ND		ND				ND				0.24		1.7	E			ND		ND				ND			
SODIUM	MG/KG	48.4		ND				ND				ND		ND				ND		ND				ND			
TOTAL ORGANIC CARBON	MG/KG																										
VANADIUM	MG/KG	27.2		23				22.2				29.2	B	19.2				19.5		23.7				21.3			
ZINC	MG/KG	124	B E	28.9				66.8	B			386	B E	29.8				46.4		132	B E			378	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-45
AUS-A11H - Detections of Constituents in PA/SI Sediment Samples
(see Figures 5-15A and 5-15B for Locations)

Sediment Samples		AUS-A11H-017		AUS-A11H-018		AUS-A11H-019		AUS-A11H-020				AUS-A11H-022				AUS-A11H-023		AUS-A11H-026		AUS-A11H-030		AUS-A11H-031		AUS-A11H-033		AUS-A11H-035	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG									ND				ND													
ALL SVOC	UG/KG			--		--		--				--				--				--		ND		--		ND	
ALL EXPLOSIVES	UG/KG	ND		ND		ND		--				--				ND		ND		ND		ND		ND		ND	
cPAH	UG/KG			517.751		24.1805		ND				ND				ND				ND		ND		ND		ND	
1,3,5-TRINITROBENZENE	UG/KG	ND		ND		ND		ND				ND				ND		ND		ND		ND		ND		ND	
1,3-DINITROBENZENE	UG/KG	ND		ND		ND		ND				ND				ND		ND		ND		ND		ND		ND	
1-METHYLNAPHTHALENE	UG/KG					51																					
2,4,6-TRINITROTOLUENE	UG/KG	ND		ND		ND		1800	E W2			ND				ND		ND		ND		ND		ND		ND	
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND		5900	E H W1 W2			210000	E H W1 W2			ND		ND		ND		ND		ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND		430	E W1 W2			15000	E H W1 W2			ND		ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG			ND		180	E	ND				ND				ND				ND		ND		ND		ND	
4-NITROTOLUENE	UG/KG	ND		ND		ND		ND				ND				ND		ND		ND		ND		ND		ND	
ACENAPHTHYLENE	UG/KG			ND		ND		ND				ND				ND				ND		ND		ND		ND	
ALUMINUM	MG/KG			4850		5630		9480				7230				4690		11700	B	13000	B	14900	B	13100	B		
ANTHRACENE	UG/KG			ND		ND		ND				ND				ND				ND		ND		ND		ND	
ANTIMONY	MG/KG			ND		ND		ND				0.51				ND		ND		0.34		ND		0.31			
ARSENIC	MG/KG			2.8	H	9.4	H	6.7	H			3.6	H			3.1	H	7.5	H	13.2	B E H	6.3	H	7.2	H		
BARIUM	MG/KG			69.3		85.3		106				188				60.2		96.5		137		144		125			
BENZO(A)ANTHRACENE	UG/KG			ND		9.6		ND				ND				ND				ND		ND		ND		ND	
BENZO(A)PYRENE	UG/KG			ND		15		ND				ND				ND				ND		ND		ND		ND	
BENZO(B)FLUORANTHENE	UG/KG			94	E	18		ND				ND				ND				ND		ND		ND		ND	
BENZO(G,H,I)PERYLENE	UG/KG			ND		18	E	ND				ND				ND				ND		ND		ND		ND	
BENZO(K)FLUORANTHENE	UG/KG			ND		ND		ND				ND				ND				ND		ND		ND		ND	
BERYLLIUM	MG/KG			ND		ND		ND				ND				ND		0.77		0.81		0.62		0.72			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG			ND				130				59				ND				ND		ND		ND		ND	
BORON	MG/KG			ND		3.1		2.3				ND				ND		ND		0.94		ND		0.9			
CADMIUM	MG/KG			ND		0.64		6.8	B E W2			0.09				ND		ND		ND		ND		ND			
CALCIUM	MG/KG			1370		42500	B	5560	B			3100	B			5750	B	3850	B	5310	B	4500	B	3050	B		
CARBAZOLE	UG/KG			ND				ND				ND				ND				ND		ND		ND		ND	
CHROMIUM, TOTAL	MG/KG			8.5		13.3		13.5				11.1				6.6		18	B	19.4	B	21.3	B	26.2	B		
CHRYSENE	UG/KG			51		30		ND				ND				ND				ND		ND		ND		ND	
COBALT	MG/KG			3.9		9.2	B	7.1				4.6				3		5.8		9.9	B	6.9		8			
COPPER	MG/KG			6.4		16.3		21.1	B			20.9	B			7.6		13.8		24.2	B	19	B	12.1			
DIBENZ(A,H)ANTHRACENE	UG/KG			ND		ND		ND				ND				ND				ND		ND		ND		ND	
DIBENZOFURAN	UG/KG			ND				ND				ND				ND				ND		ND		ND		ND	
DI-N-BUTYL PHTHALATE	UG/KG			ND				13000	E			53000	E			110				190		ND		76		ND	
FLUORANTHENE	UG/KG			ND		32		ND				ND				ND				ND		ND		ND		ND	
HMX	UG/KG	ND		ND		ND		10000	E W2			ND				ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG			ND		ND		ND				ND				ND				ND		ND		ND		ND	
IRON	MG/KG			10600		24100	B	22200	B			11200				7860		19100		28200	B	23700	B	21800	B		
LEAD	MG/KG			9.3		30.4	B	30.7	B			21.2				12.7		27	B	37.9	B E	16.4		17.5			
MAGNESIUM	MG/KG			1130		3730	B	2110	B			1470				1720		2530	B	4150	B	3300	B	2420	B		
MANGANESE	MG/KG			262		815	E	804	E			566				195		258		355		164		414			
MERCURY	MG/KG			ND		ND		ND				ND				ND		0.028		0.0088		0.012		0.022			
NAPHTHALENE	UG/KG			ND		ND		ND				ND				ND				ND		ND		ND		ND	
NICKEL	MG/KG			7.1		14.6		19.2	B			10				6.6		18.2	B	18.9	B	20.3	B	15.6			
NITROBENZENE	UG/KG	ND		ND		ND		ND				ND				ND		ND		ND		ND		ND		ND	
NITROGLYCERIN	UG/KG	ND						13000	E W2			ND				ND		ND				ND		ND		ND	
N-NITROSODIPHENYLAMINE	UG/KG			ND				2200	E W1 W2			7800	E W1 W2			ND				ND		ND		ND		ND	
PHENANTHRENE	UG/KG			ND		35		ND				ND				ND				ND		ND		ND		ND	
POTASSIUM	MG/KG			320		435		729				400				226		910		815		1270		607			
PYRENE	UG/KG			ND		22		ND				ND				ND				ND		ND		ND		ND	
SELENIUM	MG/KG			0.53		1.2	B	1.7	B			0.51				0.33		ND		ND		ND		ND			
SILVER	MG/KG			ND		ND		ND				ND				ND		ND		ND		ND		ND			
SODIUM	MG/KG			ND		ND		ND				ND				ND		63		106		90.5		192			
TOTAL ORGANIC CARBON	MG/KG																	59400									
VANADIUM	MG/KG			14.6		25.1		22				16.3				11.5		31.7	B	36	B	34.2	B	32.7	B		
ZINC	MG/KG			41		288	B E	437	B E			215	B E			30.6		83.4	B	224	B E	58.4	B	40.5			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-45
AUS-A11H - Detections of Constituents in PA/SI Sediment Samples
(see Figures 5-15A and 5-15B for Locations)

Sediment Samples		AUS-A11H-036		AUS-A11H-038		AUS-A11H-040		AUS-A11H-041		AUS-A11H-042		AUS-A11H-043		AUS-A11H-045		AUS-A11H-046		AUS-A11H-048		AUS-A11H-050		AUS-A11H-051		AUS-A11H-054		AUS-A11H-055		AUS-A11H-057	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG																												
ALL SVOC	UG/KG	ND				--		--		ND		ND		--		ND				--		ND						ND	
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
cPAH	UG/KG	ND				ND		ND		ND		ND		344.439		ND				ND		ND						ND	
1,3,5-TRINITROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1,3-DINITROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
1-METHYLNAPHTHALENE	UG/KG																												
2,4,6-TRINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
4-NITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ACENAPHTHYLENE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
ALUMINUM	MG/KG	5920				14500	B	15500	B					11500	B	11900	B	16700	B	14300	B	13500	B	16400	B			16100	B
ANTHRACENE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
ANTIMONY	MG/KG	0.3				ND		0.66						ND		0.58		0.46		0.41		0.32		0.47				0.23	
ARSENIC	MG/KG	3.7	H			8.6	H	25	B E H					8.8	H	2.6	H	4.5	H	10.8	B E H	4.9	H	5.9	H			7.6	H
BARIUM	MG/KG	58.3				129		102						114		110		125		158		127		162				770	B
BENZO(A)ANTHRACENE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
BENZO(A)PYRENE	UG/KG	ND				ND		ND		ND		ND		87		ND				ND		ND						ND	
BENZO(B)FLUORANTHENE	UG/KG	ND				ND		ND		ND		ND		58	E	ND				ND		ND						ND	
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND		ND		ND		ND		320	E	ND				ND		ND						ND	
BENZO(K)FLUORANTHENE	UG/KG	ND				ND		ND		ND		ND		46	E	ND				ND		ND						ND	
BERYLLIUM	MG/KG	0.42				ND		1.8	B					0.56		ND		0.54		0.7		0.53		0.55				0.73	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				150		230		ND		ND		140		ND				420		ND						ND	
BORON	MG/KG	3				ND		ND						1.5		1.5		ND		ND		ND		ND				ND	
CADMIUM	MG/KG	ND				ND		ND						ND		ND		ND		ND		ND		ND				ND	
CALCIUM	MG/KG	2700	B			3870	B	2450	B					3600	B	2720	B	2620	B	7360	B	2470	B	4610	B			8370	B
CARBAZOLE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
CHROMIUM, TOTAL	MG/KG	11.5				19.5	B	57	B E W1 W2					18.3	B	17.6	B	20.9	B	18.9	B	18.2	B	25.6	B			26.1	B
CHRYSENE	UG/KG	ND				ND		ND		ND		ND		79		ND				ND		ND						ND	
COBALT	MG/KG	ND				7.3		21.1	B					11	B	4.9		6.1		8.5		6.5		6.1				10.6	B
COPPER	MG/KG	12.1				17.2	B	19.2	B					32.9	B E	13.2		12.2		15.4		11.6		37.7	B E			15.7	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
DIBENZOFURAN	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
FLUORANTHENE	UG/KG	ND				ND		ND		ND		ND		63		ND				ND		ND						ND	
HMX	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND		ND		ND		ND		91	E	ND				ND		ND						ND	
IRON	MG/KG	12100				23200	B	63400	B H					21300	B	12100		18300		23200	B	16500		18300				21700	B
LEAD	MG/KG	287	B E			24.6	B	85.5	B E					354	B E	63.6	B E	30.1	B	33.7	B	31	B	44.7	B E			21	
MAGNESIUM	MG/KG	1330				3040	B	1690						2490	B	2320	B	2740	B	2470	B	2360	B	2580	B			4270	B
MANGANESE	MG/KG	243				466		702	E					999	E	75.6		217		643	E	293		380				248	
MERCURY	MG/KG	ND				0.015		0.03						0.026		0.028		0.022		0.019		0.025		0.071				0.037	
NAPHTHALENE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
NICKEL	MG/KG	11.7				14.9		23.2	B E					22.9	B E	13.9		16.1		16.7		14.9		21.4	B			21.9	B
NITROBENZENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NITROGLYCERIN	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND				ND		ND					
N-NITROSODIPHENYLAMINE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
PHENANTHRENE	UG/KG	ND				ND		ND		ND		ND		ND		ND				ND		ND						ND	
POTASSIUM	MG/KG	555				953		769						1030		1060		1210		940		1030		1080				850	
PYRENE	UG/KG	ND				ND		ND		ND		ND		82		ND				ND		ND						ND	
SELENIUM	MG/KG	1.1	B			ND		ND						0.4		ND		ND		0.6		ND		ND				ND	
SILVER	MG/KG	ND				ND		ND						ND		ND		ND		ND		ND		ND				ND	
SODIUM	MG/KG	ND				97.3		82.5						56.9		84.7		74.5		110		85.5		113				212	
TOTAL ORGANIC CARBON	MG/KG			26800																									
VANADIUM	MG/KG	17.9				31.8	B	66	B					32.7	B	25.8		32	B	35.3	B	29.2	B	31.7	B			34.4	B
ZINC	MG/KG	113	B			57.2	B	117	B					72.8	B	43		63.1	B	139	B E	49.9		151	B E			96.2	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-45
AUS-A11H - Detections of Constituents in PA/SI Sediment Samples
(see Figures 5-15A and 5-15B for Locations)

Sediment Samples		AUS-A11H-058		AUS-A11H-062		AUS-A11H-063		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG											
ALL SVOC	UG/KG			--		--						
ALL EXPLOSIVES	UG/KG	ND		ND		--						
cPAH	UG/KG			318.709		549.42				2.1E+02		
1,3,5-TRINITROBENZENE	UG/KG	ND		ND		ND			4.1E+01	1.8E+06		9.7E+02
1,3-DINITROBENZENE	UG/KG	ND		ND		ND			5.0E+00	6.2E+03		3.6E+00
1-METHYLNAPHTHALENE	UG/KG									1.9E+04	8.4E+04	7.2E+03
2,4,6-TRINITROTOLUENE	UG/KG	ND		ND		ND			5.8E+02	3.1E+04		7.7E+01
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND			6.5E+02	2.5E+03	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND			8.6E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG			ND		1800	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03
4-NITROTOLUENE	UG/KG	ND		ND		250			1.9E+04	3.0E+04		9.2E+02
ACENAPHTHYLENE	UG/KG			ND		120	E		4.4E+01	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	18600	B	13400	B	8030		1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG			ND		97	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.29		0.3		0.79		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	7.2	H	5.2	H	6.2	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	150		101		125		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG			59		360	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG			66		350	E H		1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG			93	E	540	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG			ND		170	E		1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG			93	E	490	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.87		0.43		0.96		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG			160		61			7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND		29.1				1.8E+04		
CADMIUM	MG/KG	ND		ND		1.2	E	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3330	B	44100	B	12700	B	1.4E+03				
CARBAZOLE	UG/KG			ND		73			3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	24.7	B	16.2		24.5	B	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG			79		520	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	9.5	B	7.3		5.2		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	15.4		11		16		1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG			ND		87	E		3.3E+01	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG			ND		430			2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG			ND		ND			1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG			73		480	E		4.2E+02	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	ND		ND		ND			1.0E+01	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG			ND		170	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	26300	B	14400		24100	B	2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	23.8		10.1		41.8	B E	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	2960	B	26300	B	1470		1.9E+03				
MANGANESE	MG/KG	390		455		309		1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.071		0.029		0.081		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG			ND		810	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	23.6	B E	13.3		15.9		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
NITROBENZENE	UG/KG	ND		ND		ND			5.9E+02	9.4E+03	1.0E+02	1.0E+02
NITROGLYCERIN	UG/KG								3.3E+02	1.0E+05		2.0E+01
N-NITROSODIPHENYLAMINE	UG/KG			ND		ND			7.0E+02	3.5E+05	1.0E+03	1.0E+03
PHENANTHRENE	UG/KG			ND		750	E		2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1190		823		884		1.4E+03				
PYRENE	UG/KG			87		640	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	ND		ND		0.42		6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		ND		ND		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	77.9		154		91.6		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG											
VANADIUM	MG/KG	44	B	28.6	B	55.9	B	2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	71.6	B	46.1		218	B E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-46
AUS-A11H - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-15A and 5-15B for Locations)

Surface Water Samples		AUS-A11H-002-SW		AUS-A11H-008-SW		AUS-A11H-010-SW		AUS-A11H-012-SW		AUS-A11H-018-SW		AUS-A11H-031-SW		AUS-A11H-040-SW		AUS-A11H-041-SW		AUS-A11H-051-SW		AUS-A11H-057-SW		AUS-A11H-058-SW		AUS-A11H-062-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	ND		ND		ND				ND														ND				
ALL SVOC	UG/L	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND				
ALL EXPLOSIVES	UG/L			ND		--		ND		--		--		ND		ND		ND		ND		ND		ND				
ALKALINITY, TOTAL (AS CACO3)	MG/L									113						151		122										
ALUMINUM	UG/L			430	B E			583	B E	1900	B E	6520	B E	856	B E	343	B E	3990	B E	48.8		232	B E	ND		2.0E+02	8.7E+01	
ANTIMONY	UG/L			ND				2.2		ND		ND		ND		ND		ND		ND		ND		ND		6.0E+00	3.0E+01	
BARIUM	UG/L			53.3	B			71	B	57.5	B	75.8	B	64.4	B	50.8	B	77	B	30.2	B	167	B	50.2	B	2.3E+01	5.0E+03	5.0E+03
BORON	UG/L			32.6				42.6		16.5		ND		19.2		14.2		22.2		31		41.2		76.9			1.0E+03	1.0E+03
CADMIUM	UG/L			ND				ND		ND		ND		3.3	E	ND		ND		ND		ND		ND		5.0E+00	1.1E+00	
CALCIUM	UG/L			34000	B			34400	B	35500	B	14700	B	65600	B	40800	B	31300	B	41800	B	59000	B	56300	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L			0.96				1.2		2.6		6.4		ND		ND		4.5		ND		ND		ND		1.0E+01	2.1E+02	
COPPER	UG/L			ND				ND		ND		6.2		1.7		ND		3		ND		3.4		ND		1.0E+01	1.2E+01	
HMX	UG/L			ND		0.53		ND		ND		3.2		ND		ND		ND		ND		ND		ND			3.3E+02	
IRON	UG/L			2680	B E H			2190	B E H	2190	B E H	6410	B E H	1310	B E H	3610	B E H	4030	B E H	225	B	7440	B E H	83.9		1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L			1.7				ND		ND		6.4	B	3.3	B	3.1	B	8.3	B	ND		4.9	B	ND		2.0E+00	2.0E+01	
MAGNESIUM	UG/L			9940	B			9580	B	9530	B	3740	B	16800	B	9650	B	9810	B	13700	B	14900	B	13300	B	2.5E+03	8.2E+04	
MANGANESE	UG/L			510				367		352		136		63.4		385		83.3		113		692	B	126		5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L			0.23	B H			0.13	H	0.33	B H	ND		ND		ND		ND		ND		ND		ND		2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L			ND				ND		ND		7.4		2.5		1.6		4.9		1.8		7.6		1.3		1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L							0.2		ND		1.2	B	0.16		0.14				0.19		1.6	B			2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	ND		ND				0.14	B	ND		0.082	B	ND		ND		ND		ND		0.052	B			5.0E-02		
PHOSPHORUS, TOTAL (AS P)	MG/L									0.19	B					0.22	B			0.12	B	0.25	B			5.0E-02		
POTASSIUM	UG/L			3450	B			3310	B	2250	B	2800	B	2310	B	3790	B	2450	B	2320	B	3780	B	2430	B	1.6E+03	5.3E+04	
RDX	UG/L			ND		1.8		ND		1		ND		ND		ND		ND		ND		ND		ND			1.9E+02	
SODIUM	UG/L			9620	B			10400	B	9430	B	3290	B	20400	B	14100	B	8570	B	10200	B	5060	B	9470	B	3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L									ND		8300				11000		7800										5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L									34						6												
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L					206	B			193	B	151	B	305	B	218	B	191	B	230	B					7.2E+01		1.0E+03
VANADIUM	UG/L			ND				ND		ND		13.1		3.5		ND		7.2		ND		ND		ND		5.0E+01	1.9E+01	
ZINC	UG/L			ND				ND		38.9	B	ND		ND		ND		ND		ND		ND		ND		2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-47
AUS-A11H - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-15A and 5-15B for Locations)

Groundwater Samples		AUS-A11H-021-GW		AUS-A11H-061-GW		AUS-A11H-W01-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		ND		ND		
ALL SVOC	UG/L	ND		--		ND		
ALL EXPLOSIVES	UG/L	ND		--		--		
ALKALINITY, TOTAL (AS CACO3)	MG/L	140				271		
ALUMINUM	UG/L	144000	C1	44500	C1	2150		3.5E+03
ANTIMONY	UG/L	1.5		10	C1	ND		6.0E+00
ARSENIC	UG/L	26.6		54.9	C1	ND		5.0E+01
BARIUM	UG/L	1330		561		271		2.0E+03
BENZO(A)ANTHRACENE	UG/L	ND		1.9	C1	ND		1.3E-01
BENZO(A)PYRENE	UG/L	ND		2	C1	ND		2.0E-01
BENZO(B)FLUORANTHENE	UG/L	ND		2.6	C1	ND		1.8E-01
BENZO(G,H,I)PERYLENE	UG/L	ND		1.3		ND		2.1E+02
BENZO(K)FLUORANTHENE	UG/L	ND		2.6	C1	ND		1.7E-01
CADMIUM	UG/L	ND		1.7		ND		5.0E+00
CALCIUM	UG/L	102000		781000		205000		
CHROMIUM, TOTAL	UG/L	131	C1	58.5		3.4		1.0E+02
CHRYSENE	UG/L	ND		3.2	C1	ND		1.5E+00
COPPER	UG/L	112		122		ND		6.5E+02
FLUORANTHENE	UG/L	ND		2.4		ND		2.8E+02
INDENO(1,2,3-C,D)PYRENE	UG/L	ND		1.3	C1	ND		4.3E-01
IRON	UG/L	123000	C1	77500	C1	2030		5.0E+03
LEAD	UG/L	77.2	C1	94.1	C1	ND		7.5E+00
MAGNESIUM	UG/L	45500		75200		102000		
MANGANESE	UG/L	2570	C1	1570	C1	243	C1	1.5E+02
MERCURY	UG/L	0.52		ND		ND		2.0E+00
NICKEL	UG/L	112	C1	128	C1	4.4		1.0E+02
NITROGEN, AMMONIA (AS N)	MG/L	0.88		3.6		5.3		
NITROGEN, NITRATE-NITRITE	MG/L	ND		4.4		432	C1	1.0E+01
PHOSPHORUS, TOTAL (AS P)	MG/L					0.21		
POTASSIUM	UG/L	7530		11400		1910		
PYRENE	UG/L	ND		2.3		ND		2.1E+02
RDX	UG/L	ND		3		0.53		8.4E+01
SELENIUM	UG/L	3.7		29.5		ND		5.0E+01
SILVER	UG/L	ND		6.3		ND		5.0E+01
SODIUM	UG/L	7420		25000		367000		
SULFATE (AS SO4)	UG/L					38000		4.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L					168		
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L					2790		
VANADIUM	UG/L	176	C1	73.5	C1	4.1		4.9E+01
ZINC	UG/L	423		1210		9.7		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-48
AUS-A11N - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-16 for Locations)

Soil Samples		AUS-A11N-002		AUS-A11N-004		AUS-A11N-007		AUS-A11N-008		AUS-A11N-011		AUS-A11N-013		AUS-A11N-016		AUS-A11N-017		AUS-A11N-018				AUS-A11N-020				AUS-A11N-021				AUS-A11N-022	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**8 ft**	**CE**	**0 - 0.5 ft**	**CE**	**8 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**3 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG			ND		ND				--				ND						ND								ND			
ALL SVOC	UG/KG					ND				--				--				--								--					
ALL EXPLOSIVES	UG/KG	ND				ND		ND		ND		ND		ND		ND		ND				ND		ND		ND				ND	
cPAH	UG/KG					ND				ND				ND				ND								ND					
Mammal TEQ	NG/KG																														
Bird TEQ	NG/KG																														
1,2,3,4,6,7,8-HpCDD	NG/KG																														
1,2,3,4,6,7,8-HpCDF	NG/KG																														
1,2,3,4,7,8-HxCDF	NG/KG																														
2,3,7,8-TCDF	NG/KG																														
2-METHYLNAPHTHALENE	UG/KG					ND				ND				ND				ND								300					
ACETONE	UG/KG			ND		ND				23				ND						ND								ND			
ALUMINUM	MG/KG	9640	B E			9440	B E	3130	E	6490	E	7050	E	8410	E	8110	E	7820	E			7920	E	8850	E	6570	E			5430	E
ANTIMONY	MG/KG	ND				ND		ND		ND		ND		ND		ND		ND				ND		ND		0.26				ND	
ARSENIC	MG/KG	4.9	H			8.6	H	3.3	H	3.8	H	10.1	E H	8	H	7.8	H	6.6	H			5.9	H	5.9	H	6.3	H			4	H
BARIUM	MG/KG	95.6				102		145		119		199		107		117		88.1				83.1		135		83.8				78.9	
BERYLLIUM	MG/KG	ND				ND		ND		ND		0.74	B	ND		ND		ND				ND		ND		ND				ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					ND				140				45				220								270					
BORON	MG/KG	ND				2.4	E	ND		2.2	E	3.7	E	2	E	ND		2.7	E			ND		ND		3.7	E			ND	
CADMIUM	MG/KG	0.55	B E			0.57	B E	0.36	B E	ND		0.93	B E	0.62	B E	0.43	B E	0.34	E			0.38	B E	0.37	B E	0.43	B E			ND	
CALCIUM	MG/KG	3010	B			737		942		1450		1020		15600	B	547		2530				7700	B	1190		14400	B			3310	B
CHROMIUM, TOTAL	MG/KG	11.1	E			13.4	E	7.1	E	9.7	E	17.7	B E	11.8	E	12.8	E	13.3	E			12.8	E	16	B E	12.9	E			10.4	E
COBALT	MG/KG	ND				7.3		5.7		5.1		14.2	B	6		ND		ND				6.8		8.7		5.7				ND	
COPPER	MG/KG	4.2				10.4	B	5.1		7.1		11.7	B	10.9	B	9.6	B	10.8	B			9.9	B	13.3	B	11.5	B			9.3	
DIBENZOFURAN	UG/KG					ND				ND				ND				ND								360					
IRON	MG/KG	12500	E			20000	B E	8230	E	10900	E	23600	B E	18300	E	17700	E	16200	E			18600	E	18300	E	18500	E			14600	E
LEAD	MG/KG	19.5				15.9		8.8		10.4		17.9		12.5		11.8		143	B			186	B	9.9		95.8	B			92.3	B
MAGNESIUM	MG/KG	1590				1960	B	1080		1550		1490		10400	B	1520		1740				1670		2440	B	2890	B			1650	
MANGANESE	MG/KG	264	E			662	E	369	E	734	E	1340	E	484	E	634	E	423	E			420	E	491	E	398	E			275	E
MERCURY	MG/KG	ND				0.09		ND		ND		ND		ND		ND		0.1				0.07		0.14		0.07				ND	
NAPHTHALENE	UG/KG					ND				ND				ND				ND								140					
NICKEL	MG/KG	10.5				10.7		9.8		9.5		22.7	B	12		8.2		12.2				13.2	B	22.7	B	14.5	B			11.1	
OCDD	NG/KG																														
OCDF	NG/KG																														
PHENANTHRENE	UG/KG					ND				ND				ND				ND								240					
POTASSIUM	MG/KG	457				556		333		339		379		492		445		547				547		532		1020	B			626	
SELENIUM	MG/KG	ND				0.43		ND		ND		0.8		0.48		1.1	E	0.58				ND		ND		ND				1.2	E
SILVER	MG/KG	0.29				0.41		ND		0.26		0.71	B	ND		0.18		0.37				ND		ND		ND				ND	
SODIUM	MG/KG	ND				245	B	ND		ND		3330	B	180	B	378	B	ND				ND		ND		ND				ND	
THALLIUM	MG/KG	ND				ND		ND		ND		ND		ND		ND		ND				ND		ND		ND				ND	
TOTAL HpCDDs	NG/KG																														
TOTAL HpCDFs	NG/KG																														
TOTAL HxCDDs	NG/KG																														
TOTAL HxCDFs	NG/KG																														
TOTAL TCDFs	NG/KG																														
VANADIUM	MG/KG	17.2				25.2		11.3		17.9		31.1		20.3		24.4		22.7				20.2		22.4		19.5				17.7	
ZINC	MG/KG	33.5				38.6		22.7		24.9		41.9	B	39.3		30.8		40.1				40.1		47.4	B	46.1	B			29	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-48
AUS-A11N - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-16 for Locations)

Soil Samples		AUS-A11N-023		AUS-A11N-024		AUS-A11N-026				AUS-A11N-027		AUS-A11N-028		AUS-A11N-029		AUS-A11N-030				AUS-A11N-031				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**10 ft**	**CE**	**3 ft**	**CE**	**8 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG															ND		ND		ND		ND						
ALL SVOC	UG/KG	ND		--								--		ND														
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND						
cPAH	UG/KG	ND		ND								ND		ND												2.1E+02		
Mammal TEQ	NG/KG															0.005				0.22					8.1E-01	1.6E+01		
Bird TEQ	NG/KG															0.005				0.30					8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG															ND				9.03								
1,2,3,4,6,7,8-HpCDF	NG/KG															ND				1.26								
1,2,3,4,7,8-HxCDF	NG/KG															ND				0.359								
2,3,7,8-TCDF	NG/KG															ND				0.181								
2-METHYLNAPHTHALENE	UG/KG	ND		ND								ND		ND		ND		ND		ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACETONE	UG/KG															ND		ND		ND		ND			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	6020	E	8150	E	8370	E	8920	E	8750	E	14300	B E	5580	E	6920	E	7340	E	7990	E	7620	E	9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	0.5	B	ND		ND		ND		ND		ND		ND		ND		ND		ND				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	7.6	H	9.6	E H	7.7	H	7.4	H	7.2	H	9.5	E H	5.7	H	4.1	H	4.4	H	4.7	H	3.5	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	89		104		108		106		96.2		96.6		90.5		175		83.5		85.8		65.4		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		97								79		ND											9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	2.6	E	3	E	ND		ND		ND		ND		ND		ND		ND		ND		ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		0.37	B E	0.45	B E	0.55	B E	0.6	B E	0.58	B E	0.43	B E	ND		ND		ND		ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	8210	B	3030	B	2380		11700	B	13800	B	1670		1390		990		1490		10800	B	1320		2.9E+03				
CHROMIUM, TOTAL	MG/KG	12.9	E	13.5	E	13.4	E	16.4	B E	12.2	E	17	B E	12.3	E	14.9	B E	11.5	E	13.1	E	12	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	ND		6.9		ND		5.9		6.1		ND		ND		5.9		9.9	B	ND		ND		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	9.3		11.3	B	15	B	41.5	B E	13.6	B	19.9	B	9.9	B	7.1		5.1		9.7	B	4.2		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	ND		ND								ND		ND											2.5E+04	1.6E+05		1.5E+04
IRON	MG/KG	17600	E	19100	E	18300	E	18800	E	18300	E	24500	B E	15400	E	15900	E	18100	E	15300	E	14100	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	16.2		48.7	B	15.6		16.6		16.6		14.2		64	B	9		17		342	B	7.9		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2120	B	2020	B	2150	B	2340	B	3630	B	3050	B	1510		1570		1200		2180	B	1210		1.8E+03				
MANGANESE	MG/KG	474	E	719	E	443	E	410	E	551	E	285	E	480	E	404	E	540	E	121	E	142	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND		0.08		ND		ND		ND		ND		ND		ND		0.08		0.05		ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND								ND		ND		ND		ND		ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	10.6		12.1		12		12.8	B	11.9		11.1		12.7	B	10.9		9		12.5		6.9		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
OCDD	NG/KG															54.9				598								
OCDF	NG/KG															ND				4.76								
PHENANTHRENE	UG/KG	ND		ND								ND		ND		ND		ND		9.1		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	569		713	B	461		574		869	B	808	B	418		335		357		538		391		6.9E+02				
SELENIUM	MG/KG	0.55		0.5		ND		ND		0.95		ND		ND		0.36		0.51		ND		0.18		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		0.37		ND		ND		ND		0.25		ND		ND		0.23		ND		ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND		244	B	718	B	119	B	129	B	153	B	324	B	378	B	ND		427	B	8.5E+01				
THALLIUM	MG/KG	ND		ND		ND		ND		0.24		ND		ND		ND		ND		ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL HpCDDs	NG/KG															0.738				17.6								
TOTAL HpCDFs	NG/KG															ND				3.18								
TOTAL HxCDDs	NG/KG															ND				1.51								
TOTAL HxCDFs	NG/KG															ND				1								
TOTAL TCDFs	NG/KG															ND				0.299								
VANADIUM	MG/KG	22.6		27		22.2		22.5		21.1		24.7		20.6		26.9		25.5		19.3		20.7		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	43.3	B	42.8	B	38.2		49	B	49.5	B	52.6	B	29		21.6		14.7		34.4		14.8		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-49
AUS-A11N - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-16 for Locations)

Sediment Samples		AUS-A11N-001		AUS-A11N-003		AUS-A11N-004		AUS-A11N-005		AUS-A11N-006		AUS-A11N-009		AUS-A11N-010		AUS-A11N-012		AUS-A11N-014		AUS-A11N-015		AUS-A11N-019		AUS-A11N-025		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG					--										--		--												
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND						
cPAH	UG/KG					430.82										450.38	H	ND										2.1E+02		
ALUMINUM	MG/KG	7470		6860		6730		6690		10300		7960		5530		6620		8190		5750		9240		8140		1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	ND		ND		ND		0.41		ND		ND		ND		ND		ND		ND		ND		ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.6	H	4.7	H	23.9	B E H	2.4	H	9.8	E H	4.5	H	7.2	H	3.2	H	5.6	H	2.6	H	5	H	6.2	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	89.3		73.9		324	B	129		474	B	108		89		110		112		97		96.3		96.6		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG					120	E									180	E	ND									1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG					140										160	E	ND									1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG					190	E									130	E	ND									2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG					140	E									70	E	ND									1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG					70	E									170	E	ND									2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND		1.1		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					ND										ND		110									7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND		ND		ND		2.7		ND		ND		ND		2.8		ND		ND		ND				1.8E+04		
CADMIUM	MG/KG	0.58		0.42		1.4	E	0.57		0.6		0.58		0.4		0.29		0.71		0.52		0.35		0.51		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	17500	B	2020	B	3280	B	3970	B	4740	B	3220	B	2040	B	664		3310	B	4590	B	3410	B	4580	B	1.4E+03				
CHROMIUM, TOTAL	MG/KG	10.7		8.7		21.5	B	13.2		14.2		13.7		9.7		11.7		20.5	B	9.5		16.8		11.9		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG					120										180	E	ND									1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	5.1		5		35.3	B	ND		6.2		4.7		5.3		ND		5.1		ND		ND		ND		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	10		3.5		14.4		13.1		14.8		9.5		8.8		11.2		10.6		10.2		36.8	B E	13.9		1.7E+01	3.2E+01	4.1E+03		5.9E+04
FLUORANTHENE	UG/KG					190										240		ND										4.2E+02	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG					ND										75	E	ND									1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	12400		9820		34500	B H	11000		22300	B	14900		13600		10000		18400		11100		20600		17500		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	24.4	B	17.1		106	B E	30.9	B	15.1		22.5		67.6	B E	26.3	B	24.1	B	21.9		568	B E H	35.7	B	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	5920	B	1140		1480		1710		3920	B	2100	B	1190		1380		2030	B	1470		2230	B	2220	B	1.9E+03				
MANGANESE	MG/KG	379		422		2250	B E H	162		584		329		482		130		315		171		349		569		1.0E+03	6.3E+02	1.9E+03		
NICKEL	MG/KG	12		8		24.4	B E	11.8		13.9		13.7		9.5		8.8		14.5		12		21.1	B	10.8		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG					53										ND		ND									2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	488		357		532		723		615		661		364		504		679		628		1050		872		1.4E+03				
PYRENE	UG/KG					180										250	E	ND									2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.2		ND		2.1	B	ND		1.4	B	ND		0.89	B	0.82	B	ND		ND		0.51		1.1	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.24		0.27		1		ND		0.24		ND		ND		ND		ND		ND		ND		ND		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		241		206		ND		152		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG											30900												74300						
VANADIUM	MG/KG	19.2		17.3		55.8	B	18.3		25.9		18.8		22.2		17.9		23.5		18.8		24.6		20		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	41.5		22.6		69.4	B	60.6	B	45.1		46.4		29.9		33		66.6	B	48.6		82.2	B	50.4		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-50
AUS-A11N - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-16 for Locations)

Surface Water Samples		AUS-A11N-001-SW		AUS-A11N-005-SW		AUS-A11N-012-SW		AUS-A11N-015-SW		AUS-A11N-019-SW		AUS-A11N-024-TK		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L			ND		--		ND				ND				
ALL SVOC	UG/L	ND		ND		ND		--		ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND		ND		ND		--		ND				
1,3,5-TRINITROBENZENE	UG/L	ND		ND		ND		ND		0.69		ND			3.0E+01	
ALKALINITY, TOTAL (AS CACO3)	MG/L	100		72.8		58.2		210		110		65.3				
ALUMINUM	UG/L	1780	B E	2940	B E	1110	B E	5140	B E	6220	B E	2290	B E	2.0E+02	8.7E+01	
ANTIMONY	UG/L	ND		1.5		ND		ND		ND		ND		6.0E+00	3.0E+01	
BARIUM	UG/L	58.2	B	68.1	B	46.8	B	144	B	165	B	64.8	B	2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	ND		ND		0.1		0.13		ND		ND		5.0E+00	5.3E-01	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L					ND		1.1				ND			3.0E+00	
BORON	UG/L	15.3		35.6		ND		ND		ND		ND			1.0E+03	1.0E+03
CALCIUM	UG/L	34900	B	21100	B	8110	B	64000	B	39300	B	25900	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	1.7		3.8		ND		ND		7.5		ND		1.0E+01	2.1E+02	
COBALT	UG/L	ND		ND		5.7	E	3.9	E	6.3	E	2.5	E	5.0E+01	2.3E+00	
COPPER	UG/L	ND		ND		20.7	B E	8.3		17.7	B E	7.7		1.0E+01	1.2E+01	
IRON	UG/L	1720	B E H	3120	B E H	2910	B E H	6850	B E H	14100	B E H	3010	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	4.7	B	5.9	B	ND		ND		93	B E	12	B	2.0E+00	2.0E+01	
MAGNESIUM	UG/L	5290	B	5670	B	4650	B	15900	B	8510	B	6350	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	44.6		102		1260	B E H	373		779	B	137		5.8E+02	1.0E+03	1.0E+03
NICKEL	UG/L	ND		ND		18.4	B	10		14.1	B	ND		1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L					0.53	B			0.55	B			2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	ND		0.11	B	ND		0.16	B	0.057	B	0.29	B	5.0E-02		
POTASSIUM	UG/L	3230	B	452		6620	B	6570	B	7660	B	3420	B	1.6E+03	5.3E+04	
SELENIUM	UG/L	ND		ND		ND		ND		3.7	B	ND		2.7E+00	1.0E+03	1.0E+03
SODIUM	UG/L	ND		7980	B	19100	B	11800	B	3590	B	ND		3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L	12000		10000		550		5800		920		7000				5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L					38.5				35.5						
TOLUENE	UG/L			ND		3		ND				ND			1.1E+02	6.2E+04
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			182	B	184	B	307	B	194	B			7.2E+01		1.0E+03
ZINC	UG/L	ND		21.8	B	61.9	B	54.5	B	97.7	B	ND		2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-51
AUS-A11P - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-17 for Locations)

Soil Samples		AUS-A11A-002				AUS-A11A-004-SL		AUS-A11P-001				AUS-A11P-002				AUS-A11P-003		AUS-A11P-006		AUS-A11P-007		AUS-A11P-008				AUS-A11P-009				AUS-A11P-011		AUS-A11P-012	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG			ND		ND				--														ND				ND					
ALL SVOC	UG/KG	--				--		--														--				ND							
ALL EXPLOSIVES	UG/KG	ND				ND		ND				ND		ND		ND		ND		ND		ND				ND				ND		ND	
cPAH	UG/KG	ND				1058.99	H	558.26	H													ND				ND							
Mammal TEQ	NG/KG																																
Bird TEQ	NG/KG																																
1,2,3,4,6,7,8-HpCDD	NG/KG																																
1,2,3,4,6,7,8-HpCDF	NG/KG																																
1,2,3,4,7,8-HxCDF	NG/KG																																
1,2,3,6,7,8-HxCDD	NG/KG																																
1,2,3,6,7,8-HxCDF	NG/KG																																
1,2,3,7,8,9-HxCDD	NG/KG																																
1,2,3,7,8-PeCDD	NG/KG																																
1,2,3,7,8-PeCDF	NG/KG																																
2,3,4,7,8-PeCDF	NG/KG																																
2,3,7,8-TCDF	NG/KG																																
2-METHYLNAPHTHALENE	UG/KG	52				ND		170														ND				ND							
ACENAPHTHYLENE	UG/KG	ND				ND		ND														ND				ND							
ALUMINUM	MG/KG	5180	E			24200	B E	9390	B E			16400	B E	18000	B E	15800	B E	13500	B E	19000	B E	14600	B E			13000	B E			14400	B E	14500	B E
ANTHRACENE	UG/KG	ND				120		54														ND				ND							
ANTIMONY	MG/KG	ND				ND		0.38				0.21		0.42		0.39		0.23		0.52	B	0.41				ND				0.27		0.44	B
ARSENIC	MG/KG	4.1	H			12.8	E H	6.8	H			10.4	E H	9.2	E H	7.9	H	30.8	B E H W1	14	B E H	9.5	E H			7.1	H			11.5	E H	13.2	E H
BARIUM	MG/KG	42.9				125		88.2				164		239	B	109		225		92.1		136				91.7				108		100	
BENZO(A)ANTHRACENE	UG/KG	ND				660		150														ND				ND							
BENZO(A)PYRENE	UG/KG	ND				600	H	230	H													ND				ND							
BENZO(B)FLUORANTHENE	UG/KG	ND				750		340														ND				ND							
BENZO(G,H,I)PERYLENE	UG/KG	ND				550		480														ND				ND							
BENZO(K)FLUORANTHENE	UG/KG	ND				620		100														ND				ND							
BENZYL BUTYL PHTHALATE	UG/KG	ND				1700	E																										
BERYLLIUM	MG/KG	ND				ND		0.49				0.6	B	0.86	B	0.5	B	0.64	B	0.53	B	0.62	B			0.43				0.64	B	0.63	B
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	1400	E			120		4400	E													54				ND							
BORON	MG/KG	6	B E			7.7	B E	7.6	B E			0.58	E	ND		ND		2.6	E	ND		ND				ND				ND		ND	
CADMIUM	MG/KG	0.89	B E			1.3	B E	ND				ND		ND		ND		ND		ND		ND				ND				ND		ND	
CALCIUM	MG/KG	136000	B			5110	B	37700	B			950		1030				8700	B	2090		2280				2070				2000		2570	
CARBAZOLE	UG/KG	ND				100		ND														ND				ND							
CHROMIUM, TOTAL	MG/KG	6.4	E			27.5	B E	13.7	E			20.4	B E	24.8	B E	18.4	B E	17.1	B E	23.8	B E	18.2	B E			15.7	B E			18.4	B E	21.2	B E
CHRYSENE	UG/KG	ND				790		260														ND				ND							
COBALT	MG/KG	3.3				9.8	B	6.5				10.8	B	11.5	B	6.9		11.7	B	7.9		10.2	B			6.3				7.9		7.3	
COPPER	MG/KG	4.6				70.5	B E	13.3	B			15.9	B	16.2	B	15.4	B	14.4	B	23.3	B	12.4	B			11.4	B			12.2	B	13	B
CYANIDE	MG/KG																																
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				260	H	ND														ND				ND							
DIBENZOFURAN	UG/KG	ND				ND		65														ND				ND							
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND		ND														ND				ND							
FLUORANTHENE	UG/KG	ND				950		120														ND				ND							
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				510		230														ND				ND							
IRON	MG/KG	11900	E			43300	B E H	15400	E			24400	B E	29000	B E	21100	B E	20200	B E	31400	B E H	21800	B E			17800	E			23500	B E	24800	B E
LEAD	MG/KG	8.5				89.7	B	41	B			17.1		9.7		13.7		26.2	B	19.9		15.7				14				17.6		18.8	
MAGNESIUM	MG/KG	79700	B			5640	B	20000	B			2970	B	2850	B	3110	B	5540	B	4100	B	3070	B			2810	B			3000	B	2770	B
MANGANESE	MG/KG	612	E			462	E	477	E			1210	E	834	E	472	E	1800	E	527	E	1270	E			589	E			888	E	730	E
MERCURY	MG/KG	ND				0.12		0.8	B E			0.01		0.021		0.021		0.065		0.018		0.034				0.021				0.024		0.02	
NAPHTHALENE	UG/KG	ND				ND		84														ND				ND							
NICKEL	MG/KG	6.5				23.1	B	14	B			15.5	B	17	B	12.8	B	12.5		15.4	B	10.8				10.7				10.4		13.4	B
OCDD	NG/KG																																
OCDF	NG/KG																																
PCB (TOTAL)	UG/KG																																
PCB-1260 (AROCHLOR 1260)	UG/KG																																
PHENANTHRENE	UG/KG	49				380		130														ND				ND							
POTASSIUM	MG/KG	425				1300	B	862	B			925	B	836	B	1130	B	873	B	1250	B	822	B			802	B			747	B	763	B
PYRENE	UG/KG	ND				990		250														ND				ND							
SELENIUM	MG/KG	0.44				ND		ND				ND		ND		ND		0.52		0.62		0.77				0.6				0.75		0.45	
SILVER	MG/KG	ND				0.82	B	ND				ND		ND		ND		ND		ND		ND				ND				ND		ND	
SODIUM	MG/KG	ND				ND		60.1				62.2		92.4	B	47.1		70.1		45.9		49.3				51.8				50.6		53.6	
STYRENE	UG/KG	ND				ND				38														ND				ND					
TETRACHLOROETHYLENE(PCE)	UG/KG					ND				2														ND				ND					
THALLIUM	MG/KG	ND				ND		ND				ND		ND		ND		0.69	B	ND		ND				ND				ND		ND	
TOTAL HpCDDs	NG/KG																																
TOTAL HpCDFs	NG/KG																																
TOTAL HxCDDs	NG/KG																																
TOTAL HxCDFs	NG/KG																																
TOTAL PeCDDs	NG/KG																																
TOTAL PeCDFs	NG/KG																																
TOTAL TCDDs	NG/KG																																
TOTAL TCDFs	NG/KG																																
VANADIUM	MG/KG	13				42.4	B	24.6				36.9	B	40.6	B	30.4		33	B	44	B	36	B			28.6				39.7	B	41.8	B
ZINC	MG/KG	27.8				147	B E	85.2	B			83.6	B	54.2	B	53.3	B	858	B E	109	B	45.8	B			42.1	B			44.2	B	45	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-51
AUS-A11P - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-17 for Locations)

Soil Samples		AUS-A11P-013		AUS-A11P-014		AUS-A11P-015		AUS-A11P-016		AUS-A11P-017		AUS-A11P-018		AUS-A11P-022		AUS-A11P-024		AUS-A11P-028		AUS-A11P-031		AUS-A11P-033		AUS-A11P-034		AUS-A11P-035		AUS-A11P-037				AUS-A11P-040	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG											ND														ND				ND			
ALL SVOC	UG/KG											--						ND				--				ND		--					
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND				ND	
cPAH	UG/KG											450.493	H					ND				1283.2	H			ND		435.545	H				
Mammal TEQ	NG/KG																					0.96	E										
Bird TEQ	NG/KG																					1.28	E										
1,2,3,4,6,7,8-HpCDD	NG/KG																					20.8											
1,2,3,4,6,7,8-HpCDF	NG/KG																					1.68											
1,2,3,4,7,8-HxCDF	NG/KG																					0.258											
1,2,3,6,7,8-HxCDD	NG/KG																					0.865											
1,2,3,6,7,8-HxCDF	NG/KG																					0.232											
1,2,3,7,8,9-HxCDD	NG/KG																					0.677											
1,2,3,7,8-PeCDD	NG/KG																					0.258											
1,2,3,7,8-PeCDF	NG/KG																					0.201											
2,3,4,7,8-PeCDF	NG/KG																					0.276											
2,3,7,8-TCDF	NG/KG																					0.483											
2-METHYLNAPHTHALENE	UG/KG											100						ND				ND				ND		ND					
ACENAPHTHYLENE	UG/KG											ND						ND				70				ND		ND					
ALUMINUM	MG/KG	12400	B E	14200	B E	12200	B E	10900	B E	11000	B E	9750	B E	16200	B E	12600	B E	16400	B E	14400	B E					12300	B E	11100	B E			20200	B E
ANTHRACENE	UG/KG											190						ND				130				ND		ND					
ANTIMONY	MG/KG	0.26		0.37		ND		ND		0.35		0.39		0.3		0.32		0.25		0.22						ND		ND				0.44	B
ARSENIC	MG/KG	6.7	H	11.5	E H	8.3	H	8.7	H	8	H	8.3	H	8.3	H	6.2	H	9.1	E H	9.3	E H					9.1	E H	6.4	H			12.3	E H
BARIUM	MG/KG	137		98.9		100		96.3		75.2		97.7		89.8		95.7		155		85.3						96.7		105				179	
BENZO(A)ANTHRACENE	UG/KG											ND						ND				690				ND		ND					
BENZO(A)PYRENE	UG/KG											ND						ND				760	H			ND		ND					
BENZO(B)FLUORANTHENE	UG/KG											ND						ND				1600	E			ND		44					
BENZO(G,H,I)PERYLENE	UG/KG											ND						ND				420				ND		47					
BENZO(K)FLUORANTHENE	UG/KG											ND						ND				1500				ND		ND					
BENZYL BUTYL PHTHALATE	UG/KG																																
BERYLLIUM	MG/KG	0.47		0.76	B	0.62	B	0.44		0.44		0.61	B	0.57	B	0.71	B	0.66	B	0.43						0.56	B	0.56	B			0.82	B
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG											200						ND				100				ND		ND					
BORON	MG/KG	ND		ND		ND		3.3	E	2.6	E	5.5	B E	3.6	E	2	E	ND		2.3	E					0.6	E	ND				2.8	E
CADMIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND						ND		ND				ND	
CALCIUM	MG/KG	2450		2490		4530	B	75600	B	66400	B	64600	B	9070	B	1470		2900	B	17000	B					15600	B	62600	B			28300	B
CARBAZOLE	UG/KG											ND						ND				160				ND		ND					
CHROMIUM, TOTAL	MG/KG	16.4	B E	24.3	B E	16.5	B E	14.9	B E	15.2	B E	14.5	B E	19.9	B E	18	B E	21.9	B E	17.3	B E					15.6	B E	15.1	B E			29.5	B E
CHRYSENE	UG/KG											43						ND				1200				ND		ND					
COBALT	MG/KG	5.3		7.3		7.8		7.2		6.3		9.9	B	6.7		13.2	B	8		6.7						8.6		6				10	B
COPPER	MG/KG	30.9	B	12.4	B	11	B	15	B	15.3	B	13.8	B	14.4	B	8.5		16.8	B	11.7	B					8.6		11.2	B			18.7	B
CYANIDE	MG/KG											0.26																					
DIBENZ(A,H)ANTHRACENE	UG/KG											ND						ND				230	H			ND		ND					
DIBENZOFURAN	UG/KG											180						ND				ND				ND		ND					
DI-N-BUTYL PHTHALATE	UG/KG											44						ND				ND				ND		270					
FLUORANTHENE	UG/KG											ND						ND				1900				ND		ND					
INDENO(1,2,3-C,D)PYRENE	UG/KG											ND						ND				480				ND		ND					
IRON	MG/KG	16800	E	24400	B E	19100	E	18300	E	19100	E	18700	E	22400	B E	15600	E	24000	B E	19400	E					17700	E	16400	E			29800	B E
LEAD	MG/KG	14.8		14.4		22		20.7		21.4		14.1		17.7		16.1		17.5		13.5						16		12.3				23.6	
MAGNESIUM	MG/KG	2810	B	3220	B	3530	B	6270	B	6950	B	7640	B	6820	B	1730		3240	B	11500	B					10600	B	8420	B			4530	B
MANGANESE	MG/KG	351	E	653	E	742	E	408	E	362	E	515	E	371	E	1820	E	330	E	783	E					1120	E	393	E			927	E
MERCURY	MG/KG	0.015		0.025		0.034		0.031		0.031		0.021		0.049		0.041		0.026		1.3	B E W2					0.036		0.024				0.031	
NAPHTHALENE	UG/KG											44						ND				ND				ND		ND					
NICKEL	MG/KG	13.6	B	12.1		10.2		13.5	B	13.4	B	17	B	12.3		18.5	B	16.9	B	12.1						10.5		14.5	B			16.5	B
OCDD	NG/KG																					791											
OCDF	NG/KG																					2.24											
PCB (TOTAL)	UG/KG																					18											
PCB-1260 (AROCHLOR 1260)	UG/KG																					18											
PHENANTHRENE	UG/KG											190						ND				910				ND		ND					
POTASSIUM	MG/KG	779	B	814	B	711	B	943	B	994	B	1060	B	1230	B	738	B	876	B	870	B					637		765	B			1400	B
PYRENE	UG/KG											ND						ND				2000				ND		ND					
SELENIUM	MG/KG	ND		0.6		0.44		ND		ND		ND		0.59		ND		0.39		ND						1.5	E	ND				0.38	
SILVER	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND						ND		ND				ND	
SODIUM	MG/KG	63.7		48.2		45.7		106	B	82.2		108	B	53.8		64.4		84.7		52.7						65.8		69.6				75.8	
STYRENE	UG/KG											ND														ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG											ND														ND				ND			
THALLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		0.58	B	ND		0.64	B					ND		ND				ND	
TOTAL HpCDDs	NG/KG																					44.7											
TOTAL HpCDFs	NG/KG																					3.21											
TOTAL HxCDDs	NG/KG																					6.17											
TOTAL HxCDFs	NG/KG																					2.95											
TOTAL PeCDDs	NG/KG																					1.19											
TOTAL PeCDFs	NG/KG																					1.75											
TOTAL TCDDs	NG/KG																					0.401											
TOTAL TCDFs	NG/KG																					0.321											
VANADIUM	MG/KG	26.7		40.9	B	32.7	B	24.7		23.8		23.1		34.9	B	30.7		38.2	B	30.5						32.8	B	25.3				51.2	B E
ZINC	MG/KG	49.2	B	42	B	54.1	B	64.3	B	69.3	B	57.7	B	58.7	B	32.4		61.5	B	45.1	B					36.2		41.9	B			68	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-51
AUS-A11P - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-17 for Locations)

Soil Samples		AUS-A11P-041		AUS-A11P-W01								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	Units	0 - 0.5 ft	CE	0 - 0.5 ft	CE	1 ft	CE	5 ft	CE	13 ft	CE	B	E	H	W1	W2
ALL VOC	UG/KG					ND		ND		ND						
ALL SVOC	UG/KG			ND				ND		--						
ALL EXPLOSIVES	UG/KG	ND		ND				ND		ND						
cPAH	UG/KG			ND				ND		ND				2.1E+02		
Mammal TEQ	NG/KG												8.1E-01	1.6E+01		
Bird TEQ	NG/KG												8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG															
1,2,3,4,6,7,8-HpCDF	NG/KG															
1,2,3,4,7,8-HxCDF	NG/KG															
1,2,3,6,7,8-HxCDD	NG/KG															
1,2,3,6,7,8-HxCDF	NG/KG															
1,2,3,7,8,9-HxCDD	NG/KG															
1,2,3,7,8-PeCDD	NG/KG															
1,2,3,7,8-PeCDF	NG/KG															
2,3,4,7,8-PeCDF	NG/KG															
2,3,7,8-TCDF	NG/KG															
2-METHYLNAPHTHALENE	UG/KG			ND				ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG			ND				ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	12700	B E	6900	E			5850	E	4930	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG			ND				ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.72	B	ND				ND		ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	14.6	B E H	7.7	H			3.9	H	8.6	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	104		82.7				89.4		148		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG			ND				ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG			ND				ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG			ND				ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG			ND				ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG			ND				ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG												2.4E+02	9.3E+05	9.3E+05	9.3E+05
BERYLLIUM	MG/KG	0.59	B	ND				ND		ND		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG			ND				ND		75			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	2.3	E	ND				ND		ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		ND				ND		ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3090	B	1860				1090		1350		2.9E+03				
CARBAZOLE	UG/KG			ND				ND		ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	16.1	B E	10.7	E			11.8	E	10.6	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG			ND				ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	11.1	B	ND				6.9		11.6	B	9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	9.9	B	7.5				7.7		7.2		9.4E+00	3.1E+01	4.1E+03		5.9E+04
CYANIDE	MG/KG			ND								5.6E-01	9.0E-01	1.2E+03		4.0E+01
DIBENZ(A,H)ANTHRACENE	UG/KG			ND				ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG			ND				ND		ND			2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG			ND				ND		ND			7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG			ND				ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG			ND				ND		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	17400	E	13800	E			11300	E	20000	B E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	17.9		12.8				9.1		12		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2110	B	1960	B			1460		1240		1.8E+03				
MANGANESE	MG/KG	1170	E	564	E			510	E	1180	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.047		ND				ND		ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG			ND				ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	9.8		6.8				15.6	B	20	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
OCDD	NG/KG															
OCDF	NG/KG															
PCB (TOTAL)	UG/KG												4.0E+04	7.4E+02		
PCB-1260 (AROCHLOR 1260)	UG/KG												3.4E+01	7.4E+02		
PHENANTHRENE	UG/KG			ND				ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1190	B	408				200		254		6.9E+02				
PYRENE	UG/KG			ND				ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.58		ND				ND		ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		ND				ND		0.6		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	35.4		ND				ND		ND		8.5E+01				
STYRENE	UG/KG					ND		ND		ND			3.0E+05	4.3E+05	4.0E+03	4.0E+03
TETRACHLOROETHYLENE(PCE)	UG/KG					ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	0.71	B	0.16				ND		0.16		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL HpCDDs	NG/KG															
TOTAL HpCDFs	NG/KG															
TOTAL HxCDDs	NG/KG															
TOTAL HxCDFs	NG/KG															
TOTAL PeCDDs	NG/KG															
TOTAL PeCDFs	NG/KG															
TOTAL TCDDs	NG/KG															
TOTAL TCDFs	NG/KG															
VANADIUM	MG/KG	33.7	B	22.1				21.7		16.9		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	61.9	B	25.7				20.5		30.5		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-52
AUS-A11P - Detections of Constituents in PA/SI Sewer Line Samples
(see Figure 5-17 for Locations)

Sewer Line Samples		AUS-A11P-027-SL (Sewer Line)		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG							
ALL SVOC	UG/KG	--						
ALL EXPLOSIVES	UG/KG	--						
cPAH	UG/KG	470.84	H			2.1E+02		
2,4-DINITROTOLUENE	UG/KG	530	W1 W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG	ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG	ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	28400	B E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	1.8	B	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	26.8	B E H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	386	B	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	120			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	150			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	160			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	120			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	170			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.9	B	4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	57000	E		9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	32	B E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	3.1	B E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	6980	B	2.9E+03				
CARBAZOLE	UG/KG	ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	61.2	B E W1 W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	140			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	70.8	B E	9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	187	B E	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND			2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	5900	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06
DIETHYL PHTHALATE	UG/KG	310			1.0E+05	2.0E+06		4.7E+05
DIMETHYL PHTHALATE	UG/KG	72			2.0E+05	1.3E+06		3.8E+05
FLUORANTHENE	UG/KG	170			1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	110			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	42600	B E H	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	146	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	3760	B	1.8E+03				
MANGANESE	MG/KG	15200	B E H	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.17	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	74.6	B E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG	300			2.0E+04	3.5E+05	1.0E+03	1.0E+03
PHENANTHRENE	UG/KG	130			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	962	B	6.9E+02				
PYRENE	UG/KG	190			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	22.5	B E W1 W2	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	174	B	8.5E+01				
THALLIUM	MG/KG	ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	47.4	B E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	1100	B E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-53
AUS-A11P - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-17 for Locations)

Sediment Samples		AUS-A11A-003		AUS-A11P-005		AUS-A11P-010		AUS-A11P-019		AUS-A11P-020		AUS-A11P-021		AUS-A11P-023		AUS-A11P-025		AUS-A11P-026	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL SVOC	UG/KG	ND				--		--		--								ND	
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND	
cPAH	UG/KG	ND				ND		ND		600.664								ND	
4-METHYLPHENOL (P-CRESOL)	UG/KG					ND		ND		ND								ND	
ALUMINUM	MG/KG	10300		13000	B	11500	B	17200	B	15000	B	13800	B	14500	B	22400	B	14300	B
ANTIMONY	MG/KG	ND		0.46		ND		ND		0.33		ND		ND		1		ND	
ARSENIC	MG/KG	7	H	8	H	6.3	H	5.3	H	5.1	H	7.4	H	8.5	H	16.7	B E H	5.5	H
BARIUM	MG/KG	116		84.1		105		171		94.8		131		84		239	B	48.5	
BENZO(A)ANTHRACENE	UG/KG	ND				ND		ND		ND								ND	
BENZO(B)FLUORANTHENE	UG/KG	ND				ND		ND		ND								ND	
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND		ND		130	E							ND	
BERYLLIUM	MG/KG	ND		0.55		0.36		0.8		0.61		0.72		0.51		2.1	B	1.3	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				79		300		ND								ND	
BORON	MG/KG	2.2		3.1		ND		3.3		ND		2.5		2.5		4		0.85	
CADMIUM	MG/KG	0.37		ND		ND		ND		ND		ND		ND		ND		ND	
CALCIUM	MG/KG	2010	B	1900	B	3150	B	10600	B	4470	B	5980	B	12300	B	4770	B	1830	B
CHROMIUM, TOTAL	MG/KG	17.7	B	17.2		14.8		24.2	B	20.5	B	19.4	B	18.6	B	26.5	B	17.6	B
CHRYSENE	UG/KG	ND				ND		ND		64								ND	
COBALT	MG/KG	ND		6.5		5		8.5		6.2		8.1		7.5		50.4	B E	9.5	B
COPPER	MG/KG	11.3		11.3		11.7		19.9	B	14.8		15.4		13.4		22.8	B	10.7	
FLUORANTHENE	UG/KG	ND				ND		ND		ND								ND	
IRON	MG/KG	19400		18600		13400		22300	B	16700		21100	B	20200		31000	B H	14900	
LEAD	MG/KG	17.9		20.3		13.2		18.8		24.6	B	16.7		23.6		25.2	B	17.4	
MAGNESIUM	MG/KG	2390	B	2100	B	2760	B	5490	B	2910	B	5080	B	8630	B	3770	B	1900	
MANGANESE	MG/KG	510		739	E	155		292		123		287		441		8560	B E H	161	
MERCURY	MG/KG	ND		1.6	B E W2	0.025		0.035		0.04		0.022		0.037		0.049		0.033	
NICKEL	MG/KG	13.1		8.2		11.5		21	B	15.6		16		13.8		64.5	B E	18.5	B
POTASSIUM	MG/KG	595		905		662		1140		990		964		1070		1160		680	
PYRENE	UG/KG	ND				ND		ND		ND								ND	
SELENIUM	MG/KG	ND		0.78	B	ND		ND		0.52		ND		ND		3.2	B	0.42	
SODIUM	MG/KG	ND		57.6		104		83.4		71.8		62		83.8		274		151	
THALLIUM	MG/KG	ND		0.83	B	ND		ND		ND		0.58	B	ND		3.2	B W2	ND	
TOTAL ORGANIC CARBON	MG/KG																	15300	
VANADIUM	MG/KG	29.1	B	37.3	B	23.1		39.5	B	32.7	B	33.8	B	32.4	B	57.5	B	32	B
ZINC	MG/KG	47.9		45.7		65.3	B	71.7	B	236	B E	59.2	B	59.5	B	111	B	42.2	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-53
AUS-A11P - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-17 for Locations)

Sediment Samples		AUS-A11P-029		AUS-A11P-030		AUS-A11P-032		AUS-A11P-036		AUS-A11P-038		AUS-A11P-039		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--		ND				ND		--		--						
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND						
cPAH	UG/KG	501.1		ND				ND		ND		ND				2.1E+02		
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		ND				ND		160		ND			4.0E+03	3.1E+05		2.4E+02
ALUMINUM	MG/KG	12900	B	20900	B	16200	B	15300	B	15000	B	18200	B	1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	0.57		ND		0.43		ND		ND		0.31		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	8.8	H	9.7	H	4	H	7.2	H	5.4	H	12.8	B E H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	94.1		153		118		182		108		143		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	63		ND				ND		ND		ND			1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(B)FLUORANTHENE	UG/KG	94	E	ND				ND		ND		ND			2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND				ND		ND		ND			1.6E+01	6.1E+07		3.2E+07
BERYLLIUM	MG/KG	0.44		0.84		0.52		0.58		0.53		0.81		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	54		ND				ND		840	E	910	E		7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND		ND		2.5		ND		ND				1.8E+04		
CADMIUM	MG/KG	ND		ND		ND		ND		ND		ND		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2590	B	4980	B	3140	B	1670	B	2860	B	6490	B	1.4E+03				
CHROMIUM, TOTAL	MG/KG	17.7	B	27.4	B	20.1	B	20	B	19	B	23.6	B	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	100		ND				ND		ND		ND			1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	7.8		8.5		5.3		6.5		7.1		11	B	9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	12.7		25.9	B	15.1		16.8		66.8	B E	20.2	B	1.7E+01	3.2E+01	4.1E+03		5.9E+04
FLUORANTHENE	UG/KG	64		ND				ND		ND		ND			4.2E+02	2.2E+06	4.3E+06	4.3E+06
IRON	MG/KG	20600		33200	B H	16300		21400	B	18500		26600	B	2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	13.9		21.2		30.3	B	13.3		48.1	B E	42.9	B E	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	2640	B	3840	B	3210	B	3520	B	2470	B	4790	B	1.9E+03				
MANGANESE	MG/KG	317		288		301		199		310		956	E	1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.024		0.045		0.36	B E	0.021		0.057		0.054		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	15.1		20.8	B	13.8		16.2		13.9		17.6	B	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	621		1540	B	1060		922		756		1330		1.4E+03				
PYRENE	UG/KG	92		ND				ND		ND		ND			2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	ND		0.71	B	ND		ND		ND		ND		6.4E-01		5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	69.7		83.7		58.8		121		65.8		120		1.5E+03				
THALLIUM	MG/KG	ND		ND		ND		ND		ND		ND		3.1E-01		6.7E+00		2.6E+00
TOTAL ORGANIC CARBON	MG/KG							7990										
VANADIUM	MG/KG	33.3	B	41.3	B	25.8		32.8	B	33	B	43.6	B	2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	49.7		229	B E	63.7	B	58.4	B	81.7	B	103	B	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-54
AUS-A11P - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-17 for Locations)

Surface Water Samples		AUS-A11P-004-SW		AUS-A11P-019-SW		AUS-A11P-029-SW		AUS-A11P-036-SW		AUS-A11P-038-SW		AUS-A11P-039-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L			ND				ND								
ALL SVOC	UG/L	ND		ND		ND		--		ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND		ND		ND		ND		ND				
ALUMINUM	UG/L	6570	B E	695	B E	662	B E	2870	B E	2030	B E	669	B E	2.0E+02	8.7E+01	
ARSENIC	UG/L	12.2	B	ND		9.4		5.4		ND		14.6	B	1.0E+01	1.9E+02	
BARIUM	UG/L	79.7	B	70.6	B	77.8	B	68	B	61.9	B	69.1	B	2.3E+01	5.0E+03	5.0E+03
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L			ND		ND		1.3		ND		ND			3.0E+00	
BORON	UG/L	29.8		21.9		23.4		12.4		25.1		33.6			1.0E+03	1.0E+03
CALCIUM	UG/L	3900		33300	B	5270		10400	B	26600	B	56200	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	7.2		ND		ND		5.5		3.8		ND		1.0E+01	2.1E+02	
COPPER	UG/L	ND		ND		ND		1.3		31.9	B E	ND		1.0E+01	1.2E+01	
IRON	UG/L	11200	B E H	1790	B E H	3760	B E H	4120	B E H	6490	B E H	2650	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	8.8	B	ND		ND		ND		3.6	B	ND		2.0E+00	2.0E+01	
MAGNESIUM	UG/L	3340	B	8270	B	3200	B	8580	B	9060	B	22200	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	2410	B E H	142		273		121		941	B	2250	B E H	5.8E+02	1.0E+03	1.0E+03
NICKEL	UG/L	ND		2		3.7		3.9		4.9		3.5		1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L			0.3	B	0.31	B	0.32	B	0.16		0.3	B	2.6E-01		
PHOSPHORUS, TOTAL (AS P)	MG/L					0.14	B			0.38	B			5.0E-02		
POTASSIUM	UG/L	2600	B	2400	B	1040		2220	B	1910	B	3210	B	1.6E+03	5.3E+04	
SELENIUM	UG/L	4.2	B	ND		ND		ND		3.2	B	ND		2.7E+00	1.0E+03	1.0E+03
SODIUM	UG/L	2970		3230	B	2920		4180	B	3750	B	5480	B	3.2E+03	6.8E+05	
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			147	B	59.5				155	B			7.2E+01		1.0E+03
VANADIUM	UG/L	18.4		4.7		3.3		8.5		6.1		4		5.0E+01	1.9E+01	
ZINC	UG/L	ND		ND		ND		10.7		13.7		4.6		2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-55
AUS-A11P - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-17 for Locations)

Groundwater Samples		AUS-A11P-W01-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	--		
ALL SVOC	UG/L	--		
ALL EXPLOSIVES	UG/L	ND		
ALKALINITY, TOTAL (AS CACO3)	MG/L	337		
ALUMINUM	UG/L	5730	C1	3.5E+03
BARIUM	UG/L	125		2.0E+03
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	1.2		6.0E+00
BORON	UG/L	12.3		2.0E+03
CALCIUM	UG/L	91300		
CHROMIUM, TOTAL	UG/L	5.6		1.0E+02
CIS-1,2-DICHLOROETHYLENE	UG/L	36		7.0E+01
COPPER	UG/L	2.8		6.5E+02
IRON	UG/L	5490	C1	5.0E+03
LEAD	UG/L	2.9		7.5E+00
MAGNESIUM	UG/L	40200		
MANGANESE	UG/L	157	C1	1.5E+02
NICKEL	UG/L	7.1		1.0E+02
NITROGEN, NITRATE-NITRITE	MG/L	0.27		1.0E+01
PHOSPHORUS, TOTAL (AS P)	MG/L	0.19		
POTASSIUM	UG/L	933		
SODIUM	UG/L	30600		
SULFATE (AS SO4)	UG/L	80000		
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L	160		
TETRACHLOROETHYLENE(PCE)	UG/L	4		5.0E+00
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	497		
TRICHLOROETHYLENE (TCE)	UG/L	4		5.0E+00
VANADIUM	UG/L	8.7		4.9E+01
ZINC	UG/L	14.8		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-56
AUS-A11S - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-18 for Locations)

Soil Samples		AUS-A11S-004		AUS-A11S-005		AUS-A11S-014				AUS-A11S-015		AUS-A11S-017				AUS-A11S-018				AUS-A11S-020			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG							ND		ND				ND				ND				--	
ALL SVOC	UG/KG											ND				ND				ND			
ALL EXPLOSIVES	UG/KG	ND		ND								ND				ND				ND			
cPAH	UG/KG											ND				ND				ND			
1,1,2-TRICHLOROETHANE	UG/KG							ND		ND				ND				ND				ND	
1-METHYLNAPHTHALENE	UG/KG																						
2,4-DINITROTOLUENE	UG/KG	ND		ND								ND				ND				ND			
2-METHYLNAPHTHALENE	UG/KG											ND				ND				ND			
ACENAPHTHYLENE	UG/KG											ND				ND				ND			
ALUMINUM	MG/KG	9890	B E	9490	B E	3370	E			3390	E	13400	B E			17500	B E			14600	B E		
ANTHRACENE	UG/KG											ND				ND				ND			
ANTIMONY	MG/KG	ND		ND		2.6	B			ND		0.54	B			0.29				0.29			
ARSENIC	MG/KG	8	H	19.1	B E H	6.6	H			5.2	H	13.4	B E H			8.7	H			5.9	H		
BARIUM	MG/KG	79.8				51.7				81.1		75.6				190				137			
BENZO(A)ANTHRACENE	UG/KG											ND				ND				ND			
BENZO(A)PYRENE	UG/KG											ND				ND				ND			
BENZO(B)FLUORANTHENE	UG/KG											ND				ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG											ND				ND				ND			
BENZO(K)FLUORANTHENE	UG/KG											ND				ND				ND			
BERYLLIUM	MG/KG	0.71	B	0.83	B	ND				ND		0.65	B			0.84	B			0.78	B		
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG											ND				ND				ND			
BORON	MG/KG	7.8	B E	0.95	E	ND				6	B E	ND				ND				ND			
CADMIUM	MG/KG	26.8	B E W1 W2	ND		1.6	B E			ND		ND				ND				ND			
CALCIUM	MG/KG	4410	B	1150		203000	B			234000	B	3390	B			1970				2230			
CARBAZOLE	UG/KG											ND				ND				ND			
CHROMIUM, TOTAL	MG/KG	16.7	B E	13.7	E	26.7	B E			12.9	E	19.7	B E			26	B E			26.2	B E		
CHRYSENE	UG/KG											ND				ND				ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG							ND		ND				ND				ND				ND	
COBALT	MG/KG	5.4		48.3	B E	5.6				4.3		5.7				9				7.8			
COPPER	MG/KG	16.4	B	5		23.1	B			12.6	B	9.3				15.7	B			14.7	B		
DIBENZ(A,H)ANTHRACENE	UG/KG											ND				ND				ND			
DIBENZOFURAN	UG/KG											ND				ND				ND			
DIMETHYL PHTHALATE	UG/KG											ND				ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG											ND				ND				ND			
ETHYLBENZENE	UG/KG							ND		ND				ND				ND				ND	
FLUORANTHENE	UG/KG											ND				ND				ND			
FLUORENE	UG/KG											ND				ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG											ND				ND				ND			
IRON	MG/KG	20400	B E	22000	B E	32300	B E H			8730	E	23900	B E			25400	B E			22900	B E		
LEAD	MG/KG	29.1	B	43.5	B	83.7	B			34.5	B	15.5				11.5				16.1			
MAGNESIUM	MG/KG	1800		1260		13000	B			24200	B	3130	B			3280	B			2670	B		
MANGANESE	MG/KG	563	E	8930	B E H	424	E			361	E	455	E			711	E			424	E		
MERCURY	MG/KG	0.63	B E	0.021		0.05				0.049		0.051				0.08				0.02			
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG							ND		ND				ND				ND				ND	
NAPHTHALENE	UG/KG											ND				ND				ND			
NICKEL	MG/KG	12.4		14.6	B	37.9	B E			21.8	B	10.9				24.6	B			17.1	B		
PHENANTHRENE	UG/KG											ND				ND				ND			
POTASSIUM	MG/KG	658		443		735	B			465		751	B			1230	B			669			
PYRENE	UG/KG											ND				ND				ND			
SELENIUM	MG/KG	ND		ND		ND				ND		0.36				ND				ND			
SILVER	MG/KG	ND		ND		ND				ND		ND				ND				ND			
SODIUM	MG/KG	58.6		62		112	B			132	B	66.4				196	B			112	B		
TETRACHLOROETHYLENE(PCE)	UG/KG							ND		ND				ND				ND				2	
THALLIUM	MG/KG	ND		2.9	B E W2	ND				ND		ND				ND				ND			
TOLUENE	UG/KG							ND		ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG							ND		ND				ND				ND				ND	
TRANS-1,2-DICHLOROETHENE	UG/KG							ND		ND				ND				ND				ND	
TRICHLOROETHYLENE (TCE)	UG/KG							ND		ND				ND				ND				ND	
VANADIUM	MG/KG	30.7		57.4	B E	9.6				9.2		43.9	B			43.6	B			34.7	B		
XYLENES, TOTAL	UG/KG							ND		ND				ND				ND				ND	
ZINC	MG/KG	262	B E	22.7		220	B E			88.4	B	47.5	B			61.6	B			45.3	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-56
AUS-A11S - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-18 for Locations)

Soil Samples		AUS-A11S-021				AUS-A11S-027				AUS-A11S-031				AUS-A11S-032		AUS-A11S-033		AUS-A11S-034				AUS-A11S-035			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND				--				ND		ND		ND				--				ND	
ALL SVOC	UG/KG	--				--				--				--		ND		--				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND		ND						ND			
cPAH	UG/KG	1869.24	H			402.18	H			366.844	H			331.06	H	ND		81.5				ND			
1,1,2-TRICHLOROETHANE	UG/KG			ND				ND				ND		ND		ND				ND				ND	
1-METHYLNAPHTHALENE	UG/KG																	1000							
2,4-DINITROTOLUENE	UG/KG	ND				ND				ND				ND		ND						ND			
2-METHYLNAPHTHALENE	UG/KG	500				2400				650				290		ND		2200				60			
ACENAPHTHYLENE	UG/KG	280				ND				ND				ND		ND		500				ND			
ALUMINUM	MG/KG	4310	E			6200	E			12100	B E			20900	B E	13000	B E	5120	E			18800	B E		
ANTHRACENE	UG/KG	130				78				ND				ND		ND		14				ND			
ANTIMONY	MG/KG	0.24				0.53	B			0.26				0.47	B	0.33		0.45	B			ND			
ARSENIC	MG/KG	5.9	H			27.4	B E H			8.1	H			12.7	E H	8.3	H	5.1	H			6.2	H		
BARIUM	MG/KG	45.8				47.3				101				160		236		40.4				91.6			
BENZO(A)ANTHRACENE	UG/KG	820				120				68				91		ND		110				ND			
BENZO(A)PYRENE	UG/KG	1200	H			97				75				91		ND		57				ND			
BENZO(B)FLUORANTHENE	UG/KG	2100	E			100				130				150		ND		78				ND			
BENZO(G,H,I)PERYLENE	UG/KG	720				ND				ND				46		ND		79				ND			
BENZO(K)FLUORANTHENE	UG/KG	730				ND				ND				46		ND		19				ND			
BERYLLIUM	MG/KG	ND				1.7	B			0.76	B			0.94	B	0.81	B	0.73	B			2.8	B		
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				ND				1700	E	ND						ND			
BORON	MG/KG	ND				41.9	B E			14.3	B E			7.9	B E	6.2	B E	24.4	B E			0.98	E		
CADMIUM	MG/KG	ND				1.5	B E			1	B E			ND		ND		2.3	B E			16.5	B E W1 W2		
CALCIUM	MG/KG	164000	B			6830	B			8610	B			18600	B	4430	B	52200	B			14000	B		
CARBAZOLE	UG/KG	ND				69				ND				ND		ND						ND			
CHROMIUM, TOTAL	MG/KG	ND				13.3	E			17.8	B E			28.7	B E	20.8	B E	7.8	E			21.3	B E		
CHRYSENE	UG/KG	940				130				94				100		ND		200				ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND		ND		ND				750	W1 W2			ND	
COBALT	MG/KG	ND				8.7				13.8	B			10.5	B	8		5.3				110	B E		
COPPER	MG/KG	ND				20.7	B			23.3	B			23.5	B	17.9	B	11.6	B			39.5	B E		
DIBENZ(A,H)ANTHRACENE	UG/KG	280	H			ND				ND				ND		ND		ND				ND			
DIBENZOFURAN	UG/KG	130				550				140				88		ND						ND			
DIMETHYL PHTHALATE	UG/KG	ND				ND				ND				ND		ND						ND			
DI-N-BUTYL PHTHALATE	UG/KG	65				ND				ND				150		ND						ND			
ETHYLBENZENE	UG/KG			ND				ND				ND		ND		ND				ND				ND	
FLUORANTHENE	UG/KG	630				120				91				100		ND		170				ND			
FLUORENE	UG/KG	ND				ND				ND				ND		ND		70				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	890				ND				ND				54		ND		ND				ND			
IRON	MG/KG	10300	E			24700	B E			22600	B E			33000	B E H	23700	B E	20200	B E			35900	B E H		
LEAD	MG/KG	ND				67.1	B			27.3	B			20.9		16.6		180	B			13			
MAGNESIUM	MG/KG	54200	B			616				2470	B			10900	B	3420	B	2200	B			8800	B		
MANGANESE	MG/KG	254	E			139	E			658	E			407	E	386	E	233	E			2650	B E H		
MERCURY	MG/KG	5.1	B E W2			1.1	B E W2			0.85	B E			0.027		0.042		0.095				0.027			
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND				ND		ND		ND				ND				ND	
NAPHTHALENE	UG/KG	300				1100				310				140		ND		860				ND			
NICKEL	MG/KG	ND				47	B E			23.6	B			20.2	B	23.8	B	11.3				151	B E W1 W2		
PHENANTHRENE	UG/KG	220				720				280				140		ND		290				ND			
POTASSIUM	MG/KG	ND				750	B			880	B			1350	B	856	B	530				1110	B		
PYRENE	UG/KG	1100				280				160				120		ND		120				42			
SELENIUM	MG/KG	ND				5.2	B E W1			0.55				ND		ND		ND				ND			
SILVER	MG/KG	ND				ND				ND				ND		ND		ND				ND			
SODIUM	MG/KG	ND				136	B			128	B			119	B	98.2	B	106	B			63.4			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND		ND		ND				ND				ND	
THALLIUM	MG/KG	ND				ND				ND				ND		ND		ND				0.76	B		
TOLUENE	UG/KG			ND				19				ND		ND		ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND		ND		ND				790	E W1 W2			ND	
TRANS-1,2-DICHLOROETHENE	UG/KG			ND				ND				ND		ND		ND				6				ND	
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND		ND		ND				580	H W1 W2			ND	
VANADIUM	MG/KG	ND				33.1	B			31.4	B			47.5	B E	33.7	B	18.2				29.2			
XYLENES, TOTAL	UG/KG			ND				ND				ND		ND		ND				ND				ND	
ZINC	MG/KG	98.1	B			223	B E			263	B E			129	B E	81.3	B	442	B E			685	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-56
AUS-A11S - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-18 for Locations)

Soil Samples		AUS-A11S-036		AUS-A11S-037				AUS-A11S-038		AUS-A11S-039				AUS-A11S-040				AUS-A11S-045				AUS-A11S-047	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**1 ft**	**CE**	**1 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG					ND						ND				ND				ND			
ALL SVOC	UG/KG	--		--				ND		--				--				--				--	
ALL EXPLOSIVES	UG/KG	ND						ND		ND				ND				ND				ND	
cPAH	UG/KG	627.91	H	ND				ND		2115.4	H			282.002	H			398.28	H			299.828	H
1,1,2-TRICHLOROETHANE	UG/KG					ND						ND				ND				ND			
1-METHYLNAPHTHALENE	UG/KG			ND																			
2,4-DINITROTOLUENE	UG/KG	ND						ND		ND				ND				ND				ND	
2-METHYLNAPHTHALENE	UG/KG	11000	W2	50				ND		180				ND				ND				260	
ACENAPHTHYLENE	UG/KG	ND		ND				ND		430				ND				ND				ND	
ALUMINUM	MG/KG	1930	E	14300	B E			11600	B E	3980	E			11200	B E			12300	B E			3350	E
ANTHRACENE	UG/KG	160		ND				ND		340				ND				ND				ND	
ANTIMONY	MG/KG	0.43	B	0.47	B			ND		ND				0.79	B			0.4				ND	
ARSENIC	MG/KG	4.1	H	8.4	H			6.7	H	5.5	H			13.8	B E H			9.3	E H			6	H
BARIUM	MG/KG	20.8		110				79.9		36.5				513	B E			78.6				40.3	
BENZO(A)ANTHRACENE	UG/KG	550		ND				ND		710				45				120				46	
BENZO(A)PYRENE	UG/KG	350	H	ND				ND		1300	H			43				140				57	
BENZO(B)FLUORANTHENE	UG/KG	220		ND				ND		2000	E			69				310				67	
BENZO(G,H,I)PERYLENE	UG/KG	200		ND				ND		1000				ND				95				90	
BENZO(K)FLUORANTHENE	UG/KG	320		ND				ND		1900				ND				120				46	
BERYLLIUM	MG/KG	0.41		0.67	B			0.36		ND				0.73	B			0.45				ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	690						ND		ND				330				110				ND	
BORON	MG/KG	18.6	B E	2	E			ND		5.8	B E			1.9	E			3.3	E			8.7	B E
CADMIUM	MG/KG	0.56	B E	ND				ND		ND				ND				ND				3.5	B E
CALCIUM	MG/KG	50800	B	3450	B			31200	B	117000	B			9430	B			10800	B			155000	B
CARBAZOLE	UG/KG	200						ND		130				ND				ND				ND	
CHROMIUM, TOTAL	MG/KG	5.9	E	22.2	B E			13.2	E	7.1	E			18.4	B E			16.5	B E			7.5	E
CHRYSENE	UG/KG	710		ND				ND		1400				52				180				68	
CIS-1,2-DICHLOROETHYLENE	UG/KG					ND						ND				ND				ND			
COBALT	MG/KG	3.2		10.3	B			6		3.6				20.6	B E			6.9				3.7	
COPPER	MG/KG	7.4		11.9	B			10.1	B	7.6				16.4	B			13.2	B			29.9	B
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND				ND		430	H			ND				ND				ND	
DIBENZOFURAN	UG/KG	3000						ND		180				ND				ND				91	
DIMETHYL PHTHALATE	UG/KG	ND						ND		ND				ND				ND				1300	
DI-N-BUTYL PHTHALATE	UG/KG	ND						ND		ND				76				ND				1600	E
ETHYLBENZENE	UG/KG					ND						ND				ND				ND			
FLUORANTHENE	UG/KG	590		ND				ND		670				ND				160				54	
FLUORENE	UG/KG	ND		ND				ND		ND				ND				ND				ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	120		ND				ND		940				ND				89				ND	
IRON	MG/KG	9830	E	20500	B E			15000	E	8460	E			23200	B E			19500	E			9780	E
LEAD	MG/KG	50.1	B	14.3				12.6		26.8	B			43.8	B			24.4				58.5	B
MAGNESIUM	MG/KG	29600	B	3580	B			18900	B	9420	B			4990	B			3360	B			85700	B
MANGANESE	MG/KG	152	E	919	E			512	E	272	E			5230	B E H			489	E			342	E
MERCURY	MG/KG	0.068		0.019				0.022		0.058				0.038				0.038				0.086	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG					ND						ND				ND				ND			
NAPHTHALENE	UG/KG	6200	H	ND				ND		130				ND				ND				120	
NICKEL	MG/KG	6.2		11.9				12.7	B	12.6	B			19.6	B			12.6	B			9.6	
PHENANTHRENE	UG/KG	4300		7.8				ND		270				ND				ND				160	
POTASSIUM	MG/KG	642		908	B			678		493				806	B			747	B			439	
PYRENE	UG/KG	930		ND				ND		1200				ND				230				99	
SELENIUM	MG/KG	0.81		0.33				ND		ND				1.7	E			ND				1.8	E
SILVER	MG/KG	ND		ND				ND		ND				ND				ND				ND	
SODIUM	MG/KG	138	B	42.7				65.2		89.4	B			48.3				45				243	B
TETRACHLOROETHYLENE(PCE)	UG/KG					ND						ND				ND				ND			
THALLIUM	MG/KG	0.55	B	ND				ND		ND				1.7	B E			0.55	B			ND	
TOLUENE	UG/KG					ND						ND				ND				ND			
TOTAL 1,2-DICHLOROETHENE	UG/KG					ND						ND				ND				ND			
TRANS-1,2-DICHLOROETHENE	UG/KG					ND						ND				ND				ND			
TRICHLOROETHYLENE (TCE)	UG/KG					ND						ND				ND				ND			
VANADIUM	MG/KG	11.9		38.1	B			25		11				36.5	B			29.7				9.9	
XYLENES, TOTAL	UG/KG					ND						ND				ND				ND			
ZINC	MG/KG	96.1	B	53.1	B			38		66.4	B			74.3	B			51.4	B			119	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-56
AUS-A11S - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-18 for Locations)

Soil Samples		AUS-A11S-048				AUS-A11S-W01								AUS-A11S-W02								AUS-A11S-W03			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**10 ft**	**CE**	**20 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**18 ft**	**CE**	**12 ft**	**CE**	**18 ft**	**CE**
ALL VOC	UG/KG			ND				ND		ND		ND				--		--		--		ND		ND	
ALL SVOC	UG/KG	--				ND				--		--		--				--		--		ND		ND	
ALL EXPLOSIVES	UG/KG	--				ND				ND		ND								ND					
cPAH	UG/KG	ND				ND				ND		ND		15.055				9.177		18.938		ND		ND	
1,1,2-TRICHLOROETHANE	UG/KG			ND				ND		ND		ND				ND		53	W1 W2	ND		ND		ND	
1-METHYLNAPHTHALENE	UG/KG													ND				ND		ND		ND		ND	
2,4-DINITROTOLUENE	UG/KG	74	W1 W2			ND				ND		ND								ND					
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND		ND		ND				ND		56		ND		ND	
ACENAPHTHYLENE	UG/KG	ND				ND				ND		ND		ND				ND		ND		ND		ND	
ALUMINUM	MG/KG	5700	E			7510	E			7530	E	9640	B E	7300	E			7870	E	5070	E	4640	E	4040	E
ANTHRACENE	UG/KG	ND				ND				ND		ND		ND				ND		ND		ND		ND	
ANTIMONY	MG/KG	ND				ND				ND		ND		ND				ND		ND		ND		ND	
ARSENIC	MG/KG	5.4	H			7.8	H			3.1	H	10	E H	6.6	H			7	H	7.5	H	6.8	H	ND	
BARIUM	MG/KG	116				99.3				46.3		104		119				143		62.1		58.3		36.2	
BENZO(A)ANTHRACENE	UG/KG	ND				ND				ND		ND		7.4				ND		13		ND		ND	
BENZO(A)PYRENE	UG/KG	ND				ND				ND		ND		7.3				ND		10		ND		ND	
BENZO(B)FLUORANTHENE	UG/KG	ND				ND				ND		ND		16				ND		16		ND		ND	
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				ND		ND		ND				ND		9.6		ND		ND	
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				ND		ND		8.3				ND		8.2		ND		ND	
BERYLLIUM	MG/KG	ND				0.56	B			0.43		0.97	B	0.53	B			ND		ND		0.62	B	ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				43		99													
BORON	MG/KG	5.2	B E			ND				1.8	E	5.2	B E	ND				ND		2.3	E	2.4	E	ND	
CADMIUM	MG/KG	ND				0.47	B E			ND		ND		ND				ND		ND		ND		ND	
CALCIUM	MG/KG	161000	B			3120	B			1280		1740		10200	B			2920	B	1560		1250		1250	
CARBAZOLE	UG/KG	ND				ND				ND		ND													
CHROMIUM, TOTAL	MG/KG	8.7	E			10.3	E			12.5	E	14.4	B E	12.1	E			12.7	E	11.3	E	6	E	5.4	E
CHRYSENE	UG/KG	ND				ND				ND		ND		22				11		16		ND		ND	
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND		ND		ND				1100	E W1 W2	1100	E W1 W2	1300	E W1 W2	ND		ND	
COBALT	MG/KG	4.6				6.1				ND		38.2	B E	6.7				5.2		10.8	B	7.6		1.4	
COPPER	MG/KG	7.7				6.1				4.7		12.7	B	12.2	B			30	B	12.6	B	5.4		3.6	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND		ND		ND				ND		ND		ND		ND	
DIBENZOFURAN	UG/KG	ND				ND				ND		ND													
DIMETHYL PHTHALATE	UG/KG	ND				ND				ND		ND													
DI-N-BUTYL PHTHALATE	UG/KG	180				ND				ND		ND													
ETHYLBENZENE	UG/KG			ND				ND		ND		ND				ND		110		57		ND		ND	
FLUORANTHENE	UG/KG	ND				ND				ND		ND		19				ND		35		ND		ND	
FLUORENE	UG/KG	ND				ND				ND		ND		ND				ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				ND		ND		ND				ND		9.9		ND		ND	
IRON	MG/KG	25600	B E			13000	E			10900	E	27800	B E	13200	E			14800	E	20800	B E	18300	E	6490	E
LEAD	MG/KG	10.5				ND				7.5		21.8		ND				ND		ND		14		4.5	
MAGNESIUM	MG/KG	10400	B			2430	B			1640		2010	B	3700	B			2210	B	1420		751		1200	
MANGANESE	MG/KG	549	E			593	E			275	E	2140	E H	396	E			318	E	287	E	217	E	43.5	
MERCURY	MG/KG	0.013				ND				ND		ND		ND				ND		0.06		ND		ND	
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND				ND		ND		ND				1100		ND		ND		ND		ND	
NAPHTHALENE	UG/KG	ND				ND				ND		ND		ND				ND		62		ND		ND	
NICKEL	MG/KG	16	B			9.1				7.1		32.4	B E	13.5	B			13.2	B	17.7	B	6.3		6.1	
PHENANTHRENE	UG/KG	ND				ND				ND		ND		ND				ND		11		ND		ND	
POTASSIUM	MG/KG	745	B			537				294		444		461				437		300		154		319	
PYRENE	UG/KG	ND				ND				ND		ND		18				ND		29		ND		ND	
SELENIUM	MG/KG	2.3	E			1.3	E			0.48		1		0.43				ND		ND		0.33		0.24	
SILVER	MG/KG	ND				ND				ND		0.34		ND				ND		0.56		0.61		ND	
SODIUM	MG/KG	177	B			ND				ND		ND		ND				ND		ND		ND		ND	
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND		ND		ND				ND		12		2		ND		ND	
THALLIUM	MG/KG	ND				0.24				0.16		0.15		0.15				ND		ND		ND		ND	
TOLUENE	UG/KG			ND				ND		ND		ND				ND		43		98		ND		ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND		ND		ND				1100	E W1 W2	1100	E W1 W2	1300	E W1 W2	ND		ND	
TRANS-1,2-DICHLOROETHENE	UG/KG			ND				ND		ND		ND				1		9		ND		ND		ND	
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND		ND		ND				11000	E H W1 W2	21000	E H W1 W2	20000	E H W1 W2	ND		ND	
VANADIUM	MG/KG	13.3				21.3				19.4		29.2		17.9				20.9		20.4		32.8	B	5.6	
XYLENES, TOTAL	UG/KG			ND				ND		ND		ND				ND		450		240		ND		ND	
ZINC	MG/KG	48.2	B			40				19.6		45.6	B	49.9	B			58.6	B	39.5		11.6		23.6	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
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W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-56
AUS-A11S - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-18 for Locations)

Soil Samples		AUS-A11S-W04								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	Units	0 - 0.5 ft	CE	2 ft	CE	5 ft	CE	16 ft	CE	B	E	H	W1	W2
ALL VOC	UG/KG			ND		ND		--						
ALL SVOC	UG/KG	--												
ALL EXPLOSIVES	UG/KG	ND						ND						
cPAH	UG/KG	459.49	H									2.1E+02		
1,1,2-TRICHLOROETHANE	UG/KG			ND		ND		ND			2.9E+04	1.6E+03	2.0E+01	2.0E+01
1-METHYLNAPHTHALENE	UG/KG										4.6E+04	1.9E+04	8.4E+04	7.2E+03
2,4-DINITROTOLUENE	UG/KG	ND						ND			1.3E+03	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG	290									4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG	110									8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	8110	E			11100	B E	7070	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	70									1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.44	B			ND		ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	10.5	E H			10.6	E H	6.5	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	67				109		86		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	200									3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	280	H								3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	340									1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	220									1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	410									9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND				ND		ND		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	160									9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	7.9	B E			3.4	E	3	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	3	B E			ND		ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	10100	B			1980		1940		2.9E+03				
CARBAZOLE	UG/KG	51									1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	12.7	E			13.2	E	12.4	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	390									4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	ND				5.1		7.6		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	16.7	B			15.2	B	9		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	100									1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	82									2.5E+04	1.6E+05		1.5E+04
DIMETHYL PHTHALATE	UG/KG	ND									2.0E+05	1.3E+06		3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG	ND									7.1E+02	2.3E+06	2.3E+06	2.3E+06
ETHYLBENZENE	UG/KG			ND		ND		ND			5.0E+03	5.8E+04	1.3E+04	1.3E+04
FLUORANTHENE	UG/KG	280									1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND									2.2E+04	2.6E+06	5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	UG/KG	210									9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	16600	E			21100	B E	21200	B E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	21.2				14.4		9.8		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	3060	B			3090	B	1740		1.8E+03				
MANGANESE	MG/KG	258	E			335	E	200	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND				0.06		0.08		2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG			ND		ND		ND			9.0E+04	7.1E+05		1.7E+04
NAPHTHALENE	UG/KG	130									4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	10.4				11.1		19.6	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	160									1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	469				510		299		6.9E+02				
PYRENE	UG/KG	410									7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	1.6	E			0.92		0.4		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	1.4	B			0.31		0.57		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND				ND		ND		8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	0.18				0.25		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG			ND		ND		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TRANS-1,2-DICHLOROETHENE	UG/KG			ND		ND		ND			7.9E+02	2.3E+04	7.0E+02	7.0E+02
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		2			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	20.8				25.2		21		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
XYLENES, TOTAL	UG/KG			ND		ND		ND			6.0E+02	9.0E+04	2.1E+05	1.5E+05
ZINC	MG/KG	54.3	B			44.3	B	36.1		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-57
AUS-A11S - Detections of Constituents in PA/SI Sewer Line Samples
(see Figure 5-18 for Locations)

Sewer Line Samples		AUS-A11S-030-SL (Sewer Line)		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG							
ALL SVOC	UG/KG	--						
ALL EXPLOSIVES	UG/KG	ND						
cPAH	UG/KG	6336	H			2.1E+02		
ACENAPHTHYLENE	UG/KG	120			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	16600	B E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	700			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.46	B	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	5.8	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	117		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	3700	E H W1 W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	4200	E H		3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	6700	E H W1 W2		1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	2500			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	2200			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.75	B	4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
CADMIUM	MG/KG	0.81	B E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3560	B	2.9E+03				
CARBAZOLE	UG/KG	630	W1 W2		1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	23.2	B E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	4000			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	9.3		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	18.4	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	790	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	87			2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	340			7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	5500			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	180			2.2E+04	2.6E+06	5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	UG/KG	2800	H		9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	21600	B E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	26.9	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2860	B	1.8E+03				
MANGANESE	MG/KG	222	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.29	B E	2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	67			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	22.1	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	3300			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1060	B	6.9E+02				
PYRENE	UG/KG	6500			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.56		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.39		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	145	B	8.5E+01				
THALLIUM	MG/KG	ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	36.5	B	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	147	B E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-58
AUS-A11S - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-18 for Locations)

Sediment Samples		AUS-A11S-001		AUS-A11S-002				AUS-A11S-003		AUS-A11S-006		AUS-A11S-007		AUS-A11S-008		AUS-A11S-009		AUS-A11S-010		AUS-A11S-011		AUS-A11S-012		AUS-A11S-013	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG					ND																			
ALL SVOC	UG/KG	ND												ND				--		ND		--			
ALL EXPLOSIVES	UG/KG	ND								ND				ND				ND		ND		ND			
cPAH	UG/KG	ND												716.162				453.96		ND		455.06	H		
2-METHYLNAPHTHALENE	UG/KG	ND												77	E			ND		ND		150	E		
ACENAPHTHENE	UG/KG	ND												ND				ND		ND		ND			
ACENAPHTHYLENE	UG/KG	ND												ND				ND		ND		ND			
ALUMINUM	MG/KG	11600	B	11100				11300	B	14600	B	15900	B	13200	B	15500	B	12100	B	15800	B	18500	B	14400	B
ANTHRACENE	UG/KG	ND												ND				ND		ND		ND			
ANTIMONY	MG/KG	0.32		1.2				ND		0.71		0.26		0.3		0.42		0.43		0.34		ND		0.23	
ARSENIC	MG/KG	5.9	H	4.9	H			6.1	H	6.1	H	7.4	H	4.1	H	12.2	B E H	4.3	H	6.4	H	15.2	B E H	5.7	H
BARIUM	MG/KG	105		106				76.5		159		117		95		142		78.9		121		178		80.8	
BENZO(A)ANTHRACENE	UG/KG	ND												ND				110	E	ND		130	E		
BENZO(A)PYRENE	UG/KG	ND												ND				130		ND		170	E		
BENZO(B)FLUORANTHENE	UG/KG	ND												62	E			190	E	ND		210	E		
BENZO(G,H,I)PERYLENE	UG/KG	ND												ND				77	E	ND		84	E		
BENZO(K)FLUORANTHENE	UG/KG	ND												69	E			200	E	ND		240	E		
BERYLLIUM	MG/KG	0.58		0.63				0.4		0.58		0.56		0.54		0.96		0.51		0.67		1		0.54	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND												ND				ND		ND		ND			
BORON	MG/KG	ND		ND				ND		6.6		1		4.3		7.4		4.3		ND		3.1		2.9	
CADMIUM	MG/KG	ND		0.72				ND		ND		ND		ND		ND		ND		ND		ND		ND	
CALCIUM	MG/KG	6460	B	11300	B			48600	B	10300	B	5670	B	4300	B	23000	B	13700	B	3810	B	8730	B	4630	B
CARBAZOLE	UG/KG	ND												ND				ND		ND		ND			
CHROMIUM, TOTAL	MG/KG	27.3	B	19.2	B			14.2		28.9	B	19.7	B	20.2	B	19.6	B	16		24.5	B	26.1	B	17.8	B
CHRYSENE	UG/KG	ND												66				160		ND		160			
COBALT	MG/KG	13.7	B	7.4				5.3		7.5		8.9		5.9		10.9	B	5.5		10.2	B	11.6	B	7.8	
COPPER	MG/KG	13.3		13.9				19	B	35	B E	15.5		16.6		13.1		10.9		12.1		19.4	B	11.6	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND												ND				ND		ND		ND			
DIBENZOFURAN	UG/KG	ND												ND				ND		ND		ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND												ND				ND		ND		53			
FLUORANTHENE	UG/KG	ND												ND				190		ND		140			
HMX	UG/KG	ND								ND				ND				ND		ND		ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND												ND				68	E	ND		85	E		
IRON	MG/KG	14300		14800				14500		22100	B	22700	B	14100		24200	B	13400		18200		30100	B	16400	
LEAD	MG/KG	17.7		17				14.1		21.1		20.4		21.2		18.6		20.1		19.4		20.2		20.4	
MAGNESIUM	MG/KG	3710	B	4140	B			28800	B	4220	B	3640	B	2950	B	14800	B	8220	B	3550	B	6550	B	3180	B
MANGANESE	MG/KG	2770	B E H	538				389		348		201		246		1340	B E	237		458		589		285	
MERCURY	MG/KG	0.042		0.032				0.069		0.058		0.036		0.051		0.027		0.026		0.026		0.032		0.044	
NAPHTHALENE	UG/KG	ND												ND				ND		ND		90			
NICKEL	MG/KG	19.4	B	24.8	B E			10.7		24.9	B E	16.5		14.8		11.4		8.3		14.2		18.1	B	13.9	
PHENANTHRENE	UG/KG	ND												ND				61		ND		56			
POTASSIUM	MG/KG	701		928				773		1620	B	1080		854		1250		837		1060		1140		1020	
PYRENE	UG/KG	ND												74				200	E	ND		200	E		
SELENIUM	MG/KG	0.4		ND				ND		0.65	B	ND		0.83	B	ND		0.39		0.79	B	ND		ND	
SODIUM	MG/KG	107		55.7				81.5		67.3		59.4		207		78.4		46.3		182		77.4		68	
THALLIUM	MG/KG	0.6	B	ND				ND		ND		ND		ND		ND		ND		ND		ND		ND	
TOTAL ORGANIC CARBON	MG/KG											47600												37400	
VANADIUM	MG/KG	25.4		27				25.6		30.4	B	33.2	B	25.2		40.9	B	27		35.8	B	49	B	33.3	B
ZINC	MG/KG	156	B E	105	B			66	B	108	B	63.2	B	96.5	B	55.4		94.8	B	53.9		150	B E	190	B E

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-58
AUS-A11S - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-18 for Locations)

Sediment Samples		AUS-A11S-016				AUS-A11S-019		AUS-A11S-022		AUS-A11S-023		AUS-A11S-024		AUS-A11S-025		AUS-A11S-026		AUS-A11S-028		AUS-A11S-029				AUS-A11S-041			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND																		ND				ND	
ALL SVOC	UG/KG					--		--						--		--				--				--			
ALL EXPLOSIVES	UG/KG					ND		ND		ND		--		ND		ND				ND				ND			
cPAH	UG/KG					ND		ND						791.74	H	374.92				1821.7	H			ND			
2-METHYLNAPHTHALENE	UG/KG					ND		100	E					11000	E W2	3400	E			2500	E			210	E		
ACENAPHTHENE	UG/KG					ND		ND						ND		ND				ND				ND			
ACENAPHTHYLENE	UG/KG					ND		ND						ND		ND				250	E			ND			
ALUMINUM	MG/KG	16700	B			13700	B	6470		18400	B	12400	B	9740		5910		16300	B	7860				9660			
ANTHRACENE	UG/KG					ND		ND						370	E	98	E			230	E			ND			
ANTIMONY	MG/KG	0.31				0.44		ND		0.29		ND		0.51		0.37		0.25		0.29				0.37			
ARSENIC	MG/KG	9.6	H			13.4	B E H	3.2	H	11	B E H	4	H	8	H	8	H	6.2	H	6.2	H			4.5	H		
BARIUM	MG/KG	157				147		85		89		92.2		88.4		81		137		118				116			
BENZO(A)ANTHRACENE	UG/KG					ND		ND						560	E	140	E			630	E			ND			
BENZO(A)PYRENE	UG/KG					ND		ND						430	E H	98				1000	E H			ND			
BENZO(B)FLUORANTHENE	UG/KG					ND		ND						450	E	130	E			2600	E H			ND			
BENZO(G,H,I)PERYLENE	UG/KG					ND		ND						ND		ND				1500	E			ND			
BENZO(K)FLUORANTHENE	UG/KG					ND		ND						140	E	ND				750	E			ND			
BERYLLIUM	MG/KG	0.68				0.61		0.24		ND		0.38		0.67		0.72		0.69		0.44				0.4			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG					ND		99						ND		ND				390				510			
BORON	MG/KG	1.6				ND		6.7		ND		1.3		15.4		15.1		ND		8.7				ND			
CADMIUM	MG/KG	ND				ND		ND		ND		ND		ND		ND		ND		6.3	B E W2			ND			
CALCIUM	MG/KG	4300	B			5370	B	10700	B	3130	B	1650	B	5630	B	3240	B	3760	B	120000	B			1990	B		
CARBAZOLE	UG/KG					ND		ND						320		75				100				ND			
CHROMIUM, TOTAL	MG/KG	23	B			19.6	B	8.4		20.9	B	14.8		15.7		11.3		20.9	B	12.8				27.1	B		
CHRYSENE	UG/KG					ND		ND						570	E	170	E			1200	E			ND			
COBALT	MG/KG	10.7	B			8.7		6.2		5.8		3.1		7		5.2		8.2		5.3				7.2			
COPPER	MG/KG	16.1				13.8		8.6		17.9	B	9.1		15.9		10.3		13.4		25.4	B			10.9			
DIBENZ(A,H)ANTHRACENE	UG/KG					ND		ND						ND		ND				340	E H			ND			
DIBENZOFURAN	UG/KG					ND		ND						3100	E	820				560				63			
DI-N-BUTYL PHTHALATE	UG/KG					ND		ND						ND		ND				56				ND			
FLUORANTHENE	UG/KG					ND		ND						550	E	180				500	E			ND			
HMX	UG/KG					ND		ND		ND		2900	E	ND						ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG					ND		ND						ND		ND				1500	E			ND			
IRON	MG/KG	23500	B			22700	B	8950		28000	B	12200		19800		15000		20700		12400				13800			
LEAD	MG/KG	29.9	B			21.4		12.2		16.6		19.5		33.7	B	18.9		27.3	B	90.9	B E			13.1			
MAGNESIUM	MG/KG	3250	B			3860	B	2550	B	3440	B	1380		2980	B	1200		3260	B	9170	B			1690			
MANGANESE	MG/KG	1220	B E			820	E	1030	E	355		118		204		549		291		374				359			
MERCURY	MG/KG	0.061				0.031		0.042		0.014		0.011		0.11		0.31	B E	0.035		0.11				0.037			
NAPHTHALENE	UG/KG					ND		ND						5600	E H	1700	E			1200	E			76			
NICKEL	MG/KG	19.6	B			17	B	9.3		12.9		7.7		19.1	B	11.4		21.3	B	15.6				12.5			
PHENANTHRENE	UG/KG					52		ND						3700	E	1000	E			820	E			92			
POTASSIUM	MG/KG	989				979		789		874		604		775		618		971		714				559			
PYRENE	UG/KG					ND		ND						1300	E	360	E			980	E			ND			
SELENIUM	MG/KG	ND				ND		0.9	B	ND		ND		0.93	B	0.63		ND		2.3	B			ND			
SODIUM	MG/KG	56.7				79.5		52.9		55		72.4		65.5		51.8		59.9		96.5				55.2			
THALLIUM	MG/KG	ND				ND		ND		ND		ND		ND		ND		ND		ND				ND			
TOTAL ORGANIC CARBON	MG/KG																										
VANADIUM	MG/KG	35.3	B			40.2	B	17.1		34.2	B	28.6	B	29.6	B	32.5	B	33.3	B	20.4				24			
ZINC	MG/KG	153	B E			60.4	B	88.2	B	59.6	B	31.9		97.8	B	75.2	B	71.8	B	195	B E			109	B		

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-58
AUS-A11S - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-18 for Locations)

Sediment Samples		AUS-A11S-042		AUS-A11S-043		AUS-A11S-044				AUS-A11S-046				Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	Units	0 - 0.5 ft	CE	0 - 0.5 ft	CE	0 - 0.5 ft	CE	2 ft	CE	0 - 0.5 ft	CE	2 ft	CE	B	E	H	W1	W2
ALL VOC	UG/KG							ND				ND						
ALL SVOC	UG/KG	--		--		--				--								
ALL EXPLOSIVES	UG/KG	ND		ND		ND				ND								
cPAH	UG/KG	442.16		563.561		ND				555.01	H					2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	ND		ND		ND				230	E				7.0E+01	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHENE	UG/KG	ND		ND		ND				ND					1.6E+01	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND		ND		ND				ND					4.4E+01	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	13400	B	11400	B	16200	B			8530				1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG	ND		ND		ND				63	E				5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	1.7		1.7		6.4	B E W1 W2			0.34				1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	13.1	B E H	5.2	H	0.75				7	H			1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	155		130		105				76.7				2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	120	E	ND		ND				150	E				1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	140		ND		ND				200	E				1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	260	E	110	E	ND				480	E				2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	72	E	ND		ND				300	E				1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	91	E	ND		ND				170	E				2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	1		0.77		0.43				0.57				1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	700		2600	E	74				140					7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND		2.1				9.4						1.8E+04		
CADMIUM	MG/KG	ND		ND		ND				0.99				1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2720	B	3080	B	2700	B			38000	B			1.4E+03				
CARBAZOLE	UG/KG	ND		ND		ND				ND					3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	146	B E W1 W2	163	B E W1 W2	634	B E H W1 W2			13.4				1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	150		61		ND				310	E				1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	17.3	B	9.9	B	6.4				5.9				9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	19.7	B	23.7	B	30	B			15.2				1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		ND				ND					3.3E+01	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND		ND		ND				130					2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND		ND				ND					1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	190		52		ND				170					4.2E+02	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	ND		ND		ND				ND					1.0E+01	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	81	E	ND		ND				250	E				1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	24500	B	14600		12100				15700				2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	38.1	B E	26.9	B	32.4	B			187	B E			2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1810		1600		1970	B			5130	B			1.9E+03				
MANGANESE	MG/KG	1560	B E	541		555				411				1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.058		0.07		0.045				0.051				1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND		ND				120					1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	18.9	B	17.2	B	14.5				20.5	B			1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND		ND		ND				210	E				2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	619		503		617				620				1.4E+03				
PYRENE	UG/KG	220	E	65		ND				340	E				2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.56		ND		ND				0.77	B			6.4E-01		5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	70.8		105		136				76.3				1.5E+03				
THALLIUM	MG/KG	ND		0.58	B	0.64	B			ND				3.1E-01		6.7E+00		2.6E+00
TOTAL ORGANIC CARBON	MG/KG																	
VANADIUM	MG/KG	43.7	B	23.9		20.6				24				2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	221	B E	133	B E	58.5	B			158	B E			5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
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ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
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Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
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H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-59
AUS-A11S - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-18 for Locations)

Surface Water Samples		AUS-A11S-001-SW		AUS-A11S-008-SW		AUS-A11S-009-SW		AUS-A11S-010-SW		AUS-A11S-011-SW		AUS-A11S-012-SW		AUS-A11S-013-SW		AUS-A11S-019-SW		AUS-A11S-022-SW		AUS-A11S-024-SW		AUS-A11S-042-SW		AUS-A11S-043-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	--		--						ND		ND		ND		ND						ND		--				
ALL SVOC	UG/L	ND		--				ND		ND		ND				--		ND		ND		ND		ND				
ALL EXPLOSIVES	UG/L	--		--				ND		ND		ND				ND		ND		ND		ND		ND				
2-AMINO-4,6-DINITROTOLUENE	UG/L	ND		5.5				ND		ND		ND				ND		ND		ND		ND		ND			2.0E+01	
4-AMINO-2,6-DINITROTOLUENE	UG/L	ND		18				ND		ND		ND				ND		ND		ND		ND		ND			5.4E+02	
ALKALINITY, TOTAL (AS CACO3)	MG/L	142				95.6												83.2		38.2								
ALUMINUM	UG/L	48700	B E	68600	B E	ND		ND		ND		ND		ND		4580	B E	241	B E	10300	B E	28400	B E	26600	B E	2.0E+02	8.7E+01	
ANTIMONY	UG/L	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		2.3		4.7		6.0E+00	3.0E+01	
ARSENIC	UG/L	17.9	B	37.5	B	5.6		5.1		ND		ND		5.4		ND		ND		7.7		16.9	B	15.4	B	1.0E+01	1.9E+02	
BARIUM	UG/L	636	B	1270	B	43.3	B	31.6	B	41.5	B	44.1	B	62.7	B	155	B	49	B	355	B	469	B	397	B	2.3E+01	5.0E+03	5.0E+03
BENZYL BUTYL PHTHALATE	UG/L	ND		ND				ND		ND		ND				1.6		ND				ND		ND			1.9E+01	
BERYLLIUM	UG/L	13.2	B E	4.7	E	ND		ND		ND		ND		ND		ND		ND		ND		2.5	E	1.8	E	5.0E+00	5.3E-01	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	ND		ND				ND		ND		ND				1.9		ND				ND		ND			3.0E+00	
BORON	UG/L	46.3		135		22.7		38.3		23.1		38		55.4		29.1		30.4		37.1		30.7		32.8			1.0E+03	1.0E+03
CADMIUM	UG/L	ND		4.9	E	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		5.0E+00	1.1E+00	
CALCIUM	UG/L	132000	B E	299000	B E	17500	B	38200	B	58900	B	15100	B	74100	B	19900	B	24400	B	25900	B	46000	B	65200	B	7.2E+03	1.2E+05	
CARBON TETRACHLORIDE	UG/L	ND		1						ND		ND		ND		ND						ND		ND			9.8E+00	
CHLOROFORM	UG/L	ND		0.5						ND		ND		ND		ND						ND		ND			2.8E+01	
CHROMIUM, TOTAL	UG/L	53.6	B	97	B	3.3		ND		ND		ND		ND		5.7		ND		9.7		214	B E	209	B E	1.0E+01	2.1E+02	
CIS-1,2-DICHLOROETHYLENE	UG/L	ND		ND						ND		ND		ND		ND						ND		7			5.9E+02	
COBALT	UG/L	231	B E	116	B E	ND		ND		ND		ND		ND		9.3	E	ND		12.3	E	34.6	E	31.5	E	5.0E+01	2.3E+00	
COPPER	UG/L	75.4	B E	119	B E	ND		ND		ND		ND		ND		4.1		ND		15	B E	65.9	B E	62.3	B E	1.0E+01	1.2E+01	
HMX	UG/L	0.68		ND				ND		ND		ND				ND		ND		ND		ND		ND			3.3E+02	
IRON	UG/L	27400	B E H	87800	B E H	701	B	1280	B E H	ND		ND		2210	B E H	6580	B E H	1360	B E H	20900	B E H	34700	B E H	36100	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	104	B E	101	B E	ND		ND		ND		ND		ND		5	B	ND		9.5	B	52.7	B E	48.3	B E	2.0E+00	2.0E+01	
MAGNESIUM	UG/L	58500	B	122000	B E	11500	B	11100	B	30300	B	7030	B	18600	B	7260	B	7160	B	5900	B	15300	B	28600	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	12600	B E H	22200	B E H	243		186		296		23		506		280		322		3490	B E H	7420	B E H	8780	B E H	5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	0.87	B H	0.43	B H	ND		ND		ND		ND		ND		ND		ND		ND		0.11	H	0.13	H	2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L	135	B	153	B	ND		ND		ND		ND		ND		8.6		1.3		18.4	B	67.2	B	46.4	B	1.0E+01	1.0E+03	1.0E+03
NITROBENZENE	UG/L	ND		0.73				ND		ND		ND				ND		ND		ND		ND		ND			2.7E+02	
NITROGEN, AMMONIA (AS N)	MG/L	2.1	B	0.74	B	0.25												0.17				0.37	B			2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	0.056	B	1.7	B	ND												ND		ND		ND				5.0E-02		
PHENOL	UG/L	ND		1.5				ND		ND		ND				ND		ND				ND		ND			1.0E+02	1.0E+02
PHOSPHORUS, TOTAL (AS P)	MG/L					0.058	B											0.095	B							5.0E-02		
POTASSIUM	UG/L	6010	B	9220	B	2260	B	3530	B	3620	B	1500		1150		1800	B	1140		6540	B	3930	B	3440	B	1.6E+03	5.3E+04	
SELENIUM	UG/L	ND		16.1	B	ND		ND		ND		ND		ND		ND		ND		4.1	B	6.1	B	5.9	B	2.7E+00	1.0E+03	1.0E+03
SODIUM	UG/L	34000	B	86400	B	890		976		30100	B	2180		7320	B	1080		1030		3400	B	9570	B	26300	B	3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L	170000		520000	H	1400												5200		420								5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L					14.5												56										
THALLIUM	UG/L	4.7	E	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.0E+01	4.0E+00	
TOLUENE	UG/L	1		ND						ND		ND		ND		ND						ND		ND			1.1E+02	6.2E+04
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	825	B	789	B	102	B					73	B					112	B	185	B	156	B	310	B	7.2E+01		1.0E+03
TRICHLOROETHYLENE (TCE)	UG/L	ND		ND						ND		ND		ND		ND						ND		22			9.4E+02	
VANADIUM	UG/L	118	B E	132	B E	ND		ND		ND		ND		3.5		12.1		ND		16.5		65.8	B E	53.4	B E	5.0E+01	1.9E+01	
ZINC	UG/L	505	B	1760	B E H	ND		ND		ND		ND		45.8	B	ND		ND		102	B	748	B	405	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-60
AUS-A11S - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-18 for Locations)

Groundwater Samples		AUS-A11S-W01-GW		AUS-A11S-W02-GW		AUS-A11S-W03-GW		AUS-A11S-W04-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	--		--		ND		--		
ALL SVOC	UG/L	ND		--		ND		ND		
ALL EXPLOSIVES	UG/L	ND		--		ND		ND		
1-METHYLNAPHTHALENE	UG/L			1.6		ND				2.8E+01
2,4,6-TRINITROTOLUENE	UG/L	ND		9.5		ND		ND		1.4E+01
2,6-DINITROTOLUENE	UG/L	ND		1	C1	ND		ND		3.1E-01
2-AMINO-4,6-DINITROTOLUENE	UG/L	ND		0.93		ND		ND		5.6E+00
2-METHYLNAPHTHALENE	UG/L	ND		7.9		ND				2.8E+01
4-AMINO-2,6-DINITROTOLUENE	UG/L	ND		17	C1	ND		ND		5.6E+00
ACENAPHTHYLENE	UG/L	ND		4.6		ND				2.1E+02
ALKALINITY, TOTAL (AS CACO3)	MG/L	316								
ALUMINUM	UG/L	228		300		2140		ND		3.5E+03
BARIUM	UG/L	20.8		ND		41.3		ND		2.0E+03
BORON	UG/L	12		ND		283		ND		2.0E+03
CALCIUM	UG/L	172000		95700		77300		364000		
CHROMIUM, TOTAL	UG/L	ND		ND		3		ND		1.0E+02
CIS-1,2-DICHLOROETHYLENE	UG/L	ND		10000	C1	ND		78	C1	7.0E+01
COPPER	UG/L	1.1		ND		ND		ND		6.5E+02
IRON	UG/L	244		243		1430		636		5.0E+03
MAGNESIUM	UG/L	103000		40400		30900		227000		
MANGANESE	UG/L	195	C1	1580	C1	208	C1	1490	C1	1.5E+02
NAPHTHALENE	UG/L	ND		59		ND				1.4E+02
NICKEL	UG/L	2.1		ND		4.2		14.9		1.0E+02
NITROGEN, NITRATE-NITRITE	MG/L	0.25				0.61		ND		1.0E+01
PHENANTHRENE	UG/L	ND		0.59		ND				2.1E+02
PHOSPHORUS, TOTAL (AS P)	MG/L	0.07								
POTASSIUM	UG/L	ND		ND		1030		ND		
SELENIUM	UG/L	ND		ND		5.9		ND		5.0E+01
SODIUM	UG/L	114000		68800		11700		194000		
SULFATE (AS SO4)	UG/L	720000	C1							4.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L	5.5								
TETRYL	UG/L	ND		4.5		ND		ND		
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	1470						3140		
TRICHLOROETHYLENE (TCE)	UG/L	6	C1	280000	C1	ND		520	C1	5.0E+00
ZINC	UG/L	ND		ND		5.1		ND		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-61
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 1
(see Figure 5-20 for Locations)

Soil Samples		AUS-0A12-018								AUS-0A12-081		AUS-0A12-082				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**8 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND		ND		ND		--				--						
ALL SVOC	UG/KG	--				ND		ND		--		--								
ALL EXPLOSIVES	UG/KG	ND				ND		ND		ND		ND								
cPAH	UG/KG	45.809				ND		ND		481.495	H	ND						2.1E+02		
Mammal TEQ	NG/KG																8.1E-01	1.6E+01		
Bird TEQ	NG/KG																8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG																			
1,2,3,4,6,7,8-HpCDF	NG/KG																			
1,2,3,4,7,8,9-HpCDF	NG/KG																			
1,2,3,4,7,8-HxCDF	NG/KG																			
1,2,3,6,7,8-HxCDD	NG/KG																			
1,2,3,6,7,8-HxCDF	NG/KG																			
1,2,3,7,8,9-HxCDD	NG/KG																			
1,2,3,7,8,9-HxCDF	NG/KG																			
1,2,3,7,8-PeCDF	NG/KG																			
1-METHYLNAPHTHALENE	UG/KG	ND				ND		ND									4.6E+04	1.9E+04	8.4E+04	7.2E+03
2,3,4,6,7,8-HxCDF	NG/KG																			
2,3,4,7,8-PeCDF	NG/KG																			
2,4,6-TRINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND					3.0E+04	3.1E+04		7.7E+01
2,4-DINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND					1.3E+03	2.5E+03	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND					3.3E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG	49				ND		ND		58		47					4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND					8.0E+04	1.2E+04		3.1E+01
4-NITROTOLUENE	UG/KG	ND				ND		ND		ND		ND						3.0E+04		9.2E+02
ACENAPHTHENE	UG/KG	ND				ND		ND		ND		ND					8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND				ND		ND		ND		ND					8.3E+03	1.8E+03	8.4E+04	2.4E+04
ACETONE	UG/KG			ND		ND		ND		71				24			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	10500	B E			7250	E	7520	E	8590	E	14500	B E			9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND				ND		ND		ND		ND					1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.33						ND		ND		ND				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	8.1	H			3.3	H	3.7	H	6.2	H	8.5	H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	83.2				104		81.8		137		58.9				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	32				ND		ND		ND		ND					3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	29				ND		ND		ND		ND					3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	54				ND		ND		63		ND					1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	26				ND		ND		ND		ND					1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	25				ND		ND		ND		ND					9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND				ND		ND		ND		ND				4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG									120		150					9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	3.8	E			ND		ND		3.2	E	3.3	E			4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND				ND		ND		0.36	B E	0.41	B E			3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2170				1420		1640		2530		2120				2.9E+03				
CARBAZOLE	UG/KG									ND		ND					1.3E+04	8.6E+04	6.0E+02	6.0E+02
CARBON TETRACHLORIDE	UG/KG			ND		ND		ND		ND				ND			1.0E+06	5.5E+02	7.0E+01	7.0E+01
CHLOROFORM	UG/KG			ND		ND		ND		ND				ND			1.2E+03	4.7E+02	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	13	E			12.2	E	10.2	E	12.9	E	16.4	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	59				ND		ND		45		ND					4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		ND		ND				ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	8.2				4		4.9		8.5		ND				9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	18.9	B			8.3		6.5		12.4	B	17.2	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND		ND		ND		ND					1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG									44		ND					2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG									ND		1700	E				7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	53				ND		ND		ND		ND					1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND				ND		ND		ND		ND					2.2E+04	2.6E+06	5.6E+05	5.6E+05
HMX	UG/KG	ND				ND		ND		ND		ND					2.5E+04	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	24				ND		ND		ND		ND					9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	19100	E			12600	E	12300	E	17800	E	23300	B E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	77	B			8.5		10.2		14.3		12.6				2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1750				1920	B	1600		2580	B	2500	B			1.8E+03				
MANGANESE	MG/KG	670	E			255	E	222	E	725	E	210	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND				ND		ND		ND		ND				2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHYLENE CHLORIDE	UG/KG			ND		ND		ND		ND				ND			4.1E+03	2.1E+04	2.0E+01	2.0E+01
NAPHTHALENE	UG/KG	2500	H			ND		ND		ND		ND					4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	10.6				13.4	B	10.5		16.3	B	10.4				1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG									ND		360					2.0E+04	3.5E+05	1.0E+03	1.0E+03
OCDD	NG/KG																			
OCDF	NG/KG																			
PCB (TOTAL)	UG/KG																4.0E+04	7.4E+02		
PCB-1254 (AROCHLOR 1254)	UG/KG																3.4E+01	7.4E+02		
PCB-1260 (AROCHLOR 1260)	UG/KG																3.4E+01	7.4E+02		

Table 5-61
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 1
(see Figure 5-20 for Locations)

Soil Samples		AUS-0A12-018								AUS-0A12-081		AUS-0A12-082				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**8 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
PENTACHLOROPHENOL	UG/KG									ND		ND					1.2E+02	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	13				ND		ND		67		ND					1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	835	B			333		425		578		873	B			6.9E+02				
PYRENE	UG/KG	42				ND		ND		46		ND					7.9E+04	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND				ND		ND		ND		ND					1.0E+05	1.6E+04		3.6E+02
SELENIUM	MG/KG	ND				ND		ND		ND		ND				3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND				ND		ND		ND		0.51				6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND				ND		ND		ND		3930	B			8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND		ND		ND				ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND				ND		ND		ND		ND				5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG			ND		ND		ND		ND				ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		ND		ND		ND				ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TOTAL HpCDDs	NG/KG																			
TOTAL HpCDFs	NG/KG																			
TOTAL HxCDDs	NG/KG																			
TOTAL HxCDFs	NG/KG																			
TOTAL ORGANIC CARBON	MG/KG																			
TOTAL PeCDDs	NG/KG																			
TOTAL PeCDFs	NG/KG																			
TOTAL TCDFs	NG/KG																			
TRANS-1,2-DICHLOROETHENE	UG/KG			ND		ND		ND		ND				ND			7.9E+02	2.3E+04	7.0E+02	7.0E+02
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		ND		ND				ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	24.4				21		20.1		21.9		29.3				3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	115	B			27.9		24.1		39		43.5	B			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-62
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 2
(see Figure 5-21 for Locations)

Soil Samples		AUS-0A12-002				AUS-0A12-004				AUS-0A12-008								AUS-0A12-010						AUS-0A12-011	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**3 ft**	**CE**
ALL VOC	UG/KG			--				--				--		--		--				ND		ND			
ALL SVOC	UG/KG	--				ND				--				ND		--		--				ND		--	
ALL EXPLOSIVES	UG/KG	ND				ND				--				ND		ND		ND				ND		ND	
cPAH	UG/KG	508.9	H			ND				546.44	H			ND		480.165	H	25.341				ND		609.166	H
Mammal TEQ	NG/KG																			0.08					
Bird TEQ	NG/KG																			0.04					
1,2,3,4,6,7,8-HpCDD	NG/KG																			4.66					
1,2,3,4,6,7,8-HpCDF	NG/KG																			ND					
1,2,3,4,7,8,9-HpCDF	NG/KG																			ND					
1,2,3,4,7,8-HxCDF	NG/KG																			ND					
1,2,3,6,7,8-HxCDD	NG/KG																			ND					
1,2,3,6,7,8-HxCDF	NG/KG																			ND					
1,2,3,7,8,9-HxCDD	NG/KG																			ND					
1,2,3,7,8,9-HxCDF	NG/KG																			ND					
1,2,3,7,8-PeCDF	NG/KG																			ND					
1-METHYLNAPHTHALENE	UG/KG																	ND				ND			
2,3,4,6,7,8-HxCDF	NG/KG																			ND					
2,3,4,7,8-PeCDF	NG/KG																			ND					
2,4,6-TRINITROTOLUENE	UG/KG					ND				ND				ND		ND		ND				ND		ND	
2,4-DINITROTOLUENE	UG/KG	ND				ND				130	W1 W2			ND		ND		ND				ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND				ND				ND				ND		ND		ND				ND		ND	
2-METHYLNAPHTHALENE	UG/KG	110				ND				290				ND		ND		200				ND		130	
4-AMINO-2,6-DINITROTOLUENE	UG/KG					ND				ND				ND		ND		ND				ND		ND	
4-NITROTOLUENE	UG/KG					ND				ND				ND		ND		ND				ND		ND	
ACENAPHTHENE	UG/KG	ND				ND				ND				ND		ND		ND				ND		ND	
ACENAPHTHYLENE	UG/KG	ND				ND				ND				ND		ND		ND				ND		ND	
ACETONE	UG/KG			ND				ND				ND		ND		ND				ND		ND			
ALUMINUM	MG/KG	5650	E			7510	E			6670	E			5430	E	5320	E	9950	B E			7680	E	7150	E
ANTHRACENE	UG/KG	ND				ND				110				ND		ND		ND				ND		ND	
ANTIMONY	MG/KG	0.51	B							0.87	B			0.26		ND		0.85	B					76.4	B E H W1 W2
ARSENIC	MG/KG	10.2	E H			6.6	H			14.3	B E H			3.7	H	3.7	H	8.3	H			4.2	H	8.7	H
BARIUM	MG/KG	213				137				178				51.3		85		89.2				34.7		153	
BENZO(A)ANTHRACENE	UG/KG	180				ND				290				ND		ND		9				ND		ND	
BENZO(A)PYRENE	UG/KG	210				ND				370	H			ND		ND		15				ND		310	H
BENZO(B)FLUORANTHENE	UG/KG	320				ND				330				ND		48		28				ND		180	
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				330				ND		ND		11				ND		2600	
BENZO(K)FLUORANTHENE	UG/KG	120				ND				400				ND		ND		12				ND		ND	
BERYLLIUM	MG/KG	ND				ND				0.65	B			ND		ND		ND				ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	64				ND				200				ND		ND								9100	E
BORON	MG/KG	66.8	B E			ND				7.8	B E			10.4	B E	11.9	B E	12.5	B E			1.8	E	2.8	E
CADMIUM	MG/KG	0.97	B E			1.3	B E			0.52	B E			ND		ND		1.9	B E			ND		1.2	B E
CALCIUM	MG/KG	3310	B			2000				3550	B			545		1440		5790	B			745		14200	B
CARBAZOLE	UG/KG	ND				ND				58				ND		ND								ND	
CARBON TETRACHLORIDE	UG/KG			ND				ND				ND		ND		ND				ND		ND			
CHLOROFORM	UG/KG			ND				ND				260		11		3				ND		ND			
CHROMIUM, TOTAL	MG/KG	13.8	B E			12.7	E			22.5	B E			8.9	E	9	E	17.6	B E			8.1	E	4010	B E H W1 W2
CHRYSENE	UG/KG	200				ND				440				ND		ND		21				ND		66	
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				490	W1 W2	320		330				ND		ND			
COBALT	MG/KG	7.3				9.9	B			15.1	B			5.5		5.8		ND				5.9		7.1	
COPPER	MG/KG	266	B E			12.1	B			53	B E			3.9		107	B E	267	B E			3.5		76	B E
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				84				ND		ND		ND				ND		ND	
DIBENZOFURAN	UG/KG	ND				ND				120				ND		ND								ND	
DI-N-BUTYL PHTHALATE	UG/KG	150				ND				1100	E			ND		410								830	E
FLUORANTHENE	UG/KG	170				ND				460				ND		ND		41				ND		52	
FLUORENE	UG/KG	ND				ND				ND				ND		ND		ND				ND		ND	
HMX	UG/KG					ND				ND				ND		ND		ND				ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				260				ND		ND		10				ND		480	
IRON	MG/KG	39000	B E H			15700	E			29000	B E			10400	E	9500	E	17900	E			11900	E	33400	B E H
LEAD	MG/KG	216	B			13.5				77.7	B			9.8		22.8		71.6	B			11.1		7270	B E H
MAGNESIUM	MG/KG	1470				2110	B			1430				738		889		2310	B			934		6620	B
MANGANESE	MG/KG	1300	E			263	E			1020	E			726	E	585	E	395	E			409	E	576	E
MERCURY	MG/KG	0.08				ND				0.39	B E			0.08		0.08		0.1				ND		ND	
METHYLENE CHLORIDE	UG/KG			ND				ND				ND		ND		ND				ND		ND			
NAPHTHALENE	UG/KG	64				ND				120				ND		ND		ND				ND		49	
NICKEL	MG/KG	27.2	B			11				11.6				5.7		6.9		14	B			5		53.3	B E
N-NITROSODIPHENYLAMINE	UG/KG	ND				ND				370				ND		ND								ND	
OCDD	NG/KG																			367					
OCDF	NG/KG																			ND					
PCB (TOTAL)	UG/KG																								
PCB-1254 (AROCHLOR 1254)	UG/KG																								
PCB-1260 (AROCHLOR 1260)	UG/KG																								

Table 5-62
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 2
(see Figure 5-21 for Locations)

Soil Samples		AUS-0A12-002				AUS-0A12-004				AUS-0A12-008								AUS-0A12-010						AUS-0A12-011	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**3 ft**	**CE**
PENTACHLOROPHENOL	UG/KG	ND				ND				ND				ND		ND								ND	
PHENANTHRENE	UG/KG	110				ND				490				ND		ND		30				ND		120	
POTASSIUM	MG/KG	343				726	B			357				297		299		454				365		413	
PYRENE	UG/KG	220				ND				440				ND		ND		20				ND		130	
RDX	UG/KG					ND				1600	W2			ND		ND		ND				ND		ND	
SELENIUM	MG/KG	1.1	E			ND				ND				ND		ND		0.5				0.39		0.71	
SILVER	MG/KG	1.4	B			ND				1.5	B			ND		ND		2.8	B E			ND		ND	
SODIUM	MG/KG	ND				ND				ND				635	B	443	B	432	B			394	B	394	B
TETRACHLOROETHYLENE(PCE)	UG/KG			100	W1 W2			10				2200	H W1 W2	780	W1 W2	240	W1 W2			ND		ND			
THALLIUM	MG/KG	ND				ND				ND				ND		ND		ND				ND		ND	
TOLUENE	UG/KG			ND				ND				ND		ND		ND				ND		ND			
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND		ND		ND				ND		ND			
TOTAL HpCDDs	NG/KG																			10.2					
TOTAL HpCDFs	NG/KG																			ND					
TOTAL HxCDDs	NG/KG																			0.961					
TOTAL HxCDFs	NG/KG																			0.159					
TOTAL ORGANIC CARBON	MG/KG																								
TOTAL PeCDDs	NG/KG																			ND					
TOTAL PeCDFs	NG/KG																			ND					
TOTAL TCDFs	NG/KG																			ND					
TRANS-1,2-DICHLOROETHENE	UG/KG			ND				ND				ND		5		3				ND		ND			
TRICHLOROETHYLENE (TCE)	UG/KG			6				ND				51		44		32				ND		ND			
VANADIUM	MG/KG	16.7				19.8				29.5				16.5		15.7		23.1				17.4		17	
ZINC	MG/KG	487	B E			469	B E			548	B E			14.5		232	B E	348	B E			17.5		330	B E

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-62
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 2
(see Figure 5-21 for Locations)

Soil Samples		AUS-0A12-013								AUS-0A12-015								AUS-0A12-093							
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**11 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**5 ft**	**CE**
ALL VOC	UG/KG			--		--		--				ND		--		ND				--		--		--	
ALL SVOC	UG/KG	--				--		ND		ND				ND		ND		--				--		--	
ALL EXPLOSIVES	UG/KG	--				ND		ND		--				ND		ND		--				ND		ND	
cPAH	UG/KG	471.386	H			ND		ND		ND				ND		ND		321.59	H			ND		18.425	
Mammal TEQ	NG/KG																					0.06			
Bird TEQ	NG/KG																					0.03			
1,2,3,4,6,7,8-HpCDD	NG/KG																					3.15			
1,2,3,4,6,7,8-HpCDF	NG/KG																					ND			
1,2,3,4,7,8,9-HpCDF	NG/KG																					ND			
1,2,3,4,7,8-HxCDF	NG/KG																					ND			
1,2,3,6,7,8-HxCDD	NG/KG																					ND			
1,2,3,6,7,8-HxCDF	NG/KG																					ND			
1,2,3,7,8,9-HxCDD	NG/KG																					ND			
1,2,3,7,8,9-HxCDF	NG/KG																					ND			
1,2,3,7,8-PeCDF	NG/KG																					ND			
1-METHYLNAPHTHALENE	UG/KG									ND				ND		ND		3900				ND		150	
2,3,4,6,7,8-HxCDF	NG/KG																					ND			
2,3,4,7,8-PeCDF	NG/KG																					ND			
2,4,6-TRINITROTOLUENE	UG/KG	ND				ND		ND		930	W2			ND		ND		ND				ND		ND	
2,4-DINITROTOLUENE	UG/KG	490	W1 W2			ND		ND		ND				ND		ND		ND				ND		ND	
2,6-DINITROTOLUENE	UG/KG	92	E W1 W2			ND		ND		ND				ND		ND		ND				ND		ND	
2-METHYLNAPHTHALENE	UG/KG	470				ND		ND		ND				ND		ND		9100	W2			48		330	
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				ND		ND		ND				ND		ND		ND				ND		ND	
4-NITROTOLUENE	UG/KG	ND				ND		ND		ND				ND		ND		ND				ND		ND	
ACENAPHTHENE	UG/KG	ND				ND		ND		ND				ND		ND		1300				ND		ND	
ACENAPHTHYLENE	UG/KG	ND				ND		ND		ND				ND		ND		2400	H			ND		ND	
ACETONE	UG/KG			ND		ND		ND				ND		33		ND				ND		ND		ND	
ALUMINUM	MG/KG	6160	E			6070	E	9150	B E	9890	B E			14000	B E	4780	E	5660	E			5710	E	5890	E
ANTHRACENE	UG/KG	ND				ND		ND		ND				ND		ND		330				ND		ND	
ANTIMONY	MG/KG	0.87	B			ND		ND		ND				ND				0.69	B			ND		ND	
ARSENIC	MG/KG	8.2	H			3.8	H	8.3	H	10.7	E H			12.1	E H	3.7	H	14.9	B E H			4.2	H	3.3	H
BARIUM	MG/KG	658	B E			95.8		89.8		72.8				80.8		51.1		127				80.5		63.8	
BENZO(A)ANTHRACENE	UG/KG	72				ND		ND		ND				ND		ND		220				ND		ND	
BENZO(A)PYRENE	UG/KG	ND				ND		ND		ND				ND		ND		260	H			ND		11	
BENZO(B)FLUORANTHENE	UG/KG	ND				ND		ND		ND				ND		ND		250				ND		12	
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND		ND		ND				ND		ND		98				ND		ND	
BENZO(K)FLUORANTHENE	UG/KG	ND				ND		ND		ND				ND		ND		69				ND		ND	
BERYLLIUM	MG/KG	ND				ND		ND		ND				ND		ND		ND				ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	290				60		ND																	
BORON	MG/KG	ND				ND		ND		ND				2.3	E	ND		10.2	B E			2	E	1.7	E
CADMIUM	MG/KG	1	B E			ND		ND		ND				ND		ND		0.33	E			ND		ND	
CALCIUM	MG/KG	17600	B			2360		1250		1680				882		511		2820				1380		1410	
CARBAZOLE	UG/KG	ND				ND		ND																	
CARBON TETRACHLORIDE	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND	
CHLOROFORM	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND	
CHROMIUM, TOTAL	MG/KG	13.6	E			8.5	E	11.9	E	13.2	E			16.3	B E	7.1	E	12.3	E			7.7	E	8.3	E
CHRYSENE	UG/KG	86				ND		ND		ND				ND		ND		1800				ND		53	
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		6				ND		ND		ND				ND		5		ND	
COBALT	MG/KG	6.5				ND		21.1	B E	ND				ND		5.4		6.7				4.1		ND	
COPPER	MG/KG	65.2	B E			6.8		6.3		10.6	B			12.3	B	4.2		32.7	B E			5.9		6.2	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND		ND		ND				ND		ND		ND				ND		ND	
DIBENZOFURAN	UG/KG	130				ND		ND																	
DI-N-BUTYL PHTHALATE	UG/KG	940	E			ND		ND																	
FLUORANTHENE	UG/KG	54				ND		ND		ND				ND		ND		990				ND		41	
FLUORENE	UG/KG	ND				ND		ND		ND				ND		ND		ND				ND		ND	
HMX	UG/KG	2200				ND		ND		39000	E W2			ND		ND		ND				ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND		ND		ND				ND		ND		61				ND		ND	
IRON	MG/KG	13000	E			10500	E	17600	E	18700	E			21600	B E	7540	E	17900	E			10200	E	9470	E
LEAD	MG/KG	3330	B E H			10.5		21		23.2				14.2		8		50.8	B			9.9		9.8	
MAGNESIUM	MG/KG	2090	B			1570		1140		1980	B			2050	B	715		1480				1320		1230	
MANGANESE	MG/KG	672	E			203	E	4080	B E H	233	E			462	E	377	E	797	E			539	E	366	E
MERCURY	MG/KG	0.11				0.11		0.13		ND				ND		ND		ND				ND		ND	
METHYLENE CHLORIDE	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND	
NAPHTHALENE	UG/KG	180				ND		ND		ND				ND		ND		670				ND		72	
NICKEL	MG/KG	18	B			7.8		8		8.6				9.7		4.6		15.2	B			7.4		6.6	
N-NITROSODIPHENYLAMINE	UG/KG	ND				ND		ND																	
OCDD	NG/KG																					306			
OCDF	NG/KG																					ND			
PCB (TOTAL)	UG/KG																								
PCB-1254 (AROCHLOR 1254)	UG/KG																								
PCB-1260 (AROCHLOR 1260)	UG/KG																								

Table 5-62
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 2
(see Figure 5-21 for Locations)

Soil Samples		AUS-0A12-013								AUS-0A12-015								AUS-0A12-093							
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**11 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**3 ft**	**CE**	**5 ft**	**CE**
PENTACHLOROPHENOL	UG/KG	ND				ND		ND																	
PHENANTHRENE	UG/KG	240				ND		ND		ND				ND		ND		1900				12		71	
POTASSIUM	MG/KG	592				339		295		340				603		249		512				366		354	
PYRENE	UG/KG	170				ND		ND		ND				ND		ND		400				ND		16	
RDX	UG/KG	6000	W2			ND		ND		17000	H W2			ND		ND		2700	W2			ND		ND	
SELENIUM	MG/KG	ND				ND		2.4	E	0.36				0.54		0.24		1				ND		ND	
SILVER	MG/KG	ND				ND		0.63		ND				ND		ND		ND				ND		ND	
SODIUM	MG/KG	ND				ND		ND		ND				ND		ND		ND				411	B	364	B
TETRACHLOROETHYLENE(PCE)	UG/KG			7		2		ND				ND		ND		ND				4		ND		1	
THALLIUM	MG/KG	ND				ND		ND		ND				1.8	B E	ND		ND				ND		ND	
TOLUENE	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		ND		6				ND		ND		ND				ND		6		ND	
TOTAL HpCDDs	NG/KG																					7.69			
TOTAL HpCDFs	NG/KG																					0.109			
TOTAL HxCDDs	NG/KG																					0.839			
TOTAL HxCDFs	NG/KG																					ND			
TOTAL ORGANIC CARBON	MG/KG																								
TOTAL PeCDDs	NG/KG																					ND			
TOTAL PeCDFs	NG/KG																					ND			
TOTAL TCDFs	NG/KG																					ND			
TRANS-1,2-DICHLOROETHENE	UG/KG			ND		ND		ND				ND		ND		ND				ND		ND		ND	
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		ND				ND		ND		ND				4		5		3	
VANADIUM	MG/KG	16.7				12.9		26.9		25.1				27.9		17.1		20.2				13.9		13.2	
ZINC	MG/KG	312	B E			27.7		21.2		32.9				39.4		13.4		199	B E			25.7		22.4	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-62
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 2
(see Figure 5-21 for Locations)

Soil Samples		AUS-0A12-100								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**14 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			--		--		--						
ALL SVOC	UG/KG	--				ND		ND						
ALL EXPLOSIVES	UG/KG	ND				ND		ND						
cPAH	UG/KG	ND				ND		ND				2.1E+02		
Mammal TEQ	NG/KG										8.1E-01	1.6E+01		
Bird TEQ	NG/KG										8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG													
1,2,3,4,6,7,8-HpCDF	NG/KG													
1,2,3,4,7,8,9-HpCDF	NG/KG													
1,2,3,4,7,8-HxCDF	NG/KG													
1,2,3,6,7,8-HxCDD	NG/KG													
1,2,3,6,7,8-HxCDF	NG/KG													
1,2,3,7,8,9-HxCDD	NG/KG													
1,2,3,7,8,9-HxCDF	NG/KG													
1,2,3,7,8-PeCDF	NG/KG													
1-METHYLNAPHTHALENE	UG/KG	ND				ND		ND			4.6E+04	1.9E+04	8.4E+04	7.2E+03
2,3,4,6,7,8-HxCDF	NG/KG													
2,3,4,7,8-PeCDF	NG/KG													
2,4,6-TRINITROTOLUENE	UG/KG	ND				ND		ND			3.0E+04	3.1E+04		7.7E+01
2,4-DINITROTOLUENE	UG/KG	ND				ND		ND			1.3E+03	2.5E+03	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG	ND				ND		ND			3.3E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG	45				ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				ND		ND			8.0E+04	1.2E+04		3.1E+01
4-NITROTOLUENE	UG/KG	ND				ND		ND				3.0E+04		9.2E+02
ACENAPHTHENE	UG/KG	ND				ND		ND			8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND				ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ACETONE	UG/KG			ND		ND		ND			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	6250	E			6270	E	4200	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND				ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	1.4	B			ND		ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	19.1	B E H			3.3	H	3.7	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	301	B			49.3		26.3		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND				ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND				ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND				ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND				ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND				ND		ND		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG										9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	10.2	B E			ND		ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND				ND		0.15		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	1600				1890		3980	B	2.9E+03				
CARBAZOLE	UG/KG										1.3E+04	8.6E+04	6.0E+02	6.0E+02
CARBON TETRACHLORIDE	UG/KG			23		45		360	W1 W2		1.0E+06	5.5E+02	7.0E+01	7.0E+01
CHLOROFORM	UG/KG			5		14		100			1.2E+03	4.7E+02	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	32.4	B E			10.6	E	6.2	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND				ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	17.1	B			3.6		5.7		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	180	B E			6.8		4.2		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG										2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG										7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	8.2				ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND				ND		ND			2.2E+04	2.6E+06	5.6E+05	5.6E+05
HMX	UG/KG	ND				ND		ND			2.5E+04	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	69000	B E H			8080	E	2680	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	13.2				8		10.9		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1720				1640		1410		1.8E+03				
MANGANESE	MG/KG	359	E			242	E	439	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND				ND		ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHYLENE CHLORIDE	UG/KG			ND		ND		34	W1 W2		4.1E+03	2.1E+04	2.0E+01	2.0E+01
NAPHTHALENE	UG/KG	ND				ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	45.1	B E			9.1		5.7		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG										2.0E+04	3.5E+05	1.0E+03	1.0E+03
OCDD	NG/KG													
OCDF	NG/KG													
PCB (TOTAL)	UG/KG										4.0E+04	7.4E+02		
PCB-1254 (AROCHLOR 1254)	UG/KG										3.4E+01	7.4E+02		
PCB-1260 (AROCHLOR 1260)	UG/KG										3.4E+01	7.4E+02		

Table 5-62
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 2
(see Figure 5-21 for Locations)

Soil Samples		AUS-0A12-100								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	Units	0 - 0.5 ft	CE	1 ft	CE	5 ft	CE	14 ft	CE	B	E	H	W1	W2
PENTACHLOROPHENOL	UG/KG										1.2E+02	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	8.1				ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1550	B			366		289		6.9E+02				
PYRENE	UG/KG	ND				ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND				ND		ND			1.0E+05	1.6E+04		3.6E+02
SELENIUM	MG/KG	0.32				ND		3.4	B E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND				ND		0.8	B	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND				464	B	359	B	8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND				ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG			ND		ND		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TOTAL HpCDDs	NG/KG													
TOTAL HpCDFs	NG/KG													
TOTAL HxCDDs	NG/KG													
TOTAL HxCDFs	NG/KG													
TOTAL ORGANIC CARBON	MG/KG													
TOTAL PeCDDs	NG/KG													
TOTAL PeCDFs	NG/KG													
TOTAL TCDFs	NG/KG													
TRANS-1,2-DICHLOROETHENE	UG/KG			ND		ND		ND			7.9E+02	2.3E+04	7.0E+02	7.0E+02
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	13.1				16.2		5.2		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	96.3	B			22.7		15.2		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-019				AUS-0A12-022		AUS-0A12-023				AUS-0A12-026				AUS-0A12-027				AUS-0A12-028			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND						ND				ND				ND				ND	
ALL SVOC	UG/KG					--		ND				--				--				--			
ALL EXPLOSIVES	UG/KG	ND				ND		ND				ND				ND				ND			
cPAH	UG/KG					32.601		ND				352.14	H			ND				517.395	H		
Mammal TEQ	NG/KG																						
Bird TEQ	NG/KG																						
1,2,3,4,6,7,8-HpCDD	NG/KG																						
1,2,3,4,6,7,8-HpCDF	NG/KG																						
1,2,3,4,7,8,9-HpCDF	NG/KG																						
1,2,3,4,7,8-HxCDF	NG/KG																						
1,2,3,6,7,8-HxCDD	NG/KG																						
1,2,3,6,7,8-HxCDF	NG/KG																						
1,2,3,7,8,9-HxCDD	NG/KG																						
1,2,3,7,8,9-HxCDF	NG/KG																						
1,2,3,7,8-PeCDF	NG/KG																						
1-METHYLNAPHTHALENE	UG/KG					ND																	
2,3,4,6,7,8-HxCDF	NG/KG																						
2,3,4,7,8-PeCDF	NG/KG																						
2,4,6-TRINITROTOLUENE	UG/KG	ND				ND						ND				ND				ND			
2,4-DINITROTOLUENE	UG/KG	ND				ND		ND				ND				ND				ND			
2,6-DINITROTOLUENE	UG/KG	ND				ND		ND				ND				ND				ND			
2-METHYLNAPHTHALENE	UG/KG					ND		ND				630				87				580			
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				ND						ND				ND				ND			
4-NITROTOLUENE	UG/KG	ND				ND						ND				ND				ND			
ACENAPHTHENE	UG/KG					ND		ND				ND				ND				ND			
ACENAPHTHYLENE	UG/KG					ND		ND				ND				ND				ND			
ACETONE	UG/KG			ND						ND				ND				ND				ND	
ALUMINUM	MG/KG	5390	E			4530	E	5320	E			5740	E			7020	E			7160	E		
ANTHRACENE	UG/KG					ND		ND				44				ND				53			
ANTIMONY	MG/KG	ND				ND		ND				ND				ND							
ARSENIC	MG/KG	3.2	H			5.2	H	6.6	H			8.4	H			5.1	H			11.8	E H		
BARIUM	MG/KG	59.3				81.8		55.5				125				57.1				69.6			
BENZO(A)ANTHRACENE	UG/KG					ND		ND				120				ND				90			
BENZO(A)PYRENE	UG/KG					23		ND				99				ND				ND			
BENZO(B)FLUORANTHENE	UG/KG					25		ND				91				ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG					20		ND				48				ND				ND			
BENZO(K)FLUORANTHENE	UG/KG					ND		ND				89				ND				ND			
BERYLLIUM	MG/KG	ND				ND		ND				ND				ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG							ND				50				46				ND			
BORON	MG/KG	8.1	B E			ND		ND				ND				ND				ND			
CADMIUM	MG/KG	0.59	B E			0.34	E	0.38	B E			0.88	B E			0.38	B E			1	B E		
CALCIUM	MG/KG	5490	B			1520		2690				11100	B			6210	B			3480	B		
CARBAZOLE	UG/KG							ND				ND				ND				ND			
CARBON TETRACHLORIDE	UG/KG			ND						ND				ND				ND				ND	
CHLOROFORM	UG/KG			ND						ND				ND				ND				ND	
CHROMIUM, TOTAL	MG/KG	7.4	E			7	E	8.3	E			10.1	E			8.4	E			12.6	E		
CHRYSENE	UG/KG					27		ND				150				ND				95			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND						ND				ND				ND				ND	
COBALT	MG/KG	ND				ND		5.3				5.8				ND				6			
COPPER	MG/KG	7.4				7.6		9.5	B			10.9	B			6				7.7			
DIBENZ(A,H)ANTHRACENE	UG/KG					ND		ND				ND				ND				ND			
DIBENZOFURAN	UG/KG							ND				240				ND				230			
DI-N-BUTYL PHTHALATE	UG/KG							ND				45				ND				ND			
FLUORANTHENE	UG/KG					24		ND				150				ND				94			
FLUORENE	UG/KG					ND		ND				ND				ND				ND			
HMX	UG/KG	ND				ND						ND				ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG					12		ND				ND				ND				ND			
IRON	MG/KG	9990	E			10100	E	11200	E			13700	E			12800	E			15300	E		
LEAD	MG/KG	12.6				13.3		19.9				22.1				10.7				23.1			
MAGNESIUM	MG/KG	2430	B			1080		923				2810	B			1770				1350			
MANGANESE	MG/KG	124	E			401	E	539	E			473	E			270	E			691	E		
MERCURY	MG/KG	0.1				ND		ND				ND				ND				0.07			
METHYLENE CHLORIDE	UG/KG			ND						ND				ND				ND				ND	
NAPHTHALENE	UG/KG					ND		ND				230				ND				180			
NICKEL	MG/KG	8.6				5.5		6.5				12.3				7				8.9			
N-NITROSODIPHENYLAMINE	UG/KG							ND				ND				ND				ND			
OCDD	NG/KG																						
OCDF	NG/KG																						
PCB (TOTAL)	UG/KG																						
PCB-1254 (AROCHLOR 1254)	UG/KG																						
PCB-1260 (AROCHLOR 1260)	UG/KG																						

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-019				AUS-0A12-022		AUS-0A12-023				AUS-0A12-026				AUS-0A12-027				AUS-0A12-028			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
PENTACHLOROPHENOL	UG/KG							ND				ND				ND				ND			
PHENANTHRENE	UG/KG					7.6		ND				530				84				430			
POTASSIUM	MG/KG	423				314		324				592				471				766	B		
PYRENE	UG/KG					22		ND				200				ND				120			
RDX	UG/KG	ND				ND						ND				ND				ND			
SELENIUM	MG/KG	ND				1.1	E	1				ND				ND				1.1	E		
SILVER	MG/KG	ND				ND		ND				ND				ND				ND			
SODIUM	MG/KG	168	B			ND		ND				ND				ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND						ND				ND				ND				ND	
THALLIUM	MG/KG	ND				ND		ND				ND				ND				ND			
TOLUENE	UG/KG			ND						ND				ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND						ND				ND				ND				ND	
TOTAL HpCDDs	NG/KG																						
TOTAL HpCDFs	NG/KG																						
TOTAL HxCDDs	NG/KG																						
TOTAL HxCDFs	NG/KG																						
TOTAL ORGANIC CARBON	MG/KG	40000																					
TOTAL PeCDDs	NG/KG																						
TOTAL PeCDFs	NG/KG																						
TOTAL TCDFs	NG/KG																						
TRANS-1,2-DICHLOROETHENE	UG/KG			ND						ND				ND				ND				ND	
TRICHLOROETHYLENE (TCE)	UG/KG			ND						ND				ND				ND				ND	
VANADIUM	MG/KG	15				16.8		18.7				18.4				19.8				25.1			
ZINC	MG/KG	67.6	B			28		38.6				106	B			71.9	B			118	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-029								AUS-0A12-031			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND		ND		ND				ND	
ALL SVOC	UG/KG	--				--		ND		--			
ALL EXPLOSIVES	UG/KG	ND				ND		ND		ND			
cPAH	UG/KG	504.23	H			ND		ND		ND			
Mammal TEQ	NG/KG												
Bird TEQ	NG/KG												
1,2,3,4,6,7,8-HpCDD	NG/KG												
1,2,3,4,6,7,8-HpCDF	NG/KG												
1,2,3,4,7,8,9-HpCDF	NG/KG												
1,2,3,4,7,8-HxCDF	NG/KG												
1,2,3,6,7,8-HxCDD	NG/KG												
1,2,3,6,7,8-HxCDF	NG/KG												
1,2,3,7,8,9-HxCDD	NG/KG												
1,2,3,7,8,9-HxCDF	NG/KG												
1,2,3,7,8-PeCDF	NG/KG												
1-METHYLNAPHTHALENE	UG/KG												
2,3,4,6,7,8-HxCDF	NG/KG												
2,3,4,7,8-PeCDF	NG/KG												
2,4,6-TRINITROTOLUENE	UG/KG	ND				ND		ND		ND			
2,4-DINITROTOLUENE	UG/KG	ND				ND		ND		ND			
2,6-DINITROTOLUENE	UG/KG	ND				ND		ND		ND			
2-METHYLNAPHTHALENE	UG/KG	970				42		ND		ND			
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				ND		ND		ND			
4-NITROTOLUENE	UG/KG	ND				ND		ND		ND			
ACENAPHTHENE	UG/KG	ND				ND		ND		ND			
ACENAPHTHYLENE	UG/KG	49				ND		ND		ND			
ACETONE	UG/KG			ND		ND		ND				ND	
ALUMINUM	MG/KG	6930	E			9270	B E	5580	E	7110	E		
ANTHRACENE	UG/KG	100				ND		ND		ND			
ANTIMONY	MG/KG	0.38				ND		0.47	B	ND			
ARSENIC	MG/KG	11.5	E H			12.2	E H	9.6	E H	6.6	H		
BARIUM	MG/KG	70.7				56.5		55.7		59.5			
BENZO(A)ANTHRACENE	UG/KG	320				ND		ND		ND			
BENZO(A)PYRENE	UG/KG	230	H			ND		ND		ND			
BENZO(B)FLUORANTHENE	UG/KG	200				ND		ND		ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND		ND		ND			
BENZO(K)FLUORANTHENE	UG/KG	250				ND		ND		ND			
BERYLLIUM	MG/KG	ND				0.74	B	ND		ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND		ND		90			
BORON	MG/KG	8.1	B E			3	E	2.7	E	ND			
CADMIUM	MG/KG	0.78	B E			ND		ND		0.78	B E		
CALCIUM	MG/KG	36600	B			943		1600		2020			
CARBAZOLE	UG/KG	67				ND		ND		ND			
CARBON TETRACHLORIDE	UG/KG			ND		ND		ND				ND	
CHLOROFORM	UG/KG			ND		ND		ND				ND	
CHROMIUM, TOTAL	MG/KG	9	E			15	B E	11.4	E	10.1	E		
CHRYSENE	UG/KG	330				ND		ND		41			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		ND				ND	
COBALT	MG/KG	ND				ND		ND		ND			
COPPER	MG/KG	8.6				13.6	B	10.8	B	4.8			
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND		ND		ND			
DIBENZOFURAN	UG/KG	310				ND		ND		ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND		ND		ND			
FLUORANTHENE	UG/KG	650				ND		ND		50			
FLUORENE	UG/KG	ND				ND		ND		ND			
HMX	UG/KG	ND				ND		ND		ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	94				ND		ND		ND			
IRON	MG/KG	16500	E			21400	B E	27000	B E	13600	E		
LEAD	MG/KG	17.6				7.9		9.6		11.4			
MAGNESIUM	MG/KG	4770	B			2210	B	1340		1410			
MANGANESE	MG/KG	473	E			174	E	93.6		450	E		
MERCURY	MG/KG	0.1				ND		0.06		ND			
METHYLENE CHLORIDE	UG/KG			ND		ND		ND				ND	
NAPHTHALENE	UG/KG	320				ND		ND		ND			
NICKEL	MG/KG	10.6				12.8	B	16.4	B	6.4			
N-NITROSODIPHENYLAMINE	UG/KG	ND				ND		ND		ND			
OCDD	NG/KG												
OCDF	NG/KG												
PCB (TOTAL)	UG/KG												
PCB-1254 (AROCHLOR 1254)	UG/KG												
PCB-1260 (AROCHLOR 1260)	UG/KG												

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-029								AUS-0A12-031			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
PENTACHLOROPHENOL	UG/KG	ND				ND		ND		1500	E W1 W2		
PHENANTHRENE	UG/KG	820				49		ND		ND			
POTASSIUM	MG/KG	568				391		260		495			
PYRENE	UG/KG	750				ND		ND		60			
RDX	UG/KG	ND				ND		ND		ND			
SELENIUM	MG/KG	ND				1.7	E	ND		0.83			
SILVER	MG/KG	ND				ND		ND		ND			
SODIUM	MG/KG	ND				ND		ND		ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND		ND				ND	
THALLIUM	MG/KG	ND				ND		ND		ND			
TOLUENE	UG/KG			ND		ND		ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		ND		ND				ND	
TOTAL HpCDDs	NG/KG												
TOTAL HpCDFs	NG/KG												
TOTAL HxCDDs	NG/KG												
TOTAL HxCDFs	NG/KG												
TOTAL ORGANIC CARBON	MG/KG												
TOTAL PeCDDs	NG/KG												
TOTAL PeCDFs	NG/KG												
TOTAL TCDFs	NG/KG												
TRANS-1,2-DICHLOROETHENE	UG/KG			ND		ND		ND				ND	
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		ND				ND	
VANADIUM	MG/KG	17				28		35	B	22.2			
ZINC	MG/KG	196	B E			42.4	B	18.4		45.3	B		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-032				AUS-0A12-033				AUS-0A12-034			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**
ALL VOC	UG/KG			ND				ND		ND		ND	
ALL SVOC	UG/KG	--				--				ND		--	
ALL EXPLOSIVES	UG/KG	--				ND				ND		ND	
cPAH	UG/KG	843.9	H			330.13	H			ND		ND	
Mammal TEQ	NG/KG									0.19			
Bird TEQ	NG/KG									0.03			
1,2,3,4,6,7,8-HpCDD	NG/KG									8.93			
1,2,3,4,6,7,8-HpCDF	NG/KG									ND			
1,2,3,4,7,8,9-HpCDF	NG/KG									ND			
1,2,3,4,7,8-HxCDF	NG/KG									ND			
1,2,3,6,7,8-HxCDD	NG/KG									0.223			
1,2,3,6,7,8-HxCDF	NG/KG									ND			
1,2,3,7,8,9-HxCDD	NG/KG									0.216			
1,2,3,7,8,9-HxCDF	NG/KG									ND			
1,2,3,7,8-PeCDF	NG/KG									ND			
1-METHYLNAPHTHALENE	UG/KG												
2,3,4,6,7,8-HxCDF	NG/KG									ND			
2,3,4,7,8-PeCDF	NG/KG									ND			
2,4,6-TRINITROTOLUENE	UG/KG	1500	W2			ND				ND		ND	
2,4-DINITROTOLUENE	UG/KG	ND				ND				ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND				ND				ND		ND	
2-METHYLNAPHTHALENE	UG/KG	8900	W2			1100				ND		ND	
4-AMINO-2,6-DINITROTOLUENE	UG/KG	4600	W2			ND				ND		ND	
4-NITROTOLUENE	UG/KG	6100	W2			ND				ND		ND	
ACENAPHTHENE	UG/KG	ND				ND				ND		ND	
ACENAPHTHYLENE	UG/KG	ND				ND				ND		ND	
ACETONE	UG/KG			ND				ND		ND		ND	
ALUMINUM	MG/KG	2130	E			6460	E			7840	E	22900	B E
ANTHRACENE	UG/KG	590				59				ND		ND	
ANTIMONY	MG/KG	0.29				ND				ND		ND	
ARSENIC	MG/KG	21.9	B E H			8.1	H			7.6	H	6	H
BARIUM	MG/KG	68.3				159				130		85.7	
BENZO(A)ANTHRACENE	UG/KG	1100				140				ND		ND	
BENZO(A)PYRENE	UG/KG	590	H			83				ND		ND	
BENZO(B)FLUORANTHENE	UG/KG	410				67				ND		ND	
BENZO(G,H,I)PERYLENE	UG/KG	340				43				ND		ND	
BENZO(K)FLUORANTHENE	UG/KG	480				77				ND		ND	
BERYLLIUM	MG/KG	ND				ND				0.44		0.54	B
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	260				ND				ND		500	
BORON	MG/KG	50.3	B E			ND				ND		1.3	E
CADMIUM	MG/KG	4.4	B E			0.74	B E			ND		ND	
CALCIUM	MG/KG	4860	B			7380	B			1100		1350	
CARBAZOLE	UG/KG	350				45				ND		ND	
CARBON TETRACHLORIDE	UG/KG			ND				ND		ND		ND	
CHLOROFORM	UG/KG			ND				ND		ND		ND	
CHROMIUM, TOTAL	MG/KG	10.7	E			10.5	E			11.4	E	25.3	B E
CHRYSENE	UG/KG	1100				160				ND		ND	
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND		ND		ND	
COBALT	MG/KG	9				10	B			9.9	B	4.8	
COPPER	MG/KG	10.8	B			11.3	B			4.3		13.6	B
DIBENZ(A,H)ANTHRACENE	UG/KG	88				ND				ND		ND	
DIBENZOFURAN	UG/KG	2800				320				ND		ND	
DI-N-BUTYL PHTHALATE	UG/KG	210				41				ND		ND	
FLUORANTHENE	UG/KG	780				150				ND		ND	
FLUORENE	UG/KG	270				ND				ND		ND	
HMX	UG/KG	7000	W2			ND				ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	210				ND				ND		ND	
IRON	MG/KG	15900	E			14700	E			12900	E	24100	B E
LEAD	MG/KG	63.5	B			26.8	B			17.2		10.1	
MAGNESIUM	MG/KG	1330				2030	B			1020		3100	B
MANGANESE	MG/KG	205	E			1160	E			2060	E H	218	E
MERCURY	MG/KG	0.16	E			ND				0.019		0.034	
METHYLENE CHLORIDE	UG/KG			ND				ND		ND		ND	
NAPHTHALENE	UG/KG	3900	H			510				ND		ND	
NICKEL	MG/KG	12.5				12.5				7		13.7	B
N-NITROSODIPHENYLAMINE	UG/KG	ND				ND				ND		ND	
OCDD	NG/KG									523			
OCDF	NG/KG									ND			
PCB (TOTAL)	UG/KG												
PCB-1254 (AROCHLOR 1254)	UG/KG												
PCB-1260 (AROCHLOR 1260)	UG/KG												

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-032				AUS-0A12-033				AUS-0A12-034			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**
PENTACHLOROPHENOL	UG/KG	ND				ND				ND		ND	
PHENANTHRENE	UG/KG	4800				660				ND		ND	
POTASSIUM	MG/KG	637				592				463		1180	B
PYRENE	UG/KG	1600				230				ND		ND	
RDX	UG/KG	3500	W2			ND				ND		ND	
SELENIUM	MG/KG	2	E			1.2	E			ND		ND	
SILVER	MG/KG	ND				ND				ND		ND	
SODIUM	MG/KG	ND				ND				45		71	
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND		ND		ND	
THALLIUM	MG/KG	0.67	B			ND				ND		ND	
TOLUENE	UG/KG			ND				ND		ND		ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND		ND		ND	
TOTAL HpCDDs	NG/KG									19.9			
TOTAL HpCDFs	NG/KG									ND			
TOTAL HxCDDs	NG/KG									1.15			
TOTAL HxCDFs	NG/KG									ND			
TOTAL ORGANIC CARBON	MG/KG												
TOTAL PeCDDs	NG/KG									ND			
TOTAL PeCDFs	NG/KG									ND			
TOTAL TCDFs	NG/KG									ND			
TRANS-1,2-DICHLOROETHENE	UG/KG			ND				ND		ND		ND	
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND		ND		ND	
VANADIUM	MG/KG	14.9				19.1				32.3	B	39.7	B
ZINC	MG/KG	754	B E			149	B E			20.3		51.6	B

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-035								AUS-0A12-036		AUS-0A12-037				AUS-0A12-038		AUS-0A12-039		AUS-0A12-040		AUS-0A12-041		AUS-0A12-042	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**13 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG			ND		ND		ND						ND								ND			
ALL SVOC	UG/KG	--				ND		ND								--						ND			
ALL EXPLOSIVES	UG/KG	ND				ND		ND		ND		ND				--		ND		ND		ND		ND	
cPAH	UG/KG	457.302	H			ND		ND								354.61	H					ND			
Mammal TEQ	NG/KG																								
Bird TEQ	NG/KG																								
1,2,3,4,6,7,8-HpCDD	NG/KG																								
1,2,3,4,6,7,8-HpCDF	NG/KG																								
1,2,3,4,7,8,9-HpCDF	NG/KG																								
1,2,3,4,7,8-HxCDF	NG/KG																								
1,2,3,6,7,8-HxCDD	NG/KG																								
1,2,3,6,7,8-HxCDF	NG/KG																								
1,2,3,7,8,9-HxCDD	NG/KG																								
1,2,3,7,8,9-HxCDF	NG/KG																								
1,2,3,7,8-PeCDF	NG/KG																								
1-METHYLNAPHTHALENE	UG/KG																								
2,3,4,6,7,8-HxCDF	NG/KG																								
2,3,4,7,8-PeCDF	NG/KG																								
2,4,6-TRINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND				ND		ND		ND		ND		ND	
2,4-DINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND				ND		ND		ND		ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND				ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	130				ND		ND								440						ND			
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				ND		ND		ND		ND				ND		ND		ND		ND		ND	
4-NITROTOLUENE	UG/KG	ND				ND		ND		ND		ND				ND		ND		ND		ND		ND	
ACENAPHTHENE	UG/KG	ND				ND		ND								ND						ND			
ACENAPHTHYLENE	UG/KG	ND				ND		ND								ND						ND			
ACETONE	UG/KG			ND		ND		ND						ND								ND			
ALUMINUM	MG/KG	9500	B E			9650	B E	8160	E	6180	E	11800	B E			4880	E	5590	E	11400	B E	6060	E	7880	E
ANTHRACENE	UG/KG	ND				ND		ND								ND						ND			
ANTIMONY	MG/KG	0.4				ND		0.47	B	ND		ND				0.46	B	ND		0.39				0.34	
ARSENIC	MG/KG	9.9	E H			3.6	H	8.3	H	5.3	H	10.1	E H			13.3	B E H	26.1	B E H	9.6	E H	4.8	H	9.6	E H
BARIUM	MG/KG	95.3				83.7		68.8		119		100				93.5		58.5		29.9		142		30.9	
BENZO(A)ANTHRACENE	UG/KG	42				ND		ND								150						ND			
BENZO(A)PYRENE	UG/KG	ND				ND		ND								79						ND			
BENZO(B)FLUORANTHENE	UG/KG	ND				ND		ND								68						ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND		ND								ND						ND			
BENZO(K)FLUORANTHENE	UG/KG	ND				ND		ND								64						ND			
BERYLLIUM	MG/KG	ND				ND		ND		ND		ND				ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND		ND								53						ND			
BORON	MG/KG	2.5	E			3	E	3.9	E	ND		ND				14.3	B E	20.7	B E	34.8	B E	ND		ND	
CADMIUM	MG/KG	ND				ND		ND		0.5	B E	0.44	B E			2.7	B E	3.4	B E	1.2	B E	0.39	B E	ND	
CALCIUM	MG/KG	3250	B			580		1810		10800	B	3170	B			75100	B	32000	B	7320	B	22100	B	378	
CARBAZOLE	UG/KG	ND				ND		ND								ND						ND			
CARBON TETRACHLORIDE	UG/KG			ND		ND		ND						ND								ND			
CHLOROFORM	UG/KG			ND		ND		ND						ND								ND			
CHROMIUM, TOTAL	MG/KG	11.9	E			12.8	E	16	B E	9.9	E	14.3	B E			6.7	E	6.6	E	9.1	E	8.2	E	9.6	E
CHRYSENE	UG/KG	52				ND		ND								170						ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND		ND		ND						ND								ND			
COBALT	MG/KG	4.2				4.2		11.6	B	7		ND				ND		ND		9.6	B	6		ND	
COPPER	MG/KG	10.2	B			8.9		13.8	B	9.3		13.3	B			12	B	16.3	B	20.9	B	6.8		6.7	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND		ND								ND						ND			
DIBENZOFURAN	UG/KG	44				ND		ND								220						ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND		ND								ND						ND			
FLUORANTHENE	UG/KG	41				ND		ND								190						ND			
FLUORENE	UG/KG	ND				ND		ND								ND						ND			
HMX	UG/KG	ND				ND		ND		ND		ND				2300		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND		ND								ND						ND			
IRON	MG/KG	19700	B E			15600	E	30000	B E	12700	E	21300	B E			18600	E	36300	B E H	21900	B E	11300	E	15200	E
LEAD	MG/KG	18.4				7.9		11.3		12.8		17.4				34.4	B	26.3	B	22.3		9.4		10.4	
MAGNESIUM	MG/KG	2040	B			1620		2710	B	2540	B	2000	B			3730	B	15700	B	451		12400	B	1760	
MANGANESE	MG/KG	266	E			229	E	323	E	325	E	345	E			1500	E	471	E	191	E	1810	E	120	E
MERCURY	MG/KG	ND				ND		ND		ND		0.06				ND		ND		ND		ND		ND	
METHYLENE CHLORIDE	UG/KG			ND		ND		ND						ND								ND			
NAPHTHALENE	UG/KG	45				ND		ND								120						ND			
NICKEL	MG/KG	8.5				10.3		27.1	B	12.8	B	10.5				26	B	18.3	B	17.1	B	8.4		4.8	
N-NITROSODIPHENYLAMINE	UG/KG	ND				ND		ND								ND						ND			
OCDD	NG/KG																								
OCDF	NG/KG																								
PCB (TOTAL)	UG/KG																								
PCB-1254 (AROCHLOR 1254)	UG/KG																								
PCB-1260 (AROCHLOR 1260)	UG/KG																								

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-035								AUS-0A12-036		AUS-0A12-037				AUS-0A12-038		AUS-0A12-039		AUS-0A12-040		AUS-0A12-041		AUS-0A12-042	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**13 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**
PENTACHLOROPHENOL	UG/KG	ND				ND		ND								ND						ND			
PHENANTHRENE	UG/KG	120				ND		ND								680						ND			
POTASSIUM	MG/KG	632				500		674		534		631				576		1430	B	845	B	370		308	
PYRENE	UG/KG	64				ND		ND								220						ND			
RDX	UG/KG	ND				ND		ND		ND		ND				4900	W2	ND		ND		ND		ND	
SELENIUM	MG/KG	ND				ND		ND		ND		ND				1.1	E	1.6	E	1.7	E	0.9		1.2	E
SILVER	MG/KG	ND				ND		ND		ND		ND				0.24		0.61		ND		0.2		ND	
SODIUM	MG/KG	ND				ND		ND		ND		ND				351	B	ND		ND		202	B	ND	
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND		ND						ND								ND			
THALLIUM	MG/KG	ND				ND		ND		ND		ND				ND		ND		ND		ND		ND	
TOLUENE	UG/KG			ND		ND		ND						ND								ND			
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND		ND		ND						ND								ND			
TOTAL HpCDDs	NG/KG																								
TOTAL HpCDFs	NG/KG																								
TOTAL HxCDDs	NG/KG																								
TOTAL HxCDFs	NG/KG																								
TOTAL ORGANIC CARBON	MG/KG																								
TOTAL PeCDDs	NG/KG																								
TOTAL PeCDFs	NG/KG																								
TOTAL TCDFs	NG/KG																								
TRANS-1,2-DICHLOROETHENE	UG/KG			ND		ND		ND						ND								ND			
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND		ND						ND								ND			
VANADIUM	MG/KG	22.6				17.3		18.7		17.6		24.2				12.8		15.9		18.9		14.7		24.8	
ZINC	MG/KG	46.6	B			30.8		54.3	B	74.9	B	57.2	B			267	B E	345	B E	203	B E	30.8		23.1	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-043		AUS-0A12-044		AUS-0A12-045		AUS-0A12-096		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG													
ALL SVOC	UG/KG	--												
ALL EXPLOSIVES	UG/KG	ND		ND		ND								
cPAH	UG/KG	ND										2.1E+02		
Mammal TEQ	NG/KG										8.1E-01	1.6E+01		
Bird TEQ	NG/KG										8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG													
1,2,3,4,6,7,8-HpCDF	NG/KG													
1,2,3,4,7,8,9-HpCDF	NG/KG													
1,2,3,4,7,8-HxCDF	NG/KG													
1,2,3,6,7,8-HxCDD	NG/KG													
1,2,3,6,7,8-HxCDF	NG/KG													
1,2,3,7,8,9-HxCDD	NG/KG													
1,2,3,7,8,9-HxCDF	NG/KG													
1,2,3,7,8-PeCDF	NG/KG													
1-METHYLNAPHTHALENE	UG/KG										4.6E+04	1.9E+04	8.4E+04	7.2E+03
2,3,4,6,7,8-HxCDF	NG/KG													
2,3,4,7,8-PeCDF	NG/KG													
2,4,6-TRINITROTOLUENE	UG/KG	ND		ND		ND					3.0E+04	3.1E+04		7.7E+01
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND					1.3E+03	2.5E+03	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND					3.3E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG	ND									4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND		ND					8.0E+04	1.2E+04		3.1E+01
4-NITROTOLUENE	UG/KG	ND		ND		ND						3.0E+04		9.2E+02
ACENAPHTHENE	UG/KG	ND									8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND									8.3E+03	1.8E+03	8.4E+04	2.4E+04
ACETONE	UG/KG										2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	2700	E	4390	E	5270	E			9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND									1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND		0.31		0.38				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	ND		4	H	6.9	H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	37		73.7		109				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND									3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND									3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND									1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND									1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND									9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND		ND				4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	59									9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		3.1	E	4.4	E			4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		ND		2.1	B E			3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	818		4370	B	11000	B			2.9E+03				
CARBAZOLE	UG/KG	ND									1.3E+04	8.6E+04	6.0E+02	6.0E+02
CARBON TETRACHLORIDE	UG/KG										1.0E+06	5.5E+02	7.0E+01	7.0E+01
CHLOROFORM	UG/KG										1.2E+03	4.7E+02	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	4		6.6	E	9.4	E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND									4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG										7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	ND		ND		ND				9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	ND		7.4		21.3	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND									1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND									2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND									7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND									1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND									2.2E+04	2.6E+06	5.6E+05	5.6E+05
HMX	UG/KG	ND		ND		ND					2.5E+04	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND									9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	4780	E	9490	E	13800	E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	9.3		38.8	B	50.8	B			2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	723		2520	B	4230	B			1.8E+03				
MANGANESE	MG/KG	302	E	679	E	361	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND		ND		ND				2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHYLENE CHLORIDE	UG/KG										4.1E+03	2.1E+04	2.0E+01	2.0E+01
NAPHTHALENE	UG/KG	ND									4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	3.1		6.4		8.3				1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG	ND									2.0E+04	3.5E+05	1.0E+03	1.0E+03
OCDD	NG/KG													
OCDF	NG/KG													
PCB (TOTAL)	UG/KG							49			4.0E+04	7.4E+02		
PCB-1254 (AROCHLOR 1254)	UG/KG							28			3.4E+01	7.4E+02		
PCB-1260 (AROCHLOR 1260)	UG/KG							21			3.4E+01	7.4E+02		

Table 5-63
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 3
(see Figure 5-22 for Locations)

Soil Samples		AUS-0A12-043		AUS-0A12-044		AUS-0A12-045		AUS-0A12-096		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
PENTACHLOROPHENOL	UG/KG	ND									1.2E+02	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	ND									1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	191		367		711	B			6.9E+02				
PYRENE	UG/KG	ND									7.9E+04	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND		ND		ND					1.0E+05	1.6E+04		3.6E+02
SELENIUM	MG/KG	1		0.9		0.89				3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		0.23		ND				6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND		ND				8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG										1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND		ND		ND				5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG										3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG										7.9E+02	1.5E+04	4.0E+02	4.0E+02
TOTAL HpCDDs	NG/KG													
TOTAL HpCDFs	NG/KG													
TOTAL HxCDDs	NG/KG													
TOTAL HxCDFs	NG/KG													
TOTAL ORGANIC CARBON	MG/KG													
TOTAL PeCDDs	NG/KG													
TOTAL PeCDFs	NG/KG													
TOTAL TCDFs	NG/KG													
TRANS-1,2-DICHLOROETHENE	UG/KG										7.9E+02	2.3E+04	7.0E+02	7.0E+02
TRICHLOROETHYLENE (TCE)	UG/KG										9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	8		14.4		16.6				3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	15.8		35.2		263	B E			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-64
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 4
(see Figure 5-23 for Locations)

Soil Samples		AUS-0A12-083		AUS-0A12-084		AUS-0A12-085				AUS-0A12-086				AUS-0A12-087				AUS-0A12-088		AUS-0A12-089				AUS-0A12-091			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG							ND				ND				ND		ND				ND				ND	
ALL SVOC	UG/KG	--		ND		--				--				ND						--				--			
ALL EXPLOSIVES	UG/KG	ND		ND		ND				ND				ND						ND				ND			
cPAH	UG/KG	ND		ND		ND				ND				ND						447.315	H			ND			
Mammal TEQ	NG/KG																										
Bird TEQ	NG/KG																										
1,2,3,4,6,7,8-HpCDD	NG/KG																										
1,2,3,4,6,7,8-HpCDF	NG/KG																										
1,2,3,4,7,8,9-HpCDF	NG/KG																										
1,2,3,4,7,8-HxCDF	NG/KG																										
1,2,3,6,7,8-HxCDD	NG/KG																										
1,2,3,6,7,8-HxCDF	NG/KG																										
1,2,3,7,8,9-HxCDD	NG/KG																										
1,2,3,7,8,9-HxCDF	NG/KG																										
1,2,3,7,8-PeCDF	NG/KG																										
1-METHYLNAPHTHALENE	UG/KG																										
2,3,4,6,7,8-HxCDF	NG/KG																										
2,3,4,7,8-PeCDF	NG/KG																										
2,4,6-TRINITROTOLUENE	UG/KG	ND		ND																							
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
2-METHYLNAPHTHALENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
4-NITROTOLUENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
ACENAPHTHENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
ACENAPHTHYLENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
ACETONE	UG/KG							ND				ND				ND		ND				ND				ND	
ALUMINUM	MG/KG	6900	E	6480	E	4060	E			6600	E			6340	E					5840	E			6850	E		
ANTHRACENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
ANTIMONY	MG/KG	ND		ND		ND								ND						ND				ND			
ARSENIC	MG/KG	7.1	H	4.9	H	ND				5	H			5.3	H					ND				4.8	H		
BARIUM	MG/KG	166		115		47.2				63.9				58.7						65.1				68.1			
BENZO(A)ANTHRACENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
BENZO(A)PYRENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
BENZO(B)FLUORANTHENE	UG/KG	ND		ND		ND				ND				ND						65				ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
BENZO(K)FLUORANTHENE	UG/KG	ND		ND		ND				ND				ND						76				ND			
BERYLLIUM	MG/KG	ND		ND		ND				ND				ND						ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	48		ND		54				1100	E			ND						ND				68			
BORON	MG/KG	ND		ND		ND				2.3	E			2.8	E					1.8	E			1.8	E		
CADMIUM	MG/KG	0.32	E	0.3	E	0.31	E			0.29	E			0.28	E					0.31	E			0.29	E		
CALCIUM	MG/KG	2440		16800	B	23100	B			2580				5190	B					7750	B			4380	B		
CARBAZOLE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
CARBON TETRACHLORIDE	UG/KG							ND				ND				ND		ND				ND				ND	
CHLOROFORM	UG/KG							ND				ND				ND		ND				ND				ND	
CHROMIUM, TOTAL	MG/KG	11.6	E	9.6	E	6.7	E			9.4	E			9.1	E					8.7	E			10.3	E		
CHRYSENE	UG/KG	ND		ND		ND				ND				ND						55				ND			
CIS-1,2-DICHLOROETHYLENE	UG/KG							ND				ND				ND		ND				ND				ND	
COBALT	MG/KG	11.2	B	6.2		ND				ND				ND						ND				ND			
COPPER	MG/KG	10.6	B	7.5		6.2				7.2				8.6						6.3				8.2			
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
DIBENZOFURAN	UG/KG	ND		ND		ND				ND				ND						ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND		550				49				ND						84				50			
FLUORANTHENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
FLUORENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
HMX	UG/KG	ND		ND		ND				ND				ND						ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
IRON	MG/KG	16000	E	12300	E	10400	E			13000	E			16900	E					10100	E			13900	E		
LEAD	MG/KG	12.7		9.8		9.4				10.8				10.7						9.8				10.9			
MAGNESIUM	MG/KG	2150	B	10000	B	1310				1360				1360						2150	B			2330	B		
MANGANESE	MG/KG	541	E	430	E	234	E			391	E			324	E					252	E			478	E		
MERCURY	MG/KG	ND		ND		ND				ND				ND						ND				ND			
METHYLENE CHLORIDE	UG/KG							ND				ND				ND		ND				ND				ND	
NAPHTHALENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
NICKEL	MG/KG	14.6	B	9.5		7				7.3				9.7						8.4				8.4			
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
OCDD	NG/KG																										
OCDF	NG/KG																										
PCB (TOTAL)	UG/KG																										
PCB-1254 (AROCHLOR 1254)	UG/KG																										
PCB-1260 (AROCHLOR 1260)	UG/KG																										

Table 5-64
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 4
(see Figure 5-23 for Locations)

Soil Samples		AUS-0A12-083		AUS-0A12-084		AUS-0A12-085				AUS-0A12-086				AUS-0A12-087				AUS-0A12-088		AUS-0A12-089				AUS-0A12-091			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
PENTACHLOROPHENOL	UG/KG	ND		ND		ND				ND				ND						ND				ND			
PHENANTHRENE	UG/KG	ND		ND		ND				ND				ND						ND				ND			
POTASSIUM	MG/KG	425		506		674				616				602						717	B			555			
PYRENE	UG/KG	ND		ND		ND				ND				ND						42				ND			
RDX	UG/KG	ND		ND		ND				ND				ND						ND				ND			
SELENIUM	MG/KG	ND		ND		0.61				0.79				0.87						0.52				0.63			
SILVER	MG/KG	ND		ND		ND				ND				ND						ND				ND			
SODIUM	MG/KG	ND		ND		ND				ND				ND						ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG							ND				ND				ND		ND				ND				ND	
THALLIUM	MG/KG	ND		ND		ND				ND				ND						ND				ND			
TOLUENE	UG/KG							ND				ND				ND		ND				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG							ND				ND				ND		ND				ND				ND	
TOTAL HpCDDs	NG/KG																										
TOTAL HpCDFs	NG/KG																										
TOTAL HxCDDs	NG/KG																										
TOTAL HxCDFs	NG/KG																										
TOTAL ORGANIC CARBON	MG/KG																										
TOTAL PeCDDs	NG/KG																										
TOTAL PeCDFs	NG/KG																										
TOTAL TCDFs	NG/KG																										
TRANS-1,2-DICHLOROETHENE	UG/KG							ND				ND				ND		ND				ND				ND	
TRICHLOROETHYLENE (TCE)	UG/KG							ND				ND				ND		ND				ND				ND	
VANADIUM	MG/KG	21		18.7		10				18.1				15.3						13.9				18			
ZINC	MG/KG	39.9		33.3		33.4				31.9				30.5						35.8				31.8			

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-64
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 4
(see Figure 5-23 for Locations)

Soil Samples		AUS-0A12-094				AUS-0A12-095		AUS-0A12-W01						AUS-0A12-W02								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**17 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**20 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			--						ND		ND				ND		ND		ND						
ALL SVOC	UG/KG	--						--				--		--				ND		ND						
ALL EXPLOSIVES	UG/KG	ND						ND				ND		ND				ND		ND						
cPAH	UG/KG	ND						344.285	H			ND		ND				ND		ND				2.1E+02		
Mammal TEQ	NG/KG																						8.1E-01	1.6E+01		
Bird TEQ	NG/KG																						8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG																									
1,2,3,4,6,7,8-HpCDF	NG/KG																									
1,2,3,4,7,8,9-HpCDF	NG/KG																									
1,2,3,4,7,8-HxCDF	NG/KG																									
1,2,3,6,7,8-HxCDD	NG/KG																									
1,2,3,6,7,8-HxCDF	NG/KG																									
1,2,3,7,8,9-HxCDD	NG/KG																									
1,2,3,7,8,9-HxCDF	NG/KG																									
1,2,3,7,8-PeCDF	NG/KG																									
1-METHYLNAPHTHALENE	UG/KG																						4.6E+04	1.9E+04	8.4E+04	7.2E+03
2,3,4,6,7,8-HxCDF	NG/KG																									
2,3,4,7,8-PeCDF	NG/KG																									
2,4,6-TRINITROTOLUENE	UG/KG	ND						ND				ND		ND				ND		ND			3.0E+04	3.1E+04		7.7E+01
2,4-DINITROTOLUENE	UG/KG	48	W1 W2					ND				ND		ND				ND		ND			1.3E+03	2.5E+03	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG	ND						ND				ND		ND				ND		ND			3.3E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG	99						880				ND		ND				ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND						ND				ND		ND				ND		ND			8.0E+04	1.2E+04		3.1E+01
4-NITROTOLUENE	UG/KG	ND						ND				ND		ND				ND		ND				3.0E+04		9.2E+02
ACENAPHTHENE	UG/KG	ND						ND				ND		ND				ND		ND			8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND						ND				ND		ND				ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ACETONE	UG/KG			72						ND		ND				ND		ND		ND			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	5010	E			7880	E	3920	E			7470	E	8850	E			7960	E	6430	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND						56				ND		ND				ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND				ND		ND				ND		ND				ND		ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	7.7	H			6	H	3.1	H			4.3	H	6.5	H			8.7	H	1.1		1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	75.8				132		45.8				73.5		110				77.1		42.2		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND						85				ND		ND				ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND						73				ND		ND				ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND						74				ND		ND				ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND						ND				ND		ND				ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND						ND				ND		ND				ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND				ND		0.49				0.68	B	0.5	B			ND		ND		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	92						190				180		ND				ND		ND			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	3	E			ND		16.5	B E			ND		5.6	B E			2.6	E	ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	0.88	B E			0.33	E	1.1	B E			0.25		ND				ND		ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	16300	B			829		13000	B			17200	B	35300	B			589		2710		2.9E+03				
CARBAZOLE	UG/KG	ND						ND				ND		ND				ND		ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CARBON TETRACHLORIDE	UG/KG			ND						ND		ND				ND		ND		ND			1.0E+06	5.5E+02	7.0E+01	7.0E+01
CHLOROFORM	UG/KG			ND						ND		ND				ND		ND		ND			1.2E+03	4.7E+02	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	8.3	E			10.8	E	5.9	E			14.6	B E	11.7	E			13.3	E	12.3	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND						85				ND		ND				ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND						ND		ND				ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	7.1				ND		ND				ND		8.5				6.7		5.6		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	5.7				10.5	B	5.8				12.3	B	8.4				14.9	B	9.5	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND						ND				ND		ND				ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	57						230				ND		ND				ND		ND			2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	130						240				ND		130				ND		ND			7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND						95				ND		ND				ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND						ND				ND		ND				ND		ND			2.2E+04	2.6E+06	5.6E+05	5.6E+05
HMX	UG/KG	ND						ND				ND		ND				ND		ND			2.5E+04	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND						ND				ND		ND				ND		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	12100	E			14200	E	8750	E			17900	E	15200	E			20700	B E	8600	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	28.7	B			12.7		76.7	B			9.7		12.5				11.7		10.9		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	9080	B			1910	B	5550	B			2790	B	4950	B			2160	B	2080	B	1.8E+03				
MANGANESE	MG/KG	1340	E			154	E	523	E			342	E	588	E			417	E	78.4		2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND				ND		ND				ND		ND				ND		0.061		2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHYLENE CHLORIDE	UG/KG			ND						ND		ND				ND		ND		ND			4.1E+03	2.1E+04	2.0E+01	2.0E+01
NAPHTHALENE	UG/KG	ND						410				ND		ND				ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	6.9				7.7		5.7				19.8	B	12.4				14.5	B	18	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG	ND						ND				ND		ND				ND		ND			2.0E+04	3.5E+05	1.0E+03	1.0E+03
OCDD	NG/KG																									
OCDF	NG/KG																									
PCB (TOTAL)	UG/KG																						4.0E+04	7.4E+02		
PCB-1254 (AROCHLOR 1254)	UG/KG																						3.4E+01	7.4E+02		
PCB-1260 (AROCHLOR 1260)	UG/KG																						3.4E+01	7.4E+02		

Table 5-64
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 4
(see Figure 5-23 for Locations)

Soil Samples		AUS-0A12-094				AUS-0A12-095		AUS-0A12-W01						AUS-0A12-W02								Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**17 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**20 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
PENTACHLOROPHENOL	UG/KG	ND						ND				ND		ND				ND		ND			1.2E+02	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	89						380				ND		ND				ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	295				465		423				671		637				570		530		6.9E+02				
PYRENE	UG/KG	ND						140				ND		ND				ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND						ND				ND		ND				ND		ND			1.0E+05	1.6E+04		3.6E+02
SELENIUM	MG/KG	1.1	E			ND		0.84				0.42		1				ND		ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND				ND		ND				0.19		ND				ND		ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND				599	B	ND				450	B	463	B			ND		ND		8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND						ND		ND				ND		ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND				ND		ND				0.24		ND				ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG			ND						ND		ND				ND		ND		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND						ND		ND				ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TOTAL HpCDDs	NG/KG																									
TOTAL HpCDFs	NG/KG																									
TOTAL HxCDDs	NG/KG																									
TOTAL HxCDFs	NG/KG																									
TOTAL ORGANIC CARBON	MG/KG																									
TOTAL PeCDDs	NG/KG																									
TOTAL PeCDFs	NG/KG																									
TOTAL TCDFs	NG/KG																									
TRANS-1,2-DICHLOROETHENE	UG/KG			ND						ND		ND				ND		ND		ND			7.9E+02	2.3E+04	7.0E+02	7.0E+02
TRICHLOROETHYLENE (TCE)	UG/KG			ND						ND		ND				ND		ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	21.3				18.1		11.7				16.1		19.7				21.2		12.6		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	286	B E			36.3		124	B E			46.8	B	38				46.3	B	50.4	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-65
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 5
(see Figure 5-24 for Locations)

Soil Samples		AUS-0A12-050		AUS-0A12-051				AUS-0A12-052		AUS-0A12-053		AUS-0A12-054				AUS-0A12-056		AUS-0A12-058		AUS-0A12-059				AUS-0A12-060	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG					ND								ND											
ALL SVOC	UG/KG			--												--		--						ND	
ALL EXPLOSIVES	UG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
cPAH	UG/KG			408.29	H											482.301	H	ND						ND	
Mammal TEQ	NG/KG																								
Bird TEQ	NG/KG																								
1,2,3,4,6,7,8-HpCDD	NG/KG																								
1,2,3,4,6,7,8-HpCDF	NG/KG																								
1,2,3,4,7,8,9-HpCDF	NG/KG																								
1,2,3,4,7,8-HxCDF	NG/KG																								
1,2,3,6,7,8-HxCDD	NG/KG																								
1,2,3,6,7,8-HxCDF	NG/KG																								
1,2,3,7,8,9-HxCDD	NG/KG																								
1,2,3,7,8,9-HxCDF	NG/KG																								
1,2,3,7,8-PeCDF	NG/KG																								
1-METHYLNAPHTHALENE	UG/KG																								
2,3,4,6,7,8-HxCDF	NG/KG																								
2,3,4,7,8-PeCDF	NG/KG																								
2,4,6-TRINITROTOLUENE	UG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
2,4-DINITROTOLUENE	UG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG			63												ND		ND						ND	
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
4-NITROTOLUENE	UG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
ACENAPHTHENE	UG/KG			ND												ND		ND						ND	
ACENAPHTHYLENE	UG/KG			ND												ND		ND						ND	
ACETONE	UG/KG					ND								ND											
ALUMINUM	MG/KG	6680	E	8430	E			7240	E	5930	E	6970	E			6130	E	8360	E	17100	B E	7390	E	18600	B E
ANTHRACENE	UG/KG			ND												ND		ND						ND	
ANTIMONY	MG/KG	ND		ND				ND		ND		ND				ND		ND		ND		0.37			
ARSENIC	MG/KG	7	H	10.5	E H			19.2	B E H	13.1	E H	9.2	E H			13.1	E H	6.5	H	6.6	H	7.2	H	8.4	H
BARIUM	MG/KG	143		125				461	B	58		242	B			1430	B E	125		131		70		64.2	
BENZO(A)ANTHRACENE	UG/KG			140												ND		ND						ND	
BENZO(A)PYRENE	UG/KG			140												ND		ND						ND	
BENZO(B)FLUORANTHENE	UG/KG			350												71		ND						ND	
BENZO(G,H,I)PERYLENE	UG/KG			ND												ND		ND						ND	
BENZO(K)FLUORANTHENE	UG/KG			100												ND		ND						ND	
BERYLLIUM	MG/KG	ND		ND				ND		ND		ND				1	B	ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG			260												110		ND						ND	
BORON	MG/KG	ND		3.8	E			8.1	B E	14.2	B E	4	E			19.7	B E	3	E	3.1	E	4	E	3.9	E
CADMIUM	MG/KG	2.3	B E	0.53	B E			15.2	B E W1 W2	1.7	B E	0.57	B E			1.8	B E	4.6	B E	0.42	B E	0.91	B E	0.48	B E
CALCIUM	MG/KG	6060	B	2360				46200	B	59700	B	14000	B			2440		4120	B	1740		3300	B	783	
CARBAZOLE	UG/KG			ND												ND		ND						ND	
CARBON TETRACHLORIDE	UG/KG					ND								ND											
CHLOROFORM	UG/KG					ND								ND											
CHROMIUM, TOTAL	MG/KG	10.7	E	14.3	B E			40.4	B E W1 W2	10.1	E	12.3	E			11.2	E	11.8	E	18.7	B E	13.7	E	19.8	B E
CHRYSENE	UG/KG			190												51		ND						ND	
CIS-1,2-DICHLOROETHYLENE	UG/KG					ND								ND											
COBALT	MG/KG	7.1		10.1	B			6.7		ND		10.9	B			30.9	B E	9.7	B	ND		ND		ND	
COPPER	MG/KG	12	B	24.8	B			846	B E	17.2	B	20.4	B			4.6		9.7	B	13.6	B	17.6	B	14.6	B
DIBENZ(A,H)ANTHRACENE	UG/KG			ND												ND		ND						ND	
DIBENZOFURAN	UG/KG			ND												ND		ND						ND	
DI-N-BUTYL PHTHALATE	UG/KG			ND												50		150						ND	
FLUORANTHENE	UG/KG			200												53		ND						ND	
FLUORENE	UG/KG			ND												ND		ND						ND	
HMX	UG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG			81												ND		ND						ND	
IRON	MG/KG	14000	E	21900	B E			25800	B E	25600	B E	16500	E			19700	B E	15800	E	22200	B E	15600	E	24800	B E
LEAD	MG/KG	41.4	B	23				261	B	28.9	B	41.9	B			29.7	B	30.9	B	14.7		48.6	B	13.2	
MAGNESIUM	MG/KG	3570	B	1560				24900	B	27900	B	8520	B			712		2900	B	2690	B	1460		2440	B
MANGANESE	MG/KG	868	E	981	E			817	E	498	E	1280	E			20400	B E H	1120	E	245	E	498	E	152	E
MERCURY	MG/KG	0.07		0.12				0.18	E	0.1		0.08				0.08		0.09		0.06		0.07		0.06	
METHYLENE CHLORIDE	UG/KG					ND								ND											
NAPHTHALENE	UG/KG			ND												ND		ND						ND	
NICKEL	MG/KG	9.5		12.3				53.8	B E	15	B	14.1	B			25	B	12.3		10.2		9.2		11.2	
N-NITROSODIPHENYLAMINE	UG/KG			ND												ND		ND						ND	
OCDD	NG/KG																								
OCDF	NG/KG																								
PCB (TOTAL)	UG/KG																								
PCB-1254 (AROCHLOR 1254)	UG/KG																								
PCB-1260 (AROCHLOR 1260)	UG/KG																								

Table 5-65
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 5
(see Figure 5-24 for Locations)

Soil Samples		AUS-0A12-050		AUS-0A12-051				AUS-0A12-052		AUS-0A12-053		AUS-0A12-054				AUS-0A12-056		AUS-0A12-058		AUS-0A12-059				AUS-0A12-060	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**
PENTACHLOROPHENOL	UG/KG			ND												ND		ND						ND	
PHENANTHRENE	UG/KG			80												ND		ND						ND	
POTASSIUM	MG/KG	419		498				475		552		423				415		525		852	B	485		940	B
PYRENE	UG/KG			210												58		ND						ND	
RDX	UG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
SELENIUM	MG/KG	ND		0.7				ND		ND		1				7.7	B E W1 W2	1.2	E	ND		ND		ND	
SILVER	MG/KG	0.2		0.58				ND		ND		0.43				4	B E	ND		0.34		0.33		0.36	
SODIUM	MG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
TETRACHLOROETHYLENE(PCE)	UG/KG					ND								ND											
THALLIUM	MG/KG	ND		ND				ND		ND		ND				ND		ND		ND		ND		ND	
TOLUENE	UG/KG					ND								ND											
TOTAL 1,2-DICHLOROETHENE	UG/KG					ND								ND											
TOTAL HpCDDs	NG/KG																								
TOTAL HpCDFs	NG/KG																								
TOTAL HxCDDs	NG/KG																								
TOTAL HxCDFs	NG/KG																								
TOTAL ORGANIC CARBON	MG/KG																								
TOTAL PeCDDs	NG/KG																								
TOTAL PeCDFs	NG/KG																								
TOTAL TCDFs	NG/KG																								
TRANS-1,2-DICHLOROETHENE	UG/KG					ND								ND											
TRICHLOROETHYLENE (TCE)	UG/KG					ND								ND											
VANADIUM	MG/KG	20		29.1				10.8		15.7		27.7				34.1	B	21.6		26		23.7		30.9	
ZINC	MG/KG	590	B E	76.1	B			1970	B E	324	B E	91.6	B			144	B E	426	B E	59.9	B	187	B E	54.2	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-65
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 5
(see Figure 5-24 for Locations)

Soil Samples		AUS-0A12-062		AUS-0A12-064								AUS-0A12-066		AUS-0A12-067		AUS-0A12-071						AUS-0A12-072	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL VOC	UG/KG					ND		ND		ND								ND		ND			
ALL SVOC	UG/KG	--		ND				ND		ND				--									
ALL EXPLOSIVES	UG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
cPAH	UG/KG	506.099	H	ND				ND		ND				ND									
Mammal TEQ	NG/KG																						
Bird TEQ	NG/KG																						
1,2,3,4,6,7,8-HpCDD	NG/KG																						
1,2,3,4,6,7,8-HpCDF	NG/KG																						
1,2,3,4,7,8,9-HpCDF	NG/KG																						
1,2,3,4,7,8-HxCDF	NG/KG																						
1,2,3,6,7,8-HxCDD	NG/KG																						
1,2,3,6,7,8-HxCDF	NG/KG																						
1,2,3,7,8,9-HxCDD	NG/KG																						
1,2,3,7,8,9-HxCDF	NG/KG																						
1,2,3,7,8-PeCDF	NG/KG																						
1-METHYLNAPHTHALENE	UG/KG			ND				ND		ND													
2,3,4,6,7,8-HxCDF	NG/KG																						
2,3,4,7,8-PeCDF	NG/KG																						
2,4,6-TRINITROTOLUENE	UG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
2,4-DINITROTOLUENE	UG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND		ND				ND		ND				ND									
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
4-NITROTOLUENE	UG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
ACENAPHTHENE	UG/KG	ND		ND				ND		ND				ND									
ACENAPHTHYLENE	UG/KG	ND		ND				ND		ND				ND									
ACETONE	UG/KG					ND		ND		ND								ND		ND			
ALUMINUM	MG/KG	8200	E	6620	E			9560	B E	6760	E	6110	E	7140	E	8380	E	5780	E	7720	E	6170	E
ANTHRACENE	UG/KG	ND		ND				ND		ND				ND									
ANTIMONY	MG/KG	ND		ND				ND				ND		ND		ND		ND		ND			
ARSENIC	MG/KG	6.7	H	4.5	H			7.4	H	4.8	H	4.2	H	5.9	H	6.5	H	5.2	H	7	H	4.7	H
BARIUM	MG/KG	110		67.5				394	B	65.9		80.5		172		116		57.8		45.9		57.3	
BENZO(A)ANTHRACENE	UG/KG	49		ND				ND		ND				ND									
BENZO(A)PYRENE	UG/KG	ND		ND				ND		ND				ND									
BENZO(B)FLUORANTHENE	UG/KG	53		ND				ND		ND				ND									
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND				ND		ND				ND									
BENZO(K)FLUORANTHENE	UG/KG	ND		ND				ND		ND				ND									
BERYLLIUM	MG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND												560									
BORON	MG/KG	2	E	ND				4.3	E	2.7	E	4.5	E	3.6	E	ND		ND		ND		2.5	E
CADMIUM	MG/KG	0.45	B E	ND				ND		ND		0.46	B E	0.37	B E	ND		ND		ND		0.43	B E
CALCIUM	MG/KG	2830		857				900		1460		4300	B	3190	B	2130		1010		1380		2870	B
CARBAZOLE	UG/KG	ND												ND									
CARBON TETRACHLORIDE	UG/KG					ND		ND		ND								ND		ND			
CHLOROFORM	UG/KG					ND		ND		ND								ND		ND			
CHROMIUM, TOTAL	MG/KG	12.5	E	8.7	E			14.4	B E	11	E	10.6	E	11.2	E	16	B E	9.5	E	16	B E	8.7	E
CHRYSENE	UG/KG	49		ND				ND		ND				ND									
CIS-1,2-DICHLOROETHYLENE	UG/KG					ND		ND		ND								ND		ND			
COBALT	MG/KG	ND		2.6				3.5		9.2		ND		ND		ND		ND		7.2		ND	
COPPER	MG/KG	13	B	5.4				11.8	B	9.7	B	9.2		6.2		9.9	B	5.5		7.2		10.8	B
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND				ND		ND				ND									
DIBENZOFURAN	UG/KG	ND												ND									
DI-N-BUTYL PHTHALATE	UG/KG	ND												ND									
FLUORANTHENE	UG/KG	97		ND				ND		ND				ND									
FLUORENE	UG/KG	ND		ND				ND		ND				ND									
HMX	UG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND				ND		ND				ND									
IRON	MG/KG	15100	E	11200	E			18400	E	13900	E	12500	E	13400	E	16600	E	12600	E	21000	B E	12300	E
LEAD	MG/KG	18.7		13.3				10.3		15.6		14.4		23.6		11.6		11.2		9.9		14.1	
MAGNESIUM	MG/KG	2010	B	1270				2620	B	2030	B	1980	B	1440		2120	B	1310		1320		1370	
MANGANESE	MG/KG	632	E	386	E			186	E	526	E	409	E	1920	E	369	E	348	E	182	E	360	E
MERCURY	MG/KG	0.08		ND				ND		ND		0.11		0.1		0.071		0.065		0.066		ND	
METHYLENE CHLORIDE	UG/KG					ND		ND		ND								ND		ND			
NAPHTHALENE	UG/KG	ND		ND				ND		ND				ND									
NICKEL	MG/KG	12.5		6				13.3	B	13.4	B	13.1	B	12.4		12.5		5.3		12.4		8.1	
N-NITROSODIPHENYLAMINE	UG/KG	ND												ND									
OCDD	NG/KG																						
OCDF	NG/KG																						
PCB (TOTAL)	UG/KG																						
PCB-1254 (AROCHLOR 1254)	UG/KG																						
PCB-1260 (AROCHLOR 1260)	UG/KG																						

Table 5-65
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 5
(see Figure 5-24 for Locations)

Soil Samples		AUS-0A12-062		AUS-0A12-064								AUS-0A12-066		AUS-0A12-067		AUS-0A12-071						AUS-0A12-072	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**
PENTACHLOROPHENOL	UG/KG	ND												ND									
PHENANTHRENE	UG/KG	ND		ND				ND		ND				ND									
POTASSIUM	MG/KG	492		383				558		365		404		614		442		280		327		376	
PYRENE	UG/KG	82		ND				ND		ND				ND									
RDX	UG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
SELENIUM	MG/KG	ND		0.44				0.98		0.46		ND		ND		ND		ND		ND		1.1	E
SILVER	MG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
SODIUM	MG/KG	ND		ND				1040	B	647	B	ND		ND		ND		ND		ND		ND	
TETRACHLOROETHYLENE(PCE)	UG/KG					ND		ND		ND								ND		ND			
THALLIUM	MG/KG	ND		ND				ND		ND		ND		ND		ND		ND		ND		ND	
TOLUENE	UG/KG					ND		ND		ND								ND		ND			
TOTAL 1,2-DICHLOROETHENE	UG/KG					ND		ND		ND								ND		ND			
TOTAL HpCDDs	NG/KG																						
TOTAL HpCDFs	NG/KG																						
TOTAL HxCDDs	NG/KG																						
TOTAL HxCDFs	NG/KG																						
TOTAL ORGANIC CARBON	MG/KG																						
TOTAL PeCDDs	NG/KG																						
TOTAL PeCDFs	NG/KG																						
TOTAL TCDFs	NG/KG																						
TRANS-1,2-DICHLOROETHENE	UG/KG					ND		ND		ND								ND		ND			
TRICHLOROETHYLENE (TCE)	UG/KG					ND		ND		ND								ND		ND			
VANADIUM	MG/KG	22		16.2				20.1		26.9		17.3		21		20.5		18.1		16.6		16.9	
ZINC	MG/KG	77.8	B	32.1				48	B	27.4		65.5	B	37.9		39.2		19		28.5		53.9	B

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-65
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 5
(see Figure 5-24 for Locations)

Soil Samples		AUS-0A12-076				AUS-0A12-097				AUS-0A12-098			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
ALL VOC	UG/KG			--				ND				ND	
ALL SVOC	UG/KG	--				--				--			
ALL EXPLOSIVES	UG/KG	ND				ND				ND			
cPAH	UG/KG	ND				ND				389.28	H		
Mammal TEQ	NG/KG												
Bird TEQ	NG/KG												
1,2,3,4,6,7,8-HpCDD	NG/KG												
1,2,3,4,6,7,8-HpCDF	NG/KG												
1,2,3,4,7,8,9-HpCDF	NG/KG												
1,2,3,4,7,8-HxCDF	NG/KG												
1,2,3,6,7,8-HxCDD	NG/KG												
1,2,3,6,7,8-HxCDF	NG/KG												
1,2,3,7,8,9-HxCDD	NG/KG												
1,2,3,7,8,9-HxCDF	NG/KG												
1,2,3,7,8-PeCDF	NG/KG												
1-METHYLNAPHTHALENE	UG/KG												
2,3,4,6,7,8-HxCDF	NG/KG												
2,3,4,7,8-PeCDF	NG/KG												
2,4,6-TRINITROTOLUENE	UG/KG	ND											
2,4-DINITROTOLUENE	UG/KG	ND				ND				ND			
2,6-DINITROTOLUENE	UG/KG	ND				ND				ND			
2-METHYLNAPHTHALENE	UG/KG	ND				120				83			
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND											
4-NITROTOLUENE	UG/KG	ND											
ACENAPHTHENE	UG/KG	ND				ND				ND			
ACENAPHTHYLENE	UG/KG	ND				ND				ND			
ACETONE	UG/KG			42				ND				ND	
ALUMINUM	MG/KG	16800	B E			4710	E			10100	B E		
ANTHRACENE	UG/KG	ND				ND				ND			
ANTIMONY	MG/KG	ND				ND							
ARSENIC	MG/KG	9.3	E H			4.2	H			8.9	H		
BARIUM	MG/KG	96.3				63.4				74.7			
BENZO(A)ANTHRACENE	UG/KG	ND				ND				130			
BENZO(A)PYRENE	UG/KG	ND				ND				130			
BENZO(B)FLUORANTHENE	UG/KG	ND				ND				170			
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				82			
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				190			
BERYLLIUM	MG/KG	ND				ND				ND			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	190				ND				ND			
BORON	MG/KG	3.3	E			ND				2.1	E		
CADMIUM	MG/KG	0.44	B E			0.26				1	B E		
CALCIUM	MG/KG	1850				1220				3370	B		
CARBAZOLE	UG/KG	ND				ND				ND			
CARBON TETRACHLORIDE	UG/KG			ND				ND				ND	
CHLOROFORM	UG/KG			ND				ND				ND	
CHROMIUM, TOTAL	MG/KG	17.9	B E			6.5	E			13.2	E		
CHRYSENE	UG/KG	ND				ND				180			
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND				ND	
COBALT	MG/KG	ND				5				4.9			
COPPER	MG/KG	18.5	B			4.9				31	B		
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND			
DIBENZOFURAN	UG/KG	ND				51				ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				ND			
FLUORANTHENE	UG/KG	ND				ND				160			
FLUORENE	UG/KG	ND				ND				ND			
HMX	UG/KG	ND											
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				72			
IRON	MG/KG	25000	B E			9680	E			19400	E		
LEAD	MG/KG	12.6				10.4				24			
MAGNESIUM	MG/KG	2680	B			896				1860	B		
MANGANESE	MG/KG	355	E			393	E			316	E		
MERCURY	MG/KG	ND				0.09				ND			
METHYLENE CHLORIDE	UG/KG			ND				ND				ND	
NAPHTHALENE	UG/KG	ND				63				ND			
NICKEL	MG/KG	11.6				3.8				11.9			
N-NITROSODIPHENYLAMINE	UG/KG	ND				ND				ND			
OCDD	NG/KG												
OCDF	NG/KG												
PCB (TOTAL)	UG/KG												
PCB-1254 (AROCHLOR 1254)	UG/KG												
PCB-1260 (AROCHLOR 1260)	UG/KG												

Table 5-65
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 5
(see Figure 5-24 for Locations)

Soil Samples		AUS-0A12-076				AUS-0A12-097				AUS-0A12-098			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**
PENTACHLOROPHENOL	UG/KG	ND				ND				ND			
PHENANTHRENE	UG/KG	ND				100				100			
POTASSIUM	MG/KG	925	B			289				577			
PYRENE	UG/KG	ND				ND				180			
RDX	UG/KG	ND											
SELENIUM	MG/KG	ND				1				ND			
SILVER	MG/KG	0.61				ND				0.3			
SODIUM	MG/KG	4430	B			ND				ND			
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND	
THALLIUM	MG/KG	ND				ND				ND			
TOLUENE	UG/KG			4				ND				ND	
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND				ND	
TOTAL HpCDDs	NG/KG												
TOTAL HpCDFs	NG/KG												
TOTAL HxCDDs	NG/KG												
TOTAL HxCDFs	NG/KG												
TOTAL ORGANIC CARBON	MG/KG												
TOTAL PeCDDs	NG/KG												
TOTAL PeCDFs	NG/KG												
TOTAL TCDFs	NG/KG												
TRANS-1,2-DICHLOROETHENE	UG/KG			ND				ND				ND	
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND				ND	
VANADIUM	MG/KG	30.6				16.8				21.7			
ZINC	MG/KG	47.3	B			16.8				190	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at lea
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were

Table 5-65
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 5
(see Figure 5-24 for Locations)

Soil Samples		AUS-0A12-099										Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**11 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND				ND		ND						
ALL SVOC	UG/KG	ND						ND		ND						
ALL EXPLOSIVES	UG/KG	ND						ND		ND						
cPAH	UG/KG	ND						ND		ND				2.1E+02		
Mammal TEQ	NG/KG					5.20	E						8.1E-01	1.6E+01		
Bird TEQ	NG/KG					6.22	E						8.1E-01	1.6E+01		
1,2,3,4,6,7,8-HpCDD	NG/KG					5.92										
1,2,3,4,6,7,8-HpCDF	NG/KG					77.6										
1,2,3,4,7,8,9-HpCDF	NG/KG					1.71										
1,2,3,4,7,8-HxCDF	NG/KG					25.6										
1,2,3,6,7,8-HxCDD	NG/KG					0.288										
1,2,3,6,7,8-HxCDF	NG/KG					4.3										
1,2,3,7,8,9-HxCDD	NG/KG					0.213										
1,2,3,7,8,9-HxCDF	NG/KG					0.526										
1,2,3,7,8-PeCDF	NG/KG					0.878										
1-METHYLNAPHTHALENE	UG/KG	ND						ND		ND			4.6E+04	1.9E+04	8.4E+04	7.2E+03
2,3,4,6,7,8-HxCDF	NG/KG					1.09										
2,3,4,7,8-PeCDF	NG/KG					2.11										
2,4,6-TRINITROTOLUENE	UG/KG	ND						ND		ND			3.0E+04	3.1E+04		7.7E+01
2,4-DINITROTOLUENE	UG/KG	ND						ND		ND			1.3E+03	2.5E+03	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG	ND						ND		ND			3.3E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG	ND						ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND						ND		ND			8.0E+04	1.2E+04		3.1E+01
4-NITROTOLUENE	UG/KG	ND						ND		ND				3.0E+04		9.2E+02
ACENAPHTHENE	UG/KG	ND						ND		ND			8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND						ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ACETONE	UG/KG			ND				ND		ND			2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	10200	B E					8170	E	5970	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND						ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND						ND				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	7.4	H					6.2	H	5.6	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	103						90.7		93.3		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND						ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND						ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND						ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND						ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND						ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND						ND		ND		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG												9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	2.9	E					3.5	E	2.6	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND						ND		ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2510						880		1290		2.9E+03				
CARBAZOLE	UG/KG												1.3E+04	8.6E+04	6.0E+02	6.0E+02
CARBON TETRACHLORIDE	UG/KG			ND				ND		ND			1.0E+06	5.5E+02	7.0E+01	7.0E+01
CHLOROFORM	UG/KG			ND				ND		ND			1.2E+03	4.7E+02	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	14.1	B E					13.8	B E	11.1	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND						ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG			ND				ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	6.6						6		12.3	B	9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	10.5	B					13.2	B	8.4		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND						ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG												2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG												7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND						ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND						ND		ND			2.2E+04	2.6E+06	5.6E+05	5.6E+05
HMX	UG/KG	ND						ND		ND			2.5E+04	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND						ND		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	18600	E					17600	E	17000	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	14.1						9.7		8.8		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2680	B					2060	B	1390		1.8E+03				
MANGANESE	MG/KG	589	E					240	E	398	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND						ND		ND		2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHYLENE CHLORIDE	UG/KG			ND				ND		ND			4.1E+03	2.1E+04	2.0E+01	2.0E+01
NAPHTHALENE	UG/KG	ND						ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	12.2						15.6	B	12.2		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG												2.0E+04	3.5E+05	1.0E+03	1.0E+03
OCDD	NG/KG					347										
OCDF	NG/KG					101										
PCB (TOTAL)	UG/KG												4.0E+04	7.4E+02		
PCB-1254 (AROCHLOR 1254)	UG/KG												3.4E+01	7.4E+02		
PCB-1260 (AROCHLOR 1260)	UG/KG												3.4E+01	7.4E+02		

Table 5-65
AUS-0A12 - Detections of Constituents in PA/SI Soil Samples - Section 5
(see Figure 5-24 for Locations)

Soil Samples		AUS-0A12-099										Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	Units	0 - 0.5 ft	CE	1 ft	CE	2 ft	CE	5 ft	CE	11 ft	CE	B	E	H	W1	W2
PENTACHLOROPHENOL	UG/KG												1.2E+02	9.0E+03	3.0E+01	4.0E+01
PHENANTHRENE	UG/KG	ND						ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	603						417		254		6.9E+02				
PYRENE	UG/KG	ND						ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND						ND		ND			1.0E+05	1.6E+04		3.6E+02
SELENIUM	MG/KG	1.4	E					ND		0.76		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND						ND		ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND						ND		ND		8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND		ND			1.3E+04	1.3E+03	6.0E+01	6.0E+01
THALLIUM	MG/KG	ND						ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG			ND				ND		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	UG/KG			ND				ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TOTAL HpCDDs	NG/KG					12										
TOTAL HpCDFs	NG/KG					85.2										
TOTAL HxCDDs	NG/KG					1.7										
TOTAL HxCDFs	NG/KG					50.9										
TOTAL ORGANIC CARBON	MG/KG															
TOTAL PeCDDs	NG/KG					0.341										
TOTAL PeCDFs	NG/KG					16										
TOTAL TCDFs	NG/KG					7.48										
TRANS-1,2-DICHLOROETHENE	UG/KG			ND				ND		ND			7.9E+02	2.3E+04	7.0E+02	7.0E+02
TRICHLOROETHYLENE (TCE)	UG/KG			ND				ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	23.6						21.1		20.3		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	39.7						38.6		28.3		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

ast one constituent of that group was detected

20
e based on criteria using pH 6.25 to 6.64

Table 5-66
AUS-0A12 - Detections of Constituents in PA/SI Drum Samples - Section 3
(see Figure 5-22 for Locations)

Drum Samples		AUS-0A12-023-DRUM		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**		**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG	ND						
ALL SVOC	UG/KG	--						
ALL EXPLOSIVES	UG/KG	ND						
cPAH	UG/KG	ND				2.1E+02		
ALUMINUM	MG/KG	5020	E	9.1E+03	5.0E+01	9.2E+04		
ARSENIC	MG/KG	6.4	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	55.5		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	56			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	3.6	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	0.63	B E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3790	B	2.9E+03				
CHROMIUM, TOTAL	MG/KG	9.5	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COPPER	MG/KG	16.7	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
IRON	MG/KG	15600	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	29.8	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1110		1.8E+03				
MANGANESE	MG/KG	623	E	2.4E+03	1.0E+02	1.9E+03		
NICKEL	MG/KG	10.9		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	509		6.9E+02				
SELENIUM	MG/KG	0.42		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.49		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	116	B	8.5E+01				
VANADIUM	MG/KG	18		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	49.7	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-67
AUS-0A12 - Detections of Constituents in PA/SI Sediment Samples - Section 1
(see Figure 5-20 for Locations)

Sediment Samples		AUS-0A12-080		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--						
ALL EXPLOSIVES	UG/KG	--						
cPAH	UG/KG	ND				2.1E+02		
1-METHYLNAPHTHALENE	UG/KG					1.9E+04	8.4E+04	7.2E+03
2,4-DINITROTOLUENE	UG/KG	3200	E H W1 W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG	ND			7.0E+01	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				1.2E+04		3.1E+01
4-METHYLPHENOL (P-CRESOL)	UG/KG	91			4.0E+03	3.1E+05		2.4E+02
ACENAPHTHENE	UG/KG	ND			1.6E+01	2.9E+06	5.7E+05	5.7E+05
ALUMINUM	MG/KG	4960		1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG	ND			5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	ND		1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	44.9		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND			1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND			1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND			2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND			1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND			2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	130			7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	3.4				1.8E+04		
CADMIUM	MG/KG	0.34		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3260	B	1.4E+03				
CARBAZOLE	UG/KG	ND			3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	7.1		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND			1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	ND		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	17.2	B	1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND			3.3E+01	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND			2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	550			1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND			4.2E+02	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	ND			1.0E+01	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND			1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	9250		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	26.1	B	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	761		1.9E+03				
MANGANESE	MG/KG	333		1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	ND		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND			1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	5.8		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG	62			7.0E+02	3.5E+05	1.0E+03	1.0E+03
PHENANTHRENE	UG/KG	ND			2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	383		1.4E+03				
PYRENE	UG/KG	ND			2.0E+02	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	750	E W2		2.0E+02	1.6E+04		3.6E+02
SELENIUM	MG/KG	1.3	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.31		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG							
VANADIUM	MG/KG	12.3		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	76.7	B	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-68
AUS-0A12 - Detections of Constituents in PA/SI Sediment Samples - Section 2
(see Figure 5-21 for Locations)

Sediment Samples		AUS-0A12-001		AUS-0A12-003		AUS-0A12-005		AUS-0A12-006		AUS-0A12-007		AUS-0A12-009		AUS-0A12-012		AUS-0A12-014		AUS-0A12-016		AUS-0A12-017		AUS-0A12-078		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--		ND		ND		ND		--		--		--				ND										
ALL EXPLOSIVES	UG/KG	--		ND		ND		--		ND		--		ND		ND		ND		ND		ND						
cPAH	UG/KG	459.93	H	ND		ND				106.66		194.16		22.375				ND								2.1E+02		
1-METHYLNAPHTHALENE	UG/KG									930		900		ND												1.9E+04	8.4E+04	7.2E+03
2,4-DINITROTOLUENE	UG/KG	630	W1 W2	ND		ND		1300	E W1 W2	ND		ND		ND		ND		ND		ND		ND			6.5E+02	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG	180	E	ND		ND				1900	E	1900	E	150	E			ND							7.0E+01	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND				1.2E+04		3.1E+01
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		ND		ND												ND							4.0E+03	3.1E+05		2.4E+02
ACENAPHTHENE	UG/KG	ND		ND		ND				120	E	ND		ND				ND							1.6E+01	2.9E+06	5.7E+05	5.7E+05
ALUMINUM	MG/KG	5770		4430		10200		6900		5940		6700		8650		8650		5330		8420		11300	B	1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG	ND		ND		ND				94	E	67	E	9.4				ND							5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.75		ND		ND		ND		ND		1.2		ND		ND				ND		ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	5.9	H	1.1		6.2	H	4.8	H	3.5	H	4.6	H	6.4	H	5.3	H	3.1	H	5.3	H	9.1	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	115		58.5		111		102		97.4		167		83.7		171		81.8		73.5		196		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	120	E	ND		ND				90		110	E	11				ND							1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	130		ND		ND				78		140		12				ND							1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	200	E	ND		ND				110	E	200	E	18				ND							2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	110	E	ND		ND				47	E	110	E	ND				ND							1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	79	E	ND		ND				27		72	E	ND				ND							2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND		ND												ND							7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND		ND		ND		2		2.8		ND		ND		ND		ND		4.5		ND				1.8E+04		
CADMIUM	MG/KG	1.1	E	ND		0.33		0.86		0.63		1.6	E	0.76		0.47		0.43		0.81		0.64		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3450	B	1580	B	4600	B	9490	B	3110	B	6260	B	3270	B	2350	B	2790	B	2440	B	2420	B	1.4E+03				
CARBAZOLE	UG/KG	ND		ND		ND												ND							3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	22	B	5.1		13.6		11.9		10.2		17.3	B	13.7		13.2		9.1		12.6		16.2		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	140		ND		ND				290	E	340	E	24				ND							1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	4.9		ND		7.3		3.6		3		ND		ND		6.1		ND		7.6		4.8		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	88.8	B E	ND		27.3	B	12.5		34.1	B E	67.7	B E	14.5		12.1		9.4		22.6	B	18.4	B	1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		ND				ND		16		ND				ND							3.3E+01	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND		ND		ND												ND							2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	1700		ND		ND												ND							1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	140		ND		ND				250		260		30				ND							4.2E+02	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			1.0E+01	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND		ND				11		61	E	ND				ND							1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	13800		3720		17400		17600		9280		16100		10400		14200		7600		14000		23300	B	2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	86	B E	5.7		30	B	23.3		43.8	B E	124	B E	23.9		19.1		12.9		98.8	B E	26.7	B	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1670		789		2810	B	5800	B	1500		2420	B	1540		1610		1420		2260	B	2640	B	1.9E+03				
MANGANESE	MG/KG	832	E	57.7		1720	B E	392		207		152		165		442		64.4		1020	E	273		1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.12		ND		ND		ND		ND		0.19	B E	ND		ND		ND		0.08		ND		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	75		ND		ND				730	E	700	E	230	E			ND							1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	12.6		3.4		15.3		9.9		9		14.6		9.8		10.7		13.4		13.3		11.9		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG	420		ND		ND												ND							7.0E+02	3.5E+05	1.0E+03	1.0E+03
PHENANTHRENE	UG/KG	90		ND		ND				410	E	460	E	30				ND							2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	327		207		687		439		417		442		293		496		278		427		733		1.4E+03				
PYRENE	UG/KG	160		ND		ND				99		210	E	17				ND							2.0E+02	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND		ND		ND		2400	E W2	ND		1600	E W2	ND		ND		ND		ND		ND			2.0E+02	1.6E+04		3.6E+02
SELENIUM	MG/KG	ND		ND		1.6	B	1.1	B	0.78	B	ND		0.34		0.35		ND		0.9	B	1.2	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.79		ND		ND		ND		ND		0.92		ND		0.32		ND		0.45		0.35		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	315		ND		417		ND		310		429		220		182		211		189		ND		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG																											
VANADIUM	MG/KG	16.1		7.5		22.9		16.1		13.4		15.5		17.5		22.2		17.3		20.8		28.7	B	2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	309	B E	12.3		185	B E	281	B E	218	B E	384	B E	91.1	B	55.8		43.8		243	B E	56.7		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-69
AUS-0A12 - Detections of Constituents in PA/SI Sediment Samples - Section 3
(see Figure 5-22 for Locations)

Sediment Samples		AUS-0A12-021		AUS-0A12-024		AUS-0A12-025		AUS-0A12-030		AUS-0A12-048		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG			--		--		--		--						
ALL EXPLOSIVES	UG/KG	ND		ND				ND		ND						
cPAH	UG/KG			ND		ND		ND		ND				2.1E+02		
1-METHYLNAPHTHALENE	UG/KG					ND								1.9E+04	8.4E+04	7.2E+03
2,4-DINITROTOLUENE	UG/KG	ND		ND				ND		ND			6.5E+02	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG			ND		ND		ND		ND			7.0E+01	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND				ND		ND				1.2E+04		3.1E+01
4-METHYLPHENOL (P-CRESOL)	UG/KG			ND				ND		ND			4.0E+03	3.1E+05		2.4E+02
ACENAPHTHENE	UG/KG			ND		ND		ND		ND			1.6E+01	2.9E+06	5.7E+05	5.7E+05
ALUMINUM	MG/KG	6230		5900		9590		13300	B	7530		1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG			ND		ND		ND		ND			5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND		ND		ND		ND				1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	5.5	H	4	H	4.7	H	6.2	H	5.5	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	84.4		197	B	92.8		34		114		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG			ND		ND		ND		ND			1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG			ND		ND		ND		ND			1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG			ND		ND		ND		ND			2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG			ND		ND		ND		ND			1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG			ND		ND		ND		ND			2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND		ND		ND		ND		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG			200				410		110			7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	4.3		ND		ND		9		ND				1.8E+04		
CADMIUM	MG/KG	0.99		0.92		0.34		1.8	B E	0.31		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3140	B	1450	B	2020	B	7390	B	3410	B	1.4E+03				
CARBAZOLE	UG/KG			ND				ND		ND			3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	8.8		10.4		12.7		9.5		10		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG			ND		ND		ND		ND			1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	4.4		ND		ND		ND		ND		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	11.1		7.4		10.4		16.6		13.8		1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG			ND		ND		ND		ND			3.3E+01	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG			ND				ND		ND			2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG			ND				ND		ND			1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG			ND		9.8		ND		ND			4.2E+02	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	ND		ND				ND		ND			1.0E+01	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG			ND		ND		ND		ND			1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	13200		10100		13600		10000		12500		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	21.5		13.4		13.9		28	B	13.4		2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1230		997		2490	B	2350	B	2700	B	1.9E+03				
MANGANESE	MG/KG	257		436		86.9		53.8		397		1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	ND		0.11		ND		1.6	B E W2	0.13		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG			ND		ND		ND		ND			1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	8.9		7.4		11		16.3		10.1		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG			ND				ND		ND			7.0E+02	3.5E+05	1.0E+03	1.0E+03
PHENANTHRENE	UG/KG			ND		9.4		ND		ND			2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	468		374		666		405		454		1.4E+03				
PYRENE	UG/KG			ND		ND		ND		ND			2.0E+02	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND		ND				ND		ND			2.0E+02	1.6E+04		3.6E+02
SELENIUM	MG/KG	1.1	B	1	B	0.96	B	2.5	B	ND		6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		0.23		ND		ND		ND		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND		ND		482		ND		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG					15900										
VANADIUM	MG/KG	18.8		19.6		21.7		22.7		19		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	141	B E	34.3		47		306	B E	43		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-70
AUS-0A12 - Detections of Constituents in PA/SI Sediment Samples - Section 4
(see Figure 5-23 for Locations)

Sediment Samples		AUS-0A12-088		AUS-0A12-090		AUS-0A12-092		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	ND		--								
ALL EXPLOSIVES	UG/KG	--		ND		ND						
cPAH	UG/KG	ND		ND						2.1E+02		
1-METHYLNAPHTHALENE	UG/KG									1.9E+04	8.4E+04	7.2E+03
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND			6.5E+02	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG	ND		ND					7.0E+01	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND		ND				1.2E+04		3.1E+01
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		ND					4.0E+03	3.1E+05		2.4E+02
ACENAPHTHENE	UG/KG	ND		ND					1.6E+01	2.9E+06	5.7E+05	5.7E+05
ALUMINUM	MG/KG	7420		6900		7940		1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG	ND		ND					5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND		ND		ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.2	H	6	H	14.4	B E H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	118		82.8		84.4		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		ND					1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		ND					1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		ND					2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND					1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND		ND					2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND		ND		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		48					7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	1.9		3		4				1.8E+04		
CADMIUM	MG/KG	0.28		0.32		0.76		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2520	B	9770	B	44500	B	1.4E+03				
CARBAZOLE	UG/KG	ND		ND					3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	12.9		11.4		14.5		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		ND					1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	8		6.7		8.8		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	9.8		9.1		8.3		1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND					3.3E+01	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND		ND					2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND					1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND		ND					4.2E+02	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	ND		ND		ND			1.0E+01	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND					1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	16400		15000		25200	B	2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	9.8		10.6		18.3		2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1860		2630	B	24100	B	1.9E+03				
MANGANESE	MG/KG	358		485		1020	E	1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	ND		ND		ND		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND					1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	11.6		8.9		9.1		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND					7.0E+02	3.5E+05	1.0E+03	1.0E+03
PHENANTHRENE	UG/KG	ND		ND					2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	556		500		534		1.4E+03				
PYRENE	UG/KG	ND		ND					2.0E+02	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	640	E W2	ND		ND			2.0E+02	1.6E+04		3.6E+02
SELENIUM	MG/KG	0.81	B	1.2	B	0.96	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		ND		ND		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND		ND		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG											
VANADIUM	MG/KG	20.9		21		31.6	B	2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	35.9		36.9		49.7		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-71
AUS-0A12 - Detections of Constituents in PA/SI Sediment Samples - Section 5
(see Figure 5-24 for Locations)

Sediment Samples		AUS-0A12-046		AUS-0A12-047		AUS-0A12-049		AUS-0A12-055		AUS-0A12-057		AUS-0A12-061		AUS-0A12-063		AUS-0A12-065		AUS-0A12-068		AUS-0A12-069		AUS-0A12-070		AUS-0A12-073	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL SVOC	UG/KG	--		--						--												--			
ALL EXPLOSIVES	UG/KG	ND		ND		--		ND		ND		ND		ND		ND		ND		ND		ND		ND	
cPAH	UG/KG	510.09	H	ND						ND												ND			
1-METHYLNAPHTHALENE	UG/KG																								
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	1100	E	ND						ND												ND			
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND		1100	W2	ND		ND		ND		ND		ND		ND		ND		ND		ND	
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		ND						ND												ND			
ACENAPHTHENE	UG/KG	ND		ND						ND												ND			
ALUMINUM	MG/KG	5290		6940		6790		8120		10900		6450		6940		8040		8250		8710		5040		4200	
ANTHRACENE	UG/KG	69	E	ND						ND												ND			
ANTIMONY	MG/KG	ND		ND		ND		ND				ND		ND		ND		ND		ND		ND		ND	
ARSENIC	MG/KG	13.5	B E H	7.5	H	8.6	H	7.3	H	6.8	H	7.5	H	5.3	H	5.6	H	10	E H	32.6	B E H W1 W2	4.2	H	3.4	H
BARIUM	MG/KG	71.7		62		66		133		99.2		73.2		98		84		129		408	B	59.9		50.6	
BENZO(A)ANTHRACENE	UG/KG	200	E	ND						ND												ND			
BENZO(A)PYRENE	UG/KG	200	E	ND						ND												ND			
BENZO(B)FLUORANTHENE	UG/KG	360	E	ND						ND												ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND						ND												ND			
BENZO(K)FLUORANTHENE	UG/KG	86	E	ND						ND												ND			
BERYLLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		1.8	B	ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	180		160						140												59			
BORON	MG/KG	10.1		ND		ND		5.5		2.7		3.8		4.6		5.6		3.6		12.2		ND		1.7	
CADMIUM	MG/KG	1.8	B E	0.6		0.77		1.6	E	0.33		0.42		0.73		0.76		1	E	ND		0.41		0.4	
CALCIUM	MG/KG	17400	B	5540	B	6850	B	20700	B	1580	B	15500	B	6430	B	4740	B	9510	B	3930	B	3850	B	2810	B
CARBAZOLE	UG/KG	54		ND						ND												ND			
CHROMIUM, TOTAL	MG/KG	8.2		9.8		9.3		11.2		15		9.8		11.3		13.2		13.8		29.1	B	7.4		7.2	
CHRYSENE	UG/KG	230	E	ND						ND												ND			
COBALT	MG/KG	ND		6.2		ND		23.6	B	ND		ND		ND		7.4		7.3		60.5	B E	ND		ND	
COPPER	MG/KG	14.3		5.8		11.5		101	B E	13.1		6.9		14		16.7		15.4		15.7		11.2		9.4	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND						ND												ND			
DIBENZOFURAN	UG/KG	310		ND						ND												ND			
DI-N-BUTYL PHTHALATE	UG/KG	130		ND						ND												ND			
FLUORANTHENE	UG/KG	280		ND						ND												ND			
HMX	UG/KG	ND		ND		780	E	ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND						ND												ND			
IRON	MG/KG	14100		14100		15600		17900		17200		15500		15100		17600		18900		51400	B H	10300		10400	
LEAD	MG/KG	33.5	B	17.7		21.6		119	B E	16.8		14.6		27.1	B	40.7	B E	24.6	B	56.2	B E	16.1		23	
MAGNESIUM	MG/KG	8750	B	3930	B	3990	B	11900	B	2250	B	9260	B	2690	B	1700		5310	B	1690		2550	B	1050	
MANGANESE	MG/KG	307		1030	E	405		1970	B E H	229		1020	E	678	E	479		765	E	9280	B E H	356		144	
MERCURY	MG/KG	0.18	B	0.13		0.1		0.18	B	0.13		0.07		0.12		0.1		0.09		0.07		ND		ND	
NAPHTHALENE	UG/KG	430	E	ND						ND												ND			
NICKEL	MG/KG	9.7		12.5		9.8		29.5	B E	11		7.2		12.5		14.6		12.9		24.2	B E	7.2		7.3	
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND						ND												ND			
PHENANTHRENE	UG/KG	590	E	ND						ND												ND			
POTASSIUM	MG/KG	450		432		356		520		687		532		538		644		654		535		279		269	
PYRENE	UG/KG	310	E	ND						ND												ND			
RDX	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
SELENIUM	MG/KG	ND		1.4	B	ND		0.58		0.7	B	ND		ND		ND		ND		5.1	B W1	ND		1.4	B
SILVER	MG/KG	ND		ND		ND		0.5		0.49		ND		0.24		ND		0.23		2.7	E	ND		ND	
SODIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TOTAL ORGANIC CARBON	MG/KG																	67700							
VANADIUM	MG/KG	17.6		18.7		22.3		17.3		25.1		21.9		21.5		21.2		29.1	B	86.5	B	14.4		16.2	
ZINC	MG/KG	315	B E	139	B E	139	B E	695	B E	48.4		38.8		108	B	187	B E	243	B E	204	B E	77.1	B	174	B E

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-71
AUS-0A12 - Detections of Constituents in PA/SI Sediment Samples - Section 5
(see Figure 5-24 for Locations)

Sediment Samples		AUS-0A12-074		AUS-0A12-075		AUS-0A12-077		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG											
ALL EXPLOSIVES	UG/KG	ND		ND		ND						
cPAH	UG/KG									2.1E+02		
1-METHYLNAPHTHALENE	UG/KG									1.9E+04	8.4E+04	7.2E+03
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND			6.5E+02	2.5E+03	8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	UG/KG								7.0E+01	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND		ND		ND				1.2E+04		3.1E+01
4-METHYLPHENOL (P-CRESOL)	UG/KG								4.0E+03	3.1E+05		2.4E+02
ACENAPHTHENE	UG/KG								1.6E+01	2.9E+06	5.7E+05	5.7E+05
ALUMINUM	MG/KG	4250		4840		6050		1.1E+04	2.6E+04	9.2E+04		
ANTHRACENE	UG/KG								5.7E+01	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	ND		ND		ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	7.9	H	3.8	H	18.1	B E H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	119		87.3		414	B	2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG								1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG								1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG								2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG								1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG								2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		ND		1		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG								7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	2.6		7.9		8.7				1.8E+04		
CADMIUM	MG/KG	0.29		0.56		0.92		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2200	B	4660	B	1930	B	1.4E+03				
CARBAZOLE	UG/KG								3.3E+03	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	7.7		7.6		11		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG								1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	10.9	B	ND		68.3	B E	9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	6.1		10.5		9		1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG								3.3E+01	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG								2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG								1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG								4.2E+02	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	ND		ND		ND			1.0E+01	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG								1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	14600		10900		30000	B	2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	13.9		14.1		50.4	B E	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1190		1250		1170		1.9E+03				
MANGANESE	MG/KG	2000	B E H	498		10400	B E H	1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	ND		0.08		0.09		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG								1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	7.5		8.2		19.7	B	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	UG/KG								7.0E+02	3.5E+05	1.0E+03	1.0E+03
PHENANTHRENE	UG/KG								2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	284		447		366		1.4E+03				
PYRENE	UG/KG								2.0E+02	2.9E+06	4.2E+06	4.2E+06
RDX	UG/KG	ND		ND		ND			2.0E+02	1.6E+04		3.6E+02
SELENIUM	MG/KG	1.7	B	1.2	B	4.1	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.57		ND		2.3	E	3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND		ND		ND		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG											
VANADIUM	MG/KG	24.1		14.4		40.6	B	2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	20		187	B E	36.5		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-72
AUS-0A12 - Detections of Constituents in PA/SI Surface Water Samples - Section 1
(see Figure 5-20 for Locations)

Surface Water Samples		AUS-0A12-020-SW		AUS-0A12-080-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	ND		ND				
ALL SVOC	UG/L	ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND				
2,4-DINITROTOLUENE	UG/L	ND		ND			2.3E+02	
2,6-DINITROTOLUENE	UG/L	ND		ND			4.2E+01	
2-NITROTOLUENE	UG/L	ND		ND			7.3E+03	
ALKALINITY, TOTAL (AS CACO3)	MG/L	97.8						
ALUMINUM	UG/L	161	E	1910	B E	2.0E+02	8.7E+01	
ANTIMONY	UG/L	ND		1		6.0E+00	3.0E+01	
ARSENIC	UG/L	ND		ND		1.0E+01	1.9E+02	
BARIUM	UG/L	23.3	B	61.7	B	2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	ND		ND		5.0E+00	5.3E-01	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	ND		ND			3.0E+00	
BORON	UG/L	ND		ND			1.0E+03	1.0E+03
CALCIUM	UG/L	21500	B	27300	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	ND		ND		1.0E+01	2.1E+02	
CIS-1,2-DICHLOROETHYLENE	UG/L	ND		ND			5.9E+02	
COBALT	UG/L	ND		3.3	E	5.0E+01	2.3E+00	
COPPER	UG/L	ND		ND		1.0E+01	1.2E+01	
HMX	UG/L	ND		ND			3.3E+02	
IRON	UG/L	657	B	4510	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	ND		ND		2.0E+00	2.0E+01	
MAGNESIUM	UG/L	12600	B	5360	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	343		449		5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	ND		ND		2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L	ND		ND		1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L	0.9	B			2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	ND				5.0E-02		
PHOSPHORUS, TOTAL (AS P)	MG/L					5.0E-02		
POTASSIUM	UG/L	ND		ND		1.6E+03	5.3E+04	
RDX	UG/L	ND		ND			1.9E+02	
SELENIUM	UG/L	ND		ND		2.7E+00	1.0E+03	1.0E+03
SILVER	UG/L	ND		ND		1.0E+01	5.0E+00	5.0E+00
SODIUM	UG/L	15300	B	7650	B	3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L	33000						5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L	38						
TETRACHLOROETHYLENE(PCE)	UG/L	ND		ND			1.5E+02	
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	182	B			7.2E+01		1.0E+03
TRICHLOROETHYLENE (TCE)	UG/L	ND		ND			9.4E+02	
VANADIUM	UG/L	ND		ND		5.0E+01	1.9E+01	
ZINC	UG/L	ND		31.2	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-73
AUS-0A12 - Detections of Constituents in PA/SI Surface Water Samples - Section 2
(see Figure 5-21 for Locations)

Surface Water Samples		AUS-0A12-001-SW		AUS-0A12-007-SW		AUS-0A12-012-SW		AUS-0A12-014-SW		AUS-0A12-016-SW		AUS-0A12-078-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	--		ND		ND				ND						
ALL SVOC	UG/L	ND		ND		ND		ND		ND		ND				
ALL EXPLOSIVES	UG/L	--		--		--		ND		--		ND				
2,4-DINITROTOLUENE	UG/L	ND		ND		ND		ND		ND		ND			2.3E+02	
2,6-DINITROTOLUENE	UG/L	ND		ND		ND		ND		ND		ND			4.2E+01	
2-NITROTOLUENE	UG/L	ND		ND		ND		ND		ND		ND			7.3E+03	
ALKALINITY, TOTAL (AS CACO3)	MG/L			201												
ALUMINUM	UG/L	496	B E	856	B E	282	B E	2570	B E	ND		52000	B E	2.0E+02	8.7E+01	
ANTIMONY	UG/L	ND		ND		8.1	B	ND		ND		ND		6.0E+00	3.0E+01	
ARSENIC	UG/L	ND		ND		30.6	B	ND		ND		33.1	B	1.0E+01	1.9E+02	
BARIUM	UG/L	60	B	40.9	B	74.4	B	74.5	B	47.4	B	947	B	2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	ND		ND		0.85	E	0.13		ND		12.2	B E	5.0E+00	5.3E-01	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	ND								ND					3.0E+00	
BORON	UG/L	59.1		66.2		219		ND		254		398			1.0E+03	1.0E+03
CALCIUM	UG/L	77300	B	59100	B	74000	B	28300	B	91500	B	214000	B E	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	ND		0.98		4		ND		ND		47.9	B	1.0E+01	2.1E+02	
CIS-1,2-DICHLOROETHYLENE	UG/L	0.8		ND		ND				ND					5.9E+02	
COBALT	UG/L	ND		ND		9.3	E	4.9	E	ND		73	B E	5.0E+01	2.3E+00	
COPPER	UG/L	ND		ND		135	B E	ND		ND		12.2	B E	1.0E+01	1.2E+01	
HMX	UG/L	7.9		3.6		1.2		ND		2.9		ND			3.3E+02	
IRON	UG/L	664	B	948	B	509	B	5800	B E H	1210	B E H	136000	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	ND		1.1		ND		ND		ND		45.9	B E	2.0E+00	2.0E+01	
MAGNESIUM	UG/L	39000	B	26100	B	34700	B	11200	B	40300	B	93900	B E	2.5E+03	8.2E+04	
MANGANESE	UG/L	46.6		73		102		676	B	107		4700	B E H	5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	0.14	H	ND		ND		ND		ND		ND		2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L	ND		ND		144	B	6.8		ND		111	B	1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L	0.53	B	0.75	B					0.45	B			2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	2.1	B	ND						ND				5.0E-02		
PHOSPHORUS, TOTAL (AS P)	MG/L			0.3	B									5.0E-02		
POTASSIUM	UG/L	2710	B	2270	B	ND		3330	B	2740	B	15100	B	1.6E+03	5.3E+04	
RDX	UG/L	25		2.8		ND		ND		0.64		ND			1.9E+02	
SELENIUM	UG/L	ND		ND		31.3	B	2.1		ND		5.9	B	2.7E+00	1.0E+03	1.0E+03
SILVER	UG/L	ND		ND		9	E H	ND		ND		ND		1.0E+01	5.0E+00	5.0E+00
SODIUM	UG/L	61200	B	32600	B	22200	B	7190	B	22600	B	76400	B	3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L			160000		120000										5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L			30												
TETRACHLOROETHYLENE(PCE)	UG/L	22		ND		ND				ND					1.5E+02	
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			472	B									7.2E+01		1.0E+03
TRICHLOROETHYLENE (TCE)	UG/L	1		ND		ND				ND					9.4E+02	
VANADIUM	UG/L	ND		ND		ND		ND		ND		234	B E	5.0E+01	1.9E+01	
ZINC	UG/L	27.3	B	16.3		79.8	B	29.4	B	16		667	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-74
AUS-0A12 - Detections of Constituents in PA/SI Surface Water Samples - Section 3
(see Figure 5-22 for Locations)

Surface Water Samples		AUS-0A12-021-SW		AUS-0A12-024-SW		AUS-0A12-030-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L					ND				
ALL SVOC	UG/L	ND		--		ND				
ALL EXPLOSIVES	UG/L	ND		ND		--				
2,4-DINITROTOLUENE	UG/L	ND		ND		ND			2.3E+02	
2,6-DINITROTOLUENE	UG/L	ND		ND		ND			4.2E+01	
2-NITROTOLUENE	UG/L	ND							7.3E+03	
ALKALINITY, TOTAL (AS CACO3)	MG/L			176						
ALUMINUM	UG/L	11600	B E	127	E	138	E	2.0E+02	8.7E+01	
ANTIMONY	UG/L	ND		1.6		ND		6.0E+00	3.0E+01	
ARSENIC	UG/L	ND		ND		ND		1.0E+01	1.9E+02	
BARIUM	UG/L	182	B	113	B	87.8	B	2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	0.41		ND		ND		5.0E+00	5.3E-01	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L			1.5		ND			3.0E+00	
BORON	UG/L	207		ND		603			1.0E+03	1.0E+03
CALCIUM	UG/L	74500	B	48400	B	161000	B E	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	12.2	B	ND		ND		1.0E+01	2.1E+02	
CIS-1,2-DICHLOROETHYLENE	UG/L					ND			5.9E+02	
COBALT	UG/L	8.5	E	ND		4	E	5.0E+01	2.3E+00	
COPPER	UG/L	12.1	B E	6.3		3.7		1.0E+01	1.2E+01	
HMX	UG/L	ND		ND		5.8			3.3E+02	
IRON	UG/L	11200	B E H	1720	B E H	5620	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	12.5	B	ND		ND		2.0E+00	2.0E+01	
MAGNESIUM	UG/L	27200	B	16500	B	78700	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	924	B	397		311		5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	ND		ND		ND		2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L	11.3	B	ND		ND		1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L	0.54	B	0.25		0.35	B	2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	0.071	B	0.21	B	0.063	B	5.0E-02		
PHOSPHORUS, TOTAL (AS P)	MG/L							5.0E-02		
POTASSIUM	UG/L	3870	B	4050	B	3750	B	1.6E+03	5.3E+04	
RDX	UG/L	ND		ND		1.4			1.9E+02	
SELENIUM	UG/L	3.5	B	2.1		2		2.7E+00	1.0E+03	1.0E+03
SILVER	UG/L	ND		ND		ND		1.0E+01	5.0E+00	5.0E+00
SODIUM	UG/L	12400	B	10700	B	54100	B	3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L			14000		590000	H			5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L			80						
TETRACHLOROETHYLENE(PCE)	UG/L					ND			1.5E+02	
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			250	B	1140	B H	7.2E+01		1.0E+03
TRICHLOROETHYLENE (TCE)	UG/L					ND			9.4E+02	
VANADIUM	UG/L	24.6	E	ND		ND		5.0E+01	1.9E+01	
ZINC	UG/L	106	B	ND		30.1	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-75
AUS-0A12 - Detections of Constituents in PA/SI Surface Water Samples - Section 4
(see Figure 5-23 for Locations)

Surface Water Samples		AUS-0A12-092-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L					
ALL SVOC	UG/L	--				
ALL EXPLOSIVES	UG/L	--				
2,4-DINITROTOLUENE	UG/L	0.38			2.3E+02	
2,6-DINITROTOLUENE	UG/L	2.1			4.2E+01	
2-NITROTOLUENE	UG/L	1.4			7.3E+03	
ALKALINITY, TOTAL (AS CACO3)	MG/L					
ALUMINUM	UG/L	469	B E	2.0E+02	8.7E+01	
ANTIMONY	UG/L	ND		6.0E+00	3.0E+01	
ARSENIC	UG/L	ND		1.0E+01	1.9E+02	
BARIUM	UG/L	63.7	B	2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	ND		5.0E+00	5.3E-01	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L				3.0E+00	
BORON	UG/L	470			1.0E+03	1.0E+03
CALCIUM	UG/L	153000	B E	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	ND		1.0E+01	2.1E+02	
CIS-1,2-DICHLOROETHYLENE	UG/L				5.9E+02	
COBALT	UG/L	ND		5.0E+01	2.3E+00	
COPPER	UG/L	ND		1.0E+01	1.2E+01	
HMX	UG/L	ND			3.3E+02	
IRON	UG/L	560	B	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	ND		2.0E+00	2.0E+01	
MAGNESIUM	UG/L	107000	B E	2.5E+03	8.2E+04	
MANGANESE	UG/L	56.9		5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	ND		2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L	ND		1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L	0.24		2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	35.9	B	5.0E-02		
PHOSPHORUS, TOTAL (AS P)	MG/L			5.0E-02		
POTASSIUM	UG/L	ND		1.6E+03	5.3E+04	
RDX	UG/L	ND			1.9E+02	
SELENIUM	UG/L	3.4	B	2.7E+00	1.0E+03	1.0E+03
SILVER	UG/L	ND		1.0E+01	5.0E+00	5.0E+00
SODIUM	UG/L	114000	B	3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L					5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L					
TETRACHLOROETHYLENE(PCE)	UG/L				1.5E+02	
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			7.2E+01		1.0E+03
TRICHLOROETHYLENE (TCE)	UG/L				9.4E+02	
VANADIUM	UG/L	ND		5.0E+01	1.9E+01	
ZINC	UG/L	28.2	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-76
AUS-0A12 - Detections of Constituents in PA/SI Surface Water Samples - Section 5
(see Figure 5-24 for Locations)

Surface Water Samples		AUS-0A12-060-SW		AUS-0A12-074-SW		AUS-0A12-077-SW		AUS-0A12-079-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	ND										
ALL SVOC	UG/L	--		ND		ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND		ND		--				
2,4-DINITROTOLUENE	UG/L	ND		ND		ND		ND			2.3E+02	
2,6-DINITROTOLUENE	UG/L	ND		ND		ND		ND			4.2E+01	
2-NITROTOLUENE	UG/L			ND		ND		ND			7.3E+03	
ALKALINITY, TOTAL (AS CACO3)	MG/L	31.8										
ALUMINUM	UG/L	411	B E	3340	B E	14400	B E	191	E	2.0E+02	8.7E+01	
ANTIMONY	UG/L	ND		1.3		ND		ND		6.0E+00	3.0E+01	
ARSENIC	UG/L	ND		ND		ND		ND		1.0E+01	1.9E+02	
BARIUM	UG/L	54.7	B	101	B	196	B	39.1	B	2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	ND		ND		1.4	E	ND		5.0E+00	5.3E-01	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	1.1									3.0E+00	
BORON	UG/L	ND		331		364		ND			1.0E+03	1.0E+03
CALCIUM	UG/L	6670		103000	B	103000	B	76700	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	ND		4		13.3	B	18.6	B	1.0E+01	2.1E+02	
CIS-1,2-DICHLOROETHYLENE	UG/L	ND									5.9E+02	
COBALT	UG/L	ND		6.8	E	19	E	ND		5.0E+01	2.3E+00	
COPPER	UG/L	4.1		ND		47	B E	15.8	B E	1.0E+01	1.2E+01	
HMX	UG/L	ND		ND		ND		1.2			3.3E+02	
IRON	UG/L	1290	B E H	4780	B E H	14000	B E H	369	B	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	ND		ND		17.1	B	ND		2.0E+00	2.0E+01	
MAGNESIUM	UG/L	4620	B	63800	B	64100	B	18000	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	282		857	B	2830	B E H	61.2		5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	ND		ND		ND		ND		2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L	ND		7.6		50.3	B	21	B	1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L	0.58	B	0.51	B					2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	ND		15.9	B					5.0E-02		
PHOSPHORUS, TOTAL (AS P)	MG/L									5.0E-02		
POTASSIUM	UG/L	ND		ND		3830	B	ND		1.6E+03	5.3E+04	
RDX	UG/L	ND		ND		ND		2.9			1.9E+02	
SELENIUM	UG/L	ND		3.9	B	3.8	B	ND		2.7E+00	1.0E+03	1.0E+03
SILVER	UG/L	ND		ND		ND		ND		1.0E+01	5.0E+00	5.0E+00
SODIUM	UG/L	2390		68200	B	73500	B	13600	B	3.2E+03	6.8E+05	
SULFATE (AS SO4)	UG/L	9600										5.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L	169										
TETRACHLOROETHYLENE(PCE)	UG/L	ND									1.5E+02	
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE	MG/L	52								7.2E+01		1.0E+03
TRICHLOROETHYLENE (TCE)	UG/L	ND									9.4E+02	
VANADIUM	UG/L	ND		ND		37.3	E	ND		5.0E+01	1.9E+01	
ZINC	UG/L	ND		36.9	B	72.2	B	16.6		2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-77
AUS-0A12 - Detections of Constituents in PA/SI Groundwater Samples - Section 1
(see Figure 5-20 for Locations)

Groundwater Samples		AUS-0A12-018-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		
ALL SVOC	UG/L	ND		
ALL EXPLOSIVES	UG/L	--		
1,2-DICHLOROETHANE	UG/L	ND		5.0E+00
2,4,6-TRINITROTOLUENE	UG/L	ND		1.4E+01
2-AMINO-4,6-DINITROTOLUENE	UG/L	ND		5.6E+00
2-METHYLNAPHTHALENE	UG/L	ND		2.8E+01
4-AMINO-2,6-DINITROTOLUENE	UG/L	ND		5.6E+00
ALKALINITY, TOTAL (AS CACO3)	MG/L			
ALUMINUM	UG/L	162000	C1	3.5E+03
ANTIMONY	UG/L	ND		6.0E+00
ARSENIC	UG/L	57.2	C1	5.0E+01
BARIUM	UG/L	1110		2.0E+03
BERYLLIUM	UG/L	8.1	C1	4.0E+00
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L			6.0E+00
BORON	UG/L	ND		2.0E+03
CADMIUM	UG/L	ND		5.0E+00
CALCIUM	UG/L	74400		
CARBON TETRACHLORIDE	UG/L	ND		5.0E+00
CHLOROFORM	UG/L	ND		2.0E-01
CHLOROMETHANE	UG/L	ND		2.8E+01
CHROMIUM, TOTAL	UG/L	185	C1	1.0E+02
CHRYSENE	UG/L	ND		1.5E+00
CIS-1,2-DICHLOROETHYLENE	UG/L	ND		7.0E+01
COBALT	UG/L	62.3		1.0E+03
COPPER	UG/L	118		6.5E+02
DIETHYL PHTHALATE	UG/L			5.6E+03
DI-N-BUTYL PHTHALATE	UG/L			7.0E+02
FLUORANTHENE	UG/L	ND		2.8E+02
HMX	UG/L	ND		
IRON	UG/L	189000	C1	5.0E+03
LEAD	UG/L	108	C1	7.5E+00
MAGNESIUM	UG/L	49700		
MANGANESE	UG/L	2130	C1	1.5E+02
MERCURY	UG/L	ND		2.0E+00
METHYL ETHYL KETONE (2-BUTANONE)	UG/L	ND		4.2E+03
METHYLENE CHLORIDE	UG/L	ND		5.0E+00
NICKEL	UG/L	147	C1	1.0E+02
NITROBENZENE	UG/L	ND		3.5E+00
NITROGEN, AMMONIA (AS N)	MG/L			
NITROGEN, NITRATE-NITRITE	MG/L			1.0E+01
PHENANTHRENE	UG/L	ND		2.1E+02
PHOSPHORUS, TOTAL (AS P)	UG/L			
PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	UG/L			
POTASSIUM	UG/L	13500		
PYRENE	UG/L	ND		2.1E+02
RDX	UG/L	4		8.4E+01
SELENIUM	UG/L	9.8		5.0E+01
SILVER	UG/L	ND		5.0E+01
SODIUM	UG/L	60900		
SULFATE (AS SO4)	UG/L			4.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L			
TETRACHLOROETHYLENE(PCE)	UG/L	ND		5.0E+00
THALLIUM	UG/L	ND		2.0E+00
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			
TRANS-1,2-DICHLOROETHENE	UG/L	ND		1.0E+02
TRICHLOROETHYLENE (TCE)	UG/L	ND		5.0E+00
VANADIUM	UG/L	214	C1	4.9E+01
ZINC	UG/L	554		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-78
AUS-0A12 - Detections of Constituents in PA/SI Groundwater Samples - Section 2
(see Figure 5-21 for Locations)

Groundwater Samples		AUS-0A12-008-GW		AUS-0A12-010-GW		AUS-0A12-013-GW		AUS-0A12-015-GW		AUS-0A12-093-GW		AUS-0A12-100-GW		AUS-0A12-MW-COP4-2-GW		AUS-0A12-MW-COP4-4-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	--		ND		--		ND		--		--		ND		--		
ALL SVOC	UG/L	--		--		ND		ND		ND		ND		ND		ND		
ALL EXPLOSIVES	UG/L	--		--		--		--		--		--		--		ND		
1,2-DICHLOROETHANE	UG/L	ND		ND		ND		ND		ND		39	C1	ND		ND		5.0E+00
2,4,6-TRINITROTOLUENE	UG/L	ND		1.3		ND		3		ND		ND		ND		ND		1.4E+01
2-AMINO-4,6-DINITROTOLUENE	UG/L	ND		0.79		ND		ND		ND		ND		ND		ND		5.6E+00
2-METHYLNAPHTHALENE	UG/L	ND		2.1		ND		ND		ND		ND		ND		ND		2.8E+01
4-AMINO-2,6-DINITROTOLUENE	UG/L	ND		2.6		ND		0.62		ND		ND		ND		ND		5.6E+00
ALKALINITY, TOTAL (AS CACO3)	MG/L															490		
ALUMINUM	UG/L	500000	C1	93200	C1	318000	C1	33400	C1	227000	C1	106000	C1	ND		339		3.5E+03
ANTIMONY	UG/L	8.7	C1	7.9	C1	17.2	C1	ND		4.3		ND		ND		ND		6.0E+00
ARSENIC	UG/L	142	C1	47.5		91.4	C1	ND		116	C1	71.2	C1	ND		ND		5.0E+01
BARIUM	UG/L	6570	C1	1010		13300	C1	339		2050	C1	578		33.4		35.4		2.0E+03
BERYLLIUM	UG/L	22.3	C1	3.8		23.8	C1	ND		13.3	C1	5.8	C1	ND		ND		4.0E+00
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	1.1				ND								ND		ND		6.0E+00
BORON	UG/L	896		393		287		156		262		186		224		ND		2.0E+03
CADMIUM	UG/L	20.5	C1	15.6	C1	5.7	C1	ND		4.7		ND		ND		ND		5.0E+00
CALCIUM	UG/L	236000		161000		275000		97100		149000		80000		122000		79000		
CARBON TETRACHLORIDE	UG/L	ND		ND		ND		ND		ND		1200	C1	ND		ND		5.0E+00
CHLOROFORM	UG/L	28	C1	ND		ND		ND		ND		630	C1	ND		ND		2.0E-01
CHLOROMETHANE	UG/L	ND		ND		ND		ND		ND		ND		ND		ND		2.8E+01
CHROMIUM, TOTAL	UG/L	738	C1	120	C1	316	C1	31.8		254	C1	137	C1	ND		ND		1.0E+02
CHRYSENE	UG/L	1.8	C1	ND		ND		ND		ND		ND		ND		ND		1.5E+00
CIS-1,2-DICHLOROETHYLENE	UG/L	130	C1	ND		7		ND		8		ND		ND		ND		7.0E+01
COBALT	UG/L	302		46.3		137		31.3		126		103		ND		ND		1.0E+03
COPPER	UG/L	5150	C1	1490	C1	720	C1	30.7		521		84.9		ND		ND		6.5E+02
DIETHYL PHTHALATE	UG/L	2				ND								ND		ND		5.6E+03
DI-N-BUTYL PHTHALATE	UG/L	1.1				ND								ND		ND		7.0E+02
FLUORANTHENE	UG/L	2.1		0.68		ND		ND		ND		ND		ND		ND		2.8E+02
HMX	UG/L	8		10		34		54		3.4		ND		ND		ND		
IRON	UG/L	417000	C1	98000	C1	240000	C1	39700	C1	227000	C1	193000	C1	ND		302		5.0E+03
LEAD	UG/L	2880	C1	666	C1	2660	C1	45.5	C1	440	C1	73.9	C1	ND		ND		7.5E+00
MAGNESIUM	UG/L	102000		55100		137000		55600		76000		81000		80100		81000		
MANGANESE	UG/L	27400	C1	2310	C1	9610	C1	8140	C1	7520	C1	3760	C1	78		166	C1	1.5E+02
MERCURY	UG/L	4.1	C1	0.84		0.78		ND		ND		36.9	C1	ND		ND		2.0E+00
METHYL ETHYL KETONE (2-BUTANONE)	UG/L	4		ND		ND		ND		ND		ND		ND		ND		4.2E+03
METHYLENE CHLORIDE	UG/L	ND		ND		ND		ND		ND		220	C1	ND		ND		5.0E+00
NICKEL	UG/L	515	C1	156	C1	354	C1	30.6		267	C1	201	C1	ND		1.9		1.0E+02
NITROBENZENE	UG/L	ND		ND		ND		ND		ND		1		ND		ND		3.5E+00
NITROGEN, AMMONIA (AS N)	MG/L			0.38												ND		
NITROGEN, NITRATE-NITRITE	MG/L			0.27												69.2	C1	1.0E+01
PHENANTHRENE	UG/L	1.2		0.37		ND		ND		ND		ND		ND		ND		2.1E+02
PHOSPHORUS, TOTAL (AS P)	UG/L			2.9												0.19		
PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	UG/L			5.6														
POTASSIUM	UG/L	30600		9800		21500		3360		18500		12500		1220		ND		
PYRENE	UG/L	1.5		0.35		ND		ND		ND		ND		ND		ND		2.1E+02
RDX	UG/L	25		56		190	C1	890	C1	4.3		1.3		1.1		ND		8.4E+01
SELENIUM	UG/L	18.9		5.4		13.7		6.5		29.4		5		ND		ND		5.0E+01
SILVER	UG/L	23.4		8.3		ND		ND		5.9		ND		ND		ND		5.0E+01
SODIUM	UG/L	137000		87300		82700		71700		66000		167000		43100		338000		
SULFATE (AS SO4)	UG/L															750000	C1	4.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L															11.5		
TETRACHLOROETHYLENE(PCE)	UG/L	54	C1	ND		ND		ND		7	C1	ND		ND		0.7		5.0E+00
THALLIUM	UG/L	3.2	C1	ND		1.8		ND		2.7	C1	ND		ND		ND		2.0E+00
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L															1590		
TRANS-1,2-DICHLOROETHENE	UG/L	1		ND		ND		ND		ND		ND		ND		ND		1.0E+02
TRICHLOROETHYLENE (TCE)	UG/L	6	C1	ND		ND		ND		5		ND		ND		ND		5.0E+00
VANADIUM	UG/L	562	C1	138	C1	333	C1	52.4	C1	330	C1	141	C1	ND		ND		4.9E+01
ZINC	UG/L	58500	C1	7570	C1	4080		126		3460		539		2.4		2.8		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-79
AUS-0A12 - Detections of Constituents in PA/SI Groundwater Samples - Section 3
(see Figure 5-22 for Locations)

Groundwater Samples		AUS-0A12-035-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		
ALL SVOC	UG/L	ND		
ALL EXPLOSIVES	UG/L	--		
1,2-DICHLOROETHANE	UG/L	ND		5.0E+00
2,4,6-TRINITROTOLUENE	UG/L	22	C1	1.4E+01
2-AMINO-4,6-DINITROTOLUENE	UG/L	ND		5.6E+00
2-METHYLNAPHTHALENE	UG/L	ND		2.8E+01
4-AMINO-2,6-DINITROTOLUENE	UG/L	ND		5.6E+00
ALKALINITY, TOTAL (AS CACO3)	MG/L			
ALUMINUM	UG/L	115000	C1	3.5E+03
ANTIMONY	UG/L	ND		6.0E+00
ARSENIC	UG/L	49		5.0E+01
BARIUM	UG/L	1190		2.0E+03
BERYLLIUM	UG/L	6.3	C1	4.0E+00
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	ND		6.0E+00
BORON	UG/L	149		2.0E+03
CADMIUM	UG/L	ND		5.0E+00
CALCIUM	UG/L	71300		
CARBON TETRACHLORIDE	UG/L	ND		5.0E+00
CHLOROFORM	UG/L	ND		2.0E-01
CHLOROMETHANE	UG/L	ND		2.8E+01
CHROMIUM, TOTAL	UG/L	144	C1	1.0E+02
CHRYSENE	UG/L	ND		1.5E+00
CIS-1,2-DICHLOROETHYLENE	UG/L	ND		7.0E+01
COBALT	UG/L	86		1.0E+03
COPPER	UG/L	62.8		6.5E+02
DIETHYL PHTHALATE	UG/L	ND		5.6E+03
DI-N-BUTYL PHTHALATE	UG/L	ND		7.0E+02
FLUORANTHENE	UG/L	ND		2.8E+02
HMX	UG/L	30		
IRON	UG/L	158000	C1	5.0E+03
LEAD	UG/L	69.4	C1	7.5E+00
MAGNESIUM	UG/L	45100		
MANGANESE	UG/L	5240	C1	1.5E+02
MERCURY	UG/L	ND		2.0E+00
METHYL ETHYL KETONE (2-BUTANONE)	UG/L	ND		4.2E+03
METHYLENE CHLORIDE	UG/L	ND		5.0E+00
NICKEL	UG/L	177	C1	1.0E+02
NITROBENZENE	UG/L	ND		3.5E+00
NITROGEN, AMMONIA (AS N)	MG/L			
NITROGEN, NITRATE-NITRITE	MG/L			1.0E+01
PHENANTHRENE	UG/L	ND		2.1E+02
PHOSPHORUS, TOTAL (AS P)	UG/L	2.2		
PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	UG/L	1.5		
POTASSIUM	UG/L	8360		
PYRENE	UG/L	ND		2.1E+02
RDX	UG/L	44		8.4E+01
SELENIUM	UG/L	2.7		5.0E+01
SILVER	UG/L	ND		5.0E+01
SODIUM	UG/L	48400		
SULFATE (AS SO4)	UG/L			4.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L			
TETRACHLOROETHYLENE(PCE)	UG/L	ND		5.0E+00
THALLIUM	UG/L	ND		2.0E+00
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L			
TRANS-1,2-DICHLOROETHENE	UG/L	ND		1.0E+02
TRICHLOROETHYLENE (TCE)	UG/L	ND		5.0E+00
VANADIUM	UG/L	152	C1	4.9E+01
ZINC	UG/L	429		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-80
AUS-0A12 - Detections of Constituents in PA/SI Groundwater Samples - Section 4
(see Figure 5-23 for Locations)

Groundwater Samples		AUS-0A12-W01-GW		AUS-0A12-W02-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		--		
ALL SVOC	UG/L	ND		ND		
ALL EXPLOSIVES	UG/L	ND		ND		
1,2-DICHLOROETHANE	UG/L	ND		ND		5.0E+00
2,4,6-TRINITROTOLUENE	UG/L	ND		ND		1.4E+01
2-AMINO-4,6-DINITROTOLUENE	UG/L	ND		ND		5.6E+00
2-METHYLNAPHTHALENE	UG/L	ND		ND		2.8E+01
4-AMINO-2,6-DINITROTOLUENE	UG/L	ND		ND		5.6E+00
ALKALINITY, TOTAL (AS CACO3)	MG/L	496				
ALUMINUM	UG/L	132000	C1	368		3.5E+03
ANTIMONY	UG/L	ND		ND		6.0E+00
ARSENIC	UG/L	76.2	C1	ND		5.0E+01
BARIUM	UG/L	1650		59.7		2.0E+03
BERYLLIUM	UG/L	12.8	C1	ND		4.0E+00
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	ND		ND		6.0E+00
BORON	UG/L	ND		ND		2.0E+03
CADMIUM	UG/L	ND		ND		5.0E+00
CALCIUM	UG/L	85200		74500		
CARBON TETRACHLORIDE	UG/L	ND		ND		5.0E+00
CHLOROFORM	UG/L	ND		ND		2.0E-01
CHLOROMETHANE	UG/L	ND		0.7		2.8E+01
CHROMIUM, TOTAL	UG/L	215	C1	34.1		1.0E+02
CHRYSENE	UG/L	ND		ND		1.5E+00
CIS-1,2-DICHLOROETHYLENE	UG/L	ND		ND		7.0E+01
COBALT	UG/L	132		ND		1.0E+03
COPPER	UG/L	184		ND		6.5E+02
DIETHYL PHTHALATE	UG/L	ND		ND		5.6E+03
DI-N-BUTYL PHTHALATE	UG/L	ND		ND		7.0E+02
FLUORANTHENE	UG/L	ND		ND		2.8E+02
HMX	UG/L	ND		ND		
IRON	UG/L	298000	C1	394		5.0E+03
LEAD	UG/L	119	C1	ND		7.5E+00
MAGNESIUM	UG/L	78300		37100		
MANGANESE	UG/L	7310	C1	47.2		1.5E+02
MERCURY	UG/L	0.32		ND		2.0E+00
METHYL ETHYL KETONE (2-BUTANONE)	UG/L	ND		ND		4.2E+03
METHYLENE CHLORIDE	UG/L	ND		ND		5.0E+00
NICKEL	UG/L	290	C1	2.3		1.0E+02
NITROBENZENE	UG/L	ND		ND		3.5E+00
NITROGEN, AMMONIA (AS N)	MG/L	0.15				
NITROGEN, NITRATE-NITRITE	MG/L	0.066				1.0E+01
PHENANTHRENE	UG/L	ND		ND		2.1E+02
PHOSPHORUS, TOTAL (AS P)	UG/L	0.82				
PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	UG/L					
POTASSIUM	UG/L	7850		752		
PYRENE	UG/L	ND		ND		2.1E+02
RDX	UG/L	ND		ND		8.4E+01
SELENIUM	UG/L	8.2		ND		5.0E+01
SILVER	UG/L	ND		ND		5.0E+01
SODIUM	UG/L	194000		20800		
SULFATE (AS SO4)	UG/L	260000				4.0E+05
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	MG/L	770				
TETRACHLOROETHYLENE(PCE)	UG/L	ND		ND		5.0E+00
THALLIUM	UG/L	ND		ND		2.0E+00
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	MG/L	888				
TRANS-1,2-DICHLOROETHENE	UG/L	ND		ND		1.0E+02
TRICHLOROETHYLENE (TCE)	UG/L	ND		ND		5.0E+00
VANADIUM	UG/L	270	C1	ND		4.9E+01
ZINC	UG/L	644		2.8		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-81
AUS-0A13 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-25 for Locations)

Soil Samples		AUS-0A13-001		AUS-0A13-002		AUS-0A13-003		AUS-0A13-004		AUS-0A13-005		AUS-0A13-006		AUS-0A13-007		AUS-0A13-008		AUS-0A13-009		AUS-0A13-010		AUS-0A13-011		AUS-0A13-012	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL SVOC	UG/KG	ND		--		--		--		--		ND		--		--		ND		--		--		--	
ALL EXPLOSIVES	UG/KG	ND		ND		ND		--		ND		ND		ND		--		ND		--		--		ND	
cPAH	UG/KG	ND		304.33	H	496.695	H	878.1	H	1126.6	H	ND		700.25	H	777.72	H	ND		315.19	H	ND		415.861	H
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND		64000	E H W1 W2	ND		ND		ND		170	W1 W2	ND		1000	W1 W2	250	W1 W2	ND	
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND		2900	E H W1 W2	ND		ND		ND		ND		ND		70	E W1 W2	ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND		ND		42		86		ND		ND		ND		ND		ND		ND		ND		130	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		160		ND		ND	
ACENAPHTHENE	UG/KG	ND		ND		ND		ND		83		ND		71		ND		ND		ND		ND		ND	
ACENAPHTHYLENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG	6490	E	6350	E	7290	E	7720	E	8170	E	4530	E	7750	E	5610	E	6460	E	1830	E	6320	E	5760	E
ANTHRACENE	UG/KG	ND		ND		ND		79		230		ND		150		86		ND		ND		ND		220	
ANTIMONY	MG/KG	ND		ND		ND		1.3	B	0.99	B	ND		ND		ND		ND		ND		ND		ND	
ARSENIC	MG/KG	5.6	H	5.7	H	7.7	H	4.5	H	4.3	H	2.1	H	8.1	H	5.5	H	5.1	H	4.2	H	5.5	H	5.6	H
BARIUM	MG/KG	110		59.7		245	B	145		152		49.5		110		50.3		90.7		21.4		142		114	
BENZO(A)ANTHRACENE	UG/KG	ND		62		100		440		760		ND		480		440		ND		52		ND		ND	
BENZO(A)PYRENE	UG/KG	ND		67		130		570	H	640	H	ND		420	H	440	H	ND		58		ND		ND	
BENZO(B)FLUORANTHENE	UG/KG	ND		47		160		630		740		ND		560		600		ND		91		ND		ND	
BENZO(G,H,I)PERYLENE	UG/KG	ND		ND		94		360		600		ND		330		250		ND		ND		ND		ND	
BENZO(K)FLUORANTHENE	UG/KG	ND		82		130		640		740		ND		550		410		ND		79		ND		ND	
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND		ND		390	E	ND		ND		ND		ND		ND		47		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND		ND		470		110		ND		ND		ND		ND		330		210		49	
BORON	MG/KG	3.2	E	2.2	E	3.1	E	4.3	E	4.3	E	ND		1.6	E	2.6	E	ND		2.5	E	3	E	2	E
CADMIUM	MG/KG	ND		ND		ND		0.54	B E	0.53	B E	ND		ND		0.13		ND		0.29	E	0.25		ND	
CALCIUM	MG/KG	2410		1400		51500	B	34800	B	21800	B	890		1250		112000	B	2180		359000	B	21600	B	5790	B
CARBAZOLE	UG/KG	ND		ND		ND		90		160		ND		110		57		ND		ND		ND		ND	
CHROMIUM, TOTAL	MG/KG	9.1	E	10.1	E	11.9	E	12.1	E	12.1	E	6.1	E	11.7	E	6.7	E	10.2	E	3.7		11.5	E	8.5	E
CHRYSENE	UG/KG	ND		110		190		700		1200		ND		750		620		ND		100		ND		61	
COBALT	MG/KG	13.3	B	4.3		18.2	B	ND		4.7		1.4		7.3		2.2		4.2		ND		6.8		7.8	
COPPER	MG/KG	6.5		8.9		10.9	B	117	B E	109	B E	4		8.6		6.4		6.1		5.4		11.9	B	5.2	
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		ND		160		280	H	ND		140		ND		ND		ND		ND		ND	
DIBENZOFURAN	UG/KG	ND		ND		140		ND		ND		ND		ND		73		ND		45		ND		440	
DIMETHYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		68		ND		ND	
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND		ND		230000	E	ND		ND		ND		390		ND		1600	E	2400	E	89	
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND		ND		85		ND		ND		ND		ND		ND		ND		ND		ND	
FLUORANTHENE	UG/KG	ND		180		260		840		1300		ND		1400		1000		ND		86		ND		ND	
FLUORENE	UG/KG	ND		ND		ND		ND		88		ND		82		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		ND		88		340		480		ND		300		240		ND		ND		ND		ND	
IRON	MG/KG	13900	E	13600	E	16900	E	14400	E	13200	E	4740	E	16700	E	11500	E	12300	E	8730	E	13400	E	10800	E
LEAD	MG/KG	14.6		13.5		12.8		72.8	B	73	B	10.5		16.1		7.3		14		6		26.3	B	16.2	
MAGNESIUM	MG/KG	949		1340		5030	B	17900	B	12300	B	605		1480		42900	B	1290		17600	B	5480	B	3100	B
MANGANESE	MG/KG	1300	E	406	E	1300	E	538	E	721	E	304	E	999	E	284	E	604	E	346	E	487	E	892	E
MERCURY	MG/KG	ND		ND		ND		0.83	B E	ND		ND		ND		ND		ND		ND		ND		ND	
NAPHTHALENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		110	
NICKEL	MG/KG	7.6		6.6		18	B	13.3	B	14.2	B	3.6		10.2		7		7.8		13.6	B	17.3	B	7.7	
NITROGLYCERIN	UG/KG	ND		ND		ND		300000	H W2	ND		ND		ND		ND		ND		ND		3200	W2	ND	
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND		ND		52000	E W1 W2	ND		ND		ND		ND		ND		220		1100	W1 W2	380	
PHENANTHRENE	UG/KG	ND		130		170		490		1100		ND		940		550		ND		67		ND		270	
PHENOL	UG/KG	ND		ND		ND		55		ND		ND		ND		ND		ND		ND		ND		ND	
POTASSIUM	MG/KG	383		347		567		889	B	858	B	213		630		541		313		647		668		311	
PYRENE	UG/KG	ND		160		190		760		1800		ND		970		1200		ND		110		ND		ND	
SELENIUM	MG/KG	1.2	E	0.6		1.1	E	ND		0.89		0.3		0.55		ND		1		ND		0.95		ND	
SILVER	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
SODIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
THALLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
TOTAL ORGANIC CARBON	MG/KG																								
VANADIUM	MG/KG	20.5		20.4		19.3		13.2		13.3		11.1		23		11.8		18.6		3.6		17.1		16.2	
ZINC	MG/KG	24.5		24.2		44.4	B	207	B E	236	B E	15.4		34		26.7		26.7		42.5	B	59.9	B	22.7	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-81
AUS-0A13 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-25 for Locations)

Soil Samples		AUS-0A13-013		AUS-0A13-014		AUS-0A13-015		AUS-0A13-016		AUS-0A13-017		AUS-0A13-018		AUS-0A13-019		AUS-0A13-020		AUS-0A13-021		AUS-0A13-022		AUS-0A13-023		AUS-0A13-024	
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**
ALL SVOC	UG/KG	ND		--		--		--		--		--		ND		--		--		ND		--		--	
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		--		ND		ND		ND		ND		ND		ND	
cPAH	UG/KG	ND		781.63	H	335.935	H	718.87	H	ND		617.69	H	ND		336.456	H	480.065	H	ND		385.96	H	312.231	H
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
2-METHYLNAPHTHALENE	UG/KG	ND		ND		ND		ND		ND		54		ND		ND		ND		ND		ND		ND	
4-CHLORO-3-METHYLPHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ACENAPHTHENE	UG/KG	ND		ND		ND		55		ND		ND		ND		ND		ND		ND		ND		ND	
ACENAPHTHYLENE	UG/KG	ND		120		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
ALUMINUM	MG/KG	7880	E	5730	E	4870	E	4900	E	6370	E	4300	E	5560	E	6240	E	5520	E	4840	E	6080	E	6600	E
ANTHRACENE	UG/KG	ND		59		ND		100		ND		53		ND		ND		ND		ND		ND		ND	
ANTIMONY	MG/KG	ND		1.6	B	ND		0.38		ND		0.33		0.29		ND		0.66	B	0.37		0.28		ND	
ARSENIC	MG/KG	4.8	H	6.5	H	4.1	H	5.3	H	3.6	H	4	H	4.1	H	5.4	H	9.9	E H	2.4	H	6.6	H	9.1	E H
BARIUM	MG/KG	129		135		54.6		145		78.9		41.9		82.1		104		110		90.5		108		163	
BENZO(A)ANTHRACENE	UG/KG	ND		400		76		350		ND		250		ND		69		ND		ND		110		70	
BENZO(A)PYRENE	UG/KG	ND		480	H	78		360	H	ND		310	H	ND		70		ND		ND		130		65	
BENZO(B)FLUORANTHENE	UG/KG	ND		780		130		470		ND		460		ND		89		47		ND		160		86	
BENZO(G,H,I)PERYLENE	UG/KG	ND		270		ND		190		ND		180		ND		ND		ND		ND		76		ND	
BENZO(K)FLUORANTHENE	UG/KG	ND		510		74		340		ND		330		ND		110		ND		ND		160		55	
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND		ND		ND		ND		2300	E	ND		92		57		ND		48		860	
BORON	MG/KG	1.8	E	5.8	B E	ND		ND		1.8	E	2.2	E	1.6	E	2.4	E	3.9	E	ND		ND		1.6	E
CADMIUM	MG/KG	ND		0.12		ND		ND		ND		0.24		ND		0.15		ND		ND		ND		ND	
CALCIUM	MG/KG	1980		20000	B	16400	B	6430	B	20200	B	124000	B	3880	B	17100	B	18500	B	2850		7370	B	7310	B
CARBAZOLE	UG/KG	ND		ND		ND		86		ND		ND		ND		ND		ND		ND		ND		ND	
CHROMIUM, TOTAL	MG/KG	15.2	B E	155	B E W1 W2	6.3	E	5.8	E	9.8	E	7.4	E	7.2	E	9.1	E	13.3	E	7	E	8.6	E	10.9	E
CHRYSENE	UG/KG	ND		530		95		470		ND		390		ND		130		ND		ND		160		81	
COBALT	MG/KG	8		5.4		ND		6.5		4.7		2.6		3.2		5		5.9		4		4.9		5.5	
COPPER	MG/KG	9.6	B	13.8	B	4.4		11.5	B	7.9		30.2	B	15.4	B	9.2		14.1	B	7.3		13.2	B	14.2	B
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		150		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
DIBENZOFURAN	UG/KG	ND		72		ND		ND		59		140		ND		ND		ND		ND		ND		ND	
DIMETHYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
DI-N-BUTYL PHTHALATE	UG/KG	ND		300		ND		ND		850	E	230		ND		ND		ND		ND		47		140	
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND		ND		ND		59		ND		ND		ND		ND		ND		ND		ND	
FLUORANTHENE	UG/KG	ND		480		72		850		ND		520		ND		170		54		ND		260		180	
FLUORENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		280		ND		180		ND		180		ND		ND		ND		ND		72		ND	
IRON	MG/KG	16100	E	25200	B E	8290	E	9790	E	11200	E	8890	E	8440	E	11300	E	22200	B E	7260	E	11800	E	16200	E
LEAD	MG/KG	11.6		25.7		8.8		15.4		9		11.2		12		37.6	B	35.6	B	10.5		18		14.8	
MAGNESIUM	MG/KG	2150	B	4690	B	9890	B	1320		3150	B	7900	B	1610		9880	B	1960	B	1850	B	4110	B	4380	B
MANGANESE	MG/KG	609	E	1170	E	205	E	1500	E	654	E	220	E	631	E	597	E	837	E	506	E	343	E	491	E
MERCURY	MG/KG	ND		ND		ND		ND		ND		ND		ND		0.08		ND		ND		ND		ND	
NAPHTHALENE	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
NICKEL	MG/KG	17.2	B	10.9		4		6.7		10.4		8.3		6.9		9		8.6		6.1		9.5		11	
NITROGLYCERIN	UG/KG	ND		ND		ND		ND		ND		2300	W2	ND		ND		ND		ND		ND		ND	
N-NITROSODIPHENYLAMINE	UG/KG	ND		150		ND		ND		280		67		ND		ND		ND		ND		ND		ND	
PHENANTHRENE	UG/KG	ND		130		ND		600		ND		310		ND		78		ND		ND		69		100	
PHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
POTASSIUM	MG/KG	396		341		339		346		499		483		4740	B	413		5790	B	1820	B	4260	B	4340	B
PYRENE	UG/KG	ND		720		120		900		ND		620		ND		160		65		ND		220		140	
SELENIUM	MG/KG	0.27		0.95		0.17		1.6	E	1		0.55		1.1	E	0.95		1.6	E	0.56		1.1	E	1.4	E
SILVER	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND	
SODIUM	MG/KG	ND		ND		ND		ND		ND		ND		1120	B	ND		1160	B	3230	B	1070	B	1930	B
THALLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		ND		0.24		ND		ND		ND	
TOTAL ORGANIC CARBON	MG/KG															35300									
VANADIUM	MG/KG	22.4		26.5		13.7		17.7		18.1		10.1		14.9		16.9		23.9		14.2		19.2		23.3	
ZINC	MG/KG	32.9		69.3	B	26.4		21.3		32.3		45.1	B	39.5		39.3		47.3	B	16.8		50.7	B	39.8	

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-81
AUS-0A13 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-25 for Locations)

Soil Samples		AUS-0A13-025		AUS-0A13-026		AUS-0A13-027		AUS-0A13-028		AUS-0A13-029		AUS-0A13-030		AUS-0A13-031		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--		--		--		ND		--		--		ND						
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND						
cPAH	UG/KG	ND		436.99	H	1081.4	H	ND		8866.8	H	464.03	H	ND				2.1E+02		
2,4-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND			1.3E+03	2.5E+03	8.0E-01	8.0E-01
2,6-DINITROTOLUENE	UG/KG	ND		ND		ND		ND		ND		ND		ND			3.3E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG	ND		ND		ND		ND		65		ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-CHLORO-3-METHYLPHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND			8.0E+03			
ACENAPHTHENE	UG/KG	ND		ND		68		ND		580		ND		ND			8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	ND		ND		ND		ND		ND		ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	5970	E	6360	E	7710	E	7180	E	6020	E	4780	E	6920	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND		ND		230		ND		1600		ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.42		ND		ND				ND		ND		0.27		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	5.1	H	5.9	H	4.7	H	7	H	6.6	H	3.6	H	9	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	62.9		63		102		80.5		72		57.2		95.8		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		130		680		ND		5500	E H W1 W2	150		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		140		670	H	ND		5300	E H	190		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		150		760		ND		6700	E H W1 W2	170		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		89		390		ND		4300		110		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND		140		740		ND		5900		200		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND			2.4E+02	9.3E+05	9.3E+05	9.3E+05
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND		91		ND		ND		11000	E	ND			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	2.1	E	ND		1.9	E	ND		4.2	E	3.7	E	3.4	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		ND		ND		ND		ND		0.2		ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	4340	B	6210	B	22000	B	1400		82200	B	47500	B	2590		2.9E+03				
CARBAZOLE	UG/KG	ND		ND		160		ND		960	W1 W2	ND		ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	8.8	E	9.5	E	11.1	E	12.2	E	10.4	E	7.1	E	12.7	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		190		1000		ND		7800	E	230		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	3.5		4.7		4.5		7.9		5.2		ND		8.3		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	9.1		7.6		8.8		9.7	B	8.2		7.5		8.6		9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		ND		220	H	ND		1900	H	ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND		ND		ND		ND		260		ND		ND			2.5E+04	1.6E+05		1.5E+04
DIMETHYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND			2.0E+05	1.3E+06		3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND			7.1E+02	2.3E+06	2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND		ND		ND		ND		ND		ND			6.1E+05	2.5E+06	1.0E+07	1.0E+07
FLUORANTHENE	UG/KG	47		290		1500		ND		11000		290		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND		ND		79		ND		550		ND		ND			2.2E+04	2.6E+06	5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		74		390		ND		3800	H	98		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	12300	E	13200	E	13500	E	16100	E	16500	E	9360	E	16300	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	12.1		19.3		15		15.5		15.5		25.1		15		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1480		3630	B	9270	B	1820		19300	B	21300	B	2200	B	1.8E+03				
MANGANESE	MG/KG	124	E	219	E	402	E	446	E	500	E	403	E	560	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND		0.1		0.07		0.07		0.1		0.06		0.1		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND		ND		ND		ND		ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	6.9		7.4		9.5		11.3		11.4		7.4		12.8	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
NITROGLYCERIN	UG/KG	ND		ND		ND		ND		ND		ND		ND				1.0E+05		2.0E+01
N-NITROSODIPHENYLAMINE	UG/KG	ND		ND		ND		ND		ND		ND		ND			2.0E+04	3.5E+05	1.0E+03	1.0E+03
PHENANTHRENE	UG/KG	ND		130		1100		ND		7600		140		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
PHENOL	UG/KG	ND		ND		ND		ND		ND		ND		ND			4.0E+04	1.8E+07	1.0E+05	1.0E+05
POTASSIUM	MG/KG	4630	B	401		613		432		633		630		623		6.9E+02				
PYRENE	UG/KG	ND		250		1500		ND		9500		290		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	1.4	E	0.94		1		1.1	E	1.2	E	1.2	E	4.2	B E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		ND		ND		0.37		ND		ND		0.55		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	1250	B	ND		ND		ND		ND		ND		ND		8.5E+01				
THALLIUM	MG/KG	ND		ND		ND		ND		ND		ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOTAL ORGANIC CARBON	MG/KG																			
VANADIUM	MG/KG	20.4		19.9		17		20.7		17.5		10.1		21.5		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	27.7		34		42.3	B	35.6		32.3		44.1	B	33.1		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-82
AUS-0062 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-26 for Locations)

Soil Samples		AUS-0062-001						AUS-0062-002				AUS-0062-003				AUS-0062-006				AUS-0062-008				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND		ND				ND				ND				ND		--		--						
ALL EXPLOSIVES	UG/KG	ND				ND		ND				ND				ND						ND						
ALUMINUM	MG/KG	12700	B E			12300	B E	15000	B E			11100	B E			13500	B E					28000	B E	9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	0.27				ND		ND				0.52	B			0.27						ND		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6	H			3.5	H	8.6	H			6.4	H			7.6	H					5.1	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	99.1				98.8		87.5				105				73.6						58.1		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.62	B			0.65	B	0.42				0.71	B			0.53	B					0.58	B	4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	ND				ND		1.6	E			1.6	E			ND						ND		4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND				ND		ND				0.63	B E			0.78	B E					ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2150				1730		1080				1540				2140						2390		2.9E+03				
CHROMIUM, TOTAL	MG/KG	18.6	B E			19.5	B E	20.8	B E			21.3	B E			21.5	B E					29.8	B E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	10	B			3.6		6.2				8.6				6.3						8.8		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	11.1	B			9.6	B	15.6	B			13.4	B			12.8	B					13.5	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
IRON	MG/KG	21200	B E			13100	E	22300	B E			17200	E			26100	B E					24500	B E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	9.2				11.1		17				14.9				37.5	B					16.5		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1820				2160	B	2820	B			1960	B			2170	B					3230	B	1.8E+03				
MANGANESE	MG/KG	541	E			168	E	311	E			367	E			398	E					201	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.028				0.024		0.017				0.038				0.021						0.051		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	19.7	B			16.3	B	13.6	B			24.1	B			13.8	B					20.2	B	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	1070	B			578		1300	B			1290	B			1140	B					920	B	6.9E+02				
SELENIUM	MG/KG	ND				ND		ND				1.1	E			0.38						ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	52.2				130	B	49.7				57.7				40.8						545	B	8.5E+01				
THALLIUM	MG/KG	ND				ND		ND				0.66	B			ND						ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TRICHLOROETHYLENE (TCE)	UG/KG			ND		ND				ND				ND				ND		3		4			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	34.7	B			31.1		36	B			43	B			37.7	B					35.5	B	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	47.2	B			27.9		53.2	B			56	B			55.5	B					49	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-83
AUS-0062 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-26 for Locations)

Sediment Samples		AUS-0062-004		AUS-0062-005		AUS-0062-007		AUS-0062-008		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND						
ALUMINUM	MG/KG	8900		13900	B	13600	B	12100	B	1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	ND		ND		0.41		0.25		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	3.8	H	3.3	H	15.8	B E H	5.5	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	200	B	108		171		131		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.69		0.65		1.7	B	0.74		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	4.6		1		3.3		ND				1.8E+04		
CADMIUM	MG/KG	0.92		ND		1.5	E	ND		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	1920	B	1220		2930	B	1340		1.4E+03				
CHROMIUM, TOTAL	MG/KG	10.2		34.4	B	28.8	B	21.2	B	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	9.1		3.7		14.7	B	11.4	B	9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	32.7	B E	10.3		20.1	B	8.4		1.7E+01	3.2E+01	4.1E+03		5.9E+04
IRON	MG/KG	10600		15700		39700	B H	18300		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	10		14.1		28.8	B	14.2		2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	2510	B	1740		2460	B	1760		1.9E+03				
MANGANESE	MG/KG	447		92.3		472		652	E	1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.033		0.03		0.035		0.041		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	26.4	B E	13.2		47.7	B E	19.5	B	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	3360	B	838		1410		780		1.4E+03				
SELENIUM	MG/KG	ND		ND		1.6	B	0.8	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.31		ND		ND		ND		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	224		53.1		111		73.2		1.5E+03				
THALLIUM	MG/KG	0.55	B	ND		ND		ND		3.1E-01		6.7E+00		2.6E+00
VANADIUM	MG/KG	8.6		42.5	B	60	B	34.4	B	2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	45.8		29.5		133	B E	34.5		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-84
AUS-0062 - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-26 for Locations)

Surface Water Samples		AUS-0062-004-SW		AUS-0062-007-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L			ND				
ALL SVOC	UG/L	ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND				
ALUMINUM	UG/L	8230	B E	7160	B E	2.0E+02	8.7E+01	
ARSENIC	UG/L	5		ND		1.0E+01	1.9E+02	
BARIUM	UG/L	180	B	48.1	B	2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	ND		3.2	E	5.0E+00	5.3E-01	
BORON	UG/L	70.4		71.4			1.0E+03	1.0E+03
CADMIUM	UG/L	11	B E	5.3	B E	5.0E+00	1.1E+00	
CALCIUM	UG/L	146000	B E	163000	B E	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	14.1	B	3		1.0E+01	2.1E+02	
COBALT	UG/L	28.5	E	240	B E	5.0E+01	2.3E+00	
COPPER	UG/L	11.7	B	ND		1.0E+01	1.2E+01	
IRON	UG/L	6540	B E H	28400	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	3.9	B	ND		2.0E+00	2.0E+01	
MAGNESIUM	UG/L	102000	B E	81000	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	3410	B E H	10800	B E H	5.8E+02	1.0E+03	1.0E+03
NICKEL	UG/L	364	B	917	B	1.0E+01	1.0E+03	1.0E+03
POTASSIUM	UG/L	8480	B	8060	B	1.6E+03	5.3E+04	
SODIUM	UG/L	45600	B	44100	B	3.2E+03	6.8E+05	
VANADIUM	UG/L	18.8		6.3		5.0E+01	1.9E+01	
ZINC	UG/L	395	B	993	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-85
AUS-0065 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-27 for Locations)

Soil Samples		AUS-0065-001		AUS-0065-002		AUS-0065-003		AUS-0065-004				AUS-0065-005		AUS-0065-006		AUS-0065-007		AUS-0065-008				AUS-0065-009				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--		--		--		--		--		--		--		ND		--		--		--		--						
ALL EXPLOSIVES	UG/KG	ND		--		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND						
cPAH	UG/KG	548.57	H	19996	H	427.15	H	457.82	H	ND		952.53	H	638.233	H	ND		450.507	H	401.786	H	311.241	H	328.198	H			2.1E+02		
2,4-DIMETHYLPHENOL	UG/KG	ND		1100	E	ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			1.0E+01	1.2E+06	9.0E+03	9.0E+03
2-METHYLNAPHTHALENE	UG/KG	ND		3500		62		55		45		110		ND		ND		200		220		890		130			4.6E+04	1.9E+04	8.4E+04	7.7E+03
2-METHYLPHENOL (O-CRESOL)	UG/KG	ND		760		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			4.0E+04	3.1E+06	1.5E+04	1.5E+04
4-METHYLPHENOL (P-CRESOL)	UG/KG	ND		2600	W2	ND		ND		ND		71		150		ND		ND		ND		ND		ND			1.6E+05	3.1E+05		2.4E+02
4-NITROTOLUENE	UG/KG	ND		1700	W2	ND				ND		ND		ND		ND												3.0E+04		9.2E+02
ACENAPHTHENE	UG/KG	ND		850		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			8.3E+03	2.9E+06	5.7E+05	5.7E+05
ACENAPHTHYLENE	UG/KG	78		7200	H	170		ND		ND		280		ND		ND		ND		ND		ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	10700	B E	11700	B E	10100	B E	7820	E	7640	E	10400	B E	12700	B E	10900	B E	8830	E	6480	E	9000	E	9160	B E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	58		5900		49		ND		ND		250		ND		ND		ND		ND		ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.33		0.36		0.28		ND		ND		0.76	B	ND		0.24		ND		0.67	B	0.22		0.22		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	8	H	8.7	H	9.7	E H	5.6	H	6.2	H	6.4	H	5.9	H	7	H	7.4	H	4.6	H	5.8	H	6.2	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	164		162		160		99		105		120		116		116		72.1		46		79.1		120		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	180		11000	E H W1 W2	59		47		ND		660		ND		ND		ND		ND		71		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	220	H	12000	E H W1 W2	250	H	ND		ND		560	H	ND		ND		ND		ND		56		79			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	230		11000	E H W1 W2	170		ND		ND		570		83		ND		ND		52		ND		87			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	180		12000		520		ND		ND		540		ND		ND		ND		ND		67		120			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	230		9200		110		ND		ND		670		ND		ND		ND		51		ND		61			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.46		0.5	B	0.65	B	0.37		0.46		0.34		0.43		0.43		0.51	B	0.32		0.86	B	0.58	B	4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		ND		ND		1400	E	ND		ND		ND		ND		ND		ND		ND		ND			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	5.1	B E	2.4	E	8.5	B E	2	E	1.6	E	7.9	B E	2.8	E	2.2	E	4.8	B E	5	B E	11.7	B E	5.3	B E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		1.3	B E	0.69	B E	ND		ND		1.1	B E	ND		ND		ND		ND		0.73	B E	ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	6420	B	4340	B	4340	B	4090	B	23900	B	9100	B	2320		5560	B	73700	B	106000	B	8630	B	10600	B	2.9E+03				
CARBAZOLE	UG/KG	65		5600	W1 W2	ND		ND		ND		240		ND		ND		ND		ND		ND		ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	20.6	B E	20.2	B E	13.1	E	11.5	E	14.8	B E	15.3	B E	16.6	B E	14.5	B E	13.7	E	9.2	E	13.4	E	12.6	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	270		14000	E	150		70		ND		830		83		ND		57		76		91		88			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	11.6	B	9.3		10.7	B	5.5		5.5		6.6		6.5		7.4		4.5		3.9		5.7		6.8		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	14.3	B	33.4	B E	24.1	B	11.3	B	9.3		33.3	B E	12.7	B	13.2	B	10.6	B	6.8		10.6	B	9.9	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND		4700	H W1 W2	120		ND		ND		220	H	ND		ND		ND		ND		ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND		3100		ND		59		42		120		ND		ND		180		260		200		43			2.5E+04	1.6E+05		1.5E+04
FLUORANTHENE	UG/KG	360		21000		78		61		45		1200		92		ND		42		52		70		77			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND		5100		ND		ND		ND		180		ND		ND		ND		ND		ND		ND			2.2E+04	2.6E+06	5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	UG/KG	150		9900	H	330		ND		ND		420		ND		ND		ND		ND		ND		88			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	17400	E	17900	E	19300	E	12700	E	15000	E	19100	E	14400	E	16500	E	15400	E	11200	E	19300	E	14900	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	73.2	B	148	B	80	B	18.7		19.2		212	B	27.2	B	25.5		17.1		13.5		20.3		34.6	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2330	B	1880	B	1170		1230		2710	B	2160	B	1910	B	2090	B	7250	B	11100	B	1640		2060	B	1.8E+03				
MANGANESE	MG/KG	767	E	859	E	1140	E	549	E	679	E	456	E	334	E	831	E	444	E	295	E	461	E	901	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.064		0.48	B E	0.066		0.045		0.046		0.12		0.065		0.052		0.029		0.023		0.029		0.053		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		4700	H	ND		ND		ND		140		ND		ND		120		130		380		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	14.1	B	12.6	B	14	B	9.5		11.9		11.7		11.9		11.5		11.6		9.6		13.2	B	11.1		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	350		27000	E	99		160		95		1300		93		ND		140		210		320		130			1.8E+04	2.9E+06	4.2E+06	2.2E+05
PHENOL	UG/KG	ND		940		ND		ND		ND		ND		ND		ND		ND		ND		ND		ND			4.0E+04	1.8E+07	1.0E+05	1.0E+05
POTASSIUM	MG/KG	1340	B	1160	B	1290	B	701	B	690		1250	B	1250	B	1250	B	929	B	870	B	1110	B	905	B	6.9E+02				
PYRENE	UG/KG	330		17000		92		70		44		1100		95		ND		50		59		100		67			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	1.1	E	0.99		0.6		0.63		ND		1.4	E	0.66		0.55		ND		ND		0.53		0.47		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	56.4		49.6		74.5		51.3		63.4		49.4		55.7		53.9		92.5	B	143	B	76		58.3		8.5E+01				
TOTAL ORGANIC CARBON	MG/KG			27900																										
VANADIUM	MG/KG	28.6		31.2	B	27.9		18.9		19.6		23.6		30.5		26.4		25.1		17		37.9	B	25.2		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	98.2	B	316	B E	257	B E	44.5	B	49.6	B	351	B E	107	B	78	B	67.2	B	42.5	B	233	B E	66.5	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-86
AUS-0066 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-28 for Locations)

Soil Samples		AUS-0066-001						AUS-0066-002						AUS-0066-005				AUS-0066-008				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**4 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND						ND						ND				ND								
ALL SVOC	UG/KG	ND						--						--				--								
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND		ND				ND								
cPAH	UG/KG	ND						ND						ND				ND						2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	ND						ND						84				ND					4.6E+04	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	7730	E					14400	B E					7250	E			10100	B E			9.1E+03	5.0E+01	9.2E+04		
ARSENIC	MG/KG	4.2	H					6.9	H					5.9	H			6.8	H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	72.5						132						70.7				75.1				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.57	B					0.67	B					0.42				0.62	B			4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND						50						ND				49					9.3E+02	1.2E+05		3.6E+06
CADMIUM	MG/KG	ND						ND						0.59	B E			ND				3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	246						799						705				744				2.9E+03				
CHROMIUM, TOTAL	MG/KG	11.4	E					20.7	B E					10.6	E			18.5	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	11.4	B					22.8	B E					7.4				19.9	B			9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	5.6						11.3	B					9.4				8.6				9.4E+00	3.1E+01	4.1E+03		5.9E+04
IRON	MG/KG	11500	E					21800	B E					12400	E			19700	B E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	13.4						20.1						17.9				26.1	B			2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	882						1970	B					1220				1180				1.8E+03				
MANGANESE	MG/KG	1160	E					1700	E					1380	E			1180	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.028						0.038						0.035				0.028				2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	10.6						17.3	B					10				13.4	B			1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND						ND						49				ND					1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	559						818	B					747	B			701	B			6.9E+02				
SELENIUM	MG/KG	ND						0.39						ND				0.52				3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	30.9						52.8						37				35.9				8.5E+01				
THALLIUM	MG/KG	0.57	B					ND						ND				ND				5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	21.7						33.2	B					20.9				31.1				3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	31.6						56.7	B					44.7	B			41.4	B			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-87
AUS-0066 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-28 for Locations)

Sediment Samples		AUS-0066-003		AUS-0066-004		AUS-0066-006		AUS-0066-007		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--		--		--		ND						
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND						
cPAH	UG/KG	ND		451.51	H	ND		ND				2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	370	E	210	E	ND		ND			7.0E+01	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	13500	B	20500	B	16900	B	14700	B	1.1E+04	2.6E+04	9.2E+04		
ARSENIC	MG/KG	10.3	E H	8.7	H	7	H	2.5	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	73.5		74.4		241	B	88.6		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		160	E	ND		ND			1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		140		ND		ND			1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		220	E	ND		ND			2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND		71	E	ND		ND			1.6E+01	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND		73	E	ND		ND			2.7E+01	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	2.8	B	2.1	B	0.57		0.88		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	100		55		61		ND			7.5E+02	1.2E+05		3.6E+06
BORON	MG/KG	1.6		1.9		2.5		2.1				1.8E+04		
CADMIUM	MG/KG	3.8	B E	35.7	B E W1 W2	ND		ND		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	12900	B	940		1100		993		1.4E+03				
CHROMIUM, TOTAL	MG/KG	32.8	B	17.9	B	21.3	B	18.3	B	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		180	E	ND		ND			1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	39	B	9.5	B	6.2		4.2		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	9.8		12.9		18.1	B	19.4	B	1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	76		58		ND		ND			2.0E+03	1.6E+05		1.5E+04
FLUORANTHENE	UG/KG	ND		150		ND		ND			4.2E+02	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		76	E	ND		ND			1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	86300	B H	29500	B	20400		9590		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	20.8		22.7		28.7	B	28.2	B	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	8270	B	1380		2840	B	2550	B	1.9E+03				
MANGANESE	MG/KG	505		195		199		115		1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.037		0.025		0.048		0.038		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	170		86		ND		ND			1.8E+02	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	65.6	B E	27.9	B E	17.9	B	21.2	B	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	160		110		ND		ND			2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	523		505		1640	B	1270		1.4E+03				
PYRENE	UG/KG	65		190		ND		ND			2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	ND		0.64		ND		0.45		6.4E-01		5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	86.8		85.1		77.5		107		1.5E+03				
THALLIUM	MG/KG	ND		ND		ND		0.77	B	3.1E-01		6.7E+00		2.6E+00
VANADIUM	MG/KG	37.9	B	41.1	B	36.8	B	24.7		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	325	B E	447	B E	69	B	66.8	B	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-88
AUS-0066 - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-28 for Locations)

Surface Water Samples		AUS-0066-003-SW		AUS-0066-004-SW		AUS-0066-006-SW		AUS-0066-007-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	ND		ND		ND		ND				
ALL SVOC	UG/L	ND		ND		ND		ND				
ALL EXPLOSIVES	UG/L	ND		ND		ND		ND				
ALKALINITY, TOTAL (AS CACO3)	MG/L	23		44.1								
ALUMINUM	UG/L	55500	B E	1490	B E	5580	B E	6030	B E	2.0E+02	8.7E+01	
ARSENIC	UG/L	18.3	B	ND		9.4		5.5		1.0E+01	1.9E+02	
BARIUM	UG/L	261	B	51.4	B	81.8	B	110	B	2.3E+01	5.0E+03	5.0E+03
BERYLLIUM	UG/L	16.5	B E	ND		ND		ND		5.0E+00	5.3E-01	
CADMIUM	UG/L	33.9	B E	7.1	B E	ND		ND		5.0E+00	1.1E+00	
CALCIUM	UG/L	76700	B	64500	B	19200	B	57800	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	29.1	B	ND		6		8.2		1.0E+01	2.1E+02	
COBALT	UG/L	278	B E	61.7	B E	19.6	E	28.8	E	5.0E+01	2.3E+00	
COPPER	UG/L	40.1	B E	1.4		13.2	B E	13.3	B E	1.0E+01	1.2E+01	
IRON	UG/L	346000	B E H	4060	B E H	12700	B E H	12000	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	48.4	B E	ND		7.8	B	8.2	B	2.0E+00	2.0E+01	
MAGNESIUM	UG/L	53000	B	46100	B	18800	B	64300	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	6850	B E H	4240	B E H	2480	B E H	3890	B E H	5.8E+02	1.0E+03	1.0E+03
MERCURY	UG/L	0.073	H	ND		0.069	H	ND		2.0E-01	1.3E+00	1.2E-02
NICKEL	UG/L	425	B	136	B	77.3	B	193	B	1.0E+01	1.0E+03	1.0E+03
NITROGEN, AMMONIA (AS N)	MG/L	0.28	B	ND						2.6E-01		
NITROGEN, NITRATE-NITRITE	MG/L	0.2	B	ND						5.0E-02		
POTASSIUM	UG/L	3810	B	1990	B	4500	B	5070	B	1.6E+03	5.3E+04	
SELENIUM	UG/L	7.6	B	ND		ND		ND		2.7E+00	1.0E+03	1.0E+03
SODIUM	UG/L	17900	B	17100	B	8130	B	27500	B	3.2E+03	6.8E+05	
VANADIUM	UG/L	76.8	B E	ND		16.5		15		5.0E+01	1.9E+01	
ZINC	UG/L	2240	B E H	325	B	112	B	206	B	2.0E+01	1.0E+03	1.0E+03

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-89
AUS-0067 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-29 for Locations)

Soil Samples		AUS-0067-001				AUS-0067-003				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND				ND						
ALL SVOC	UG/KG	--		--		ND								
ALL EXPLOSIVES	UG/KG	--		ND		ND								
cPAH	UG/KG	451.26	H	324.798	H	ND						2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	950		680		ND					4.6E+04	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	12900	B E	14900	B E	17700	B E			9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	66		43		ND					1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.76	B	0.54	B	0.55	B			4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	14.2	B E H	11.9	E H	10.2	E H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	274	B	152		110				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	200		110		ND					3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	130		73		ND					3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	180		76		ND					1.2E+03	2.1E+03	5.0E+03	5.0E+03
BERYLLIUM	MG/KG	1	B	0.85	B	0.57	B			4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	59		200		ND					9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	7.2	B E	3.4	E	3.5	E			4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	1.5	B E	0.77	B E	ND				3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2290		1520		1230				2.9E+03				
CARBAZOLE	UG/KG	57		ND		ND					1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	22.2	B E	21.3	B E	20.3	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	210		98		ND					4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	14	B	10.9	B	9.9	B			9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	36.1	B E	21.8	B	17.3	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	360		260		ND					2.5E+04	1.6E+05		1.5E+04
FLUORANTHENE	UG/KG	240		110		ND					1.0E+05	2.2E+06	4.3E+06	4.3E+06
IRON	MG/KG	30700	B E H	35100	B E H	24000	B E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	227	B	86.3	B	26.8	B			2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1650		1910	B	2940	B			1.8E+03				
MANGANESE	MG/KG	1880	E	796	E	600	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.12		0.054		0.044				2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	360		220		ND					4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	22.9	B	17.6	B	17.7	B			1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	770		510		ND					1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1630	B	1220	B	1420	B			6.9E+02				
PYRENE	UG/KG	310		160		ND					7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.89		0.74		0.54				3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	76.2		61.4		56.4				8.5E+01				
TETRYL	UG/KG	3100		ND		ND						6.2E+05		
THALLIUM	MG/KG	ND		ND		0.49				5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	39.2	B	37.5	B	41	B			3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	355	B E	171	B E	76.7	B			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-90
AUS-0067 - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-29 for Locations)

Groundwater Samples		AUS-0067-002-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	ND		
ALL SVOC	UG/L	--		
ALL EXPLOSIVES	UG/L	ND		
2,6-DINITROTOLUENE	UG/L	6.5	C1	3.1E-01
ALUMINUM	UG/L	356		3.5E+03
BARIUM	UG/L	35		2.0E+03
BORON	UG/L	64.5		2.0E+03
CALCIUM	UG/L	28500		
COPPER	UG/L	3.4		6.5E+02
IRON	UG/L	648		5.0E+03
LEAD	UG/L	2.2		7.5E+00
MAGNESIUM	UG/L	1790		
MANGANESE	UG/L	132		1.5E+02
NICKEL	UG/L	2.6		1.0E+02
POTASSIUM	UG/L	6570		
SODIUM	UG/L	1310		
ZINC	UG/L	30.1		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-91
AUS-0069 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-30 for Locations)

Soil Samples		AUS-0069-001						AUS-0069-002				AUS-0069-003				AUS-0069-004				AUS-0069-005				AUS-0069-006			
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**5 ft**	**CE**	**12 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**
ALL VOC	UG/KG			ND		ND				ND				ND				ND				ND				ND	
ALL SVOC	UG/KG	ND						--				ND				--				ND				--			
ALL EXPLOSIVES	UG/KG	ND						ND				ND				ND				ND				ND			
cPAH	UG/KG	ND						464.24	H			ND				503.898	H			ND				ND			
2,4,6-TRINITROTOLUENE	UG/KG	ND						ND				ND				ND				ND				ND			
2-AMINO-4,6-DINITROTOLUENE	UG/KG	ND						ND				ND				ND				ND				ND			
2-METHYLNAPHTHALENE	UG/KG	ND						ND				ND				ND				ND				ND			
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND						ND				ND				ND				ND				ND			
ALUMINUM	MG/KG	5480	E					10000	B E							12300	B E			12100	B E			11600	B E		
ANTHRACENE	UG/KG	ND						ND				ND				ND				ND				ND			
ANTIMONY	MG/KG							0.39								2.3	B			1.4	B			28.8	B E W1 W2		
ARSENIC	MG/KG	6	H					6.3	H							33.9	B E H W1 W2			9.1	E H			31.9	B E H W1 W2		
BARIUM	MG/KG	108						138								160				130				3470	B E W1 W2		
BENZO(A)ANTHRACENE	UG/KG	ND						160				ND				ND				ND				ND			
BENZO(A)PYRENE	UG/KG	ND						190				ND				ND				ND				ND			
BENZO(B)FLUORANTHENE	UG/KG	ND						320				ND				66				ND				ND			
BENZO(G,H,I)PERYLENE	UG/KG	ND						79				ND				ND				ND				ND			
BENZO(K)FLUORANTHENE	UG/KG	ND						110				ND				ND				ND				ND			
BERYLLIUM	MG/KG	ND						0.44								1.1	B			0.66	B			0.45			
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND						ND				ND				ND				ND				49			
BORON	MG/KG	ND						0.77	E							2.2	E			6.7	B E			74.8	B E		
CADMIUM	MG/KG	ND						ND								0.72	B E			1.1	B E			22.6	B E W1 W2		
CALCIUM	MG/KG	1220						1280								6310	B			19100	B			51300	B		
CARBAZOLE	UG/KG	ND						ND				ND				ND				ND				ND			
CHROMIUM, TOTAL	MG/KG	8.7	E					13.7	E							67.1	B E W1 W2			19.9	B E			183	B E W1 W2		
CHRYSENE	UG/KG	ND						140				ND				48				ND				ND			
COBALT	MG/KG	8.7						11.3	B							14.6	B			8.2				14.9	B		
COPPER	MG/KG	12	B					12	B							29	B			20.1	B			1910	B E		
DIBENZ(A,H)ANTHRACENE	UG/KG	ND						ND				ND				ND				ND				ND			
DIBENZOFURAN	UG/KG	ND						ND				ND				ND				ND				ND			
DI-N-BUTYL PHTHALATE	UG/KG	ND						ND				ND				ND				ND				ND			
FLUORANTHENE	UG/KG	ND						45				ND				91				ND				ND			
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND						100				ND				ND				ND				ND			
IRON	MG/KG	20000	B E					16100	E							52800	B E H			17500	E			159000	B E H		
LEAD	MG/KG	23.1						9.4								93.7	B			45.2	B			2820	B E H		
MAGNESIUM	MG/KG	1220						1760								3690	B			10500	B			13900	B		
MANGANESE	MG/KG	772	E					679	E							1620	E			1310	E			1340	E		
MERCURY	MG/KG	0.053						0.029								0.07				0.053				0.52	B E		
NAPHTHALENE	UG/KG	ND						ND				ND				ND				ND				ND			
NICKEL	MG/KG	14.1	B					12.4								18.6	B			15.6	B			119	B E W2		
PHENANTHRENE	UG/KG	ND						ND				ND				49				ND				ND			
POTASSIUM	MG/KG	820	B					707	B							928	B			1220	B			1560	B		
PYRENE	UG/KG	ND						46				ND				77				ND				ND			
SELENIUM	MG/KG	0.72						ND								2	E			2.1	E			ND			
SILVER	MG/KG	ND						ND								1.3	B			0.36				15.3	B E W2		
SODIUM	MG/KG	ND						31.9								47.3				55.8				1080	B		
TETRACHLOROETHYLENE(PCE)	UG/KG			ND		ND				ND				ND				ND				ND				ND	
VANADIUM	MG/KG	16						26								89.5	B E			33	B			23.9			
ZINC	MG/KG	151	B E					38.4								161	B E			108	B			5020	B E		

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-91
AUS-0069 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-30 for Locations)

Soil Samples		AUS-0069-007				AUS-0069-008				AUS-0069-009				AUS-0069-012						AUS-0069-013					
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**3 ft**	**CE**	**12 ft**	**CE**
ALL VOC	UG/KG			ND				ND				ND				ND		ND				ND		ND	
ALL SVOC	UG/KG	--				ND				--				--						--					
ALL EXPLOSIVES	UG/KG	ND				--				ND				ND						ND					
cPAH	UG/KG	460.355	H			ND				ND				390.448	H					ND					
2,4,6-TRINITROTOLUENE	UG/KG	ND				680	W2			ND				ND						ND					
2-AMINO-4,6-DINITROTOLUENE	UG/KG	ND				370	W2			ND				ND						ND					
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND				72						ND					
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				250	W2			ND				ND						ND					
ALUMINUM	MG/KG	10000	B E			12100	B E			9370	B E			12800	B E					5320	E				
ANTHRACENE	UG/KG	ND				ND				ND				ND						ND					
ANTIMONY	MG/KG	9.6	B E W1 W2			0.51	B			11.6	B E W1 W2			173	B E H W1 W2					ND					
ARSENIC	MG/KG	48.1	B E H W1 W2			7.7	H			19.8	B E H			36.6	B E H W1 W2					8	H				
BARIUM	MG/KG	677	B E			99.1				431	B			4940	B E W1 W2					100					
BENZO(A)ANTHRACENE	UG/KG	ND				ND				ND				53						ND					
BENZO(A)PYRENE	UG/KG	ND				ND				ND				88						ND					
BENZO(B)FLUORANTHENE	UG/KG	71				ND				ND				ND						ND					
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				230				720						ND					
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				ND				ND						ND					
BERYLLIUM	MG/KG	0.91	B			0.5	B			1.6	B			ND						ND					
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				ND				96						120					
BORON	MG/KG	24.7	B E			ND				71.4	B E			84.2	B E					3.6	E				
CADMIUM	MG/KG	8.5	B E W1 W2			ND				12	B E W1 W2			28	B E W1 W2					ND					
CALCIUM	MG/KG	14800	B			6980	B			24600	B			46400	B					1440					
CARBAZOLE	UG/KG	ND				ND				ND				ND						ND					
CHROMIUM, TOTAL	MG/KG	59.6	B E W1 W2			15.1	B E			104	B E W1 W2			266	B E W1 W2					10.5	E				
CHRYSENE	UG/KG	ND				ND				ND				98						ND					
COBALT	MG/KG	10.2	B			6.3				10.2	B			28.6	B E					6.4					
COPPER	MG/KG	206	B E			12	B			2120	B E			7060	B E H					6.8					
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				ND				ND				ND						ND					
DIBENZOFURAN	UG/KG	ND				ND				ND				65						ND					
DI-N-BUTYL PHTHALATE	UG/KG	720	E			ND				ND				130						ND					
FLUORANTHENE	UG/KG	58				ND				ND				ND						ND					
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				ND				140						ND					
IRON	MG/KG	44600	B E H			17000	E			37400	B E H			308000	B E H					12200	E				
LEAD	MG/KG	547	B E H			48.4	B			51000	B E H			3880	B E H					22.5					
MAGNESIUM	MG/KG	8650	B			4020	B			6600	B			10800	B					1050					
MANGANESE	MG/KG	636	E			614	E			930	E			1450	E					1100	E				
MERCURY	MG/KG	0.38	B E			0.065				0.14				0.48	B E					0.082					
NAPHTHALENE	UG/KG	ND				ND				50				160						ND					
NICKEL	MG/KG	42.7	B E			10.1				60.6	B E			130	B E W2					9.3					
PHENANTHRENE	UG/KG	ND				ND				47				120						ND					
POTASSIUM	MG/KG	1320	B			762	B			1470	B			1580	B					493					
PYRENE	UG/KG	77				ND				ND				150						ND					
SELENIUM	MG/KG	1.9	E			1.4	E			4.1	B E			0.26						ND					
SILVER	MG/KG	6.6	B E W2			ND				3.7	B E			12.6	B E W2					ND					
SODIUM	MG/KG	259	B			35				674	B			945	B					ND					
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				ND		ND				ND		ND	
VANADIUM	MG/KG	29.2				30.4				32.2	B			13.6						17					
ZINC	MG/KG	1740	B E			65.2	B			3750	B E			16400	B E W1 W2					43.5	B				

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-91
AUS-0069 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-30 for Locations)

Soil Samples		AUS-0069-015				AUS-0069-016				AUS-0069-017				AUS-0069-018				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND				ND				ND				--						
ALL SVOC	UG/KG	ND				--				ND				ND								
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND								
cPAH	UG/KG	ND				3448.8	H			ND				ND						2.1E+02		
2,4,6-TRINITROTOLUENE	UG/KG	ND				ND				ND				ND					3.0E+04	3.1E+04		7.7E+01
2-AMINO-4,6-DINITROTOLUENE	UG/KG	ND				ND				ND				ND					8.0E+04	1.2E+04		3.1E+01
2-METHYLNAPHTHALENE	UG/KG	ND				ND				ND				ND					4.6E+04	1.9E+04	8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	UG/KG	ND				ND				ND				ND					8.0E+04	1.2E+04		3.1E+01
ALUMINUM	MG/KG	13700	B E			10500	B E			10700	B E			14800	B E			9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND				130				ND				ND					1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.61	B			0.85	B			0.61	B			0.72	B			4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	8.8	H			12.6	E H			5.9	H			7.9	H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	117				130				131				95.5				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND				1700				ND				ND					3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND				2200	H			ND				ND					3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND				2600	E H			ND				ND					1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND				2000				ND				ND					1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND				1700				ND				ND					9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.54	B			0.63	B			0.55	B			0.45				4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND				ND				ND				ND					9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	2.3	E			2.4	E			2.2	E			2.4	E			4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND				0.96	B E			ND				5.5	B E W2			3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3380	B			4350	B			1990				2660				2.9E+03				
CARBAZOLE	UG/KG	ND				77				ND				ND					1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	19.3	B E			24.1	B E			13.5	E			19	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND				1800				ND				ND					4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	10.1	B			12.8	B			10.8	B			9.3				9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	14.6	B			47	B E			10.5	B			18	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	ND				630	H			ND				ND					1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	ND				ND				ND				ND					2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				ND				ND					7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND				2400				ND				ND					1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				1700				ND				ND					9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	18500	E			26100	B E			14800	E			19300	E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	44.5	B			169	B			22.5				41	B			2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2160	B			1740				1740				2490	B			1.8E+03				
MANGANESE	MG/KG	811	E			1180	E			1020	E			685	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.039				0.046				0.033				0.05				2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND				ND				ND				ND					4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	12.7	B			14.5	B			12.8	B			14.8	B			1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND				440				ND				ND					1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1090	B			967	B			987	B			1140	B			6.9E+02				
PYRENE	UG/KG	ND				2200				ND				ND					7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.71				0.89				ND				ND				3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND				1.4	B			ND				ND				6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	54.9				90.7	B			70.6				63.1				8.5E+01				
TETRACHLOROETHYLENE(PCE)	UG/KG			ND				ND				ND				5			1.3E+04	1.3E+03	6.0E+01	6.0E+01
VANADIUM	MG/KG	34.7	B			42.4	B			27.2				35.1	B			3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	53.6	B			129	B E			49	B			74.1	B			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-92
AUS-0069 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-30 for Locations)

Sediment Samples		AUS-0069-010		AUS-0069-011		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	ND		--						
ALL EXPLOSIVES	UG/KG	ND		ND						
cPAH	UG/KG	ND		344.732	H			2.1E+02		
ALUMINUM	MG/KG	10700		10600		1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	8.8	B E W1 W2	2.1	B	1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	8.4	H	7.1	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	472	B	170		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND		67			1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND		54			1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND		120	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03
BERYLLIUM	MG/KG	0.68		0.67		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	19.4		11.6				1.8E+04		
CADMIUM	MG/KG	9.4	B E W1 W2	7.1	B E W2	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	6940	B	4960	B	1.4E+03				
CHROMIUM, TOTAL	MG/KG	44.9	B E W1 W2	24.6	B	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND		82			1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	8.3		9.1		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	157	B E	83.9	B E	1.7E+01	3.2E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	ND		59			2.0E+03	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND		260			1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND		150			4.2E+02	2.2E+06	4.3E+06	4.3E+06
IRON	MG/KG	21500	B	17200		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	610	B E H	196	B E	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	3130	B	2040	B	1.9E+03				
MANGANESE	MG/KG	1180	B E	1190	B E	1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.6	B E	0.81	B E	1.5E-01	1.8E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	31.8	B E	24	B E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND		220	E		2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	811		1000		1.4E+03				
PYRENE	UG/KG	ND		130			2.0E+02	2.9E+06	4.2E+06	4.2E+06
SILVER	MG/KG	2.9	E	0.63		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	149		170		1.5E+03				
TOTAL ORGANIC CARBON	MG/KG	142000								
VANADIUM	MG/KG	29.3	B	26.6		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	1110	B E	368	B E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-93
AUS-0069 - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-30 for Locations)

Groundwater Samples		AUS-0069-012-GW		AUS-0069-013-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	--		ND		
ALL SVOC	UG/L	--		ND		
ALL EXPLOSIVES	UG/L	--		ND		
ALUMINUM	UG/L	5260	C1	1430000	C1	3.5E+03
ANTIMONY	UG/L	3.9		6		6.0E+00
ARSENIC	UG/L	3.6		327	C1	5.0E+01
BARIUM	UG/L	345		11200	C1	2.0E+03
BERYLLIUM	UG/L	ND		47.3	C1	4.0E+00
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	3.9		ND		6.0E+00
BORON	UG/L	3		250		2.0E+03
CADMIUM	UG/L	1				5.0E+00
CALCIUM	UG/L	1680		179000		
CHROMIUM, TOTAL	UG/L	15.2		1380	C1	1.0E+02
CIS-1,2-DICHLOROETHYLENE	UG/L	1		ND		7.0E+01
COBALT	UG/L	4.5		518		1.0E+03
COPPER	UG/L	62		1290	C1	6.5E+02
HMX	UG/L	0.71		ND		
IRON	UG/L	12700	C1	1870000	C1	5.0E+03
LEAD	UG/L	138	C1	875	C1	7.5E+00
MAGNESIUM	UG/L	1200		286000		
MANGANESE	UG/L	320	C1	49900	C1	1.5E+02
MERCURY	UG/L	6.8	C1	3.6	C1	2.0E+00
NICKEL	UG/L	8.2		1350	C1	1.0E+02
POTASSIUM	UG/L	347		61200		
SILVER	UG/L	ND		11.7		5.0E+01
SODIUM	UG/L	ND		74100		
THALLIUM	UG/L	ND		10.6	C1	2.0E+00
VANADIUM	UG/L	15.4		1910	C1	4.9E+01
ZINC	UG/L	490		4160		5.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-94
AUS-0001 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-31 for Locations)

Soil Samples		AUS-0001-001				AUS-0001-002				AUS-0001-003				AUS-0001-004				AUS-0001-005		AUS-0001-W01				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**5 ft**	**CE**	**23 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND				ND				ND				ND		ND		ND		ND						
ALL SVOC	UG/KG	--				--				--				--						ND		ND						
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND														
cPAH	UG/KG	ND				ND				ND				826	H					ND		ND				2.1E+02		
ACENAPHTHYLENE	UG/KG	ND				ND				ND				150						ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	13200	B E			6780	E			7380	E			4170	E									9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	ND				ND				ND				170						ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.47	B			ND				1.1	B			ND										4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	9.4	E H			7.9	H			9.4	E H			535	B E H W1 W2									1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	150				99.4				176				89.8										2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	ND				ND				ND				620						ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	ND				ND				ND				330	H					ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	ND				ND				ND				1700	E					ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	ND				ND				ND				360						ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	ND				ND				ND				450						ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND				ND				0.85	B			ND										4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	280				ND				ND				ND											9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	ND				ND				ND				36.8	B E									4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	2.7	B E			0.11				1.2	B E			1.3	B E									3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	16400	B			2340				2030				908										2.9E+03				
CARBAZOLE	UG/KG	ND				ND				ND				56											1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	23	B E			12.8	E			22.4	B E			27	B E									1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	ND				ND				ND				1500						ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	6.9				5				8.3				6.4										9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	37.2	B E			8.8				12.3	B			94	B E									9.4E+00	3.1E+01	4.1E+03		5.9E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND				ND				86				ND											7.1E+02	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	ND				120				ND				2600						ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND				ND				ND				480						ND		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	24800	B E			15600	E			24500	B E			16900	E									2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	51.3	B			22.9				1050	B E H			273	B									2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2270	B			1480				1400				884										1.8E+03				
MANGANESE	MG/KG	437	E			354	E			388	E			290	E									2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.11				0.05				ND				0.26	E									2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	14.5	B			14	B			14.7	B			21.2	B									1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND				ND				ND				1200						ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	787	B			347				325				1430	B									6.9E+02				
PYRENE	UG/KG	ND				ND				ND				1600						ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	0.8				0.83				0.78				12.9	B E W1 W2									3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.33				0.24				0.49				3.4	B E									6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	ND				ND				ND				406	B									8.5E+01				
THALLIUM	MG/KG	ND				ND				ND				2.4	B E									5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	20.7				21.1				34.7	B			55.7	B E									3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	1410	B E			44.9	B			83.2	B			195	B E									4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-95
AUS-0001 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-31 for Locations)

Sediment Samples		AUS-0001-005		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--						
ALL EXPLOSIVES	UG/KG	ND						
cPAH	UG/KG	333.4				2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	58			7.0E+01	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	8340		1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	0.52		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	16.8	B E H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	120		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	84			1.1E+02	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	78			1.5E+02	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	170	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	70	E		1.6E+01	6.1E+07		3.2E+07
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	51			7.5E+02	1.2E+05		3.6E+06
CADMIUM	MG/KG	0.48		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	2830	B	1.4E+03				
CHROMIUM, TOTAL	MG/KG	15.1		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	100			1.7E+02	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	5.3		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	28.4	B	1.7E+01	3.2E+01	4.1E+03		5.9E+04
DI-N-BUTYL PHTHALATE	UG/KG	56			1.1E+04	2.3E+06	2.3E+06	2.3E+06
FLUORANTHENE	UG/KG	110			4.2E+02	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	77	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	18800		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	94.9	B E	2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1630		1.9E+03				
MANGANESE	MG/KG	189		1.0E+03	6.3E+02	1.9E+03		
NICKEL	MG/KG	15.2		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	250	E		2.0E+02	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	426		1.4E+03				
PYRENE	UG/KG	140			2.0E+02	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	1.8	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	0.41		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
VANADIUM	MG/KG	26.2		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	122	B E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-96
AUS-0001 - Detections of Constituents in PA/SI Groundwater Samples
(see Figure 5-31 for Locations)

Groundwater Samples		AUS-0001-W01-GW		IEPA Class I Groundwater Standard
Constituents Detected	**Units**	**Conc.**	**CE**	**C1**
ALL VOC	UG/L	--		
ALL SVOC	UG/L	ND		
ALUMINUM	UG/L	141		3.5E+03
BARIUM	UG/L	31.2		2.0E+03
BORON	UG/L	97.6		2.0E+03
CALCIUM	UG/L	540000		
CARBON DISULFIDE	UG/L	3		7.0E+02
IRON	UG/L	155		5.0E+03
MAGNESIUM	UG/L	304000		
MANGANESE	UG/L	1410	C1	1.5E+02
NICKEL	UG/L	10		1.0E+02
POTASSIUM	UG/L	5020		
SODIUM	UG/L	151000		
TRICHLOROETHYLENE (TCE)	UG/L	0.6		5.0E+00

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
C1 - exceeds Groundwater Screening Criteria based on Class I GW

Table 5-97
AUS-0002 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-32 for Locations)

Soil Samples		AUS-0002-001				AUS-0002-004		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			--								
ALL EXPLOSIVES	UG/KG	ND				ND						
ALUMINUM	MG/KG	12300	B E			10700	B E	9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	ND				0.27		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.9	H			6.9	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	108				102		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.41				0.41		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	1.4	E			1.1	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	2	B E			ND		3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	6430	B			2650		2.9E+03				
CHROMIUM, TOTAL	MG/KG	18.3	B E			16.2	B E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	9.9	B			8.1		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	12.1	B			10.1	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
IRON	MG/KG	20700	B E			17200	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	20.9				14.3		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2500	B			1950	B	1.8E+03				
MANGANESE	MG/KG	1660	E			599	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.091				0.023		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	8.9				10.8		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	1080	B			952	B	6.9E+02				
SILVER	MG/KG	0.89	B			0.46		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	124	B			142	B	8.5E+01				
TOLUENE	UG/KG			2					3.0E+03	4.2E+04	1.2E+04	1.2E+04
VANADIUM	MG/KG	29.3				26.5		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	53.1	B			39.1		4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-98
AUS-0002 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-32 for Locations)

Sediment Samples		AUS-0002-002		AUS-0002-003		AUS-0002-005		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL EXPLOSIVES	UG/KG	ND		ND		ND						
ALUMINUM	MG/KG	15200	B	18800	B	9690		1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	2	B	7.7	B E W1 W2	ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	6.1	H	ND		5.5	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	99.2		163		97.5		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.58		0.6		0.48		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	ND		1.7		ND				1.8E+04		
CADMIUM	MG/KG	ND		1.4	E	ND		1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	828		1410		712		1.4E+03				
CHROMIUM, TOTAL	MG/KG	191	B E W1 W2	737	B E H W1 W2	14.7		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	7.6		5.3		5.7		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	16.1		35.8	B E	8.7		1.7E+01	3.2E+01	4.1E+03		5.9E+04
IRON	MG/KG	19800		14700		16300		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	69.5	B E	70.8	B E	14		2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1620		2200	B	1320		1.9E+03				
MANGANESE	MG/KG	162		237		302		1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.14		0.37	B E	0.022		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	11.3		12.9		10.9		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	911		1300		687		1.4E+03				
SELENIUM	MG/KG	0.47		ND		ND		6.4E-01		5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	87	B E W1 W2	98.7	B E W1 W2	ND		3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	57.2		57.5		52.3		1.5E+03				
THALLIUM	MG/KG	ND		0.81	B	ND		3.1E-01		6.7E+00		2.6E+00
VANADIUM	MG/KG	34.3	B	30.8	B	25.4		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	56.1		226	B E	30.6		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
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ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-99
AUS-0002 - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-32 for Locations)

Surface Water Samples		AUS-0002-005-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L					
ALL SVOC	UG/L					
ALL EXPLOSIVES	UG/L					
ALUMINUM	UG/L	12500	B E	2.0E+02	8.7E+01	
ARSENIC	UG/L	5.1		1.0E+01	1.9E+02	
BARIUM	UG/L	139	B	2.3E+01	5.0E+03	5.0E+03
BORON	UG/L	13.2			1.0E+03	1.0E+03
CALCIUM	UG/L	15900	B	7.2E+03	1.2E+05	
CHROMIUM, TOTAL	UG/L	13.3	B	1.0E+01	2.1E+02	
COPPER	UG/L	3.4		1.0E+01	1.2E+01	
IRON	UG/L	8260	B E H	1.0E+02	1.0E+03	1.0E+03
LEAD	UG/L	4.8	B	2.0E+00	2.0E+01	
MAGNESIUM	UG/L	6140	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	1810	B E H	5.8E+02	1.0E+03	1.0E+03
NICKEL	UG/L	11.7	B	1.0E+01	1.0E+03	1.0E+03
POTASSIUM	UG/L	6490	B	1.6E+03	5.3E+04	
SELENIUM	UG/L	3.4	B	2.7E+00	1.0E+03	1.0E+03
SODIUM	UG/L	7290	B	3.2E+03	6.8E+05	
VANADIUM	UG/L	21	E	5.0E+01	1.9E+01	
ZINC	UG/L	22.1	B	2.0E+01	1.0E+03	1.0E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-100
AUS-0A18 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-33 for Locations)

Soil Samples		AUS-0018-001				AUS-0018-002				AUS-0018-003				AUS-0018-004				AUS-0018-005				AUS-0018-010		AUS-0018-011		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND				ND				ND				--				ND										
ALL EXPLOSIVES	UG/KG	ND				ND				ND				ND				ND												
ACETONE	UG/KG			ND				ND				ND				40				ND							2.5E+03	5.4E+06	1.6E+04	1.6E+04
ALUMINUM	MG/KG	16800	B E			14900	B E			11100	B E			13600	B E			11100	B E			731	E	864	E	9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	ND				ND				ND				ND				ND				0.42		0.59	B	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	12.6	E H			7.9	H			7.7	H			8.3	H			10	E H			2.4	H	2.3	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	225				143				104				190				84.8				17.1		11		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.79	B			0.79	B			0.41				0.59	B			0.54	B			0.05		0.05		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	ND				ND				0.84	E			ND				ND								4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND				ND				ND				ND				ND				0.82	B E	0.81	B E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	3270	B			2700				9390	B			1830				1360				19200	B	18500	B	2.9E+03				
CHROMIUM, TOTAL	MG/KG	20.3	B E			20.5	B E			15.9	B E			15.5	B E			14.9	B E			1.8		ND		1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	12.5	B			13.5	B			5.5				7.9				6.6				1.5		1.7		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	16.2	B			17	B			13.6	B			10.3	B			9.2				17.3	B	14.4	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
IRON	MG/KG	25800	B E			21500	B E			16100	E			17900	E			16100	E			2570	E	3120	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	31.4	B			28.2	B			15.6				23.8				13.6				24.7		34.3	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	3630	B			2980	B			6170	B			1890	B			1630				109000	B	113000	B	1.8E+03				
MANGANESE	MG/KG	936	E			406	E			907	E			1210	E			605	E			134	E	143	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.01				0.02				0.02				0.033				0.018				0.09		0.09		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	16	B			16.2	B			6.2				10.3				8.7				1.8		2.8		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	740	B			817	B			428				632				468				150		175		6.9E+02				
SELENIUM	MG/KG	0.41				ND				0.69				0.62				0.47				ND		ND		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	93.9	B			75.4				65				51.4				64.1				ND		ND		8.5E+01				
THALLIUM	MG/KG	0.69	B			ND				ND				ND				ND				ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	40.4	B			34.9	B			35.5	B			31.9	B			30.3				2.2		2.6		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	51.3	B			100	B			28.5				110	B			31.4				45.6	B	43.9	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-101
AUS-0021 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-34 for Locations)

Soil Samples		AUS-0021-001		AUS-0021-003		AUS-0021-004				AUS-0021-005				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG							--				--						
ALL SVOC	UG/KG	ND		ND		ND				ND		ND						
ALL EXPLOSIVES	UG/KG	ND		--		ND				ND		ND						
cPAH	UG/KG	ND		ND		ND				ND		ND				2.1E+02		
ALUMINUM	MG/KG	15700	B E	11000	B E	12600	B E			20500	B E			9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	ND		ND		0.58	B			ND				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	10.9	E H	9.6	E H	8.1	H			12.8	E H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	101		245	B	150				112				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.54	B	0.6	B	0.58	B			0.54	B			4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	ND		170		ND				ND					9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	0.55	E	ND		ND				1.1	E			4.6E+00	5.0E-01	1.8E+04		
CALCIUM	MG/KG	1660		3060	B	2490				1380				2.9E+03				
CHROMIUM, TOTAL	MG/KG	20.9	B E	13.9	B E	21	B E			23.1	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	6.8		23.2	B E	9.8	B			6				9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	16	B	10.4	B	14.3	B			22.7	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
IRON	MG/KG	24100	B E	18200	E	20000	B E			28700	B E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	17.9		34.2	B	57.9	B			15.5				2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	3140	B	1860	B	2580	B			3720	B			1.8E+03				
MANGANESE	MG/KG	370	E	3030	B E H	819	E			227	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.02		0.05		0.04				0.03				2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	12.6	B	13.6	B	17	B			17.2	B			1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	1160	B	901	B	789	B			1220	B			6.9E+02				
SELENIUM	MG/KG	ND		ND		ND				0.39				3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	52.9		45.9		54.6				64.8				8.5E+01				
TETRYL	UG/KG	ND		5100		ND				ND						6.2E+05		
THALLIUM	MG/KG	ND		0.78	B	0.52	B			0.59	B			5.1E-01	1.0E+00	6.7E+00		2.6E+00
TRICHLOROETHYLENE (TCE)	UG/KG							5				9			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	38.4	B	33.2	B	32.4	B			39.7	B			3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	54.8	B	77.4	B	102	B			66.4	B			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-102
AUS-0021 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-34 for Locations)

Sediment Samples		AUS-0021-002		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG							
ALL SVOC	UG/KG	ND						
ALL EXPLOSIVES	UG/KG	ND						
ALUMINUM	MG/KG	11000		1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	0.26		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	11.5	B E H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	136		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.73		1.6E+00		1.9E+02	6.3E+01	2.2E+01
CALCIUM	MG/KG	1270		1.4E+03				
CHROMIUM, TOTAL	MG/KG	20.2	B	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	13.7	B	9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	13.2		1.7E+01	3.2E+01	4.1E+03		5.9E+04
IRON	MG/KG	21100	B	2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	21.9		2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	1720		1.9E+03				
MANGANESE	MG/KG	1440	B E	1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.032		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	11.4		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	732		1.4E+03				
SELENIUM	MG/KG	0.39		6.4E-01		5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	52.1		1.5E+03				
THALLIUM	MG/KG	0.55	B	3.1E-01		6.7E+00		2.6E+00
VANADIUM	MG/KG	44	B	2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	37.1		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-103
AUS-0043 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-35 for Locations)

Soil Samples		AUS-0043-001		AUS-0043-002		AUS-0043-004				AUS-0043-005				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**2 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG							ND				ND						
ALL SVOC	UG/KG	--		--		ND				ND								
ALL EXPLOSIVES	UG/KG	ND		--		ND				ND								
cPAH	UG/KG	2691.6	H	ND		ND				ND						2.1E+02		
2,6-DINITROTOLUENE	UG/KG	ND		950	E W1 W2	ND				ND					3.3E+01	2.5E+03	7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	UG/KG	ND		46		ND				ND					4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG	290		ND		ND				ND					8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	1610	E	13800	B E	13100	B E			12200	B E			9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	240		ND		ND				ND					1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	0.91	B	0.44	B	0.44	B			0.3				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	10.4	E H	12.2	E H	6.3	H			8.4	H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	21.6		93.2		123				107				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	1200		ND		ND				ND					3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	1200	H	ND		ND				ND					3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	3000	E H	ND		ND				ND					1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	1300		ND		ND				ND					1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	1000		ND		ND				ND					9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		0.52	B	0.53	B			0.42				4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	370		79		ND				ND					9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	7.7	B E	1.5	E	ND				2.1	E			4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		0.62	B E	ND				ND				3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	160000	B	5010	B	3340	B			3250	B			2.9E+03				
CHROMIUM, TOTAL	MG/KG	5		19.4	B E	17.8	B E			16.6	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	1600		ND		ND				ND					4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	ND		6.4		7.1				6.7				9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	7.1		16.7	B	18	B			11.9	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
FLUORANTHENE	UG/KG	900		ND		ND				ND					1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	1100		ND		ND				ND					9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	4370	E	19400	E	17500	E			18200	E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	1110	B E H	113	B	18.7				13.4				2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	97300	B	3830	B	2720	B			2630	B			1.8E+03				
MANGANESE	MG/KG	197	E	413	E	273	E			343	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.023		0.063		0.035				0.032				2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	6.7		17.6	B	17.9	B			14.4	B			1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND		76		ND				ND					1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	ND		1070	B	995	B			891	B			6.9E+02				
PYRENE	UG/KG	1900		63		ND				ND					7.9E+04	2.9E+06	4.2E+06	4.2E+06
SODIUM	MG/KG	189	B	44.8		42.7				37				8.5E+01				
TETRYL	UG/KG			480												6.2E+05		
VANADIUM	MG/KG	5.3		28.7		28.8				27.8				3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	211	B E	156	B E	52.7	B			52.2	B			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-104
AUS-0043 - Detections of Constituents in PA/SI Surface Water Samples
(see Figure 5-35 for Locations)

Surface Water Samples		AUS-0043-003-SW		SW Bkg	SW Eco Std	SW HH Std
Constituents Detected	**Units**	**Conc.**	**CE**	**B**	**E**	**H**
ALL VOC	UG/L	ND				
ALL SVOC	UG/L	--				
ALL EXPLOSIVES	UG/L	ND				
BARIUM	UG/L	38.4	B	2.3E+01	5.0E+03	5.0E+03
BIS(2-ETHYLHEXYL) PHTHALATE	UG/L	4.4	E		3.0E+00	
BORON	UG/L	68.6			1.0E+03	1.0E+03
CALCIUM	UG/L	75500	B	7.2E+03	1.2E+05	
IRON	UG/L	5100	B E H	1.0E+02	1.0E+03	1.0E+03
MAGNESIUM	UG/L	7990	B	2.5E+03	8.2E+04	
MANGANESE	UG/L	170		5.8E+02	1.0E+03	1.0E+03
POTASSIUM	UG/L	46900	B	1.6E+03	5.3E+04	
SODIUM	UG/L	18700	B	3.2E+03	6.8E+05	
ZINC	UG/L	32.9	B	2.0E+01	1.0E+03	1.0E+03

Notes:

Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background SW Concentration
E - exceeds the Ecological SW Screening Criteria
H - exceeds the SW General Use Human Health Criteria

Table 5-105
AUS-0060 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-36 for Locations)

Soil Samples		AUS-0060-002				AUS-0060-003		AUS-0060-004		AUS-0060-005				Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**1 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**1 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG			ND		ND						ND						
ALL EXPLOSIVES	UG/KG	ND						ND		ND								
ALUMINUM	MG/KG	12700	B E					13100	B E	15100	B E			9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	0.45	B					0.27		ND				4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	12.2	E H					12.2	E H	8	H			1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	88.2						122		72.4				2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.6	B					0.66	B	0.42				4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	1.8	E					3.1	E	0.69	E			4.6E+00	5.0E-01	1.8E+04		
CALCIUM	MG/KG	1370						1710		201				2.9E+03				
CHROMIUM, TOTAL	MG/KG	17.6	B E					19.6	B E	17.5	B E			1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	8.2						8.5		4.9				9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	11.5	B					11	B	12.1	B			9.4E+00	3.1E+01	4.1E+03		5.9E+04
IRON	MG/KG	20100	B E					22600	B E	18900	E			2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	17.8						26.1	B	12.2				2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	2490	B					2490	B	2090	B			1.8E+03				
MANGANESE	MG/KG	384	E					941	E	345	E			2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.037						0.14		0.044				2.8E-01	1.5E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	13	B					12.6	B	10.5				1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	788	B					806	B	786	B			6.9E+02				
SELENIUM	MG/KG	1.5	E					2	E	1.5	E			3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	40.4						46.9		35.9				8.5E+01				
VANADIUM	MG/KG	35.1	B					43.6	B	33.2	B			3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	44.1	B					53	B	42.3	B			4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-106
AUS-0060 - Detections of Constituents in PA/SI Sediment Samples
(see Figure 5-36 for Locations)

Sediment Samples		AUS-0060-001		AUS-0060-003		AUS-0060-006		Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL EXPLOSIVES	UG/KG	ND		ND		ND						
ALUMINUM	MG/KG	14200	B	14600	B	10700		1.1E+04	2.6E+04	9.2E+04		
ANTIMONY	MG/KG	0.32		0.52		ND		1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	13.5	B E H	11.2	B E H	5.9	H	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	127		383	B	85.7		2.0E+02		6.7E+03	1.6E+03	1.5E+03
BERYLLIUM	MG/KG	0.75		0.65		0.5		1.6E+00		1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	2.4		1.9		ND				1.8E+04		
CALCIUM	MG/KG	2360	B	7200	B	744		1.4E+03				
CHROMIUM, TOTAL	MG/KG	22	B	18.2	B	12.8		1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01
COBALT	MG/KG	10.2	B	14.3	B	5.8		9.1E+00	5.0E+01	1.9E+03		
COPPER	MG/KG	13.3		14		7.8		1.7E+01	3.2E+01	4.1E+03		5.9E+04
IRON	MG/KG	24400	B	21600	B	14300		2.1E+04	1.9E+05	3.1E+04		
LEAD	MG/KG	22.5		17.3		13.2		2.4E+01	3.6E+01	4.0E+02		
MAGNESIUM	MG/KG	2780	B	5510	B	1450		1.9E+03				
MANGANESE	MG/KG	941	E	3170	B E H	702	E	1.0E+03	6.3E+02	1.9E+03		
MERCURY	MG/KG	0.086		0.058		0.022		1.5E-01	1.8E-01	3.1E+01		8.9E-01
NICKEL	MG/KG	17.5	B	18.8	B	8.9		1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02
POTASSIUM	MG/KG	914		986		587		1.4E+03				
SELENIUM	MG/KG	2	B	1.8	B	0.99	B	6.4E-01		5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	46.1		44.5		38.2		1.5E+03				
THALLIUM	MG/KG	ND		0.54	B	ND		3.1E-01		6.7E+00		2.6E+00
VANADIUM	MG/KG	41.4	B	36.9	B	27.4		2.8E+01		1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	149	B E	95.6	B	32.4		5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Sediment Concentration
E - exceeds the Ecological Sediment Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-107
AUS-0061 - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-37 for Locations)

Soil Samples		AUS-0061-001		AUS-0061-002		AUS-0061-003		AUS-0061-004		AUS-0061-005		AUS-0061-006		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL SVOC	UG/KG	--		--		--		ND		--		--						
ALL EXPLOSIVES	UG/KG	ND		ND		ND		ND		ND		ND						
cPAH	UG/KG	5279.6	H	4521.7	H	ND		ND		404.25	H	ND				2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	70		56		ND		ND		ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ACENAPHTHYLENE	UG/KG	850		720		ND		ND		ND		ND			8.3E+03	1.8E+03	8.4E+04	2.4E+04
ALUMINUM	MG/KG	7370	E	8570	E	8480	E	12800	B E	8320	E	4170	E	9.1E+03	5.0E+01	9.2E+04		
ANTHRACENE	UG/KG	580		800		ND		ND		ND		ND			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ANTIMONY	MG/KG	7.3	B E W1 W2	0.5	B	ND		ND		3.5	B	1.4	B	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	13.6	B E H	6.2	H	6.7	H	6.5	H	5.2	H	2	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	139		116		126		141		90.2		97.3		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	3000	H W1 W2	2300	H W1 W2	ND		ND		100		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	3300	H	2800	H	ND		ND		130		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	5400	E H W1 W2	4800	E H	ND		ND		190		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	2200		2200		ND		ND		70		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	4500		3800		ND		ND		200		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.51	B	0.95	B	0.53	B	0.52	B	0.39		0.15		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	1100	E	980	E	910		ND		ND		63			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	4.4	E	34.9	B E	6.2	B E	2.8	E	2.6	E	3.8	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	90.9	B E H W1 W2	31.2	B E W1 W2	1.3	B E	2.1	B E	61.3	B E H W1 W2	4.8	B E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	9090	B	10200	B	2690		3620	B	2030		2460		2.9E+03				
CARBAZOLE	UG/KG	460		440		ND		ND		ND		ND			1.3E+04	8.6E+04	6.0E+02	6.0E+02
CHROMIUM, TOTAL	MG/KG	23.9	B E	15.7	B E	11.3	E	14.1	B E	12.9	E	5.1	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	4600		3700		ND		ND		150		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
COBALT	MG/KG	7.8		6.3		7.6		5.1		7		2.4		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	69.9	B E	19.3	B	8.2		12.7	B	54.7	B E	12.8	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZ(A,H)ANTHRACENE	UG/KG	850	H	750	H	ND		ND		ND		ND			1.8E+04	2.1E+02	2.0E+03	2.0E+03
DIBENZOFURAN	UG/KG	84		59		ND		ND		ND		ND			2.5E+04	1.6E+05		1.5E+04
FLUORANTHENE	UG/KG	5300		3700		ND		ND		150		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
FLUORENE	UG/KG	ND		60		ND		ND		ND		ND			2.2E+04	2.6E+06	5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	UG/KG	2400	H	2200	H	ND		ND		81		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	70400	B E H	13900	E	11300	E	14900	E	34700	B E H	6770	E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	544	B E H	199	B	32.2	B	22.2		230	B	43.7	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	1740		1110		1210		2010	B	1270		696		1.8E+03				
MANGANESE	MG/KG	1400	E	1500	E	1640	E	1220	E	544	E	303	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.7	B E	1.1	B E W2	ND		0.055		0.46	B E	0.3	B E	2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	130		96		ND		ND		ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	44.6	B E	23.6	B	11.2		15.8	B	13.8	B	9.7		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	1400		860		ND		ND		ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	810	B	719	B	657		911	B	689		343		6.9E+02				
PYRENE	UG/KG	5400		4600		ND		ND		140		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	5.8	B E W1	2	E	1.1	E	1.7	E	2.7	E	0.87		3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SODIUM	MG/KG	64.3		271	B	56.1		43.2		34.1		25.1		8.5E+01				
THALLIUM	MG/KG	ND		ND		0.61	B	ND		ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
VANADIUM	MG/KG	21.4		18		25.3		26.6		19.1		7.5		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	893	B E	272	B E	64.4	B	60.7	B	245	B E	58.8	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-108
AUS-106A - Detections of Constituents in PA/SI Soil Samples
(see Figure 5-38 for Locations)

Soil Samples		AUS-106A-001		AUS-106A-002		AUS-106A-003		AUS-106A-004		AUS-106A-005		AUS-106A-006		AUS-106A-007		AUS-106A-011		AUS-106A-012		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**2 ft**	**CE**	**0 - 0.5 ft**	**CE**	**0 - 0.5 ft**	**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG	--		--		--		--		--		--		--		ND		ND						
ALL SVOC	UG/KG	--		--		--		--		--		--		--		ND		ND						
ALL EXPLOSIVES	UG/KG	ND		--		ND		ND		ND		ND		--		ND		ND						
cPAH	UG/KG	324.36	H	566.002	H	556.01	H	327.91	H	514.17	H	577.559	H	526.237	H	ND		ND				2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	650		77		230		120		820		150		210		ND		ND			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	14900	B E	40100	B E	36600	B E	30100	B E	51500	B E	49500	B E	47300	B E	11500	B E	12300	B E	9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	2	B	3	B	3.9	B	3.8	B	6.2	B E W1 W2	3.9	B	5.2	B E W1 W2	ND		0.41		4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ARSENIC	MG/KG	16.2	B E H	22.6	B E H	21.6	B E H	4.3	H	13.7	B E H	9.6	E H	15.2	B E H	5.6	H	11.9	E H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	516	B E	1730	B E W1 W2	356	B	519	B E	479	B	1130	B E	783	B E	96.4		91.7		2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	UG/KG	66		ND		ND		ND		ND		ND		68		ND		ND			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	66		ND		ND		59		ND		ND		ND		ND		ND			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	58		ND		ND		74		57		ND		ND		ND		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	91		ND		ND		95		ND		ND		50		ND		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	56		52		ND		ND		ND		ND		ND		ND		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	0.49		0.74	B	0.84	B	0.52	B	0.34		ND		0.97	B	0.34		0.75	B	4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	UG/KG	2000	E	2400	E	ND		6600	E	4800	E	18000	E	1600	E	ND		ND			9.3E+02	1.2E+05		3.6E+06
BORON	MG/KG	16.3	B E	43.5	B E	43.4	B E	19.5	B E	14.3	B E	30.2	B E	24.1	B E	2	E	2.4	E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	34.9	B E W1 W2	58.9	B E H W1 W2	59.1	B E H W1 W2	48.1	B E H W1 W2	28	B E W1 W2	50.4	B E H W1 W2	150	B E H W1 W2	2.2	B E	1.6	B E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	39800	B	30000	B	24500	B	19800	B	13200	B	10100	B	24300	B	1780		1500		2.9E+03				
CHROMIUM, TOTAL	MG/KG	54	B E W1 W2	239	B E W1 W2	203	B E W1 W2	99	B E W1 W2	103	B E W1 W2	137	B E W1 W2	222	B E W1 W2	24.1	B E	33.3	B E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	100		60		60		110		170		59		87		ND		ND			4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG	ND		24		ND		ND		ND		ND		ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	7.3		11.8	B	9.3		8.1		7		6.5		11.1	B	5.5		6.2		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	661	B E	3300	B E	1790	B E	1570	B E	1800	B E	2370	B E	2530	B E	47.3	B E	17	B	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	140		ND		71		ND		ND		68		93		ND		ND			2.5E+04	1.6E+05		1.5E+04
DIETHYL PHTHALATE	UG/KG	65		140		ND		ND		63		100		220		ND		ND			1.0E+05	2.0E+06		4.7E+05
DIMETHYL PHTHALATE	UG/KG	52		780		ND		ND		ND		6100		1900		ND		ND			2.0E+05	1.3E+06		3.8E+05
DI-N-BUTYL PHTHALATE	UG/KG	250		1700	E	110		220		1000	E	11000	E	5300	E	ND		ND			7.1E+02	2.3E+06	2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	UG/KG	ND		ND		ND		ND		ND		72		ND		ND		ND			6.1E+05	2.5E+06	1.0E+07	1.0E+07
ETHYLBENZENE	UG/KG	ND		ND		ND		6		ND		ND		ND		ND		ND			5.0E+03	5.8E+04	1.3E+04	1.3E+04
FLUORANTHENE	UG/KG	66		ND		ND		71		ND		ND		74		ND		ND			1.0E+05	2.2E+06	4.3E+06	4.3E+06
HMX	UG/KG	ND		ND		ND		ND		ND		ND		1500		ND		ND			2.5E+04	3.1E+06		5.7E+03
INDENO(1,2,3-C,D)PYRENE	UG/KG	53		ND		ND		61		ND		ND		ND		ND		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	58400	B E H	43600	B E H	56300	B E H	46100	B E H	95600	B E H	43300	B E H	63000	B E H	13600	E	24600	B E	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	442	B E H	583	B E H	416	B H	434	B E H	2470	B E H	514	B E H	1260	B E H	29.3	B	17.9		2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	10600	B	9810	B	9380	B	8950	B	5080	B	7440	B	15500	B	1550		1460		1.8E+03				
MANGANESE	MG/KG	734	E	1490	E	1380	E	631	E	789	E	862	E	921	E	353	E	913	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	0.13		0.32	B E	0.2	E	0.11		1.1	B E W2	0.12		0.15		0.032		0.022		2.8E-01	1.5E-01	3.1E+01		8.9E-01
METHYL ETHYL KETONE (2-BUTANONE)	UG/KG	ND		ND		ND		53		ND		ND		ND		ND		ND			9.0E+04	7.1E+05		1.7E+04
NAPHTHALENE	UG/KG	370		97		96		100		590		87		120		ND		ND			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	77.5	B E	370	B E W1 W2	87.4	B E	143	B E W1 W2	124	B E W2	149	B E W1 W2	171	B E W1 W2	11.3		11.4		1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	320		240		170		190		170		120		300		ND		ND			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	1260	B	1730	B	2930	B	1360	B	875	B	1820	B	2060	B	713	B	666		6.9E+02				
PYRENE	UG/KG	130		57		61		120		120		57		140		ND		ND			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	2.2	E	5.6	B E W1	4.1	B E	ND		1.6	E	7.7	B E W1 W2	21.8	B E W1 W2	1.5	E	2.3	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		5.3	B E W2	0.31		1.1	B	1	B	2.2	B E	1.4	B	ND		ND		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	318	B	980	B	718	B	678	B	2090	B	603	B	588	B	60.4		59.6		8.5E+01				
STYRENE	UG/KG	ND		ND		ND		200		ND		ND		ND		ND		ND			3.0E+05	4.3E+05	4.0E+03	4.0E+03
TETRYL	UG/KG	ND		1500		ND		ND		ND		ND		ND		ND		ND				6.2E+05		
TOTAL 1,2-DICHLOROETHENE	UG/KG	ND		24		ND		ND		ND		ND		ND		ND		ND			7.9E+02	1.5E+04	4.0E+02	4.0E+02
TRICHLOROETHYLENE (TCE)	UG/KG	94	W1 W2	13000	E H W1 W2	140	H W1 W2	2500	H W1 W2	110	W1 W2	18		260	H W1 W2	ND		ND			9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	26.1		36.9	B	34.4	B	28.4		19.1		31.6	B	49.1	B E	26.9		42.8	B	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
XYLENES, TOTAL	UG/KG	ND		440		ND		75		3		ND		ND		ND		ND			6.0E+02	9.0E+04	2.1E+05	1.5E+05
ZINC	MG/KG	1660	B E	3160	B E	2510	B E	1590	B E	1140	B E	2110	B E	2100	B E	108	B	71.3	B	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:
Blank in concentration column indicates constituent is not analyzed in sample
ND - not detected
ND in an "ALL" constituent group - none of the constituents were detected; -- indicates at least one constituent of that group was detected
CE - Criteria Exceeded (see end of table for criteria)
Blank in CE column indicates the constituent did not exceed any screening criteria
B - exceeds the 95UTL Background Soil Concentration
E - exceeds the Ecological Soil Screening Criteria
H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-109
AUS-106A - Detections of Constituents in PA/SI Drum Samples
(see Figure 5-38 for Locations)

Drum Samples		AUS-106A-008-DRUM		AUS-106A-009-DRUM		AUS-106A-010-DRUM		Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
Constituents Detected	**Units**		**CE**		**CE**		**CE**	**B**	**E**	**H**	**W1**	**W2**
ALL VOC	UG/KG	--		ND		--						
ALL SVOC	UG/KG	--		--		--						
ALL EXPLOSIVES	UG/KG	ND		ND		ND						
cPAH	UG/KG	623.81	H	476.92	H	389.73	H			2.1E+02		
2-METHYLNAPHTHALENE	UG/KG	ND		ND		1200			4.6E+04	1.9E+04	8.4E+04	7.7E+03
ALUMINUM	MG/KG	5490	E	12500	B E	9690	B E	9.1E+03	5.0E+01	9.2E+04		
ANTIMONY	MG/KG	1.9	B	6.5	B E W1 W2	2.7	B	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00
ANTHRACENE	UG/KG	ND		51		77			1.0E+04	2.4E+07	1.2E+07	1.2E+07
ARSENIC	MG/KG	ND		14.1	B E H	8	H	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
BARIUM	MG/KG	284	B	385	B	295	B	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03
BENZENE	UG/KG	9		ND		ND			1.6E+04	1.4E+03	3.0E+01	3.0E+01
BENZO(A)ANTHRACENE	UG/KG	66		140		120			3.0E+03	2.1E+03	2.0E+03	2.0E+03
BENZO(A)PYRENE	UG/KG	66		180		63			3.3E+03	2.1E+02	8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	UG/KG	58		260		ND			1.2E+03	2.1E+03	5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	UG/KG	91		140		ND			1.0E+05	6.1E+07		3.2E+07
BENZO(K)FLUORANTHENE	UG/KG	56		270		ND			9.0E+04	2.1E+04	4.9E+04	4.9E+04
BERYLLIUM	MG/KG	ND		0.35		0.2		4.9E-01	1.0E+01	1.9E+02	6.3E+01	2.2E+01
BORON	MG/KG	33.6	B E	5.2	B E	4.7	B E	4.6E+00	5.0E-01	1.8E+04		
CADMIUM	MG/KG	ND		45.8	B E H W1 W2	12.3	B E W1 W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
CALCIUM	MG/KG	8310	B	5120	B	10000	B	2.9E+03				
CHROMIUM, TOTAL	MG/KG	4.7		23.9	B E	57.1	B E W1 W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
CHRYSENE	UG/KG	110		220		130			4.7E+03	2.1E+05	1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	UG/KG	ND		ND		6			7.9E+02	1.5E+04	4.0E+02	4.0E+02
COBALT	MG/KG	ND		7.7		7.1		9.3E+00	2.0E+01	1.9E+03		
COPPER	MG/KG	23.3	B	319	B E	410	B E	9.4E+00	3.1E+01	4.1E+03		5.9E+04
DIBENZOFURAN	UG/KG	ND		ND		300			2.5E+04	1.6E+05		1.5E+04
DI-N-BUTYL PHTHALATE	UG/KG	ND		1400	E	180			7.1E+02	2.3E+06	2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	UG/KG	ND		300		83			6.1E+05	2.5E+06	1.0E+07	1.0E+07
FLUORANTHENE	UG/KG	ND		230		68			1.0E+05	2.2E+06	4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	UG/KG	ND		140		ND			9.0E+04	2.1E+03	1.4E+04	1.4E+04
IRON	MG/KG	4440	E	36500	B E H	101000	B E H	2.0E+04	2.0E+02	3.1E+04		
LEAD	MG/KG	246	B	279	B	236	B	2.6E+01	4.3E+02	4.0E+02		
MAGNESIUM	MG/KG	902		1560		4330	B	1.8E+03				
MANGANESE	MG/KG	367	E	879	E	862	E	2.4E+03	1.0E+02	1.9E+03		
MERCURY	MG/KG	ND		0.049		0.11		2.8E-01	1.5E-01	3.1E+01		8.9E-01
NAPHTHALENE	UG/KG	ND		ND		540			4.6E+04	1.8E+03	8.4E+04	1.2E+04
NICKEL	MG/KG	5.2		22.1	B	76	B E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
PHENANTHRENE	UG/KG	ND		200		470			1.8E+04	2.9E+06	4.2E+06	2.2E+05
POTASSIUM	MG/KG	273		557		725	B	6.9E+02				
PYRENE	UG/KG	ND		350		160			7.9E+04	2.9E+06	4.2E+06	4.2E+06
SELENIUM	MG/KG	ND		2.5	E	2.8	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
SILVER	MG/KG	ND		ND		0.33		6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00
SODIUM	MG/KG	2550	B	256	B	217	B	8.5E+01				
THALLIUM	UG/KG	0.95	B	ND		ND		5.1E-01	1.0E+00	6.7E+00		2.6E+00
TOLUENE	UG/KG	4		ND		ND			3.0E+03	4.2E+04	1.2E+04	1.2E+04
TRICHLOROETHYLENE (TCE)	UG/KG	9		ND		62	W1 W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01
VANADIUM	MG/KG	1.3		25.4		18.6		3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02
ZINC	MG/KG	530	B E	10700	B E W2	734	B E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03

Notes:

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H - exceeds the Human Health Direct Contact Soil Screening Criteria
W1 - exceeds the Soil to Groundwater Screening Criteria based on EPA SSL with a DAF of 20
W2 - exceeds the Soil to Groundwater Screening Criteria based on Class I GW; metals were based on criteria using pH 6.25 to 6.64

Table 5-110 AUS-0A2B Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Soil Boring	Monitoring Well	Comment
AUS0A2B	Area of dumped propellant north of Building B-2-13	0A2B-021 Proposed 0A2B-052 Proposed 0A2B-053 Proposed 0A2B-054	Proposed AUS-0A2B-W05	Existing soil sample 0A2B-021 contained TCE.
AUS0A2B	Building B-2-1, which contained presses and later a TCE Vapor degreaser	Proposed 0A2B-029 Proposed 0A2B-040 Proposed 0A2B-041	Proposed AUS-0A2B-W11	Location for proposed monitoring well was selected during April 2003 site visit.
AUS0A2B	Building B-2-2, which contained presses and was used for loading and machining	Proposed 0A2B-025 Proposed 0A2B-026	Proposed AUS-0A2B-W04	Location for proposed monitoring well was selected during April 2003 site visit.
AUS0A2B	Building B-2-3	Proposed 0A2B-027		Not listed in SOW but requested during April 2003 site visit.
AUS0A2B	Building B-2-4, Detonator Service Magazine	Proposed 0A2B-028 Proposed 0A2B-088		
AUS0A2B	Building B-2-5, which was used for Flare production	Proposed 0A2B-030		
AUS0A2B	Building B-2-6, which contained presses	0A2B-004 Proposed 0A2B-047 Proposed 0A2B-055 Proposed 0A2B-056	Proposed AUS-0A2B-W08	
AUS0A2B	Olin Building B-2-9, used for chemical storage	Proposed 0A2B-028 Proposed 0A2B-088		
AUS0A2B	Burning Pad at the former location of IOP Building B-2-9	Proposed 0A2B-048 Proposed 0A2B-049 Proposed 0A2B-063 Proposed 0A2B-064	Proposed AUS-0A2B-W07	
AUS0A2B	Building B-2-11	Proposed 0A2B-023		Not listed in SOW but requested during April 2003 site visit
AUS0A2B	Buildings B-2-13, used for storage of waste	Proposed 0A2B-043		
AUS0A2B	Olin Building B-2-14, used for testing.	Proposed 0A2B-037		
AUS0A2B	Building B-2-16 (Pad)	Proposed 0A2B-036		Not listed in SOW but requested during April 2003 site visit
AUS0A2B	Building B-2-16	Proposed 0A2B-032 Proposed 0A2B-042		Not listed in SOW but requested during April 2003 site visit
AUS0A2B	Building B-2-19, used for storage of propellant	Proposed 0A2B-033 Proposed 0A2B-034		
AUS0A2B	Building B-2-20, flare production building	Proposed 0A2B-030		Not listed in SOW but requested

Table 5-110 AUS-0A2B Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Soil Boring	Monitoring Well	Comment
				during April 2003 site visit
AUS0A2B	Building B-2-20N	Proposed 0A2B-031		Not listed in SOW but requested during April 2003 site visit
AUS0A2B	Olin Building B-2-25, used for storage of waste	Proposed 0A2B-038		
AUS0A2B	Olin Building B-2-26, used for storage of waste	Proposed 0A2B-039		
AUS0A2B	Transformer Pad	Proposed 0A2B-044		Not listed in SOW but requested during April 2003 site visit; Agencies requested PCB samples next to transformer pad
AUS0A2B	Olin Building B-2-17	Proposed 0A2B-035		Not listed in SOW

Table 5-111 AUS-0A2D Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS0A2D	Building D-1-43 (Explosives Mixing Facility)	Proposed 0A2D-049	Existing MW AUS-0A2D-W06; Proposed Monitoring Well AUS-0A2D-W08	
AUS0A2D	Building D-1-44 (Explosives Mixing Facility)	0A2D-023		
AUS0A2D	Building D-1-47 (Explosives Mixing Facility)	0A2D-022 Proposed 0A2D-100 Proposed 0A2D-102	AUS-0A2D-W10	
AUS0A2D	Building D-1-57 (Explosives Mixing Facility)	0A2D-019		
AUS0A2D	Building D-1-58 (Explosives Mixing Facility)	0A2D-020		
AUS0A2D	Unnamed northernmost (Explosives Storage Facility)	Proposed 0A2D-046		
AUS0A2D	Olin Building D-1-14 (Explosives Storage Facility)	Proposed 0A2D-047		
AUS0A2D	Olin Building D-1-15 (Explosives Storage Facility)	Proposed 0A2D-048		
AUS0A2D	IOP Building D-1-4 (Explosives Storage Facility)	0A2D-003 0A2D-004 Proposed 0A2D-089 Proposed 0A2D-090 Proposed 0A2D-091 Proposed 0A2D-092 Proposed 0A2D-093 Proposed 0A2D-094		
AUS0A2D	IOP Building D-1-15 (Explosives Storage Facility)	Proposed 0A2D-072 Proposed 0A2D-073 Proposed 0A2D-074 Proposed 0A2D-075		
AUS0A2D	Building D-1-49, used for solvent storage	Proposed 0A2D-067		
AUS0A2D	Building D-1-23, used for Fulinate/azide storage	Proposed 0A2D-068		
AUS0A2D	Building D-1-28, used for Fulinate/azide storage	Proposed 0A2D-054		
AUS0A2D	Building D-1-29, used for Fulinate/azide storage	Proposed 0A2D-055		
AUS0A2D	Building D-1-34, used for Fulinate/azide storage	Proposed 0A2D-065		
AUS0A2D	Olin Building D-1-17, contained a boiler	Proposed 0A2D-051		
AUS0A2D	Building D-1-36, used for R & D	Proposed 0A2D-062 Proposed 0A2D-063		
AUS0A2D	Building D-1-6, used for waste storage	Proposed 0A2D-066		

Table 5-111 AUS-0A2D Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS0A2D	Building D-1-7, used for waste storage	0A2D-007 0A2D-008 Proposed 0A2D-061 Proposed 0A2D-097		
AUS0A2D	Building D-1-8, used for waste storage	0A2D-009 0A2D-W01 0A2D-W02 Proposed 0A2D-060	0A2D-W01 0A2D-W02	
AUS0A2D	Building D-1-65, used for waste storage	Proposed 0A2D-069		
AUS0A2D	Building D-1-77, used for waste storage	Proposed 0A2D-070		
AUS0A2D	Building D-1-85, used for waste storage	None Proposed		Location of this Building could not be located.
AUS0A2D	Building D-1-86, used for waste storage	0A2D-027 Proposed 0A2D-103 Proposed 0A2D-104 Proposed 0A2D-105		
AUS0A2D	Building D-1-90, used for waste storage	Proposed 0A2D-052		
AUS0A2D	Building IOP D-1-5, used for waste storage	Proposed 0A2D-071		In nearby ditch
AUS0A2D	Building D-1-3, High explosive production	Proposed 0A2D-053		Not listed in SOW
AUS0A2D	Building D-1-10	Proposed 0A2D-056 Proposed 0A2D-057		Not listed in SOW
AUS0A2D	Building D-1-13	Proposed 0A2D-058 Proposed 0A2D-059		Not listed in SOW
AUS0A2D	Unnamed truck loading dock	Proposed 0A2D-050		Not listed in SOW
AUS0A2D	Transformer Pad	Proposed 0A2D-064		Not listed in SOW but requested during April 2003 site visit; Agencies requested PCB samples next to transformer pad
AUS0A2D	Three-acre lawn area northwest of Building D-1-35.	Proposed 0A2D-129		Not listed in SOW. Requested by Agencies.
AUS0A2D	Building D-1-63 where Olin reportedly stored flammable materials	Proposed 0A2D-149		

Table 5-112 AUS-0A2F Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS0A2F	Area occupied by 9 buildings facility	Proposed 0A2F-014 Proposed 0A2F-015 Proposed 0A2F-016 Proposed 0A2F-017 Proposed 0A2F-018 Proposed 0A2F-019 Proposed 0A2F-020 Proposed 0A2F-021 Proposed 0A2F-022 Proposed 0A2F-023		
AUS0A2F	Former ASTs at NW corner of 9 building Facility	0A2F-011 0A2F-012	Proposed 0A2F-W04	
AUS0A2F	Building F-2-1, a former foundry	Proposed 0A2F-027 Proposed 0A2F-028 Proposed 0A2F-039 Proposed 0A2F-040		
AUS0A2F	F-2-5, Primer loading and gas generator manufacturing.	Proposed 0A2F-029 Proposed 0A2F-054		
AUS0A2F	F-2-10, Primer loading and gas generator manufacturing.	Proposed 0A2F-032 Proposed 0A2F-052		
AUS0A2F	F-2-11, used for assembly of 120 mm cartridges	Proposed 0A2F-024 Proposed 0A2F-034 Proposed 0A2F-036		
AUS0A2F	F-6-45, TCE degreaser	Proposed 0A2F-025 Proposed 0A2F-026 Proposed 0A2F-035	Proposed 0A2F-W05	
AUS0A2F	F-2-2, Howitzer machining, PCB transformer and waste storage	0A2F-003 0A2F-009 0A2F-W01 Proposed 0A2F-043 Proposed 0A2F-044 Proposed 0A2F-049 Proposed 0A2F-050	0A2F-W01	
AUS0A2F	F-2-3, PCB transformer storage	0A2F-001 Proposed 0A2F-053		Agencies requested PCB sampling
AUS0A2F	F-2-4, PCB transformer storage	Proposed 0A2F-041		
AUS0A2F	F-2-36, Propellant grain pressing	0A2F-W03 Proposed 0A2F-029	0A2F-W03	

Table 5-112 AUS-0A2F Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS0A2F	F-2-9, used for loading and contained 12 presses	0A2F-008 Proposed 0A2F-030 Proposed 0A2F-031		
AUS0A2F	F-2-24A, waste storage	None proposed		Location is unknown; no samples proposed.
AUS0A2F	F-2-33, waste storage	None proposed		Unknown location; 33A and 33B will be investigated as part of F-2-11
AUS0A2F	F-2-12	Proposed 0A2F-037 Proposed 0A2F-038		Not listed in SOW
AUS0A2F	F-2-14	Proposed 0A2F-033		Not listed in SOW
AUS0A2F	Upgradient of 0A2F-W01 which had low concentrations of VOCs detected in the groundwater sample	Proposed 0A2F-041 Proposed 0A2F-060		

Table 5-113 AUS-0A2P Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS0A2P	P-1-3; Degreaser building	0A2P-W02 0A2P-W03 0A2P-011 Proposed 0A2P-074 Proposed 0A2P-077 Proposed 0A2P-081	0A2P-W02 0A2P-W03	
AUS0A2P	P-1-10; Degreaser building	0A2P-W05	0A2P-W05	
AUS0A2P	P-1-63, Explosive storage	Proposed 0A2P-025		
AUS0A2P	P-1-76, Explosive storage	Proposed 0A2P-029		
AUS0A2P	P-1-3, Waste storage buildings	0A2P-W02 0A2P-W03 0A2P-011 Proposed 0A2P-074 Proposed 0A2P-077 Proposed 0A2P-081	0A2P-W02 0A2P-W03	
AUS0A2P	IOP P-1-6, Waste storage buildings	0A2P-001 0A2P-003		
AUS0A2P	P-1-62, Waste storage buildings	Proposed 0A2P-031		
AUS0A2P	P-1-70, Waste storage buildings	Proposed 0A2P-034		
AUS0A2P	P-1-84, Waste storage buildings	Proposed 0A2P-039		In Ditch near building
AUS0A2P	P-1-13, used for solvent storage	Proposed 0A2P-073		
AUS0A2P	P-1-80, used for Propellant Mixing	Proposed 0A2P-040		
AUS0A2P	P-1-11, used for R&D	Proposed 0A2P-033 Proposed 0A2P-083		
AUS0A2P	P-1-66	Proposed 0A2P-026		Not listed in SOW but requested during April 2003 site visit
AUS0A2P	P-1-54 (Former P-1-48)	Proposed 0A2P-027		
AUS0A2P	P-1-43	Proposed 0A2P-028		
AUS0A2P	P-1-8	Proposed 0A2P-024		
AUS0A2P	Drainage near P-1-4	Proposed 0A2P-030		Not listed in SOW but requested during April 2003 site visit
AUS0A2P	P-1-1	Proposed 0A2P-032 Proposed 0A2P-088		Not listed in SOW
AUS0A2P	Unknown	Proposed 0A2P-035		
AUS0A2P	P-1-82	Proposed 0A2P-036		MISCA OU RI Sample COS011A02 was collected adjacent to this building and had no exceedances
AUS0A2P	Near P-1-71	Proposed 0A2P-037		
AUS0A2P	In Drainage near P-1-63	Proposed 0A2P-038		Not listed in SOW but requested during April 2003 site visit.

Table 5-113 AUS-0A2P Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS0A2P	Near P-1-9 due to possible use of solvents.	Proposed 0A2P-038		Not listed in SOW; requested by Agencies.

Table 5-114 AUS-0A4W Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS0A4W	S-1-1, former diesel repair building	Proposed 0A4W-014 Proposed 0A4W-015 Proposed 0A4W-025		
AUS0A4W	S-1-2, former tool and gauge building	Proposed 0A4W-016 Proposed 0A4W-026 Proposed 0A4W-027		
AUS0A4W	S-2-1, former millwright building	Proposed 0A4W-019		
AUS0A4W	S-2-2, former machine shop	Proposed 0A4W-018		
AUS0A4W	S-2-3, former boiler house	Proposed 0A4W-028 Proposed 0A4W-029 Proposed 0A4W-030		
AUS0A4W	S-3-1, former carpenter shop	Proposed 0A4W-023		
AUS0A4W	S-3-2, former warehouse building	Proposed 0A4W-024		
AUS0A4W	S-3-3, former electric and communications building	Proposed 0A4W-017		
AUS0A4W	S-1-3, IOP Laboratory	Proposed 0A4W-031 Proposed 0A4W-032		
AUS0A4W	S-2-5, Former IOP Light Equipment Repair	Proposed 0A4W-055 Proposed 0A4W-056 Proposed 0A4W-W01	Proposed 0A4W-W01	Not listed in SOW; requested by Agencies.
AUS0A4W	Fuel oil and gasoline unloading rack between Buildings S-2-3 and S-2-4.	Proposed 0A4W-054		Not listed in SOW; requested by Agencies.

Table 5-115 AUS-0A07 Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0A07	Buildings IN-2-1, used for chemical processing	0A07-162 0A07-163 0A07-164 0A07-165 0A07-166 Proposed 0A07-197		
AUS-0A07	Building IN-2-4 used for woodworking	Proposed 0A07-173 Proposed 0A07-174 Proposed 0A07-216 Proposed 0A07-217		
AUS-0A07	Building IN-2-5 used for woodworking	Proposed 0A07-177 Proposed 0A07-214 Proposed 0A07-215		
AUS-0A07	Building IN-2-6 used for woodworking	Proposed 0A07-176 Proposed 0A07-213 Proposed 0A07-219 Proposed 0A07-242	Proposed AUS-0A7B-W03	
AUS-0A07	Building IN-3-4 used for oil products distribution (maybe radio component manufacturing)	Proposed 0A07-172 Proposed 0A07-200		
AUS-0A07	Building IN-3-5 used for oil products distribution/possibly used for machining	Proposed 0A07-180 Proposed 0A07-181		
AUS-0A07	Building IN-3-6, possibly used for machining	Proposed 0A07-178 Proposed 0A07-179		
AUS-0A07	Building IN-4-4 used for oil products distribution	Proposed 0A07-187 Proposed 0A07-188 Proposed 0A07-189		
AUS-0A07	Building IN-4-5, possibly used for transformer manufacturing	0A07-017 0A07-018 Proposed 0A07-182 Proposed 0A07-183 Proposed 0A07-223 Proposed 0A07-225 Proposed 0A07-232 Proposed 0A07-233		
AUS-0A07	Building IN-5-5, used for boat manufacturing	Proposed 0A07-184		
AUS-0A07	Building IN-5-6, used for boat manufacturing	0A07-020 Proposed 0A07-229 Proposed 0A07-231		
AUS-0A07	Building IN-6-4, used for mine car rebuilding	Proposed 0A07-185 Proposed 0A07-186		

Table 5-115 AUS-0A07 Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0A07	Pesticide contamination at Area 7, including potential contribution of elevated levels in fish in Crab Orchard Lake	Numerous PA/SI and Proposed RI/FS		Numerous samples have been collected and are proposed.
AUS-0A07	Building IN-1-1	Proposed 0A07-175		Not listed in SOW but requested during April 2003 site visit. Sample location chosen during this site visit.
AUS-0A07	Former Buildings IN-5-2 and IN-5-3 (were attached at one time), rebuilding mining equipment	Proposed 0A07-171 Proposed 0A07-190 Proposed 0A07-191 Proposed 0A07-192 Proposed 0A07-193 Proposed 0A07-194		Sample location chosen during this site visit
AUS-0A07	Building IN-6-2, rebuilding mining equipment	Proposed 0A07-195 Proposed 0A07-196		
AUS-0A07	IN-2-3	Proposed 0A07-198 Proposed 0A07-199		Not listed in SOW but requested during April 2003 site visit
AUS-0A07	Between Buildings IN-5-2 and IN-5-3 where former annex had concrete vault that collected spend hydraulic oil.	Proposed 0A07-253		
AUS-0A07	Adjacent to transformers.	Proposed 0A07-254		Not listed in SOW but requested by Agencies.
AUS-0A07	Adjacent to Building IN-3-2 which was used to store fertilizer.	Proposed 0A07-255 Proposed 0A07-256		Not listed in SOW but requested by Agencies.

Table 5-116 AUS-0A8S Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0A8S	Bermed area around former AST, near north end of site			This area is part of the MISCA OU Site 12; Sampled and closed as no further action (FWS, 2001). No sampling proposed.
AUS-0A8S	Scarred area visible in aerial photographs from 1951 to 2000, located about 600 feet SE of MISCAOU Site 14	Proposed 0A8S-036		
AUS-0A8S	Post-1951 bermed area identified in aerial photographs, located about 800 feet SW of MISCAOU Site 14	Proposed 0A8S-037 Proposed 0A8S-038 Proposed 0A8S-039		
AUS-0A8S	All ponds (SW and SED) located at the south end of site that have not been previously sampled (in vicinity of a suspected dump site)	Proposed 0A8S-051 Proposed 0A8S-052 Proposed 0A8S-053 Proposed 0A8S-054		
AUS-0A8S	Within area where USFWS reported buried black powder	Proposed 0A8S-0626		Not in SOW; sample requested by Agencies.
AUS-0A8S	Bermed Area around former AST, near north end of site (MISCA OU Site 12).	Proposed 0A8S-063		Not in SOW; sample requested by Agencies.

Table 5-117 AUS-0A09 Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0A09	Explosive storage area located at north end of site	Proposed 0A09-066		
AUS-0A09	Sumps and Building I-1-20.	Proposed 0A09-049 Proposed 0A09-050		Not in SOW; sample requested by the Agencies.

Table 5-118 AUS-0A10 Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0A10	FBM 1-4, Igloos leased by Sangamo 1949-1951	Proposed 0A10-014		
AUS-0A10	FBM 1-5, Igloos leased by Sangamo 1949-1951	Proposed 0A10-012 Proposed 0A10-013		
AUS-0A10	FBM 3-1, Igloos used for propellant casting	Proposed 0A10-007		
AUS-0A10	FBM 3-2, Igloos used for propellant casting	Proposed 0A10-008		
AUS-0A10	FBM 3-3, Igloos used for propellant casting	Proposed 0A10-009		
AUS-0A10	Area of Surface dischloration (1951) around FBM 4-1 Igloo	Proposed 0A10-005 Proposed 0A10-006		
AUS-0A10	FBM 2-5	Proposed 0A10-010		
AUS-0A10	FBM 2-6	Proposed 0A10-011		
AUS-0A10	Apparent burn area to south of burn pits within firing range.	Proposed 0A10-028		Not in SOW. Sample requested by the Agencies.

Table 5-119 AUS-A11A Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-A11A	Acid Manufacturing Area	Proposed A11A-042 Proposed A11A-043 Proposed A11A-044 Proposed A11A-045 Proposed A11A-047		
AUS-A11A	Former location of dynoil mix house	Proposed A11A-038 Proposed A11A-039 Proposed A11A-040 Proposed A11A-041 Proposed A11A-048		
AUS-A11A	Former TNT Screening Building (contained press)	A11A-W02 A11A-025	A11A-W02	
AUS-A11A	Building 46 south of TNT screening (1 press)	A11A-036 A11A-037 Proposed A11A-046	A11A-W09	

Table 5-120 AUS-A11H Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-A11H	Building 12, mix house	Proposed A11H-071 Proposed A11H-072 Proposed A11H-077 Proposed A11H-078 Proposed A11H-079 A11H-049 A11H-015 A11H-016 A11H-032 A11H-047 A11H-039	Proposed AUS-11H-W03 Proposed AUS-11H-W05 Proposed AUS-11H-W06	Clustered area of former buildings. Investigated as a whole instead of individually
AUS-A11H	Building 17, mix house			
AUS-A11H	Building 18, mix house and pack house			
AUS-A11H	Building 13, pack house			
AUS-A11H	Building 14, pack house			
AUS-A11H	Building 15, pack house			
AUS-A11H	Building 16, pack house			
AUS-A11H	Storage Buildings 7 and 67 (former melt loading)	A11H-058 A11H-059 A11H-060 A11H-061		
AUS-A11H	Mound of dumped soil at south end of site	Proposed A11H-069 Proposed A11H-070 Proposed A11H-076		
AUS-A11H	R & D buildings	Proposed A11H-069 Proposed A11H-074		
AUS-A11H	Vicinity of former ASTs (inert stores) and downgradient of Test Pit A11H-061.	Proposed A11H-104 Proposed A11H-105		Not in SOW. Sampling requested by the Agencies.

Table 5-121 AUS-A11N Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-A11N	Former disposal trenches at SW part of site	Proposed A11N-033 Proposed A11N-034 Proposed 0A12-101 Proposed 0A12-102		
AUS-A11N	Nitroglycerin manufacturing area	A11N-020 A11N-021 A11N-024 A11N-025 A11N-026 Proposed A11N-043 Proposed A11N-044 Proposed A11N-045 Proposed A11N-046 Proposed A11N-047 Proposed A11N-048		Numerous PA/SI and proposed RI/FS soil boring in this area.
AUS-A11N	Soil pile; requested in field	Proposed 11N-032		

Table 5-122 AUS-0001 Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0001	Ground discoloration noted in 1965 aerial photo, in parking area at east end of site	Proposed 0001-006		

Table 5-123 AUS-0002 Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0002	Former WWTP building	Proposed 0002-006		
AUS-0002	Sewer manholes leading from the treatment plant to the lagoons	Proposed 0002-007		
AUS-0002	Former WWTP treatment pits	Proposed 0002-014		Not in SOW. Sample requested by the Agencies.

Table 5-124 AUS-0018 Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0018	Former railroad track areas	Proposed 0018-013 Proposed 0018-014 Proposed 0018-015 Proposed 0018-016		

Table 5-125 AUS-0061 Potential Other Features and Description of Existing and Proposed Data

Area	Critical Feature	Boring	Well	Comment
AUS-0061	Entire portion of site designated as the "disposal area"	Proposed 0061-007 Proposed 0061-008 Proposed 0061-009 Proposed 0061-010 Proposed 0061-011 Proposed 0061-012 Proposed 0061-013 Proposed 0061-014 Proposed 0061-015 Proposed 0061-023 Proposed 0061-024 Proposed 0061-025 Proposed 0061-026 Proposed 0061-027 Proposed 0061-028 Proposed 0061-029 Proposed 0061-030 Proposed 0061-031 Proposed 0061-032 Proposed 0061-033 Proposed 0061-034 Proposed 0061-035 Proposed 0061-036 Proposed 0061-037 Proposed 0061-038 Proposed 0061-039 Proposed 0061-040	17-MWC-01 17-MWC-02 17-MWC-03 Two monitoring wells will be installed in the disposal area based on the results of the soil boring and sampling program. Additionally, a downgradient monitoring well will be installed downgradient from any contaminant sources detected in the soil samples, if any.	As part of PCB OU, Area 17 landfill was investigated and excavated; the footprint of this landfill and sampling overlies a significant portion of this critical feature..

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-023	0-0.5	Metals	Adjacent to Building B-2-11.
	0.5-2	Metals	
0A2B-025	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-2. Metals Exceedances of Ecological Screening Criteria at 0A2B-019.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0A2B-026	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-2. Metals Exceedances of Ecological Screening Criteria at 0A2B-019.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0A2B-027	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-3.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-028	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-4/Olin Building B-2-9.
	0.5-2	SVOCs Explosives Metals	
0A2B-029	0-0.5	VOCs SVOCs Explosives Metals	Adjacent to Building B-2-1.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0A2B-030	0-0.5	SVOCs Explosives Metals	Adjacent to Buildings B-2-5 and B-2-20.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-031	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-20N. Exceedances of Ecological and Human Health Screening Criteria for Metals at 0A2B-004.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-032	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-16.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-033	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-19.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-034	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-19.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-035	0-0.5	SVOCs Explosives Metals	Adjacent to Olin Building B-2-17. Exceedance of Ecological Screening Criteria for metals at 0A2B-010 and 0A2B-W03.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-036	0-0.5	SVOCs Explosives Metals	Adjacent to B-2-16 (Pad). Exceedance of Ecological Screening Criteria for cadmium at 0A2B-W03.
	0.5-2	VOCs SVOCs Explosives Metals	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-037	0-0.5	SVOCs Explosives Metals	Adjacent to Olin Building B-2-14.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-038	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-25.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-039	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-26.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-040	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-1.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-041	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-1.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0A2B-042	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-16.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-043	0-0.5	SVOCs Explosives Metals Cyanide	Adjacent to Building B-2-13. Exceedances of Ecological Screening Criteria for Cyanide at 0A2B-011.
	0.5-2	VOCs SVOCs Explosives Metals Cyanide	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-044	0-0.5	Metals Cyanide PCBs	Adjacent to Transformers. Exceedances of Ecological Screening Criteria for Zinc and Cyanide at 0A2B-009.
	0.5-2	Metals Cyanide PCBs	Agency request for VOC analysis. Boring to be advanced to 10 feet or water table surface, whichever is deeper. Soil samples collected in 4-foot intervals below 10 feet to water table and analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2B-045	0-0.5	PAHs Metals	EPA Sample 6-01 Resample. Exceedances of Ecological Screening Criteria for metals at 0A2B-017.
	0.5-2	PAHs Metals	
0A2B-046	0-0.5	Metals	EPA Sample 6-02 Resample. Exceedances of Ecological Screening Criteria for metals at 0A2B-017.
	0.5-2	Metals	
0A2B-047	0-0.5	SVOCs Explosives Metals	EPA Sample 6-03 Resample. Adjacent to Building B-2-6.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2B-048	0-0.5	PAHs Explosives Metals	EPA Samples 6-04 and 6-05 resample. Exceedances of Ecological Screening Criteria for Metals atsoil sample 0A2B-002 and drum sample 0A2B-002..
	0.5-2	VOCs PAHs Explosives Metals	Adjacent to Building B-2-9.
0A2B-049	0-0.5	PAHs Explosives Metals	EPA Sample 6-07 resample. Exceedances of Ecological Screening Criteria for Metals at soil sample 0A2B-002, drum sample 0A2B-002, and soil sample 0A2B-005..
	0.5-2	VOCs PAHs Explosives Metals	Adjacent to Building B-2-9.
0A2B-050	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene at 0A2B-003.
	0.5-2	PAHs	
0A2B-051	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene at 0A2B-003.
	0.5-2	PAHs	
	2-6	PAHs	
	6-10	PAHs	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-052	0-0.5	Explosives Metals Cyanide	Exceedances of Human Health Screening Criteria for Trichloroethylene (TCE) and Ecolological Screening Criteria for Metals and Cyanide at 0A2B-021
	0.5-2	VOCs Explosives Metals Cyanide	Adjacent to Building B-2-13. Agencies request that after 2 feet, soil samples be collected in 4 foot intervals and analyzed for VOCs to a depth of 10 feet or the groundwater surface, whichever is greater.
	2-6	VOCs	
	6-10	VOCs	
0A2B-053	0-0.5	Explosives Metals Cyanide	Exceedances of Human Health Screening Criteria for Trichloroethylene (TCE) and Ecolological Screening Criteria for Metals and Cyanide at 0A2B-021
	0.5-2	VOCs Explosives Metals Cyanide	Adjacent to Building B-2-13. Agencies request that after 2 feet, soil samples be collected in 4 foot intervals and analyzed for VOCs to a depth of 10 feet or the groundwater surface, whichever is greater.
	2-6	VOCs	
	6-10	VOCs	
0A2B-054	0-0.5	Explosives Metals Cyanide	Exceedances of Human Health Screening Criteria for Trichloroethylene (TCE) and Ecolological Screening Criteria for Metals and Cyanide at 0A2B-021
	0.5-2	VOCs Explosives Metals Cyanide	Adjacent to Building B-2-13. Agencies request that after 2 feet, soil samples be collected in 4 foot intervals and analyzed for VOCs to a depth of 10 feet or the groundwater surface, whichever is greater.
	2-6	VOCs	
	6-10	VOCs	
0A2B-055	0-0.5	SVOCs Explosives Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2B-004. Adjacent to Building B-2-6.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-056	0-0.5	SVOCs Explosives Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2B-004. Adjacent to Building B-2-6.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0A2B-057	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2B-004.
	0.5-2	Metals	
0A2B-058	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2B-016 and 0A2B-W01.
	0.5-2	Metals	
0A2B-059	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2B-005 and 0A2B-016.
	0.5-2	Metals	
0A2B-060	0-0.5	Metals Cyanide	Exceedances of Ecological Screening Criteria for Metals and Cyanide at 0A2B-009.
	0.5-2	Metals Cyanide	Agency request for VOC analysis. Boring to be advanced to 10 feet or water table surface, whichever is deeper. Soil samples collected in 4-foot intervals below 10 feet to water table and analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2B-061	0-0.5	Metals Cyanide	Exceedances of Ecological Screening Criteria for Metals and Cyanide at 0A2B-009.
	0.5-2	Metals Cyanide	Agency request for VOC analysis. Boring to be advanced to 10 feet or water table surface, whichever is deeper. Soil samples collected in 4-foot intervals below 10 feet to water table and analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2B-062	0-0.5	Metals Cyanide	Exceedances of Ecological Screening Criteria for Metals and Cyanide at 0A2B-009.
	0.5-2	Metals Cyanide	Agency request for VOC analysis. Boring to be advanced to 10 feet or water table surface, whichever is deeper. Soil samples collected in 4-foot intervals below 10 feet to water table and analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2B-063	0-0.5	PAHs Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at soil sample 0A2B-002 and drum sample 0A2B-002. Adjacent to Building B-2-9.
	0.5-2	VOCs PAHs Explosives Metals	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-064	0-0.5	SVOCs Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2B-001, soil sample 0A2B-002, and drum sample 0A2B-002. Adjacent to Building B-2-9.
	0.5-2	VOCs SVOCs Explosives Metals	Adjacent to AUS-0A2B-W07.
0A2B-065	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2B-001.
	0.5-2	Metals	
0A2B-066	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2B-001.
	0.5-2	Metals	
0A2B-067	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2B-001.
	0.5-2	Metals	
0A2B-068	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2B-019.
	0.5-2	Metals	
0A2B-069	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2B-019.
	0.5-2	Metals	
0A2B-070	0-0.5	Metals Cyanide	Exceedances of Ecological Screening Criteria for Metals at 0A2B-022 and Cyanide at 0A2B-011.
	0.5-2	Metals Cyanide	
0A2B-071	0-0.5	Cyanide	Exceedances of Ecological Screening Criteria for Cyanide at 0A2B-011.
	0.5-2	Cyanide	
0A2B-072	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2B-008.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2B-073	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2B-008 and 0A2B-012.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2B-074	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2B-008 and 0A2B-012.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2B-075	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2B-W01.
	0.5-2	Metals	
0A2B-076	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2B-W01.
	0.5-2	Metals	
0A2B-077	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Cadmium at 0A2B-W03.
	0.5-2	Metals	
0A2B-078	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Cadmium at 0A2B-012.
	0.5-2	Metals	

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-079	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0A2B-008.
	0.5-2	Metals	
0A2B-080	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0A2B-010.
	0.5-2	Metals	
0A2B-081	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0A2B-017.
	0.5-2	Metals	
0A2B-082	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2B-005.
	0.5-2	Metals	
0A2B-083	0-0.5	Metals	Exceedance of STG criteria for chromium in 0-0.5' soil sample interval at 0A2B-002.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2B-087	0-0.5	Metals	Verify EPA sample 6-06.
	0.5-2	Metals	
0A2B-088	0-0.5	SVOCs Explosives Metals	Adjacent to Building B-2-4/Olin Building B-2-9.
	0.5-2	SVOCs Explosives Metals	
0A2B-089	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-004.
0A2B-090	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-005.
0A2B-091	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-010.
0A2B-092	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-012.
0A2B-093	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-017.
0A2B-094	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-018.
0A2B-095	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-019.
0A2B-096	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-020.
0A2B-097	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-W01.
0A2B-098	0-0.5	PAHs	Verification of cPAH exceedance at 0A2B-W02.
0A2B-W08	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0A2B-004.
	0.5-2	Metals	
	2-6	Metals	Exceedance of STG criteria for metals in 0-0.5' soil sample interval at 0A2B-004.
	6-10	Metals	
0A2B-W09	0-0.5	Metals	Exceedance of STG criteria for arsenic in 0-0.5' soil sample interval at 0A2B-008.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2B-W10	0-0.5	Metals	Exceedance of STG criteria for chromium in 0-0.5' soil sample interval at 0A2B-016.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2B-W12	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2B-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2B-W13	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2B-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-126: AUS-0A2B Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Purpose of Soil Boring
0A2B-W14	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2B-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2B-W15	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2B-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2B-W16	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2B-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2B-W17	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2B-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-046	0-0.5	Explosives Metals	Adjacent to Unnamed Explosives storage facility
	0.5-2	Explosives Metals	
0A2D-047	0-0.5	Explosives Metals	Adjacent to Olin D-1-14
	0.5-2	Explosives Metals	
0A2D-048	0-0.5	Explosives Metals	Adjacent to Olin D-1-15
	0.5-2	VOCs SVOCs Explosives Metals	
0A2D-049	0-0.5	SVOCs Explosives Metals	Adjacent to D-1-43
	0.5-2	VOCs SVOCs Explosives Metals	
0A2D-050	0-0.5	Explosives Metals	Adjacent to Unnamed truck loading dock
	0.5-2	Explosives Metals	
0A2D-051	0-0.5	Metals	Adjacent to Building D-1-17
	0.5-2	VOCs SVOCs Metals	
0A2D-052	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-90
	0.5-2	VOCs SVOCs Explosives Metals	
0A2D-053	0-0.5	Explosives Metals	Adjacent to Building D-1-3.
	0.5-2	Explosives Metals	
0A2D-054	0-0.5	SVOCs Metals	Adjacent to Building D-1-28.
	0.5-2	SVOCs Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-055	0-0.5	SVOCs Metals	Adjacent to IOP Building D-1-29.
	0.5-2	SVOCs Metals	
0A2D-056	0-0.5	Explosives Metals	Adjacent to Building D-1-10. Exceedances of Ecological Screening Criteria for Metals at 0A2D-010 and 0A2D-011.
	0.5-2	Explosives Metals	
0A2D-057	0-0.5	Explosives Metals	Adjacent to Building D-1-10.
	0.5-2	Explosives Metals	
0A2D-058	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-13. Exceedance of Human Health Screening Criteria for Benzo(a)pyrene at 0A2D-045.
	0.5-2	PAHs Explosives Metals	
0A2D-059	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-13. Exceedance of Human Health Screening Criteria for Benzo(a)pyrene at 0A2D-045.
	0.5-2	PAHs Explosives Metals	
0A2D-060	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-8.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2D-061	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-7. Exceedance of Ecological Screening Criteria for Copper at 0A2D-007.
	0.5-2	VOCs SVOCs Explosives Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-062	0-0.5	SVOCs Explosives Metals	Drainage near Building D-1-36.
	0.5-2	SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A2D-063	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-36.
	0.5-2	SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A2D-064	0-0.5	PCBs	Adjacent to Transformers.
	0.5-2	PCBs	
0A2D-065	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-34.
	0.5-2	SVOCs Explosives Metals	
0A2D-066	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-6.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2D-067	0-0.5	SVOCs Explosives Metals	Adjacent to Building D-1-49.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A2D-068	0-0.5	SVOCs Metals	Adjacent to Building D-1-23.
	0.5-2	SVOCs Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-069	0-0.5	Explosives Metals	Adjacent to Building D-1-65.
	0.5-2	Explosives Metals	
0A2D-070	0-0.5	Explosives Metals	Adjacent to Building D-1-77.
	0.5-2	Explosives Metals	
0A2D-071	0-0.5	Explosives Metals	West of Building D-1-6.
	0.5-2	Explosives Metals	
0A2D-072	0-0.5	Explosives Metals SVOCs	Adjacent to IOP Building D-1-15. EPA 7-05 Resample.
	0.5-2	SVOCs Explosives Metals	
0A2D-073	0-0.5	PAHs Explosives Metals	Adjacent to IOP Building D-1-15.
	0.5-2	PAHs Explosives Metals	
0A2D-074	0-0.5	PAHs Explosives Metals	Adjacent to IOP Building D-1-15.
	0.5-2	PAHs Explosives Metals	
0A2D-075	0-0.5	PAHs Explosives Metals	Adjacent to IOP Building D-1-15
	0.5-2	PAHs Explosives Metals	
0A2D-076	0-0.5	White P	White Phosphorus Sample
	0.5-2	White P	
0A2D-077	0-0.5	White P	White Phosphorus Sample
		PAHs	Verification of cPAH exceedance at 0A2D-012.
	0.5-2	White P	
0A2D-078	0-0.5	White P	White Phosphorus Sample
	0.5-2	White P	
0A2D-079	0-0.5	White P	White Phosphorus Sample
		PAHs	Verification of cPAH exceedance at 0A2D-014.
	0.5-2	White P	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-080	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic, Human Health Criteria for Benzo(a)pyrene ,and Ecologocal Screening Criteria for Zinc at 0A2D-001. Adjacent to Building D-1-35.
	0.5-2	PAHs VOCs Metals	
	2-6	PAHs VOCs Metals	
	6-10	PAHs VOCs Metals	
0A2D-081	0-0.5	PAHs, Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic, Human Health Criteria for Benzo(a)pyrene, and Ecological Screening Criteriia for Zinc at 0A2D-001. Adjacent to Building D-1-35.
	0.5-2	PAHs, VOCs Metals	
	2-6	PAHs, VOCs Metals	
	6-10	PAHs, VOCs Metals	
0A2D-082	0-0.5	PAHs, Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic, Human Health Criteria for Benzo(a)pyrene, and Ecological Screening Criteria for Zinc at 0A2D-001. Adjacent to Buildilng D-1-35.
	0.5-2	PAHs, VOCs Metals	
	2-6	PAHs, VOCs Metals	
	6-10	PAHs, VOCs Metals	
0A2D-083	0-0.5	PAHs Dioxins Metals	Exceedances of Ecological and Human Health Screening Criteria for Benzo(a)pyrene and Arsenic at 0A2D-002. Exceedance of Ecological Screening Criteria for TEQ at 0A2D-002.
	0.5-2	PAHs Dioxins Metals	
0A2D-084	0-0.5	PAHs Dioxins Metals	Exceedances of Ecological and Human Health Screening Criteria for Benzo(a)pyrene and Arsenic at 0A2D-002. Exceedance of Ecological Screening Criteria for TEQ at 0A2D-002.
	0.5-2	PAHs Dioxins Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-085	0-0.5	PAHs Dioxins Metals	Exceedances of Ecological and Human Health Screening Criteria for Benzo(a)pyrene and Arsenic at 0A2D-002.
	0.5-2	PAHs Dioxins Metals	Exceedance of Ecological Screening Criteria for TEQ at 0A2D-002. EPA 7-01 Resample
	2-6	PAHs Metals	
	6-10	PAHs Metals	
0A2D-086	0-0.5	PAHs Dioxins Metals	Exceedances of Ecological and Human Health Screening Criteria for Benzo(a)pyrene and Arsenic at 0A2D-002.
	0.5-2	PAHs Dioxins Metals	Exceedance of Ecological Screening Criteria for TEQ at 0A2D-002. EPA 7-02 Resample
0A2D-087	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for metals at 0A2D-017/EPA 7-03 Resample
	0.5-2	PAHs Metals	
0A2D-088	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for metals at 0A2D-017/EPA 7-04 Resample
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2D-089	0-0.5	SVOCs Explosives Metals	Exceedances of Human Health Screening Criteria for Arsenic and benzo(a)pyrene and exceedances of Ecological Screening Criteria for Metals at 0A2D-003.
	0.5-2	VOCs SVOCs Explosives Metals	Adjacent to Building D-1-4
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A2D-090	0-0.5	Metals SVOCs	Exceedances of Human Health Screening Criteria for Arsenic and benzo(a)pyrene and exceedances of Ecological Screening Criteria for Metals at 0A2D-003.
	0.5-2	VOCs SVOCs Explosives Metals	Adjacent to Building D-1-4
	2-6	VOCs Metals	
	6-10	VOCs Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-091	0-0.5	SVOCs Explosives Metals	Exceedances of Human Health Screening Criteria for Arsenic and benzo(a)pyrene and exceedances of Ecological Screening Criteria for Metals at 0A2D-003.
	0.5-2	VOCs SVOCs Explosives Metals	Adjacent to Building D-1-4
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A2D-092	0-0.5	PAHs Explosives Metals	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene and Benzo(b)fluoranthene and Exceedance of Ecological Screening Criteria for Cadmium at 0A2D-004
	0.5-2	VOCs PAHs Explosives Metals	Adjacent to Building D-1-4
	2-6	VOCs PAHs	
	6-10	VOCs PAHs	
0A2D-093	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene and Benzo(b)fluoranthene and Exceedanced of Ecological Screening Criteriia for Cadmium at 0A2D-004 Adjacent to Building D-1-4
	0.5-2	VOCs PAHs Explosives Metals	
	2-6	VOCs PAHs	
	6-10	VOCs PAHs	
0A2D-094	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene and Benzo(b)fluoranthene and Exceedances of Ecological Screening Criiteria for Cadmium at 0A2D-004. Adjacent to Building D-1-4.
	0.5-2	VOCs PAHs Explosives Metals	
	2-6	VOCs PAHs	
	6-10	VOCs PAHs	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-095	0-0.5	PAHs Explosives Metals	Exceedances of Human Health Screening Criteria for metals, PAHs and RDX at 0A2D-006 and exceedances of Ecological Screening Criteria for metals at 0A2D-007.
	0.5-2	PAHs Explosives Metals	
0A2D-096	0-0.5	PAHs Explosives Metals	Exceedances of Human Health Screening Criteria for metals, PAHs and RDX at 0A2D-006 and exceedances of Ecological Screening Criteria for metals at 0A2D-007.
	0.5-2	PAHs Explosives Metals	
	2-6	PAHs Explosives	
	6-10	PAHs Explosives	
0A2D-097	0-0.5	PAHs Explosives Metals	Exceedances of Human Health Screening Criteria and for Benzo(a)pyrene and Ecological Screening Criteria for metals at 0A2D-009.
	0.5-2	VOCs PAHs Explosives Metals	Exceedance of Ecological Screening Criteria for Silver at 0A2D-W02. Adjacent to Building D-1-7.
	2-6	VOCs PAHs Explosives Metals	
	6-10	VOCs PAHs Explosives Metals	
0A2D-098	0-0.5	Metals	Exceedances of Human Health Screening Criteria for for Arsenic at 0A2D-017.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2D-099	0-0.5	Metals	Exceedances of Human Health Screening Criteria for for Arsenic at 0A2D-017.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-100	0-0.5	PAHs Explosives Metals	Exceedances of Human Health Screening Criteria for for PAHs and metals at 0A2D-022 and 0A2D-033.
	0.5-2	VOCs PAHs Explosives Metals	Adjacent to Building D-1-47.
	2-6	PAHs	
	6-10	PAHs	
0A2D-101	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for for PAHs and Ecological Screening Criteria for Metals at 0A2D-021 and 0A2D-033.
	0.5-2	PAHs Metals	
0A2D-102	0-0.5	PAHs Explosives Metals	Exceedances of Human Health Screening Criteria for for PAHs and metals at 0A2D-022 and 0A2D-033.
	0.5-2	VOCs PAHs Explosives Metals	Adjacent to Building D-1-47.
	2-6	PAHs Metals	
	6-10	PAHs Metals	
0A2D-103	0-0.5	SVOCs Explosives Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic and Exceedances of Ecological Screening Criteria for Zinc at 0A2D-027
	0.5-2	SVOCs Explosives Metals	Adjacent to Building D-1-86.
	2-6	Metals	
	6-10	Metals	
0A2D-104	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic and Exceedances of Ecological Screening Criteria for Zinc at 0A2D-027
	0.5-2	SVOCs Explosives Metals	Adjacent to Building D-1-86.
	2-6	SVOCs Explosives Metals	
	6-10	Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-105	0-0.5	SVOCs Explosives Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic and Exceedances of Ecological Screening Criteria for Zinc at 0A2D-027
	0.5-2	SVOCs Explosives Metals	Adjacent to Building D-1-86.
	2-6	Metals	
	6-10	Metals	
0A2D-106	0-0.5	Metals PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A2D-021 and Exceedances of Ecological Screening Criteria for Boron at 0A2D-021.
	0.5-2	Metals PAHs	
0A2D-107	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for for Benzo(a)pyrene at 0A2D-045.
	0.5-2	PAHs	
0A2D-108	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene at 0A2D-045.
	0.5-2	PAHs	Exceedances of Ecological Screening Criteria for Metals at 0A2D-011.
0A2D-109	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2D-011.
	0.5-2	Metals	Exceedances of Ecological Screening Criteria for Silver and Chromium at 0A2D-012.
0A2D-110	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver and Chromium at 0A2D-012.
	0.5-2	Metals	
0A2D-111	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver and Chromium at 0A2D-012.
	0.5-2	Metals	
0A2D-112	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver and Mercury at 0A2D-013.
	0.5-2	Metals	
0A2D-113	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver and Mercury at 0A2D-013.
	0.5-2	Metals	
0A2D-114	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver and Mercury at 0A2D-013 and exceedance of Human Health and Ecological Screening Criteria for Arsenic at 0A2D-014.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2D-115	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver and Mercury at 0A2D-013.
	0.5-2	Metals	
0A2D-116	0-0.5	Metals Dioxins	Exceedances of Ecological Screening Criteria for Metals and Ecological and Human Health Screening Criteria for TEQ at 0A2D-028.
	0.5-2	Metals Dioxins	
0A2D-117	0-0.5	Metals Dioxins	Exceedances of Ecological Screening Criteria for Metals and TEQ at 0A2D-028.
	0.5-2	Metals Dioxins	
0A2D-118	0-0.5	Metals Dioxins	Exceedances of Ecological Screening Criteria for Metals and TEQ at 0A2D-028.
	0.5-2	Metals Dioxins	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-119	0-0.5	Metals Dioxins	Exceedances of Ecological Screening Criteria for Metals and TEQ at 0A2D-028.
	0.5-2	Metals Dioxins	
0A2D-120	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2D-036.
	0.5-2	Metals	
0A2D-121	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2D-036.
	0.5-2	Metals	
0A2D-122	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2D-036.
	0.5-2	Metals	
0A2D-123	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2D-039.
	0.5-2	Metals	
0A2D-124	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2D-039.
	0.5-2	Metals	
0A2D-125	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2D-039.
	0.5-2	Metals	
0A2D-126	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0A2D-039.
	0.5-2	Metals	
0A2D-127	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver at 0A2D-W02.
	0.5-2	Metals	
0A2D-128	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0A2D-010 and 0A2D-W02.
	0.5-2	Metals	
0A2D-129	0-0.5	PAHs, Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic, Human Health Criteria for Benzo(a)pyrene, and Ecological Screening Criteriia for Zinc at 0A2D-001. Adjacent to Building D-1-35.
	0.5-2	PAHs, VOCs Metals	
	2-6	PAHs, VOCs Metals	
	6-10	PAHs, VOCs Metals	
0A2D-130	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for Metals at 0A2D-030.
	0.5-2	PAHs Metals	Exceedance of cPAHs at 0A2D-030.
0A2D-131	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for Metals at 0A2D-030.
	0.5-2	PAHs Metals	Exceedance of cPAHs at 0A2D-030.
0A2D-132	0-0.5	PAHs Metals	Exceedance of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for Metals at 0A2D-022.
	0.5-2	PAHs Metals	
0A2D-133	0-0.5	PAHs Metals	Exceedance of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for Metals at 0A2D-022.
	0.5-2	PAHs Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-134	0-0.5	PAHs Metals	Exceedance of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for Metals at 0A2D-021, 0A2D-022, and 0A2D-033.
	0.5-2	PAHs Metals	
0A2D-135	0-0.5	Metals PAHs	Exceedance of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A2D-009. Exceedance of Ecological Screening Criteria for metals at 0A2D-008.
	0.5-2	Metals PAHs	
	2-6	PAHs	
	6-10	PAHs	
0A2D-136	0-0.5	Metals PAHs	Exceedance of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A2D-009. Exceedance of Ecological Screening Criteria for metals at 0A2D-008.
	0.5-2	Metals PAHs	
	2-6	PAHs	
	6-10	PAHs	
0A2D-137	0-0.5	PAHs Metals	Reverification of USEPA sample 5-01.
	0.5-2	PAHs Metals	
0A2D-138	0-0.5	PAHs Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0A2D-008 and of Human Health and Ecological Screening Criteria for benzo(a)pyrene and arsenic at 0A2D-009.
	0.5-2	PAHs Metals	
	2-6	PAHs Metals	
	6-10	PAHs Metals	
0A2D-139	0-0.5	Metals	Exceedance of Human Health and Ecolological screening criteria for arsenic at 0A2D-008.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2D-140	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for arsenic at 0A2D-014.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2D-141	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0A2D-015.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2D-142	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0A2D-015.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2D-143	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0A2D-015 and 0A2D-016.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-144	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A2D-018.
	0.5-2	Dioxins	
0A2D-145	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A2D-018.
	0.5-2	Dioxins	
0A2D-146	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A2D-018.
	0.5-2	Dioxins	
0A2D-147	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A2D-018.
	0.5-2	Dioxins	
0A2D-148	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A2D-034.
	0.5-2	Metals	
0A2D-149	0.5-2	VOCs	Adjacent to Building D-1-63 where Olin reportedly stored flammable materials.
	2-6	VOCs	Boring will be advanced to water table surface.
	6-10	VOCs	
0A2D-150	0-0.5	PAHs	Exceedance of STG screening criteria for PAHs at 0A2D-033. Boring will be advanced to the water table surface
	0.5-2	PAHs	
	2-6	PAHs	
	6-10	PAHs	
0A2D-151	0-0.5	Metals	Verify at EPA sample 5-02.
	0.5-2	Metals	
0A2D-152	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-005.
0A2D-153	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-007.
0A2D-154	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-008.
0A2D-155	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-016.
0A2D-156	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-023.
0A2D-157	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-024.
0A2D-158	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-026.
0A2D-159	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-031.
0A2D-160	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-037.
0A2D-161	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-W02.
0A2D-W08	0-0.5	PAHs	Verification of cPAH exceedance at 0A2D-025.
0A2D-W17	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2D-W18	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2D-W19	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2D-W20	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2D-W21	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-127: AUS-0A2D Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2D-W22	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2D-W23	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2D-W24	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2D-W25	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2D-W26	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2D-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-128: AUS-0A2F Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2F-014	0-0.5	Metals	Adjacent to Former Buildings (critical feature).
	0.5-2	VOCs Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-015	0-0.5	SVOCs Explosives Metals	Adjacent to Former Buildings (critical feature).. Exceedance of Ecological Screening Criteria for metals at 0A2F-011.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-016	0-0.5	SVOCs Explosives Metals	Adjacent to Former Buildings (critical feature).
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-017	0-0.5	Explosives Metals	Adjacent to Former Buildings (critical feature).
	0.5-2	Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-018	0-0.5	SVOCs Explosives Metals	Adjacent to Former Buildings (critical feature).
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-019	0-0.5	SVOCs Explosives Metals	Adjacent to Former Buildings (critical feature).
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-020	0-0.5	SVOCs Explosives Metals	Adjacent to Former Buildings (critical feature)
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	

Table 5-128: AUS-0A2F Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2F-021	0-0.5	Explosives Metals	Adjacent to Former Buildings (critical feature)
	0.5-2	Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-022	0-0.5	SVOCs Explosives Metals	Adjacent to Former Buildings (critical feature)
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-023	0-0.5	SVOCs Explosives Metals	Adjacent to Former Buildings (critical feature)
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
	10-15	VOCs	
0A2F-024	0-0.5	SVOCs Explosives Metals	Adjacent to Building F-2-11
	0.5-2	VOCs SVOCs Explosives Metals	
0A2F-025	0-0.5	Metals	Adjacent to Building F-6-45
	0.5-2	VOCs Metals	
	2-6	VOCs Metals	
0A2F-026	0-0.5	Metals	Adjacent to Building F-6-45
	0.5-2	VOCs Metals	
	2-6	VOCs Metals	
0A2F-027	0-0.5	PAHs Explosives Metals	Adjacent to Building F-2-1
	0.5-2	PAHs Explosives Metals	
0A2F-028	0-0.5	PAHs Explosives Metals	Adjacent to Building F-2-1
	0.5-2	PAHs Explosives Metals	

Table 5-128: AUS-0A2F Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2F-029	0-0.5	PAHs Explosives Metals	Adjacent to Building F-2-5. Adjacent to Building F-2-36. Exceedance of Ecological Screening Criteria for metals at 0A2F-W03.
	0.5-2	VOCs PAHs Explosives Metals	
0A2F-030	0-0.5	Explosives Metals	Adjacent to Building F-2-9.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
0A2F-031	0-0.5	Explosives Metals	Adjacent to Building F-2-9.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
0A2F-032	0-0.5	Explosives Metals	Adjacent to Building F-2-10. Exceedance of Ecological Screening Criteria for metals at 0A2F-W03.
	0.5-2	VOCs Explosives Metals	
0A2F-033	0-0.5	Explosives Metals	Adjacent to Building F-2-14
	0.5-2	Explosives Metals	
0A2F-034	0-0.5	Explosives Metals	Adjacent to Building F-2-11
	0.5-2	VOCs Explosives Metals	
0A2F-035	0-0.5	SVOCs Explosives Metals	Adjacent to Building F-6-45
	0.5-2	VOCs Metals	
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A2F-036	0-0.5	SVOCs Explosives Metals	Adjacent to Building F-2-11
	0.5-2	VOCs SVOCs Explosives Metals	

Table 5-128: AUS-0A2F Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2F-037	0-0.5	Explosives Metals	Adjacent to Building F-2-12
	0.5-2	Explosives Metals	
0A2F-038	0-0.5	Explosives Metals	Adjacent to Building F-2-12
	0.5-2	Explosives Metals	
0A2F-039	0-0.5	SVOCs Explosives Metals	Adjacent to Building F-2-1.
	0.5-2	SVOCs Explosives Metals	
0A2F-040	0-0.5	SVOCs Explosives Metals	Adjacent to Building F-2-1. Exceedance of Ecological Screening Criteria for metals at 0A2F-006.
	0.5-2	SVOCs Explosives Metals	
0A2F-041	0-0.5	Metals PCBs	Adjacent to Building F-2-4. Exceedance of Ecological Screening Criteria for chromium at 0A2F-W01.
	0.5-2	Metals VOCs PCBs	Collect soil samples to water table and analyze for VOCs due to low concentrations of VOCs detected in 0A2F-W01, as requested by FFA parties.
	2-6	VOCs	
	6-10	VOCs	
0A2F-042	0-0.5	Metals	EPA 3-1,3-2 Reverification sampling. Exceedance of Human Health and Ecological Screening Criteria for metals at 0A2F-005.
	0.5-2	Metals	
0A2F-043	0-0.5	PAHs Metals PCBs	EPA 8-3 Reverification sampling. Adjacent to Building F-2-2. Exceedance of Ecological Screening Criteria for cadmium at 0A2F-003.
	0.5-2	VOCs PAHs Metals PCBs	
0A2F-044	0-0.5	PAHs Metals PCBs	EPA 8-5 Resample. Adjacent to Building F-2-2.
	0.5-2	VOCs PAHs Metals PCBs	
0A2F-045	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Boron, Cadmium, and Copper at 0A2F-004
	0.5-2	Metals	
0A2F-046	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Boron, Cadmium, and Copper at 0A2F-004. Place in distressed vegetation, if possible.
	0.5-2	Metals	
0A2F-047	0-0.5	SVOCs Explosive Metals	Exceedances of Ecological Screening Criteria for Boron, Cadmium, and Copper at 0A2F-004. Adjacent to Building F-2-1.
	0.5-2	Metals	
0A2F-048	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0A2F-009 and 0A2F-010.
	0.5-2	Metals	

Table 5-128: AUS-0A2F Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2F-049	0-0.5	PAHs Metals PCBs	Exceedances of Ecological Screening Criteria for Cadmium at 0A2F-009 Adjacent to Building F-2-2
	0.5-2	VOCs PAHs Metals PCBs	
0A2F-050	0-0.5	PAHs Metals PCBs	Exceedances of Ecological Screening Criteria for metals at 0A2F-009 and 0A2F-010. Adjacent to Building F-2-2
	0.5-2	VOCs PAHs Metals PCBs	
0A2F-051	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Cadmium at 0A2F-003.
	0.5-2	Metals	
0A2F-052	0-0.5	Explosives Metals	Adjacent to Building F-2-10
	0.5-2	VOCs Explosives Metals	
0A2F-053	0-0.5	Metals PCBs	Adjacent to Building F-2-3. Exceedance of Ecological Screening Criteria for metals at 0A2F-001.
	0.5-2	Metals PCBs	
0A2F-054	0-0.5	VOCs Explosives Metals	Adjacent to Building F-2-5
	0.5-2	VOCs Explosives Metals	
0A2F-055	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A2F-001.
	0.5-2	Metals	
0A2F-056	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A2F-010.
	0.5-2	Metals	
0A2F-057	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A2F-011.
	0.5-2	Metals	
0A2F-058	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A2F-012.
	0.5-2	Metals	

Table 5-128: AUS-0A2F Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2F-059	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A2F-012.
	0.5-2	Metals	
0A2F-060	0-0.5	Metals	Exceedance of Ecological Screening Criteria for chromium at 0A2F-W01.
	0.5-2	Metals	
		VOCs	Collect soil samples to water table and analyze for VOCs due to low concentrations of VOCs detected in 0A2F-W01, as requested by FFA parties.
	2-6	VOCs	
	6-10	VOCs	
0A2F-061	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A2F-W03.
	0.5-2	Metals	
0A2F-062	0-0.5	Metals	Verify EPA sample 8-04.
	0.5-2	Metals	
0A2F-063	0-0.5	Metals	Verify EPA sample 8-06.
	0.5-2	Metals	
0A2F-064	0-0.5	PAHs	Verification of cPAH exceedance at 0A2F-002.
0A2F-W06	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2F-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2F-W07	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2F-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2F-W08	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2F-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2F-W09	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2F-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2F-W10	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2F-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2F-W11	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2F-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2F-W12	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2F-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2F-W13	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater sample from AUS-0A2F-W02.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-129: AUS-0A2P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2P-024	0-0.5	SVOCs Explosives Metals	Adjacent to P-1-78.
	0.5-2	Explosives Metals	
0A2P-025	0-0.5	SVOCs Explosives Metals	Adjacent to P-1-63.
	0.5-2	VOCs SVOCs Explosives Metals	
0A2P-026	0-0.5	Explosives Metals	Adjacent to P-1-66.
	0.5-2	Explosives Metals	
0A2P-027	0-0.5	Metals	Adjacent to P-1-54 (Former P-1-48).
	0.5-2	Metals	
0A2P-028	0-0.5	Metals	Adjacent to P-1-43.
	0.5-2	VOCs Metals	
0A2P-029	0-0.5	SVOCs Explosives Metals	Adjacent to P-1-76.
	0.5-2	SVOCs Explosives Metals	
0A2P-030	0-0.5	Explosives Metals	In Drainage near P-1-4.
	0.5-2	Explosives Metals	
0A2P-031	0-0.5	Explosives Metals	Adjacent to P-1-62. Exceedance of Ecological Screening Criteria for metals at 0A2P-007.
	0.5-2	Explosives Metals	
0A2P-032	0-0.5	SVOCs Explosives Metals	Adjacent to P-1-1.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs Explosives Metals	

Table 5-129: AUS-0A2P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2P-033	0-0.5	SVOCs Explosives Metals	Adjacent to P-1-11.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
0A2P-034	0-0.5	Explosives Metals	Adjacent to P-1-70. Exceedance of Human Health and Ecological Screening Criteria for metals at 0A2P-010.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
0A2P-035	0-0.5	SVOCs Explosives Metals	Adjacent to Building P-1-11.
	0.5-2	SVOCs Explosives Metals	
0A2P-036	0-0.5	SVOCs Explosives Metals	Adjacent to P-1-82.
	0.5-2	Explosives Metals	
0A2P-037	0-0.5	Metals	Near Adjacent to P-1-71. Exceedance of Ecological Screening Criteria for metals at 0A2P-W05.
	0.5-2	VOCs Metals	
	2-6	VOCs Metals	
0A2P-038	0-0.5	SVOCs Explosives Metals	In Drainage near P-1-63.
	0.5-2	VOCs Explosives Metals	
0A2P-039	0-0.5	SVOCs Explosives Metals	Adjacent to P-1-84. Exceedance of Ecological Screening Criteria for Zinc at 0A2P-002.
	0.5-2	Explosives Metals	

Table 5-129: AUS-0A2P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2P-040	0-0.5	SVOCs Explosives Metals	Adjacent to P-1-80. Upgradient of monitoring well 0A2P-W01 which was reported to have low concentrations of VOCs in the groundwater sample.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
	6-10	VOCs Explosives Metals	
0A2P-041	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs at 0A2P-021. Exceedances of Human Health Screening Criteria for Arsenic at 0A2P-022.
	0.5-2	PAHs Metals	
	2-6	PAHs Metals	
	6-10	PAHs Metals	
0A2P-042	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A2P-021. Potential VOCs at depth.
	0.5-2	PAHs VOCs	
	2-6	PAHs VOCs	
	6-10	PAHs VOCs	
0A2P-043	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A2P-021. Potential VOCs at depth.
	0.5-2	PAHs VOCs	
	2-6	PAHs VOCs	
	6-10	PAHs VOCs	
0A2P-044	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A2P-021. Potential VOCs at depth.
	0.5-2	PAHs VOCs	
	2-6	PAHs VOCs	
	6-10	PAHs VOCs	
0A2P-045	0-0.5	Metals	Exceedances of Human Health Screening Criteria for Arsenic at 0A2P-022.
	0.5-2	Metals	
0A2P-046	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic at 0A2P-022. Verify EPA Sample 10-01.
	0.5-2	Metals	
0A2P-047	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic at 0A2P-022.
	0.5-2	Metals	

Table 5-129: AUS-0A2P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2P-048	0-0.5	Metals	Adjacent to and downgradient of IOP Building P-1-5/Building P-1-81. Upgradient of monitoring well 0A2P-W01 which was reported to have low concentrations of VOCs in the groundwater sample.
	0.5-2	Metals VOCs	Exceedances of Ecological and Human Health Screening Criteria for Arsenic at 0A2P-004. Exceedance of Ecological Screening Criteria for Zinc at 0A2P-002.
	2-6	VOCs	If groundwater not encountered in 10 feet bgs, continue sampling in 4 foot intervals for VOCs to water table.
	6-10	VOCs	
0A2P-049	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic at 0A2P-004.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2P-050	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic at 0A2P-004.
	0.5-2	Metals	
0A2P-051	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic and Exceedances of Ecological Screening Criteria for Silver at 0A2P-012.
	0.5-2	Metals	
0A2P-052	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic and Exceedances of Ecological Screening Criteria for Silver at 0A2P-012.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2P-053	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Arsenic and Exceedances of Ecological Screening Criteria for Silver at 0A2P-012.
	0.5-2	Metals	
0A2P-054	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene and Exceedances of Ecological Screening Criteria for Copper at 0A2P-017. Exceedances of Ecological Screening Criteria for metals at 0A2P-W06.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
0A2P-055	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene and Exceedances of Ecological Screening Criteria for metals at 0A2P-017. Exceedance of ecological screening criteria for metals at 0A2P-018.
	0.5-2	PAHs Metals	
0A2P-056	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for Benzo(a)pyrene and Exceedances of Ecological Screening Criteria for metals at 0A2P-017 and 0A2P-W06.
	0.5-2	PAHs Metals	
0A2P-057	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver at 0A2P-018.
	0.5-2	Metals	
0A2P-058	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Silver at 0A2P-018. Exceedances of Ecological Screening Criteria for Silver and Human Health Screening Criteria for Benzo(a)pyrene at 0A2P-019.
	0.5-2	PAHs Metals	

Table 5-129: AUS-0A2P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2P-059	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Silver and Human Health Screening Criteria for Benzo(a)pyrene at 0A2P-019.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
0A2P-060	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Silver and Human Health Screening Criteria for Benzo(a)pyrene at 0A2P-019.
	0.5-2	PAHs Metals	
0A2P-061	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Silver at 0A2P-018.
	0.5-2	Metals	
0A2P-062	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Cadmium at 0A2P-023.
	0.5-2	Metals	
0A2P-063	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Cadmium at 0A2P-023.
	0.5-2	Metals	
0A2P-064	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Cadmium at 0A2P-023.
	0.5-2	Metals	
0A2P-065	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Cadmium at 0A2P-023.
	0.5-2	Metals	
0A2P-066	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2P-010.
	0.5-2	Metals	
0A2P-067	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2P-010.
	0.5-2	Metals	
0A2P-068	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2P-010.
	0.5-2	Metals	
0A2P-069	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at 0A2P-014.
	0.5-2	Metals	
0A2P-070	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at 0A2P-014.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A2P-071	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at 0A2P-014.
	0.5-2	Metals	Exceedance of Ecological Screening Criteria for metals at 0A2P-W05.
0A2P-072	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-W06.
	0.5-2	Metals	
0A2P-073	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-006.
	0.5-2	VOCs Metals	Adjacent to Building P-1-13.
	2-6	VOCs Metals	
0A2P-074	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-W02 and 0A2P-006.
	0.5-2	VOCs Explosives Metals	Adjacent to Building P-1-3

Table 5-129: AUS-0A2P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2P-075	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-W02.
	0.5-2	Metals	
0A2P-076	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-006.
	0.5-2	Metals	
0A2P-077	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for metals at 0A2P-007.
	0.5-2	VOCs Metals	Adjacent to Building P-1-3.
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A2P-078	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-007.
	0.5-2	Metals	
0A2P-079	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-011.
	0.5-2	Metals	
0A2P-080	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-011 and Human Health Screening Criteria for PAHs at 0A2P-015.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
0A2P-081	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at 0A2P-008 and 0A2P-011, Human Health Screening Criteria for PAHs at 0A2P-015, and Arsenic and VOCs at 0A2P-W03.
	0.5-2	VOCs Explosives Metals	Adjacent to Building P-1-3.
	2-6	VOCs	If groundwater not encountered in 10 feet bgs, continue sampling in 4 foot intervals for VOCs to water table.
	6-10	VOCs	
0A2P-082	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs at 0A2P-015 and Exceedances of Ecological and Human Health Screening Criteria for Metals 0A2P-008.
	0.5-2	PAHs Metals	
	2-6	PAHs Metals	
	6-10	PAHs Metals	
0A2P-083	0-0.5	Explosives SVOCs Metals	Adjacent to Building P-1-11. If groundwater not encountered in 10 feet bgs, continue sampling in 4 foot intervals for VOCs to the water table.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-129: AUS-0A2P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2P-084	0-0.5	Metals	To east of monitoring well 0A2P-W03 with significant TCE detections in groundwater.
	0.5-2	VOCs Metals	Exceedances of Human Health and Ecological Screening Criteria for Arsenic at 0A2P-W03.
	2-6	VOCs	If groundwater not encountered in 10 feet bgs, continue sampling in 4 foot intervals for VOCs.
	6-10	VOCs	
0A2P-085	0-0.5	Metals	To south of monitoring well 0A2P-W03 with significant TCE detections in groundwater.
	0.5-2	VOCs Metals	Exceedances of Human Health and Ecological Screening Criteria for Arsenic at 0A2P-W03.
	2-6	VOCs	If groundwater not encountered in 10 feet bgs, continue sampling in 4 foot intervals for VOCs.
	6-10	VOCs	
0A2P-086	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria Metals at 0A2P-012.
	0.5-2	VOCs Metals	Adjacent to Building P-1-9 that was possibly used for solvent strorage.
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A2P-087	0-0.5	PAHs Metals	Exceedance of Human Health Screening Criteira for PAHs at 0A2P-017 and Ecological Screening Criteria for Silver at 0A2P-017 and 0A2P-018.
	0.5-2	PAHs Metals	
0A2P-088	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2P-008.
	0.5-2	Metals	Adjacent to Builidng P-1-1.
0A2P-089	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A2P-001.
	0.5-2	Metals	Proposed in downgradient Ditch.
0A2P-090	0-0.5	PAHs	Verification of cPAH exceedance at 0A2P-011.
0A2P-091	0-0.5	PAHs	Verification of cPAH exceedance at 0A2P-W04.
0A2P-W08	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2P-W09	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2P-W10	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2P-W11	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2P-W12	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-129: AUS-0A2P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2P-W13	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2P-W14	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2P-W15	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2P-W16	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A2P-W17	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A2P-W02 and 0A2P-W03.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-130: AUS-0A2R Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2R-006	0-0.5	PAHs Metals	Potential former disposal area.
	0.5-2	PAHs Metals	
	2-6	PAHs Metals	
	6-10	PAHs Metals	
0A2R-007	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-004.
	0.5-2	PAHs Metals	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2R-008	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-002.
	0.5-2	PAHs Metals	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2R-009	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-002.
	0.5-2	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at 0A2R-003.
	2-6	VOCs	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	6-10	VOCs	
0A2R-010	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-005.
	0.5-2	PAHs Metals	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2R-011	0-0.5	PAHs Metals	Unbounded exceedances of Metals and PAHs. Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	0.5-2	PAHs Metals	
	2-6	VOCs	
	6-10	VOCs	
0A2R-012	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for metals at 0A2R-003.
	0.5-2	PAHs Metals	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	

Table 5-130: AUS-0A2R Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2R-013	0-0.5	PAHs Metals	Unbounded exceedances of Metals and PAHs. Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	0.5-2	PAHs Metals	
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A2R-014	0-0.5	PAHs Metals	Unbounded exceedances of Metals and PAHs. Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	0.5-2	PAHs Metals	
	2-6	VOCs	
	6-10	VOCs	
0A2R-015	0-0.5	PAHs Metals	Unbounded exceedances of Metals and PAHs. Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	0.5-2	PAHs Metals	
	2-6	VOCs	
	6-10	VOCs	
0A2R-016	0-0.5	PAHs Metals	Olin Storage Area.
	0.5-2	PAHs Metals	
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A2R-017	0-0.5	PAHs Metals	Unbounded exceedances of Metals and PAHs. Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	0.5-2	PAHs Metals	
	2-6	VOCs	
	6-10	VOCs	
0A2R-018	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-005. Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	0.5-2	PAHs Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-130: AUS-0A2R Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A2R-019	0-0.5	PAHs Metals	Reverification of EPA Sample 83-02. Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-004.
	0.5-2	PAHs Metals	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A2R-020	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-005.
	0.5-2	PAHs Metals	
	2-6	VOCs	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	6-10	VOCs	
0A2R-021	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-005.
	0.5-2	PAHs Metals	Exceedances of Ecological Screening Criteria for metals at 0A2R-003.
	2-6	VOCs	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	6-10	VOCs	
0A2R-022	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-002 and 0A2R-004..
	0.5-2	PAHs Metals	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2R-023	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-002.
	0.5-2	PAHs Metals	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2R-024	0-0.5	PAHs Metals	Exceedance of Human Health screening criteria for PAHs and Ecological Screening Criteria for metals at 0A2R-004.
	0.5-2	PAHs Metals	Agencies requested that soil samples collected below 2 feet be analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
0A2R-025	0-0.5	Metals	Exceedance of Ecological Screening Critieria for metals at 0A2R-003.
	0.5-2	Metals	
0A2R-026	0-0.5	Metals	Exceedance of Ecological Screening Critieria for metals at 0A2R-003.
	0.5-2	Metals	

Table 5-131: AUS-0A4E Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A4E-021	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-018.
	0.5-2	Metals	
0A4E-022	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-018.
	0.5-2	Metals	
0A4E-023	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-002.
	0.5-2	Metals	
0A4E-024	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-018.
	0.5-2	Metals	
0A4E-025	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-002.
	0.5-2	Metals	
0A4E-026	0-0.5	PAHs	Exceedances of Ecological Screening Criteria for Metals at 0A4E-002 and 0A4E-006. Exceedance of Human Health and Ecological Screening Criteria for metals and Ecological Screening Criteria for PAHs at sediment sample 0A4E-007.
		Metals	
	0.5-2	PAHs	
		Metals	
0A4E-027	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-006.
	0.5-2	Metals	
0A4E-028	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-003.
	0.5-2	Metals	
0A4E-029	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-011.
	0.5-2	Metals	
0A4E-030	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-011.
	0.5-2	Metals	
0A4E-031	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-011.
	0.5-2	Metals	
0A4E-032	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-020 and 0A4E-015.
	0.5-2	Metals	
0A4E-033	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-016 and 0A4E-020.
	0.5-2	Metals	
0A4E-034	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-015.
	0.5-2	Metals	
0A4E-035	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-015.
	0.5-2	Metals	
0A4E-036	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-020.
	0.5-2	Metals	
0A4E-037	0-0.5	PAHs	Exceedances of Ecological Screening Criteria for Metals at 0A4E-006 and 0A4E-003.
		Metals	
	0.5-2	PAHs	Exceedance of Human Health Screening Criteria for PAHs at 0A4E-005.
		Metals	
	2-6	PAHs	
	6-10	PAHs	
0A4E-038	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A4E-005. Exceedances of Human Health and Ecological Screening Criteria for Metals at sediment sample 0A4E-009.
		Metals	
	0.5-2	PAHs	
		Metals	
	2-6	PAHs	
	6-10	PAHs	
0A4E-043	0-0.5	SVOCs	Adjacent to Building S-4-5.
	0.5-2	VOCs	
		SVOCs	
	2-6	SVOCs	
		VOCs	
	6-10	VOCs	

Table 5-131: AUS-0A4E Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A4E-044	0-0.5	SVOCs	Adjacent to Building S-4-4.
	0.5-2	VOCs	Confirm cPAH exceedance at 0A4E-020.
		SVOCs	
	2-6	SVOCs	
		VOCs	
	6-10	VOCs	
0A4E-045	0-0.5	Metals	Adjacent to Building S-4-4.
		SVOCs	Exceedance of Ecological Screening Criteria for Chromium at 0A4E-016.
	0.5-2	VOCs	
		SVOCs	
		Metals	
	2-6	SVOCs	
		VOCs	
	6-10	VOCs	
0A4E-046	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-018.
	0.5-2	Metals	
0A4E-047	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4E-003.
	0.5-2	Metals	
0A4E-048	0-0.5	PAHs	Exceedances of Ecological Screening Criteria for PAHs at sediment sample 0A4E-008.
	0.5-2	PAHs	
0A4E-049	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for arsenic and Ecological Screening Criteria for several metals at 0A4E-019.
	0.5-2	Metals	
0A4E-050	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for arsenic and Ecological Screening Criteria for several metals at 0A4E-019.
	0.5-2	Metals	
0A4E-051	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for arsenic and Ecological Screening Criteria for several metals at 0A4E-019.
	0.5-2	Metals	
0A4E-052	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for arsenic and Ecological Screening Criteria for several metals at 0A4E-019.
	0.5-2	Metals	
0A4E-053	0-0.5	PAHs	Exceedances of Ecological Screening Criteria for PAHs and metals at sediment sample 0A4E-010.
		Metals	
	0.5-2	PAHs	
		Metals	
0A4E-054	0-0.5	PAHs	Exceedances of Ecological Screening Criteria for PAHs and metals at sediment sample 0A4E-010.
		Metals	
	0.5-2	PAHs	
		Metals	
0A4E-055	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals and PAHs at sediment sample 0A4E-012.
	0-0.5	PAHs	
	0.5-2	Metals	
	0.5-2	PAHs	
0A4E-056	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals and PAHs at sediment samples 0A4E-012 and Human Health and Ecological Screening Criteria for metals at 0A4E-013.
	0-0.5	PAHs	
	0.5-2	Metals	
	0.5-2	PAHs	
0A4E-057	0-0.5	Metals	Verify EPA sample 17-01.
	0.5-2	Metals	
0A4E-058	0-0.5	PAHs	Verification of cPAH exceedance at 0A4E-004.
0A4E-059	0-0.5	PAHs	Verification of cPAH exceedance at 0A4E-005.
0A4E-060	0-0.5	PAHs	Verification of cPAH exceedance at 0A4E-006.
0A4E-061	0-0.5	PAHs	Verification of cPAH exceedance at 0A4E-012.
0A4E-062	0-0.5	PAHs	Verification of cPAH exceedance at 0A4E-019.
0A4E-W05	0.5-2	VOCs	Adjacent to Building S-4-5.
	2-6	VOCs	
	6-10	VOCs	

Table 5-132: AUS-0A4W Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A4W-014	0-0.5	SVOCs Metals	Adjacent to S-1-1.
	0.5-2	VOCs SVOCs Metals	
0A4W-015	0-0.5	SVOCs Metals	Adjacent to S-1-1.
	0.5-2	VOCs SVOCs Metals	
0A4W-016	0-0.5	PAHs Metals	Adjacent to S-1-2.
	0.5-2	VOCs PAHs Metals	
0A4W-017	0-0.5	PAHs Metals PCBs	Adjacent to S-3-3.
	0.5-2	VOCs PAHs Metals PCBs	
0A4W-018	0-0.5	VOCs PAHs Metals	Adjacent to S-2-2.
	0.5-2	VOCs PAHs Metals	
0A4W-019	0-0.5	PAHs Metals	Adjacent to S-2-1.
	0.5-2	VOCs PAHs Metals	
0A4W-023	0-0.5	PAHs Metals	Adjacent to S-3-1.
	0.5-2	PAHs Metals	
0A4W-024	0-0.5	PAHs Metals	Adjacent to S-3-2.
	0.5-2	PAHs Metals	
0A4W-025	0-0.5	SVOCs	Adjacent to S-1-1.
	0.5-2	VOCs SVOCs	
	2-6 6-10	VOCs VOCs	

Table 5-132: AUS-0A4W Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A4W-026	0-0.5	PAHs	Adjacent to S-1-2.
		Metals	Sampling will be conducted at 4 foot intervals to 10 feet or groundwater depth, whichever is greater.
	0.5-2	VOCs	
		PAHs	
		Metals	
	2-6	VOCs	
	6-10	VOCs	
0A4W-027	0-0.5	PAHs	Adjacent to S-1-2.
		Metals	Sampling will be conducted at 4 foot intervals to 10 feet or groundwater depth, whichever is greater.
	0.5-2	VOCs	
		PAHs	
		Metals	
	2-6	VOCs	
	6-10	VOCs	
0A4W-028	0-0.5	PAHs	Adjacent to S-2-3.
		Metals	
	0.5-2	PAHs	
		Metals	
0A4W-029	0-0.5	PAHs	Adjacent to S-2-3.
		Metals	
	0.5-2	PAHs	
		Metals	
0A4W-030	0-0.5	PAHs	Adjacent to S-2-3.
		Metals	
	0.5-2	PAHs	
		Metals	
0A4W-031	0-0.5	PAHs	Adjacent to S-1-3.
		Metals	
	0.5-2	VOCs	
		PAHs	
		Metals	
0A4W-032	0-0.5	SVOCs	Adjacent to S-1-3.
		Metals	Exceedances of Ecological Screening Criteria for Metals and Human Health Criteria for SVOCs at 0A4W-012.
	0.5-2	VOCs	
		SVOCs	
		Metals	
0A4W-033	0-0.5	Metals	EPA 13-01C, 13-03C Resample.
	0.5-2	Metals	
0A4W-034	0-0.5	Metals	EPA 13-02C Resample.
	0.5-2	Metals	
0A4W-035	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals and Human Health Criteria for SVOCs at 0A4W-012.
		SVOCs	
	0.5-2	Metals	
		SVOCs	
0A4W-036	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals and Human Health Criteria for SVOCs at 0A4W-012.
		SVOCs	
	0.5-2	Metals	
		SVOCs	

Table 5-132: AUS-0A4W Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A4W-037	0-0.5	Explosives SVOCs Metals	Exceedances of Ecological Screening Criteria for Metals and Human Health Criteria for SVOCs at 0A4W-012.
	0.5-2	Explosives SVOCs Metals	Agency request for analysis for explosives adjacent to Former Sample Rest House 6-1-4.
0A4W-038	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4W-009.
	0.5-2	Metals	
0A4W-039	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4W-009 and 0A4W-010.
	0.5-2	Metals	
0A4W-040	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4W-009 and 0A4W-010
	0.5-2	Metals	
0A4W-041	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A4W-003,0A4W-004, and 0A4W-010.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A4W-042	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A4W-003 and 0A4W-006.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A4W-043	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A4W-006.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A4W-044	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4W-011.
	0.5-2	Metals	
0A4W-045	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4W-011.
	0.5-2	Metals	
0A4W-046	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4W-007.
	0.5-2	Metals	
0A4W-047	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4W-007.
	0.5-2	Metals	
0A4W-048	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A4W-007.
	0.5-2	Metals	
0A4W-054	0.5-2	VOCs	Adjacent to fuel oil and gasoline unloading rack between buildings S-3-2 and S-3-3, on west side of spur across from unloading rack.
	2-6	VOCs	
	6-10	VOCs	
0A4W-055	0-0.5	Metals	Adjacent to Building S-2-5 which was used by Supreme Painting (1963-1970).
	0.5-2	VOCs Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0A4W-005, 0A4W-006, and 0A4W-011.
	2-6	VOCs Metals	
	6-10	VOCs Metals	

Table 5-132: AUS-0A4W Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A4W-056	0-0.5	Metals	Adjacent to Building S-2-5 which was used by Supreme Painting (1963-1970). Exceedance of Human Health and Ecological Screening Criteria for metals at 0A4W-003, 0A4W-004, and 0A4W-005.
	0.5-2	VOCs Metals	
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A4W-057	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A4W-001. 0A4W-001 was collected in a ditch; therefore, the proposed sample will be located in the field.
	0.5-2	Metals	
0A4W-058	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A4W-001. 0A4W-001 was collected in a ditch; therefore, the proposed sample will be located in the field.
	0.5-2	Metals	
0A4W-059	0-0.5	PAHs	Verification of cPAH exceedance at 0A4W-012.
0A4W-W01	0-0.5	Metals	Adjacent to Building S-2-5 which was used by Supreme Painting (1963-1970). Exceedance of Human Health and Ecological Screening Criteria for metals at 0A4W-003, 0A4W-004, 0A4W-005, 0A4W-006, and 0A4W-010.
	0.5-2	VOCs Metals	
	2-6	VOCs Metals	
	6-10	VOCs Metals	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-027	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-004.
	0.5-2	PAHs	
0A06-028	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-004.
	0.5-2	PAHs	
0A06-029	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-004.
	0.5-2	PAHs	
0A06-030	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-018.
	0.5-2	PAHs	
0A06-031	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-018.
	0.5-2	PAHs	
0A06-032	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-018.
	0.5-2	PAHs	
0A06-033	0-0.5	PAHs	Exceedances of Ecological and Human Health Screening Criteria for PAHs at 0A06-017.
	0.5-2	PAHs	
0A06-034	0-0.5	PAHs	Exceedances of Ecological and Human Health Screening Criteria for PAHs at 0A06-017.
	0.5-2	PAHs	
0A06-035	0-0.5	PAHs	Exceedances of Ecological and Human Health Screening Criteria for PAHs at 0A06-017.
	0.5-2	PAHs	
0A06-036	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-023.
	0.5-2	PAHs	
0A06-037	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-023.
	0.5-2	PAHs	
0A06-038	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A06-023.
	0.5-2	PAHs	
0A06-039	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Cadmium at 0A06-024.
	0.5-2	PAHs Metals	
0A06-040	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Cadmium at 0A06-024.
	0.5-2	PAHs Metals	
0A06-041	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Cadmium at 0A06-024.
	0.5-2	PAHs Metals	
0A06-042	0-0.5	Metals PAHs	Exceedances of Ecological and Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A06-025.
	0.5-2	PAHs Metals	
0A06-043	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A06-025.
	0.5-2	PAHs Metals	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-044	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A06-025.
	0.5-2	PAHs Metals	
0A06-045	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Cadmium at 0A06-026.
	0.5-2	PAHs Metals	
0A06-046	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Cadmium at 0A06-026.
	0.5-2	PAHs Metals	
0A06-047	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Cadmium at 0A06-026.
	0.5-2	PAHs Metals	
0A06-048	0-0.5	PAHs	Exceedances of Ecological and Human Health Screening Criteria for PAHs at 0A06-016.
	0.5-2	PAHs	
0A06-049	0-0.5	PAHs	Exceedances of Ecological and Human Health Screening Criteria for PAHs at 0A06-016.
	0.5-2	PAHs	
0A06-050	0-0.5	PAHs	Exceedances of Ecological and Human Health Screening Criteria for PAHs at 0A06-016.
	0.5-2	PAHs	
0A06-051	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A06-011.
	0.5-2	PAHs Metals	
0A06-052	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A06-011.
	0.5-2	PAHs Metals	
0A06-053	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria Metals at 0A06-011.
	0.5-2	PAHs Metals	
0A06-054	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A06-009.
	0.5-2	Metals	
0A06-055	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A06-009.
		SVOCs	Agencies request for SVOCs analysis at this location.
	0.5-2	Metals	
		SVOCs	
0A06-056	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A06-009.
		SVOCs	Agencies request for SVOCs analysis at this location.
	0.5-2	Metals	
		SVOCs	
0A06-057	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A06-021.
	0.5-2	Metals	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-058	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A06-021.
	0.5-2	Metals	
0A06-059	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A06-021.
	0.5-2	Metals	
0A06-078	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHS at 0A06-013.
	0.5-2	PAHs	
0A06-079	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHS at 0A06-013.
	0.5-2	PAHs	
0A06-080	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHS at 0A06-013.
	0.5-2	PAHs	
0A06-081	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screeing Criteria for Copper at 0A06-020.
	0.5-2	PAHs Metals	
0A06-082	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screeing Criteria for Copper at 0A06-020.
	0.5-2	PAHs Metals	
0A06-083	0-0.5	PAHs Metals	Exceedances of Human Healthl Screening Criteria for PAHs and Ecological Screeing Criteria for Copper at 0A06-020.
	0.5-2	PAHs Metals	
0A06-084	0-0.5	Metals	Exceedances of Ecological Screening Criteria for chromium at 0A06-007.
	0.5-2	Metals	
0A06-085	0-0.5	Metals	Exceedances of Ecological Screening Criteria for chromium at 0A06-007.
	0.5-2	Metals	
0A06-086	0-0.5	Metals	Exceedances of Ecological Screening Criteria for chromium at 0A06-008.
	0.5-2	Metals	
0A06-087	0-0.5	Metals	Exceedances of Ecological Screening Criteria for chromium at 0A06-008.
	0.5-2	Metals	
0A06-088	0-0.5	Metals	Exceedances of Ecological Screening Criteria for chromium at 0A06-008.
	0.5-2	Metals	
0A06-089	0-0.5	SVOCs	Confirm Exceedance of Ecological Screening Criteria for bis(2-ethylhexyl)phthalate at 0A06-026.
	0.5-2	SVOCs	
0A06-090	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-091	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-092	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-093	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-094	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-095	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-096	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-097	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-098	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-099	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-100	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-101	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-102	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-103	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-104	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-105	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-106	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-107	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-108	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-109	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-110	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-111	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-112	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-113	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-114	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-115	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-116	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-117	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-118	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-119	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-120	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-121	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-122	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-123	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-124	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-125	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-126	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-127	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-128	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-129	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-130	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-131	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-132	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-133	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-134	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-135	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-136	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-137	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-138	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-139	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-140	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-141	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-142	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-143	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-144	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-133: AUS-0A06 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A06-145	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A06-146	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-002.
0A06-147	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-003.
0A06-148	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-006.
0A06-149	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-007.
0A06-150	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-009.
0A06-151	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-010.
0A06-152	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-012.
0A06-153	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-021.
0A06-154	0-0.5	PAHs	Verification of cPAH exceedance at 0A06-022.
0A06-W02	0-0.5	SVOCs	Reverification of SVOCs detected in 0A06-005.
	0.5-2	SVOCs	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-171	0-0.5	SVOCs Metals	Adjacent to IN-5-2/IN-5-3.
	0.5-2	VOCs SVOCs Metals	
	2-6	VOCs SVOCs Metals	
	6-10	VOCs	
0A07-172	0-0.5	SVOCs Metals PCBs	Adjacent to IN-3-4.
	0.5-2	VOCs SVOCs Metals PCBs	
	2-6	VOCs	
	6-10	VOCs	
0A07-173	0-0.5	SVOCs Metals Pesticides	Adjacent to IN-2-4.
	0.5-2	SVOCs Metals Pesticides	
0A07-174	0-0.5	SVOCs Metals Pesticides	Adjacent to IN-2-4.
	0.5-2	SVOCs Metals Pesticides	
0A07-175	0-0.5	SVOCs Metals	Adjacent to IN-1-1.
	0.5-2	VOCs SVOCs Metals	
0A07-176	0-0.5	SVOCs Metals Pesticides	Adjacent to IN-2-6.
	0.5-2	SVOCs Metals Pesticides	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-177	0-0.5	SVOCs Metals Pesticides	Adjacent to IN-2-5.
	0.5-2	VOCs Metals Pesticides	
0A07-178	0-0.5	SVOCs Metals PCBs	Adjacent to IN-3-6.
	0.5-2	VOCs Metals PCBs	
	2-6	VOCs	
	6-10	VOCs	
0A07-179	0-0.5	Metals PCBs	Adjacent to IN-3-6.
	0.5-2	VOCs Metals PCBs	
	2-6	VOCs	
	6-10	VOCs	
0A07-180	0-0.5	Metals PCBs	Adjacent to IN-3-5. Adjacent to soil samples 16-13 collected by O'Brien & Gere.
	0.5-2	VOCs Metals PCBs	
	2-6	VOCs	
	6-10	VOCs	
0A07-181	0-0.5	VOCs Metals PCBs	Adjacent to IN-3-5.
	0.5-2	VOCs Metals PCBs	
	2-6	VOCs	
	6-10	VOCs	
0A07-182	0-0.5	Metals PCBs	Adjacent to IN-4-5.
	0.5-2	VOCs Metals PCBs	
0A07-183	0-0.5	Metals PCBs	Adjacent to IN-4-5.
	0.5-2	VOCs Metals PCBs	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-184	0-0.5	PAHs Metals	Adjacent to IN-5-5.
	0.5-2	VOCs PAHs Metals	
0A07-185	0-0.5	SVOCs Metals	Adjacent to IN-6-4.
	0.5-2	VOCs SVOCs Metals	
0A07-186	0-0.5	SVOCs Metals	Adjacent to IN-6-4.
	0.5-2	VOCs SVOCs Metals	
0A07-187	0-0.5	Metals PCBs	Adjacent to IN-4-4. Adjacent to soil samples 16-14 collected by O'Brien & Gere.
	0.5-2	VOCs Metals PCBs	
0A07-188	0-0.5	Metals PCBs	Adjacent to IN-4-4. Adjacent to soil samples 16-11 collected by O'Brien & Gere.
	0.5-2	VOCs Metals PCBs	
0A07-189	0-0.5	Metals PCBs	Adjacent to IN-4-4. Adjacent to soil samples 16-12 collected by O'Brien & Gere.
	0.5-2	VOCs Metals PCBs	
	2-6	VOCs	
	6-10	VOCs	
0A07-190	0-0.5	SVOCs Metals	Adjacent to IN-5-2/IN-5-3.
	0.5-2	VOCs SVOCs Metals	
	2-6	VOCs SVOCs Metals	
	6-10	VOCs PAHs Metals	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-191	0-0.5	SVOCs Metals	Adjacent to IN-5-2/IN-5-3.
	0.5-2	VOCs SVOCs Metals	
0A07-192	0-0.5	SVOCs Metals	Adjacent to IN-5-2/IN-5-3.
	0.5-2	VOCs SVOCs Metals	
	2-6	VOCs SVOCs Metals	
	6-10	VOCs PAHs Metals	
0A07-193	0-0.5	SVOCs Metals	Adjacent to IN-5-2/IN-5-3.
	0.5-2	VOCs SVOCs Metals	
	2-6	VOCs	
	6-10	VOCs	
0A07-194	0-0.5	SVOCs Metals	Adjacent to IN-5-2/IN-5-3.
	0.5-2	VOCs SVOCs Metals	
	2-6	VOCs	
	6-10	VOCs	
0A07-195	0-0.5	SVOCs Metals	Adjacent to IN-6-2.
	0.5-2	VOCs SVOCs Metals	
0A07-196	0-0.5	SVOCs Metals	Adjacent to IN-6-2.
	0.5-2	VOCs SVOCs Metals	
0A07-197	0-0.5	SVOCs Metals	Adjacent to IN-2-1.
	0.5-2	SVOCs Metals	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-198	0-0.5	PAHs Metals	Adjacent to IN-2-3.
	0.5-2	VOCs PAHs Metals	
0A07-199	0-0.5	PAHs Metals	Adjacent to IN-2-3.
	0.5-2	VOCs PAHs Metals	
0A07-200	0-0.5	SVOCs Metals PCBs	Adjacent to IN-3-4. Adjacent to soil samples 16-10 collected by O'Brien & Gere.
	0.5-2	VOCs SVOCs Metals PCBs	
	2-6	VOCs	
	6-10	VOCs	
0A07-201	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
	2-6	Pesticides	
	6-10	Pesticides	
0A07-202	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
	2-6	Pesticides	
	6-10	Pesticides	
0A07-203	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-204	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-205	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-206	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
	2-6	Pesticides	
	6-10	Pesticides	
0A07-207	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-208	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-209	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-210	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
	2-6	Pesticides	
	6-10	Pesticides	
0A07-211	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-212	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6. Exceedance of Ecological Screening Criteria for metals at 0A07-008.
	0.5-2	Metals Pesticides	
0A07-213	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6, IN-2-6.
	0.5-2	Metals Pesticides	
0A07-214	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-215	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Pesticides Pesticides	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-216	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-217	0-0.5	Metals Pesticides	Adjacent to IN-1-4, IN-1-5, IN-1-6.
	0.5-2	Metals Pesticides	
0A07-218	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A07-010.
	0.5-2	Metals	
0A07-219	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A07-010.
	0.5-2	Metals	Adjacent to IN-2-6.
0A07-220	0-0.5	Pesticides	Exceedances of Ecological Screening Criteria for Pesticides at 0A07-016.
	0.5-2	Pesticides	
0A07-221	0-0.5	Pesticides PAHs Metals	Exceedances of Ecological Screening Criteria for Pesticides at 0A07-016 Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A07-017.
	0.5-2	Pesticides PAHs Metals	
0A07-222	0-0.5	Pesticides	Exceedances of Ecological Screening Criteria for Pesticides at 0A07-016.
	0.5-2	Pesticides	
0A07-223	0-0.5	PAHs Metals PCBs	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A07-017. Adjacent to IN-4-5.
	0.5-2	PAHs Metals	
0A07-224	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A07-017.
	0.5-2	PAHs	
0A07-225	0-0.5	PAHs Metals PCBs	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A07-017. Adjacent to IN-4-5
	0.5-2	PAHs Metals	
	2-6	PAHs	
0A07-226	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A07-019.
	0.5-2	PAHs	
0A07-227	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A07-019.
	0.5-2	PAHs	
	2-6	PAHs	
0A07-228	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A07-019.
	0.5-2	PAHs	
	2-6	PAHs	
0A07-229	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A07-020.
	0.5-2	PAHs Metals	Adjacent to IN-6-5.
	2-6	PAHs	
	6-10	PAHs	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-230	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A07-020.
	0.5-2	PAHs Metals	
0A07-231	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A07-020.
	0.5-2	PAHs	Exceedances of Ecological Screening Criteria for Metals at 0A07-021.
		Metals	Adjacent to IN-6-5.
	2-6	PAHs	
0A07-232	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A07-018.
	0.5-2	Metals	
	2-6	Metals	Adjacent to IN-4-5.
0A07-233	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A07-018.
	0.5-2	Metals	
	2-6	Metals	Adjacent to IN-4-5.
0A07-234	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A07-018.
	0.5-2	Metals	
	2-6	Metals	
0A07-235	0-0.5	Pesticides	Exceedances of Human Health and Ecological Screening Criteria for Pesticides at 0A07-073.
	0.5-2	Pesticides	
	2-6	Pesticides	
	6-10	Pesticides	
0A07-236	0-0.5	Pesticides	Exceedances of Human Health and Ecological Screening Criteria for Pesticides at 0A07-073.
	0.5-2	Pesticides	
	2-6	Pesticides	
	6-10	Pesticides	
0A07-237	0-0.5	Pesticides	Exceedances of Human Health and Ecological Screening Criteria for Pesticides at 0A07-073.
	0.5-2	Pesticides	
	2-6	Pesticides	
	6-10	Pesticides	
0A07-238	0-0.5	Metals Pesticides	Exceedances of Ecological Screening Criteria for Pesticides and Metals at 0A07-076.
	0.5-2	Metals Pesticides	
0A07-239	0-0.5	Metals Pesticides	Exceedances of Ecological Screening Criteria for Pesticides and Metals at 0A07-076.
	0.5-2	Metals Pesticides	
0A07-240	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A07-027.
	0.5-2	PAHs	
0A07-241	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A07-027.
	0.5-2	PAHs	
0A07-242	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs at 0A07-027.
	0.5-2	PAHs Metals	Adjacent to IN-1-1.

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-243	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A07-008, 0A07-009, and 0A07-010.
	0.5-2	Metals	
0A07-244	0-0.5	Metals Pesticides	Exceedances of Ecological Screening Criteria for Pesticides and Metals at 0A07-076 and metals at 0A07-071.
	0.5-2	Metals Pesticides	
0A07-253	0-0.5	PCBs Pesticides SVOCs	Between Buildings IN-5-2 and IN-5-3 where former annex had concrete vault that collected spent hydraulic oil. Adjacent to soil samples 16-15 and 16-16 collected by O'Brien & Gere.
	0.5-2	SVOCs Pesticides VOCs PCBs	
	2-6	VOCs	
	6-10	VOCs	
0A07-254	0-0.5	PCBs	Adjacent to transformers.
	0.5-2	PCBs	
0A07-255	0-0.5	Metals	Adjacent to Building IN-3-2 which was used to store fertilizer.
		Nitrate-Nitrite	Place near doorway or loading areas.
		Phosphate	Stake locations in field.
	0.5-2	Metals	
		Nitrate-Nitrite	
		Phosphate	
	2-6	Metals	
		Nitrate-Nitrite	
		Phosphate	
0A07-256	0-0.5	Metals	Adjacent to Building IN-3-2 which was used to store fertilizer.
		Nitrate-Nitrite	Place near doorway or loading areas.
		Phosphate	Stake locations in field.
	0.5-2	Metals	
		Nitrate-Nitrite	
		Phosphate	
	2-6	Metals	
		Nitrate-Nitrite	
		Phosphate	
0A07-257	0-0.5	Dioxins	Concentrations of pesticides and VOCs in area of previously detected pesticides in soil samples.
	0.5-2	Dioxins	
	2-6	VOCs Pesticides	Exceedance of Ecological Screening Criteria for TEQ at 0A07-045.
	6-10	VOCs Pesticides	
0A07-258	2-6	VOCs	Concentrations of VOCs in area of previously detected VOCs in soil samples.
		Pesticides	
	6-10	VOCs	Agencies request for pesticide analysis.
		Pesticides	
0A07-259	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A07-002.
	0.5-2	Dioxins	
0A07-260	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A07-002.
	0.5-2	Dioxins	

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-261	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A07-002.
	0.5-2	Dioxins	
0A07-262	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-008 and 0A07-009.
	0.5-2	Metals	
0A07-263	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-021.
	0.5-2	Metals	
0A07-264	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-021.
	0.5-2	Metals	
0A07-265	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-011, 0A07-162, 0A07-165, and 0A07-167. Place in Ditch downstream of this area.
	0.5-2	Metals	
0A07-266	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-023.
	0.5-2	Metals	
0A07-267	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-023.
	0.5-2	Metals	
0A07-268	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-023.
	0.5-2	Metals	
0A07-269	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-026.
	0.5-2	Metals	
0A07-270	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-026.
	0.5-2	Metals	
0A07-271	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-026.
	0.5-2	Metals	
0A07-272	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-028.
	0.5-2	Metals	
0A07-273	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-028.
	0.5-2	Metals	
0A07-274	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-028.
	0.5-2	Metals	
0A07-275	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-029. Proposed in downgradient drainage pathway.
	0.5-2	Metals	
0A07-276	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A07-045.
	0.5-2	Dioxins	
0A07-277	0-0.5	Dioxins	Exceedance of Ecological Screening Criteria for TEQ at 0A07-045.
	0.5-2	Dioxins	
0A07-278	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A07-071.
	0.5-2	Metals	Proposed in downgradient drainage pathway.

Table 5-134: AUS-0A07 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A07-279	0.5-2	VOCs	Agencies requested investigation of surface soil detections of TCE at the Area 7 Fire Station (AUS Site 0021), adjacent to 0021-004 and 0021-005. Soil sampling will be continued to water table surface.
	2-6	VOCs	
	6-10	VOCs	
0A07-280	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0021-003.
	0.5-2	Metals	
0A07-281	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0021-001 and Ecological and Human Health Screening Criteria for metals at 0021-003.
	0.5-2	Metals	
0A07-282	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0021-001.
	0.5-2	Metals	
0A07-283	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0021-001.
	0.5-2	Metals	
0A07-284	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0021-004 and 0021-005.
	0.5-2	Metals	
0A07-285	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0021-004 and 0021-005.
	0.5-2	Metals	
0A07-286	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0021-004 and 0021-005.
	0.5-2	Metals	
0A07-287	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at sediment sample 0021-002
	0.5-2	Metals	
0A07-288	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-025.
0A07-289	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-028.
0A07-290	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-162.
0A07-291	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-008.
0A07-292	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-010.
0A07-293	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-012.
0A07-294	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-013.
0A07-295	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-038.
0A07-296	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-043.
0A07-297	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-045.
	2-6	PAHs	
0A07-298	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-053.
0A07-299	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-057.
0A07-300	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-059.
0A07-301	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-060.
	2-6	PAHs	
0A07-302	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-071.
0A07-303	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-073.
0A07-304	0-0.5	PAHs	Verification of cPAH exceedance at 0A07-076.
0A07-W01	2-6	VOCs Pesticides	Concentrations of pesticides and VOCs in area of previously detected pesticides in soil samples.
	6-10	VOCs Pesticides	
0A07-W02	2-6	VOCs Pesticides	Concentrations of pesticides and VOCs in area of previously detected pesticides in soil samples.
	6-10	VOCs Pesticides	

Table 5-135 : AUS-0A8S Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A8S-036	0-0.5	SVOCs Explosives Metals	Adjacent to Scarred Area.
	0.5-2	SVOCs Explosives Metals	
0A8S-037	0-0.5	SVOCs Explosives Metals	Adjacent to Bermed area.
	0.5-2	SVOCs Explosives Metals	
0A8S-038	0-0.5	SVOCs Explosives Metals	Adjacent to Bermed area.
	0.5-2	SVOCs Explosives Metals	
0A8S-039	0-0.5	SVOCs Explosives Metals	Adjacent to Bermed area.
	0.5-2	SVOCs Explosives Metals	
0A8S-040	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Explosives and Metals at 0A8S-019.
	0.5-2	Explosives Metals	
0A8S-041	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A8S-W03.
	0.5-2	Metals	
0A8S-042	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A8S-W03.
	0.5-2	Metals	
0A8S-043	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A8S-W03.
	0.5-2	Metals	
0A8S-044	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals and Explosives at 0A8S-028 and 0A8S-019.
	0.5-2	Explosives Metals	
0A8S-045	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A8S-028.
	0.5-2	Metals	
0A8S-046	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A8S-028.
	0.5-2	Metals	
0A8S-047	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals and Explosives at 0A8S-028 and 0A8S-019.
	0.5-2	Explosives Metals	

Table 5-135 : AUS-0A8S Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A8S-059	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for PAHs and metals at sediment sample 0A8S-023 and Ecological Screening Criteria for Boron at 0A8S-W04.
	0.5-2	PAHs Metals	
0A8S-060	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for PAHs and metals at sediment sample 0A8S-023.
	0.5-2	PAHs Metals	
0A8S-061	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for PAHs and metals at sediment sample 0A8S-023.
	0.5-2	PAHs Metals	
0A8S-062	0-0.5	Explosives Nitrates Metals	Within area where USFWS reported buried black powder.
	0.5-2	Explosives Nitrates Metals	
	2-6	Explosives Nitrates Metals	
	6-10	Explosives Nitrates Metals	
0A8S-063	0.5-2	VOCs	Bermed area around former AST, near north end of site. Collect samples in 4 foot intervals to water table.
	2-6	VOCs	
	6-10	VOCs	
0A8S-064	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Boron at 0A8S-W04.
	0.5-2	Metals	
0A8S-065	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Boron at 0A8S-W04.
	0.5-2	Metals	
0A8S-067	0-0.5	PAHs	Exceedances of Ecological Screening Criteria for PAHs at sediment sample 0A8S-012.
	0.5-2	PAHs	
0A8S-068	0-0.5	PAHs	Exceedances of Ecological Screening Criteria for PAHs at sediment sample 0A8S-012. Verify EPA sample 26-01.
	0.5-2	PAHs	
0A8S-069	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and metals at sediment sample 0A8S-032.
	0.5-2	PAHs Metals	
0A8S-070	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and metals at sediment sample 0A8S-032.
	0.5-2	PAHs Metals	
0A8S-071	0-0.5	PAHs	Verification of cPAH exceedance at 0A8S-012.
0A8S-072	0-0.5	PAHs	Verification of cPAH exceedance at 0A8S-017.
0A8S-W08	0-0.5	SVOCs	Confirmation of the analytical results for Di-n-butyl phthalate reported in soil sample 0A8S-019.
	0.5-2	SVOCs	
0A8S-W11	0-0.5	Metals	Exceedance of soil to groundwater criteria for metals at sediment sample 0A8S-023.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	

Table 5-136: AUS-0A09 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A09-022	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Cadmium and Zinc at 0A09-003.
	0.5-2	Explosives Metals	Agency requested deeper boring near sumps and Building I-1-20.
	2-6	Explosives	Reported location of reported storage of pyrotechnic scrap, explosive scrap, and special waste.
		VOCs	
	6-10	Explosives	
		VOCs	
0A09-023	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-006.
		Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
	0.5-2	Metals	
		Perchlorate	
0A09-024	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-005.
		Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
	0.5-2	Metals	
		Perchlorate	
0A09-025	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-006 and 0A09-005.
	0.5-2	Metals	
0A09-026	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-005.
	0.5-2	Metals	
0A09-027	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-W01.
	0.5-2	Metals	
0A09-028	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-W01.
		Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
	0.5-2	Metals	
		Perchlorate	
0A09-029	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-011.
		Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
	0.5-2	Metals	
		Perchlorate	
0A09-030	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-011.
	0.5-2	Metals	
0A09-031	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-011.
	0.5-2	Metals	
0A09-032	0-0.5	Explosives Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals and Ecological Screening Criteria for 2,4-Dintrotolune at 0A09-012.
	0.5-2	Explosives Metals	
0A09-033	0-0.5	Explosives Metals Perchlorate	Exceedances of Ecological and Human Health Screening Criteria for Metals and Ecological Screening Criteria for 2,4-Dintrotolune at 0A09-012.
	0.5-2	Explosives Metals Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.

Table 5-136: AUS-0A09 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A09-034	0-0.5	Explosives Metals Perchlorate	Exceedances of Ecological and Human Health Screening Criteria for Metals and Ecological Screening Criteria for 2,4-Dintrotolune at 0A09-012.
	0.5-2	Explosives Metals Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
0A09-035	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-015.
	0.5-2	Metals	
0A09-036	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-015.
	0.5-2	Metals	
0A09-037	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-015.
		Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
	0.5-2	Metals	
		Perchlorate	
0A09-038	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-016 and 0A09-017.
	0.5-2	Metals	
0A09-039	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-016 and 0A09-017.
	0.5-2	Metals	
0A09-040	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-008.
		Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
	0.5-2	Metals	
		Perchlorate	
0A09-041	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-008.
		Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
	0.5-2	Metals	
		Perchlorate	
0A09-049	0-0.5	Explosives	Agency requested deeper boring near sumps and Building I-1-20.
		Perchlorate	Agency request for perchlorate analysis in vicinity of reported explosive disposal and storage areas.
	0.5-2	Explosives	
		Perchlorate	
	2-6	Explosives	Reported location of reported storage of pyrotechnic scrap, explosive scrap, and special waste.
		VOCs	
	6-10	Explosives	
		VOCs	
0A09-050	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Cadmium and Zinc at 0A09-003.
	0.5-2	Explosives Metals	Agency requested deeper boring near sumps and Building I-1-20.
	2-6	Explosives	Reported location of reported storage of pyrotechnic scrap, explosive scrap, and special waste.
		VOCs	
	6-10	Explosives	
		VOCs	
0A09-051	0-0.5	PAHs	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for explosives at sediment sample 0A09-021.
	0-0.5	Explosives	
	0.5-2	PAHs	
	0.5-2	Explosives	

Table 5-136: AUS-0A09 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A09-052	0-0.5	PAHs	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for explosives at sediment sample 0A09-021.
	0-0.5	Explosives	
	0.5-2	PAHs	
	0.5-2	Explosives	
0A09-053	0-0.5	PAHs	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for explosives at sediment sample 0A09-021.
	0-0.5	Explosives	
	0.5-2	PAHs	
	0.5-2	Explosives	
0A09-054	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-017 and 0A09-018.
	0.5-2	Metals	
0A09-055	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-018.
	0.5-2	Metals	
0A09-056	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-017 and 0A09-018.
	0.5-2	Metals	
0A09-057	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0A09-020.
	0.5-2	Metals	
0A09-058	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0A09-020.
	0.5-2	Metals	
0A09-059	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0A09-020.
	0.5-2	Metals	
0A09-060	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-019.
	0.5-2	Metals	
0A09-061	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-019.
	0.5-2	Metals	
0A09-062	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A09-019.
	0.5-2	Metals	
0A09-063	0.5-2	VOCs	Adjacent to former Building I-1-26.
	2-6	VOCs	Collect soil samples to the water table surface.
	6-10	VOCs	
0A09-064	0.5-2	VOCs	Adjacent to former Building I-1-26.
	2-6	VOCs	Collect soil samples to the water table surface.
	6-10	VOCs	
0A09-065	0-0.5	Explosives	Potential location of a former burn pit. Placed at location of possible scar on inside of curve of road in the 1971 aerial photograph.
		SVOCs	
		Metals	
	0.5-2	Explosives	
		SVOCs	
		VOCs	
		Metals	
	2-6	Explosives	
		VOCs	
	6-10	Explosives	
		VOCs	

Table 5-136: AUS-0A09 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A09-066	0-0.5	Explosives SVOCs Metals	Potential location of a former explosives storage area.
	0.5-2	Explosives SVOCs Metals	
0A09-W05	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A09-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
0A09-W06	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-0A09-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-137: AUS-0A10 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A10-005	0-0.5	SVOCs Explosives Metals	Area of surface discoloration from 1951 aerial photographs, adjacent to FBM 4-1. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives Metals	
0A10-006	0-0.5	SVOCs Explosives Metals	Area of surface discoloration from 1951 aerial photographs, adjacent to FBM 4-1. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives Metals	
0A10-007	0-0.5	SVOCs Explosives Metals	Adjacent to FBM 3-1 which was possibly used for propellant casting. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives Metals	
0A10-008	0-0.5	SVOCs Explosives Metals	Adjacent to FBM 3-2 which was possibly used for propellant casting. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives Metals	
0A10-009	0-0.5	SVOCs Explosives Metals	Adjacent to FBM 3-3 which was possibly used for propellant casting. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives Metals	
0A10-010	0-0.5	SVOCs Explosives Metals	Adjacent to FBM 2-5 which was a storage magazine. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives Metals	
0A10-011	0-0.5	SVOCs Explosives Metals	Adjacent to FBM 2-4 which was a storage magazine. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives Metals	

Table 5-137: AUS-0A10 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A10-012	0-0.5	SVOCs Explosives PCBs Metals	Adjacent to FBM 1-5. Sangamo storage magazine. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives PCBs Metals	
0A10-013	0-0.5	SVOCs Explosives PCBs Metals	Adjacent to FBM 1-5 Sangamo storage. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives PCBs Metals	
0A10-014	0-0.5	SVOCs Explosives PCBs Metals	Adjacent to FBM 1-4 Sangamo storage. This building was listed as a potential other feature requiring investigation in the SOW.
	0.5-2	SVOCs Explosives PCBs Metals	
0A10-015	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A10-001.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A10-016	0-0.5	Metals Dioxins	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A10-001 and Metals and VOCs at 0A10-002. Chlorinated solvents used in burning may have produced dioxins. Boring will be advanced and samples collected and analyzed for VOCs in 4 foot intervals to groundwater or 10 feet, whichever is greater.
	0.5-2	VOCs Metals Dioxins	
	2-6	VOCs Metals	
	6-10	VOCs Metals	
0A10-017	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A10-001.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A10-018	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A10-001.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	

Table 5-137: AUS-0A10 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A10-019	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals and Exceedances of Human Health Screening Criteria for TCE at 0A10-002.
	0.5-2	Metals	
	2-6	VOCs	Boring will be advanced and samples collected and analyzed for VOCs in 4 foot intervals to groundwater or 10 feet, whichever is greater.
	6-10	VOCs	
0A10-020	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals and Exceedances of Human Health Screening Criteria for TCE at 0A10-002.
	0.5-2	Metals	
	2-6	VOCs	Boring will be advanced and samples collected and analyzed for VOCs in 4 foot intervals to groundwater or 10 feet, whichever is greater.
	6-10	VOCs	
0A10-021	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals and Exceedances of Human Health Screening Criteria for TCE at 0A10-002.
	0.5-2	Metals	
	2-6	VOCs	Boring will be advanced and samples collected and analyzed for VOCs in 4 foot intervals to groundwater or 10 feet, whichever is greater.
	6-10	VOCs	
0A10-022	0-0.5	Metals	EPA Sample 41-01 Resample.
	0.5-2	Metals	
0A10-028	0-0.5	Explosives Metals	Apparent burn area to south of burn pits within firing ranges.
	0.5-2	Explosives Metals	

Table 5-138: AUS-A11A Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11A-038	0-0.5	SVOCs Explosives Metals	Dynoil Mix house. Diesel and general industrial use.
	0.5-2	VOCs SVOCs Explosives Metals	
A11A-039	0-0.5	SVOCs Explosives Dioxins Metals	Dynoil Mix house. Diesel and general industrial use. Agency request for additional dioxin analysis.
	0.5-2	VOCs SVOCs Explosives Dioxins Metals	
	2-6	VOCs Dioxins	
	6-10	VOCs	
A11A-040	0-0.5	SVOCs Explosives Metals	Dynoil Mix house. Diesel and general industrial use.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
A11A-041	0-0.5	SVOCs Explosives Dioxins Metals	Dynoil Mix house. Diesel and general industrial use. Agency request for additional dioxin analysis.
	0.5-2	VOCs SVOCs Explosives Dioxins Metals	
A11A-042	0-0.5	Metals	Acid Manufacturing Area.
		Dioxins	Exceedances of Ecological Screening Criteria for chromium at sediment sample A11A-028.
	0.5-2	Metals	Agency request for additional dioxin analysis.
		Dioxins	
A11A-043	0-0.5	Metals	Acid Manufacturing Area.
	0.5-2	Metals	Exceedances of Ecological Screening Criteria for chromium at A11A-027 and A11A-030.

Table 5-138: AUS-A11A Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11A-044	0-0.5	Metals	Acid Manufacturing Area (Former ASTs).
	0.5-2	VOCs Metals	Boring will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	2-6	VOCs	Exceedance of Ecological Screening Criteria for metals in sediment sample A11A-023.
	6-10	VOCs	
A11A-045	0-0.5	Metals Dioxins	Acid Manufacturing Area (Former ASTs).
	0.5-2	VOCs Dioxins Metals	Boring will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	2-6	VOCs	Agency request for additional dioxin analysis.
		Dioxins	
	6-10	VOCs	
A11A-046	0-0.5	Explosives Metals	Adjacent to Building 45 south of TNT screening (1 press). Exceedances of Ecological Screening Criteria for Metals at A11A-025.
	0.5-2	VOCs Explosives Metals	
A11A-047	0-0.5	Metals	Acid Manufacturing Area.
	0.5-2	Metals	Exceedance of Ecological Screening Criteria for metals in sediment sample A11A-023.
A11A-048	0-0.5	SVOCs Explosives Metals	Dynoil Mix house. Diesel and general industrial use.
	0.5-2	SVOCs VOCs Explosives Metals	Boring will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	2-6	VOCs	
	6-10	VOCs	
A11A-049	0-0.5	SVOCs Metals	Soil sample adjacent to A11P-004 which reported exceedances of Ecological and Human Health Screening Criteria for SVOCs and metals.
	0.5-2	SVOCs Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-002.
	2-6	SVOCs Metals	
A11A-050	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-020. Exceedance of Ecological and Human Health Screening Criteria for metals and Ecological Screening Criteria for PAHs at sediment sample A11A-026.
	0.5-2	PAHs Metals	
A11A-051	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-019 and A11A-020.
	0.5-2	Metals	
A11A-052	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-019 and A11A-020.
	0.5-2	Metals	
A11A-053	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at at A11A-019 and A11A-020.
	0.5-2	Metals	
A11A-054	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-020 and sediment sample A11A-028.
	0.5-2	Metals	

Table 5-138: AUS-A11A Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11A-055	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-020 and sediment sample A11A-028.
	0.5-2	PAHs Metals	Exceedance of Ecological and Human Health Screening Criteria for metals and Ecological Screening Criteria for PAHs at sediment sample A11A-026. Verify EPA sample 49-02.
A11A-056	0-0.5	Metals	Exceedances of Ecological Screening Criteria for chromium at A11A-030.
		Dioxins	
	0.5-2	Metals	Agency request for additional dioxin analysis.
		Dioxins	
	2-6	Dioxins	
A11A-057	0-0.5	Metals	Exceedances of Ecological Screening Criteria for chromium at A11A-030.
	0.5-2	Metals	
A11A-058	0-0.5	Metals	Exceedances of Ecological Screening Criteria for chromium at A11A-027 and A11A-030.
	0.5-2	Metals	
A11A-059	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Arsenic at sediment sample A11A-008.
A11A-060	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Arsenic at sediment sample A11A-008.
A11A-061	0-0.5	PAHs Dioxins Metals	Exceedances of Screening Criteria for PAHs at sediment sample A11A-036.
	0.5-2	PAHs Dioxins Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-025. Agency request for additional dioxin analysis.
A11A-062	0-0.5	PAHs	Exceedances of Screening Criteria for PAHs at sediment sample A11A-036.
	0.5-2	PAHs	
A11A-063	0-0.5	PAHs Metals	Exceedances of Screening Criteria for PAHs at sediment sample A11A-036. Exceedance of Ecological Screening Criteria for Metals at A11A-018.
	0.5-2	PAHs Metals	
A11A-064	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-002.
	0.5-2	Metals	
A11A-065	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11A-002.
	0.5-2	Metals	
A11A-066	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals in sediment sample A11A-001.
	0.5-2	Metals	
A11A-067	0-0.5	Metals SVOCs	Exceedances of Ecological Screening Criteria for Metals and SVOCs and the soil Human Health screening criteria for Iron in sediment sample A11A-006.
	0.5-2	Metals SVOCs	
A11A-068	0-0.5	Metals SVOCs	Exceedances of Ecological Screening Criteria for Metals and SVOCs and the soil Human Health screening criteria for Iron in sediment sample A11A-006. Exceedance of Ecological Screening Criteria for Metals at A11A-015.
	0.5-2	Metals SVOCs	
	0.5-2	Metals SVOCs	
A11A-069	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at sediment samples A11A-011 and A11A-014. Adjacent to A11A-013 which reported exceedances of Ecological Screening Criteria for Zinc. Verification of cPAH exceedance at A11A-013.
		PAHs	
	0.5-2	Metals	
A11A-070	0-0.5	PAHs	Verification of cPAH exceedance at A11A-006.
A11A-071	0-0.5	PAHs	Verification of cPAH exceedance at A11A-024.
A11A-072	0-0.5	PAHs	Verification of cPAH exceedance at A11A-026.
A11A-073	0-0.5	PAHs	Verification of cPAH exceedance at A11A-034.
A11A-074	0-0.5	PAHs	Verification of cPAH exceedance at A11A-035.

Table 5-139: AUS-A11H Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11H-069	0-0.5	SVOCs Explosives Metals	Mound of dumped soil at south end of site.
	0.5-2	SVOCs Explosives Metals	
A11H-070	0-0.5	SVOCs Explosives Metals	Mound of dumped soil at south end of site.
	0.5-2	SVOCs Explosives Metals	
	2-6	SVOCs Explosives Metals	
	6-10	Metals	
A11H-071	0-0.5	SVOCs Explosives Metals	Former mix/pack houses. Exceedance of Human Health and Ecological Screening Criteria for metals at A11H-039.
	0.5-2	SVOCs VOCs Explosives Metals	
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
A11H-072	0-0.5	SVOCs Explosives Metals	Former mix/pack houses.
	0.5-2	SVOCs Explosives Metals	

Table 5-139: AUS-A11H Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11H-073	0-0.5	SVOCs Explosives Metals	R & D Adjacent to Buildings. Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
A11H-074	0-0.5	SVOCs Explosives Metals	R & D Adjacent to Buildings. Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	0.5-2	VOCs SVOCs Explosives Metals	Exceedance of Ecological Screening Criteria for explosives and metals at sediment sample A11H-020.
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
A11H-075	0-0.5	SVOCs Explosives Metals	Requested in field in ditch to south of mix house 17 (SE most). Exceedance of Ecological Screening Criteria for metals at A11H-032.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
A11H-076	0-0.5	SVOCs Explosives Metals	Mound of dumped soil at south end of site.
	0.5-2	SVOCs Explosives Metals	

Table 5-139: AUS-A11H Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11H-077	0-0.5	SVOCs Explosives Metals	Former mix/pack houses.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
A11H-078	0-0.5	SVOCs Explosives Metals	Former mix/pack houses. Exceedance of Ecological Screening Criteria for PAHs and Metals at sediment sample A11H-045.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
A11H-079	0-0.5	SVOCs Explosives Metals	Former mix/pack houses. Exceedance of Ecological Screening Criteria for Zinc at sediment sample A11H-010.
	0.5-2	SVOCs Explosives Metals	
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	

Table 5-139: AUS-A11H Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11H-080	0-0.5	PAHs	Soil sample adjacent to Sewer line sample (A11H-064) which had exceedance of Human Health and Ecological Screening Criteria for metals, Explosives and PAHs.
		Explosives	Exceedance of Human Health and Ecological criteria for PAHs and Ecological Screening criteria for metals at soil and sedment samples A11H-063.
		Metals	
	0.5-2	PAHs	
		Explosives	Adjacent to settling tanks and evaporation basins associated with IOP Melt Loading Building (II-I-6).
		Metals	
	2-6	PAHs	
		Explosives	
		Metals	
	6-10	PAHs	
		Explosives	
		Metals	
A11H-081	0-0.5	SVOCs	Reverification of 11H-013 due to Di-N-Butyl Phthalate detection.
		Metals	Exceedance of Ecological Screening Criteria for Metals at A11H-015.
	0.5-2	SVOCs	Proposed in same location as proposed 11H-W02.
		Metals	Verification of cPAH exceedance at A11A-013.
A11H-082	0-0.5	SVOCs	Verification of 11H-028 due to Pentachlorophenol detection and cPAH exceedance.
	0.5-2	SVOCs	Proposed in same location as proposed 11H-W04.
A11H-083	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11H-027 and A11H-028.
	0.5-2	Metals	
A11H-084	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11H-027.
	0.5-2	Metals	
A11H-085	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11H-027, A11H-028, and A11H-030.
	0.5-2	Metals	
A11H-086	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11H-028 and A11H-030.
	0.5-2	Metals	
A11H-087	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11H-047.
	0.5-2	Metals	
A11H-088	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11H-047.
		Dioxins	
	0.5-2	Metals	Agency request for additional dioxin analysis.
		Dioxins	
	2-6	Dioxins	
A11H-089	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11H-047.
		Dioxins	
	0.5-2	Metals	Agency request for additional dioxin analysis.
		Dioxins	
A11H-090	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11H-047.
	0.5-2	Metals	

Table 5-139: AUS-A11H Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11H-091	0-0.5	Metals PAHs	Exceedances of Ecological and Human Health Screening Criteria for for Metals and Human Health Screening Criteria for PAHs at A11H-053.
	0.5-2	VOCs PAHs Metals	Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	2-6	VOCs PAHs Metals	
	6-10	VOCs PAHs Metals	
A11H-092	0-0.5	Metals PAHs	Exceedances of Ecological and Human Health Screening Criteria for Metals and Human Health Screening Criteria for PAHs at A11H-053.
	0.5-2	VOCs PAHs Metals	Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	2-6	VOCs PAHs Metals	
	6-10	VOCs PAHs Metals	
A11H-093	0-0.5	SVOCs Explosives Metals	R & D Adjacent to Buildings Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
A11H-094	0-0.5	Metals Dioxinx	Exceedance of Human Health and Ecological Screenign Concentrations for Metals in sediment sample A11H-041.
	0.5-2	Metals Dioxins	Agency request for additional dioxin analysis.
	2-6	Metals	
	6-10	Metals	
A11H-095	0-0.5	Metals	Exceedance of Human Health and Ecological Screenign Concentrations for Metals in sediment sample A11H-041.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
A11H-096	0-0.5	Metals	Exceedance of Human Health and Ecological Screenign Concentrations for Metals in sediment sample A11H-041.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
A11H-097	0-0.5	Metals	Exceedance of Human Health and Ecological Screenign Concentrations for Metals in sediment sample A11H-041.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	

Table 5-139: AUS-A11H Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11H-098	0-0.5	Metals PAHs	Exceedances of Ecological and Human Health Screening Criteria for Metals and Human Health Screening Criteria for PAHs at A11H-053.
	0.5-2	VOCs PAHs Metals	Exceedance of Ecological Screening Criteria for Metals at A11H-006. Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	2-6	VOCs PAHs Metals	
	6-10	VOCs PAHs Metals	
A11H-099	0-0.5	Metals PAHs	Exceedances of Ecological and Human Health Screening Criteria for Metals and Human Health Screening Criteria for PAHs at A11H-053.
	0.5-2	VOCs PAHs Metals	Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	2-6	VOCs PAHs Metals	
	6-10	VOCs PAHs Metals	
A11H-100	0-0.5	PAHs Metals	Exceedance of Human Health criteria for PAHs and Ecological Screening Criteria for metals at A11H-061 and Ecological Screening Criteria for Metals at A11H-059.
	0.5-2	PAHs Metals	Adjacent to settling tanks and evaporation basins associated with IOP Melt Loading Building (II-I-6).
	2-6	PAHs	
	6-10	PAHs	
A11H-101	0-0.5	PAHs	Exceedance of Human Health criteria for PAHs and Ecological Screening Criteria for metals at A11H-061.
	0.5-2	PAHs	Adjacent to settling tanks and evaporation basins associated with IOP Melt Loading Building (II-I-6).
	2-6	PAHs	
	6-10	PAHs	Same location as AUS-A11H-W08.
A11H-102	0-0.5	PAHs Metals	Exceedance of Human Health and Ecological criteria for PAHs and Ecological Screening criteria for metals at soil and sedment samples A11H-063.
	0.5-2	PAHs Metals	Adjacent to settling tanks and evaporation basins associated with IOP Melt Loading Building (II-I-6).
	2-6	PAHs	
	6-10	PAHs	

Table 5-139: AUS-A11H Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11H-103	0-0.5	PAHs Metals	Exceedance of Human Health and Ecological criteria for PAHs and Ecological Screening criteria for metals at soil and sedment samples A11H-063 and PAHs in sediment sample A11H-062. Adjacent to settling tanks and evaporation basins associated with IOP Melt Loading Building (II-I-6).
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
A11H-104	0-0.5	Explosives PAHs Metals	Vicinity of former ASTs at Building 67-1 (inert stores) and downgradient of Test Pit A11H-061. Exceedance of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at A11H-061 and Ecological Screening Criteria for Metals at A11H-060. Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	0.5-2	VOCs PAHs Explosies Metals	
	2-6	VOCs Explosives PAHs	
	6-10	VOCs Explosives PAHs	
A11H-105	0-0.5	Explosives PAHs Metals	Vicinity of former ASTs at Building 67-1 (inert stores) and downgradient of Test Pit A11H-061. Exceedance of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at A11H-061 and Ecological Screening Criteria for Metals at A11H-065.. Soil borings will be advanced in 4 foot intervals to 10 feet or the water table, whichever is greater, and soil samples will be analyzed for VOCs.
	0.5-2	VOCs PAHs Explosies Metals	
	2-6	VOCs Explosives PAHs	
	6-10	VOCs Explosives PAHs	
A11H-106	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11H-015.
	0.5-2	Metals	
A11H-107	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11H-015 and A11H-016.
	0.5-2	Metals	
A11H-108	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11H-016.
	0.5-2	Metals	
A11H-109	0-0.5	Metals Dioxins	Exceedance of Ecological Screening Criteria for metals at A11H-032. Agency request for additional dioxin analysis.
	0.5-2	Metals Dioxins	
	2-6	Dioxins	
A11H-110	0-0.5	Metals Dioxins	Exceedance of Human Health and Ecological Screening Criteria for metals at A11H-039. Agency request for additional dioxin analysis.
	0.5-2	Metals Dioxins	
A11H-111	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11H-006.
	0.5-2	Metals	

Table 5-139: AUS-A11H Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11H-112	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11H-059.
	0.5-2	Metals	
A11H-113	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11H-065.
	0.5-2	Metals	
A11H-114	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11H-067.
	0.5-2	Metals	
A11H-115	0-0.5	PAHs	Exceedance of Ecological Screening Criteria for 2-Methylnaphthalene at sediment sample A11H-005.
	0.5-2	PAHs	
A11H-116	0-0.5	Explosives Metals	Exceedance of Ecological Screening Criteria for metals at sediment sample A11H-007 and for metals and explosives at A11H-008.
	0.5-2	Explosives Metals	
A11H-117	0-0.5	Explosives Dioxins Metals	Exceedance of Ecological Screening Criteria for metals at sediment sample A11H-007 and for metals and explosives at A11H-008. Agency request for additional dioxin analysis.
	0.5-2	Explosives Dioxins Metals	
A11H-118	0-0.5	Explosives Metals	Exceedance of Ecological Screening Criteria for metals at sediment sample A11H-007 and for metals and explosives at A11H-008.
	0.5-2	Explosives Metals	
A11H-119	0-0.5	Metals Dioxins	Exceedance of Ecological Screening Criteria for lead at sediment sample A11H-009.
	0.5-2	Metals Dioxins	Agency request for additional dioxin analysis.
A11H-120	0-0.5	Metals Dioxins	Exceedance of Ecological Screening Criteria for lead at sediment sample A11H-009.
	0.5-2	Metals Dioxins	Agency request for additional dioxin analysis.
	2-6	Dioxins	
A11H-121	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for metals and PAHs at sediment sample A11H-019.
	0.5-2	PAHs Metals	
A11H-122	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at sewer line sample A11H-025-SL.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
A11H-123	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at sediment sample A11H-030.
	0.5-2	Metals	
A11H-124	0-0.5	Metals Dioxins	Exceedance of Ecological Screening Criteria for lead at sediment sample A11H-036.
	0.5-2	Metals Dioxins	Agency request for additional dioxin analysis.
	2-6	Dioxins	
A11H-125	0-0.5	Metals	Exceedance of Ecological Screening Criteria for lead at sediment sample A11H-046.
	0.5-2	Metals	
A11H-126	0-0.5	Metals	Verify EPA sample 47-01C.
	0.5-2	Metals	
A11H-127	0-0.5	Metals	Verify EPA sample 47-02C.
	0.5-2	Metals	
A11H-128	0-0.5	PAHs	Verification of cPAH exceedance at A11H-018.
A11H-129	0-0.5	PAHs	Verification of cPAH exceedance at A11H-045.
A11H-130	0-0.5	PAHs	Verification of cPAH exceedance at A11H-062.
A11H-131	0-0.5	PAHs	Verification of cPAH exceedance at A11H-065.
A11H-132	0-0.5	PAHs	Verification of cPAH exceedance at A11H-012.
A11H-133	0-0.5	PAHs	Verification of cPAH exceedance at A11H-020.
A11H-134	0-0.5	PAHs	Verification of cPAH exceedance at A11H-031.
A11H-135	0-0.5	PAHs	Verification of cPAH exceedance at A11H-035.

Table 5-140: AUS-A11N Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11N-032	0-0.5	PAHs Explosives Metals	Bermed soil area.
	0.5-2	PAHs Explosives Metals	
A11N-033	0-0.5	SVOCs Dioxins Explosives Metals Nitrates Sulfates	Former disposal trenches at SW part of site adjacent to Building 10. Exceedances of Ecological Screening Criteria for Metals at A11N-021 and A11N-024. Agency request for dioxin analysis.
	0.5-2	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	2-6	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	6-10	VOCs SVOCs Explosives Metals Nitrates Sulfates	
A11N-034	0-0.5	SVOCs Explosives Metals Nitrates Sulfates	Former disposal trenches at SW part of site, adjacent to Building 10. Exceedances of Ecological Screening Criteria for Metals at A11N-020.
	0.5-2	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	2-6	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	6-10	VOCs SVOCs Explosives Metals Nitrates Sulfates	

Table 5-140: AUS-A11N Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11N-035	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-002.
	0.5-2	Metals	
A11N-036	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-002.
	0.5-2	Metals	
A11N-037	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-002
	0.5-2	Metals	
A11N-038	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-002.
	0.5-2	Metals	
A11N-039	0-0.5	Metals	Exceedances of Ecological Screening Criteria for PAHs at sediment sample A11N-012 and for Metals at A11N-013.
		PAHs	
		Nitrates	Within Former East Holding Pond.
		Sulfates	
		Dioxins	Agency request for additional dioxin analysis.
		Explosives	
	0.5-2	Metals	
		PAHs	
		Nitrates	
		Sulfates	
		Dioxins	
		Explosives	
	2-6	Metals	
		Nitrates	
		Sulfates	
		Dioxins	
		Explosives	
	6-10	Metals	
		Nitrates	
		Sulfates	
		Explosives	
A11N-040	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-013.
	0.5-2	Metals	
A11N-041	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-013.
	0.5-2	Metals	
A11N-042	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-013.
	0.5-2	Metals	
A11N-043	0-0.5	Explosives	Exceedances of Human Health and Ecological Screening Criteria for Metals at A11N-019.
		Metals	
	0.5-2	Explosives	In Nitroglycerin manufacturing area
		Metals	
A11N-044	0-0.5	Explosives	Exceedances of Human Health and Ecological Screening Criteria for Metals at A11N-019.
		Dioxins	
		Metals	
	0.5-2	Explosives	In Nitroglycerin manufacturing area.
		Dioxins	Agency request for additional dioxin analysis.
		Metals	

Table 5-140: AUS-A11N Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11N-045	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-027.
	0.5-2	Explosives Metals	In Nitroglycerin manufacturing area.
A11N-046	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-027.
	0.5-2	Explosives Metals	In Nitroglycerin manufacturing area.
A11N-047	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-027.
	0.5-2	Explosives Metals	In Nitroglycerin manufacturing area.
A11N-048	0-0.5	Explosives Dioxins Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-026 and A11N-027.
	0.5-2	Explosives Dioxins Metals	In Nitroglycerin manufacturing area. Agency request for additional dioxin analysis.
	2-6	Dioxins	
A11N-049	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-028.
	0.5-2	Metals	
A11N-050	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-028.
	0.5-2	Metals	
A11N-051	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-028.
	0.5-2	Metals	
A11N-052	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11N-024 and A11N-028.
	0.5-2	Metals	
A11N-053	0-0.5	PAHs Metals	Exceedances of Human Health Soil and Ecological Screening Criteria for metalsl and Ecological Screening Criteria for PAHs at sediment sample A11N-004.
	0.5-2	PAHs Metals	
	2-6	Metals	
	6-10	Metals	
A11N-054	0-0.5	PAHs Dioxins Metals	Exceedances of Human Health Soil and Ecological Screening Criteria for metalsl and Ecological Screening Criteria for PAHs at sediment sample A11N-004.
	0.5-2	PAHs Dioxins Metals	Agency request for additional dioxin analysis.
	2-6	Metals Dioxins	
	6-10	Metals	
A11N-055	0-0.5	PAHs Metals	Exceedances of Human Health Soil and Ecological Screening Criteria for metals and Ecological Screening Criteria for PAHs at sediment sample A11N-004.
	0.5-2	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at soil sample A11H-052 and sediment sample A11H-054.
	2-6	Metals	
	6-10	Metals	

Table 5-140: AUS-A11N Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11N-056	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for metals at sediment sample A11N-019.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
A11N-057	0-0.5	SVOCs Explosives Metals Nitrates Sulfates	Former disposal trenches.
	0.5-2	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	2-6	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	6-10	VOCs SVOCs Explosives Metals Nitrates Sulfates	
A11N-058	0-0.5	SVOCs Explosives Metals Nitrates Sulfates	Former disposal trenches.
	0.5-2	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	2-6	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	6-10	VOCs SVOCs Explosives Metals Nitrates Sulfates	

Table 5-140: AUS-A11N Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11N-059	0-0.5	SVOCs Explosives Metals Nitrates Sulfates	Within Central Holding Pond. Below a depth of 10 feet, the soil boring will be advanced in 4 foot intervals through the mound and to 10 feet below the mound and soil samples will be analyzed for the analytes listed in the 6-10 foot sampling interval.
	0.5-2	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	2-6	VOCs SVOCs Explosives Metals Nitrates Sulfates	
	6-10	VOCs SVOCs Explosives Metals Nitrates Sulfates	
A11N-060	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium in A11N-021 and A11N-024.
	0.5-2	Metals	
A11N-061	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium in A11N-026.
	0.5-2	Metals	
A11N-062	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium in A11N-029.
	0.5-2	Metals	
A11N-063	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium in A11N-029.
	0.5-2	Metals	
A11N-064	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium in A11N-029.
		Dioxins	Agency request for additional dioxin analysis.
	0.5-2	Metals	
		Dioxins	
A11N-065	0-0.5	PAHs	Verification of cPAH exceedance at A11N-004.
A11N-066	0-0.5	PAHs	Verification of cPAH exceedance at A11N-012.
A11N-W01	0-0.5	SVOCs Explosives Metals Nitrates Sulfates	Downgradient of Building 9 (Nitrator).
	0.5-2	SVOCs Explosives Metals Nitrates Sulfates	
	2-6	SVOCs Explosives Metals Nitrates Sulfates	
	6-10	SVOCs Explosives Metals Nitrates Sulfates	

Table 5-141: AUS-A11P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11P-042	0-0.5	SVOCs Explosives Metals	Soil sample adjacent to Sewer line sample A11P-027. Verification of cPAH exceedance at A11P-027.
	0.5-2	SVOCs Explosives Metals	
A11P-043	0-0.5	SVOCs	Verify Bis(2-ethylhexyl) phthalate concentration at A11P-001. Low concentrations of PCE were detected in shallow soil sample from A11P-001.
	0.5-2	VOCs SVOCs	
	2-6	VOCs	
	6-10	VOCs	
A11P-044	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at A11P-006.
	0.5-2	Metals	Exceedance of Ecological Screening Criteria for metals at A11P-040.
A11P-045	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at A11P-006 and Ecological Screening Criteria for mercury at sediment sample A11P-005.
	0.5-2	Metals	
A11P-046	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at A11P-006.
	0.5-2	Metals	
A11P-047	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at A11P-006 and exceedance of Ecological Screening Criteria for metals at A11P-007.
	0.5-2	Metals	
A11P-048	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11P-007.
	0.5-2	Metals	
A11P-049	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11P-007.
	0.5-2	Metals	
A11P-050	0-0.5	Metals Dioxins	Exceedances of Ecological Screening Criteria for Metals at A11P-013 and A11P-014.
	0.5-2	Metals Dioxins	Agency request for additional dioxin analysis.
A11P-051	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11P-013 and A11P-014.
	0.5-2	Metals	
A11P-052	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11P-009, A11P-014, and A11P-015.
	0.5-2	Metals	
A11P-053	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11P-031.
	0.5-2	Metals	
A11P-054	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at A11P-031 and sediment sample A11P-032.
	0.5-2	Explosives Metals	Adjacent to Building II-1-16 (IOP TNT Service Magazine, Olin Explosive Device Testing).
	2-6	Explosives Metals	
	6-10	Explosives Metals	
A11P-055	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11P-031.
	0.5-2	Metals	
A11P-056	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11P-031 and sediment sample A11P-025.
	0.5-2	Metals	

Table 5-141: AUS-A11P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11P-057	0-0.5	PAHs Dioxins PCBs	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for TEQ at A11P-033. Agencies requested PCB analysis even although PCB detection in A11P-033 was below screening criteria.
	0.5-2	PAHs Dioxins	
A11P-058	0-0.5	PAHs Dioxins PCBs	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for TEQ at A11P-033. Agencies requested PCB analysis although PCB detection in A11P-033 was below screening criteria.
	0.5-2	PAHs Dioxins	
A11P-059	0-0.5	PAHs Dioxins PCBs	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for TEQ at A11P-033. Agencies requested PCB analysis although PCB detection in A11P-033 was below screening criteria.
	0.5-2	PAHs Dioxins	
A11P-060	0-0.5	PAHs Dioxins PCBs	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for TEQ at A11P-033. Agencies requested PCB analysis although PCB detection in A11P-033 was below screening criteria.
	0.5-2	PAHs Dioxins	
A11P-061	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at A11P-001.
	0.5-2	PAHs Metals	
A11P-062	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at A11P-001.
	0.5-2	PAHs Metals	
A11P-063	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at A11P-001.
	0.5-2	PAHs Metals	
A11P-064	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at A11P-001.
	0.5-2	PAHs Metals	
A11P-065	0-0.5	SVOCs Explosives Metals Cyanide Perchlorate	Adjacent to former Building 49. Exceedance of Ecological Screening Criteria for metals at A11P-016 and A11P-022. Boring will be advanced to 10 feet or water table surface.
	0.5-2	VOCs SVOCs Explosives Metals Cyanide Perchlorate	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-141: AUS-A11P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11P-066	0-0.5	Explosives Dioxins Metals	Adjacent to Building 85-1 (Former lead azide and lead styphnate dryer building).
	0.5-2	Explosives Dioxins Metals	Exceedance of Ecological Screening Criteria for metals at A11P-012 and A11P-015.
	2-6	VOCs SVOCs Explosives Dioxins Metals	Boring will be advanced to 10 feet or water table surface. Agency request for additional dioxin analysis.
	6-10	VOCs SVOCs Explosives Metals	
A11P-067	0-0.5	SVOCs Explosives Metals Cyanide Perchlorate	Outside doorway of former Building 48 (IOP Cooling Builidng, Olin/CSC Jet Starter manufacturing and storage). Proposed location for PA/SI sample A11P-028 which was reportedly collected in wrong location during PA/SI. Exceedances of Ecological Screening Criteria for benzo(b)fluoranthene at sediment sample A11P-029.
	0.5-2	VOCs SVOCs Explosives Metals Cyanide Perchlorate	Exceedance of Ecological Screening Criteria for metals at A11P-028. Boring will be advanced to 10 feet or water table surface.
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
A11P-068	0-0.5	SVOCs Explosives Metals Cyanide Perchlorate	South of former Building 48-1 (IOP TNT screening, Olin/CSC Storage). Proposed location for PA/SI sample A11P-034. Exceedance of Ecological Screening Criteria for metals at A11P-028.
	0.5-2	VOCs SVOCs Explosives Metals Cyanide Perchlorate	

Table 5-141: AUS-A11P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11P-069	0-0.5	Explosives Metals	Adjacent to Building 86 (possible explosives testing and Big Inch Cap Ingredient Storage).
	0.5-2	Explosives Metals	Exceedance of Ecological Screening Criteria for metals at A11P-014.
	2-6	Explosives Metals	
	6-10	Explosives Metals	
A11P-070	0-0.5	Explosives Dioxins Metals	Adjacent to Building 87 (Big Inch Cap Testing and storage). Exceedance of Ecological Screening Criteria for metals at A11P-040.
	0.5-2	Explosives Dioxins Metals	Boring will be advanced to 10 feet or water table surface. Agency request for additional dioxin analysis.
	2-6	VOCs SVOCs Explosives Dioxins Metals	
	6-10	VOCs SVOCs Explosives Metals	
A11P-071	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-041, A11P-002, and A11P-003.
	0.5-2	Metals	
A11P-072	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-041, A11P-002, and A11P-003.
	0.5-2	Metals	
A11P-073	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-002, A11P-003, A11P-040, A11P-041, and sediment sample A11P-005.
	0.5-2	Metals	
A11P-074	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-013.
	0.5-2	Metals	
A11P-075	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-015 and A11P-022.
	0.5-2	Metals	
A11P-076	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-024.
	0.5-2	Metals	
A11P-077	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-024.
	0.5-2	Metals	
A11P-078	0-0.5	Metals Dioxins	Exceedances of Ecological Screening Criteria for metals at A11P-028 and A11P-037.
	0.5-2	Metals Dioxins	Agency request for additional dioxin analysis.
A11P-079	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-037 and sediment samples A11P-038 and A11P-039.
	0.5-2	Metals	
A11P-080	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-037 and sediment sample A11P-039.
	0.5-2	Metals	

Table 5-141: AUS-A11P Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11P-081	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for PAHs and metals at sediment sample A11P-020.
	0.5-2	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at A11P-018.
A11P-082	0-0.5	PAHs Dioxins Metals	Exceedances of Ecological Screening Criteria for PAHs and metals at sediment sample A11P-020 and Human Health and Ecological Screening Criteria for metals at A11P-030.
	0.5-2	PAHs Dioxins Metals	Exceedance of Ecological Screening Criteria for metals at A11P-016. Agency request for additional dioxin analysis.
	2-6	Dioxins	
A11P-083	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at sediment samplea A11P-038 and A11P-039.
	0.5-2	Metals	
A11P-084	0-0.5	Metals	Verify EPA sample 49-03.
	0.5-2	Metals	
A11P-085	0-0.5	Metals	Verify EPA sample 50-01.
	0.5-2	Metals	
A11P-086	0-0.5	PAHs	Verification of cPAH exceedance at A11P-018.
A11P-087	0-0.5	PAHs	Verification of cPAH exceedance at A11P-020.
A11P-088	0-0.5	PAHs	Verification of cPAH exceedance at A11P-029.
A11P-089	0-0.5	PAHs	Verification of cPAH exceedance at A11P-037.
A11P-W03	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at A11P-041, A11P-002, and A11P-003.
	0.5-2	Metals	

Table 5-142: AUS-A11S Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11S-049	0-0.5	SVOCs Metals	Soil sample adjacent to Sewer line sample 11S-030. Exceedances of Ecological Screening Criteria for Metals at A11S-031.
	0.5-2	SVOCs Metals	
	2-6	SVOCs Metals	
	6-10	SVOCs Metals	
A11S-050	0-0.5	Metals Dioxins	EPA 46-02 Resample. Agency request for additional dioxin analysis.
	0.5-2	Metals Dioxins	
A11S-051	0-0.5	PAHs Metals	EPA 46-03 Resample. Exceedances of Human Health Screening Criteria for VOCs and Exceedances of Ecological Screening Criteria for Metals at A11S-034.
	0.5-2	VOCs PAHs Metals	Exceedance of Ecological Screening Criteria for metals at A11S-014 and sediment sample A11S-002.
	2-6	VOCs	
	6-10	VOCs	
A11S-052	0-0.5	Metals	EPA 46-04C Resample. Exceedances of Human Health Screening Criteria for VOCs and Exceedances of Ecological Screening Criteria for Metals at A11S-040.
	0.5-2	VOCs Metals	
	2-6	VOCs Metals	
	6-10	VOCs Metals	
A11S-053	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11S-004.
	0.5-2	Metals	
A11S-054	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11S-004.
	0.5-2	Metals	
A11S-055	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at A11S-005.
	0.5-2	Metals	
A11S-056	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at A11S-005 and Ecological Sceening Criteria for metals at sediment sample A11S-006.
	0.5-2	Metals	
A11S-057	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at A11S-005 and Ecological Sceening Criteria for metals at sediment sample A11S-006.
	0.5-2	Metals	
A11S-058	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11S-004 and A11S-W01.
	0.5-2	Metals	
A11S-059	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Metals at A11S-031and for PAHs at sediment sample A11H-022..
	0.5-2	PAHs Metals	

Table 5-142: AUS-A11S Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11S-060	0-0.5	PAHs Dioxins Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs at A11S-039. Exceedance of Ecological Screening Criteria for Arsenic at sediment sample A11S-023.
	0.5-2	PAHs Dioxins Metals	Exceedance of Ecological Screening Criteria for PAHs at sediment sample A11S-022. Agency request for additional dioxin analysis.
	2-6	PAHs	
	6-10	PAHs	
A11S-061	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs at A11S-039.
	0.5-2	PAHs Metals	Exceedance of Ecological Screening Criteria for Arsenic at sediment sample A11S-023.
A11S-062	0-0.5	PAHs	Exceedances of Human Health and Ecological Screening Criteria for PAHs at A11S-039.
	0.5-2	PAHs	
A11S-063	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11S-031.
	0.5-2	Metals	
A11S-064	0-0.5	PAHs Dioxins Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals and Human Health Screening Criteria for PAHs at A11S-027.
	0.5-2	PAHs Dioxins Metals	Exceedances of Ecological Screening Criteria for PAHs at sediment sample A11S-026.
	2-6	PAHs Dioxins Metals	Agency request for additional dioxin analysis.
A11S-065	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals and Human Health Screening Criteria for PAHs at A11S-027.
	0.5-2	PAHs Metals	
	2-6	PAHs Metals	
A11S-066	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals and Human Health Screening Criteria for PAHs at A11S-027.
	0.5-2	PAHs Metals	Exceedance of Human Health and Ecological Screening Criteria for Metals at A11S-035 and Ecological Screening Criteria for metals at A11S-037.
	2-6	PAHs Metals	
	6-10	PAHs Metals	
A11S-067	0-0.5	SVOCs Metals	Exceedance of Human Health and Ecological Screening Criteria for Metals at A11S-035. Exceedance of Ecological and Human Health Screening Criteria for PAHs at sediment sample A11S-025.
	0.5-2	SVOCs Metals	Agencies requested SVOCs analysis.
A11S-068	0-0.5	SVOCs Metals	Exceedance of Human Health and Ecological Screening Criteria for Metals at A11S-035. Exceedance of Ecological and Human Health Screening Criteria for PAHs at sediment sample A11S-025.
	0.5-2	SVOCs Metals	Agencies requested SVOCs analysis.

Table 5-142: AUS-A11S Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11S-069	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAH and Exceedances of Ecological Screening Criteria for Metals at A11S-036.
	0.5-2	PAHs Metals	
A11S-070	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAH and Exceedances of Ecological Screening Criteria for Metals at A11S-036. Verify EPA sample 44-02.
	0.5-2	PAHs Metals	
A11S-071	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAH and Exceedances of Ecological Screening Criteria for Metals at A11S-W04.
	0.5-2	PAHs Metals	Exceedance of Ecological Screening Criteria for metals and PAHs at sediment sample A11S-012 and Zinc at sediment sample A11S-014.
	2-6	PAHs	
	6-10	PAHs	
A11S-072	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAH and Exceedances of Ecological Screening Criteria for Metals at A11S-W04 and sediment sample location A11S-019.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
A11S-073	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAH and Exceedances of Ecological Screening Criteria for Metals at A11S-W04.
	0.5-2	PAHs Metals	Exceedance of Ecological Screening Criteria for metals and PAHs at sediment sample A11S-012.
	2-6	PAHs	
A11S-074	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs at A11S-W04 and Ecological Screening Criteria for metals at A11S-040.
	0.5-2	PAHs Metals	
	2-6	PAHs Metals	
A11S-075	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at A11S-040.
	0.5-2	VOCs Metals	Exceedance of Human Health Screening criteria for VOCs and Ecological Screening Criteria for Metals at A11S-034.
	2-6	VOCs Metals	Exceedances of Ecological Screening Criteria for Metals at A11S-048.
	6-10	VOCs Metals	
A11S-076	0-0.5	Metals	Exceedances of Human Health Screening Criteria for VOCs and Exceedances of Ecological Screening Criteria for Metals at A11S-034.
	0.5-2	VOCs Metals	
	2-6	VOCs	Exceedances of Ecological Screening Criteria for Metals at sediment sample A11S-002.
	6-10	VOCs	
A11S-077	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at A11S-021.
	0.5-2	PAHs Metals	
A11S-078	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at A11S-021.
	0.5-2	PAHs Metals	
	2-6	PAHs	

Table 5-142: AUS-A11S Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11S-080	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals and Human Health Criteria for PAHs at A11S-027.
	0.5-2	PAHs Metals	
	2-6	PAHs Metals	
A11S-081	0-0.5	PAHs Dioxins Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at A11S-021.
	0.5-2	PAHs VOCs Dioxins Metals	Adjacent to Building II-1-2(Building 55). Agency request for additional dioxin analysis.
	2-6	PAHs Dioxins VOCs	
	6-10	PAHs VOCs	
A11S-082	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs at A11S-021. Exceedances of Ecological Screening Criteria for Metals at A11S-018, A11S-021, and A11S-033.
	0.5-2	PAHs VOCs Metals	Adjacent to Building II-1-2(Building 55).
	2-6	VOCs	
	6-10	VOCs	
A11S-083	0-0.5	Metals	Exceedances of Human Health Screening Criteria for VOCs at A11S-W02 and Ecological Screening Criteria for Metals at A11S-015.
	0.5-2	VOCs Metals	
	2-6	VOCs	
	6-10	VOCs	
A11S-084	0-0.5	SVOCs Metals	Exceedance of Ecological Screening Criteria for Metals and di-n-butyl phthalate at A11S-047.
	0.5-2	SVOCs Metals	
A11S-085	0-0.5	SVOCs Metals	Exceedance of Ecological Screening Criteria for Metals and di-n-butyl phthalate at A11S-047.
	0.5-2	SVOCs Metals	
A11S-086	0-0.5	SVOCs Metals	Exceedance of Ecological Screening Criteria for Metals and di-n-butyl phthalate at A11S-047.
	0.5-2	SVOCs Metals	
A11S-087	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for metals at sediment sample A11S-029.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
A11S-088	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for metals at sediment sample A11S-029.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	

Table 5-142: AUS-A11S Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11S-089	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for metals at sediment sample A11S-029.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
A11S-090	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for metals at sediment sample A11S-029.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
A11S-091	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11S-017 and sediment sample A11S-016.
	0.5-2	Metals	
A11S-093	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11S-037.
	0.5-2	Metals	
A11S-094	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11S-045.
	0.5-2	Metals	
A11S-095	0-0.5	PAHs Dioxins Metals	Exceedance of Ecological Screening Criteria for metals at A11S-045. Exceedance of Ecological Screening Criteria for metals and PAHs at sediment sample A11S-046.
	0.5-2	PAHs Dioxins Metals	Agency request for additional dioxin analysis.
A11S-096	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium at A11S-W01.
	0.5-2	Metals	
A11S-097	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium at A11S-W01.
	0.5-2	Metals	
A11S-098	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11S-W01 and sediment sample A11S-006.
	0.5-2	Metals	
A11S-099	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at A11S-048.
	0.5-2	Metals	
A11S-100	0-0.5	PAHs Dioxins Metals	Exceedance of Ecological Screening Criteria for metals and PAHs at sediment sample A11S-012. Agency request for additional dioxin analysis.
	0.5-2	PAHs Dioxins Metals	
A11S-101	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for metals and PAHs at sediment sample A11S-046.
	0.5-2	PAHs Metals	
A11S-102	0-0.5	Metals	Verify EPA sample 46-01C.
	0.5-2	Metals	
A11S-103	0-0.5	Metals	Verify EPA sample 49-01.
	0.5-2	Metals	
A11S-104	0-0.5	PAHs	Verification of cPAH exceedance at A11S-008.
A11S-105	0-0.5	PAHs	Verification of cPAH exceedance at A11S-010.

Table 5-142: AUS-A11S Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
A11S-106	0-0.5	PAHs	Verification of cPAH exceedance at A11S-026.
A11S-107	0-0.5	PAHs	Verification of cPAH exceedance at A11S-027.
A11S-108	0-0.5	PAHs	Verification of cPAH exceedance at A11S-031.
A11S-109	0-0.5	PAHs	Verification of cPAH exceedance at A11S-032.
A11S-110	0-0.5	PAHs	Verification of cPAH exceedance at A11S-040.
A11S-111	0-0.5	PAHs	Verification of cPAH exceedance at A11S-042.
A11S-112	0-0.5	PAHs	Verification of cPAH exceedance at A11S-043.
A11S-113	0-0.5	PAHs	Verification of cPAH exceedance at A11S-045.
A11S-114	0-0.5	PAHs	Verification of cPAH exceedance at A11S-047.
A11S-115	0-0.5	PAHs	Verification of cPAH exceedance at A11S-022.
A11S-W07	0.5-2	Metals	Exceedance of Soil to Groundwater Criteria for metals at A11S-004.
	2-6	Metals	Soil Samples will be collected to water table surface.
	6-10	Metals	
A11S-W12	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W13	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W14	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W15	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W16	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W17	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W18	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W19	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W20	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W02 and A11S-W04.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W21	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W22	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W23	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.
A11S-W24	0.5-2	VOCs	Evaluate horizontal extent of VOCs detected in groundwater samples from AUS-A11S-W01.
	2-6	VOCs	
	6-10	VOCs	Collect samples in 4 foot intevals to bottom of well boring.

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-103 (Section 2)	0-0.5	PAHs Metals	EPA 52-01 Resample. Exceedances of Ecological Screening Criteria for Metals at 0A12-002 and sediment sample 0A12-005. Agencies request analysis for PAHs because Benzo(a)pyrene was detected at the Human Health Screening Critiera in 0A12-002.
	0.5-2	PAHs Metals	Exceedance of Human Health Screening Criteria for cPAHs at 0A12-002.
0A12-104 (Section 2)	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-002. Agencies request analysis for PAHs because Benzo(a)pyrene was detected at the Human Health Screening Critiera in 0A12-002.
	0.5-2	PAHs Metals	Exceedance of Human Health Screening Criteria for cPAHs at 0A12-002.
0A12-105 (Section 2)	0-0.5	PAHs Explosives Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A12-093. Adjacent to possible burn pads.
	0.5-2	VOCs PAHs Explosives Metals	Agencies requested samples for VOCs. Collect samples to 10 feet or groundwater.
	2-6	VOCs Explosives	
	6-10	VOCs Explosives	
0A12-106 (Section 2)	0-0.5	PAHs Explosives Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A12-008. Exceedances of Ecological Screening Criteria for Metals at 0A12-010.
	0.5-2	VOCs Explosives PAHs Metals	Agencies requested that all sampling intervals below 0.5 feet be analyzed for VOCs and that the boring be advanced to 10 feet or the water table . All samples below 10 feet will be collected in 4 foot intervals, if necessary.
	2-6	VOCs Explosives	Adjacent to possible burn pads.
	6-10	VOCs Explosives	
0A12-107 (Section 2)	0-0.5	PAHs Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-010 and for metals, PAHs and explosives at sediment sample 0A12-009.
	0.5-2	PAHs Explosives Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-108 (Section 2)	0-0.5	PAHs Explosives Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-010 and PAHs at sediment sample 0A12-012. Adjacent to possible burn pads.
	0.5-2	PAHs Explosives VOCs Metals	
	2-6	VOCs Explosives	
	6-10	VOCs Explosives	
0A12-109 (Section 2)	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for metals at 0A12-008. Exceedances of Ecological Screening Criteria for Metals at sediment sample 0A12-005. Agencies requested that all sampling intervals below 0.5 feet be analyzed for VOCs and that the boring be advanced to 10 feet or the water table . All samples below 10 feet will be collected in 4 foot intervals, if necessary.
	0.5-2	VOCs PAHs Metals	
	2-6	VOCs	
	6-10	VOCs	
0A12-110 (Section 2)	0-0.5	Explosives SVOCs Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals and Ecological Screening Criteria for Explosives and Di-n-butyl phthalate at 0A12-013. Agencies requested that all sampling intervals below 0.5 feet be analyzed for VOCs and all intervals be analyzed for explosives.
	0.5-2	VOCs Explosives SVOCs Metals	
	2-6	VOCs Explosives Metals	
	6-10	VOCs Explosives Metals	
0A12-111 (Section 2)	0-0.5	SVOCs Explosives Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals and Ecological Screening Criteria for Explosives and Di-n-butyl phthalate at 0A12-013. Exceedance of Ecological Screening Criteria for PAHs at sediment sample 0A12-012. Agencies requested that all sampling intervals below 0.5 feet be analyzed for VOCs and all intervals be analyzed for explosives.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
	6-10	VOCs Explosives Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-112 (Section 2)	0-0.5	Explosives Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A12-100. Agencies requested that all sampling intervals below 0.5 feet be analyzed for VOCs and all intervals be analyzed for explosives. The Agencies also request that the boring be advanced to 10 feet or the water table. All samples below 2 feet will be collected in 4 foot intervals, if necessary.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives	
	6-10	VOCs Explosives	
0A12-113 (Section 2)	0-0.5	Metals Explosives	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A12-100. Agencies requested that all sampling intervals below 0.5 feet be analyzed for VOCs and all intervals be analyzed for explosives. The Agencies also request that the boring be advanced to 10 feet or the water table. All samples below 2 feet will be collected in 4 foot intervals, if necessary.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives	
	6-10	VOCs Explosives	
0A12-114 (Section 2)	0-0.5	Explosives Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A12-100. Agencies requested that all sampling intervals below 0.5 feet be analyzed for VOCs and all intervals be analyzed for explosives. The Agencies also request that the boring be advanced to 10 feet or the water table. All samples below 2 feet will be collected in 4 foot intervals, if necessary.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives	
	6-10	VOCs Explosives	
0A12-115 (Section 2)	0-0.5	Explosives Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A12-100. Agencies requested that all sampling intervals below 0.5 feet be analyzed for VOCs and all intervals be analyzed for explosives. The Agencies also request that the boring be advanced to 10 feet or the water table. All samples below 2 feet will be collected in 4 foot intervals, if necessary.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives	
	6-10	VOCs Explosives	
0A12-116 (Section 2)	0-0.5	Explosives	Exceedances of Human Health and Ecological Screening Criteria for Explosives at 0A12-015.
	0.5-2	Explosives	
0A12-117 (Section 2)	0-0.5	Explosives	Exceedances of Human Health and Ecological Screening Criteria for Explosives at 0A12-015.
	0.5-2	Explosives	
0A12-118 (Section 2)	0-0.5	Explosives	Exceedances of Human Health and Ecological Screening Criteria for Explosives at 0A12-015.
	0.5-2	Explosives	
0A12-119 (Section 2)	0-0.5	Explosives	Exceedances of Human Health and Ecological Screening Criteria for Explosives at 0A12-015.
	0.5-2	Explosives	
0A12-120 (Section 3)	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A12-032. Exceedance of Ecological Screening Criteria for cadmium at 0A12-036.
	0.5-2	PAHs Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-121 (Section 3)	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A12-032 and 0A12-033.
		Metals	
	0.5-2	PAHs	
		Metals	
0A12-122 (Section 5)	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-052.
	0.5-2	Metals	
		Metals	Subsurface sampling requested by Agencies.
		Explosives	
	2-6	Metals	
		Explosives	
	6-10	Metals	
		Explosives	
0A12-123 (Section 5)	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-052.
	0.5-2	Metals	
		Explosives	Subsurface sampling requested by Agencies.
	2-6	Metals	
		Explosives	
	6-10	Metals	
		Explosives	
0A12-124 (Section 5)	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-050.
	0.5-2	Metals	
0A12-125 (Section 5)	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-050.
	0.5-2	Metals	
0A12-126 (Section 5)	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-050.
	0.5-2	Metals	
0A12-127 (Section 5)	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0A12-045 and 0A12-050.
	0.5-2	Metals	
0A12-128 (Section 5)	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at 0A12-056.
	0.5-2	Metals	Exceedance of Ecological Screening Criteria for Zinc at sediment sample 0A12-047.
0A12-129 (Section 5)	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at 0A12-056.
	0.5-2	Metals	
0A12-130 (Section 5)	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at 0A12-056.
	0.5-2	Metals	
0A12-131 (Section 5)	0-0.5	Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals at 0A12-056.
	0.5-2	Metals	
0A12-132 (Section 3)	0-0.5	Pentachlorophenol	Exceedances of Ecological Screening Criteria for Metals and Pentachlorophenol at 0A12-031.
		Metals	
	0.5-2	Pentachlorophenol	
		Metals	
0A12-133 (Section 3)	0-0.5	PCBs	Exceedances of Ecological Screening Criteria for Metals and Pentachlorophenol at 0A12-031.
		Pentachlorophenol	
		Metals	Exceedance of Ecological Screening Criteria for cadmium at 0A12-027.
	0.5-2	PCBs	
		Pentachlorophenol	Agencies request for additional PCB sampling near 0A12-096.
		Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-134 (Section 1)	0-0.5	Explosives Perchlorate PAHs Metals	At mound that was initially sampled by 0A12-081. Collect samples to 12 feet or water table surface. Verification of cPAH exceedance at 0A12-081.
	0.5-2	Explosives VOCs Perchlorate Metals	
	2-6	Explosives VOCs Perchlorate Metals	
	6-10	Explosives VOCs Perchlorate Metals	
	10-12	Explosives VOCs Perchlorate Metals	
0A12-135 (Section 2)	0-0.5	Metals	Agencies requested this boring adjacent to 0A12-004 to investigate detections of VOCs in soil sample. Soil boring will be advanced to 10 feet or the water table. Exceedances of Ecological Screening Criteria for Metals in 0A12-004 and sediment sample 0A12-005.
	0.5-2	VOCs Metals	
	2-6	VOCs	
	6-10	VOCs	
0A12-136 (Section 3)	0-0.5	Explosives Metals	North of buried Building 70. Soil samples will be collected to the water table surface. Exceedances of Ecological Screening Criteria for Metals in 0A12-033. Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Human Health and Ecological Screening Criteria for Metals at 0A12-032.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
	6-10	VOCs Explosives Metals	
0A12-137 (Section 3)	0-0.5	SVOCs Explosives Metals	Area south of former Building 76-1. Exceedance of Human Health and Ecological Screening Criteria for Metals at 0A12-039.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-138 (Section 3)	0-0.5	SVOCs Explosives Metals	Area south of former Building 76-1. Exceedance of Human Health and Ecological Screening Criteria for Metals at 0A12-039 and 0A12-040.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0A12-139 (Section 3)	0-0.5	SVOCs Explosives Metals	Irregular topography. Sample into native material.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0A12-140 (Section 3)	0-0.5	SVOCs Explosives Metals	Irregular topography. Sample into native material.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0A12-141 (Section 3)	0-0.5	PCBs	Agencies request for additional PCB sampling near 0A12-096.
	0.5-2	PCBs	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-142	0-0.5	SVOCs	Adjacent to fomer location of ASTs on western side of Former Building 71.
(Section 5)		Explosives	
		Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-060.
	0.5-2	VOCs	
		SVOCs	
		Explosives	
		Metals	
	2-6	VOCs	
		SVOCs	
		Explosives	
		Metals	
	6-10	VOCs	
		SVOCs	
		Explosives	
		Metals	
0A12-143	0-0.5	SVOCs	Former ASTs northeast of former Building INP-1-7.
(Section 5)		Explosives	Exceedance of Ecological Screening Criteria for metals at 0A12-098.
		Metals	Verification of cPAH exceedance at 0A12-098.
	0.5-2	VOCs	
		SVOCs	
		Explosives	
		Metals	
	2-6	VOCs	
		SVOCs	
		Explosives	
		Metals	
	6-10	VOCs	
		SVOCs	
		Explosives	
		Metals	
0A12-144	0-0.5	SVOCs	Adjacent to Buildings INP-1-1 and INP-1-2.
(Section 5)		Explosives	Exceedance of Ecological Screening Criteria for Zinc at sediment sample 0A12-073.
		Metals	
	0.5-2	VOCs	
		SVOCs	
		Explosives	
		Metals	
	2-6	VOCs	
		SVOCs	
		Explosives	
		Metals	
	6-10	VOCs	
		SVOCs	
		Explosives	
		Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-145	0-0.5	SVOCs	Adjacent to Buildings INP-1-3 and INP-1-4.
(Section 5)		Explosives	Exceedance of Ecological Screening Criteria for Zinc at sediment sample 0A12-075 and metals at soil samples 0A12-076 and 0A12-099.
		Dioxins	
		Metals	
	0.5-2	VOCs	
		SVOCs	Agency request for Dioxin/furan analysis.
		Explosives	
		Dioxins	
		Metals	
	2-6	VOCs	
		SVOCs	
		Explosives	
		Metals	
	6-10	VOCs	
		SVOCs	
		Explosives	
		Metals	
0A12-146	0-0.5	SVOCs	Adjacent to Buildings INP-1-5 and INP-1-6.
(Section 5)		Explosives	Exceedance of Ecological Screening Criteria for metals in sample 0A12-058.
		Metals	
	0.5-2	VOCs	
		SVOCs	
		Explosives	
		Metals	
	2-6	VOCs	
		SVOCs	
		Explosives	
		Metals	
	6-10	VOCs	
		SVOCs	
		Explosives	
		Metals	
0A12-147	0-0.5	PAHs	Exceedance of Ecological Screening Criteria for Metals at 0A12-008. Exceedance of Human Health and Ecological Screening Criteria for PAHs and Metals at 0A12-011.
(Section 2)		Metals	
	0.5-2	PAHs	
		Metals	
	2-6	PAHs	
		Metals	
	6-10	PAHs	
		Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-148 (Section 2)	0-0.5	PAHs Explosives Metals	Exceedance of Human Health and Ecological Screening Criteria for PAHs and Metals at 0A12-011. Adjacent to possible burn pads.
	0.5-2	PAHs Explosives VOCs Metals	
	2-6	PAHs Explosives VOCs Metals	
	6-10	PAHs Explosives VOCs Metals	
0A12-149 (Section 2)	0-0.5	Explosives SVOCs Metals	Exceedance of Human Health and Ecological Screening Criteria for PAHs and Metals at 0A12-011 and Metals at 0A12-013. Exceedance of Ecological Screening Criteria for Explosives and Di-n-butyl phthalate at 0A12-013.
	0.5-2	Explosives SVOCs Metals	
	2-6	PAHs Metals	
	6-10	PAHs Metals	
0A12-150 (Section 2)	0-0.5	Explosives SVOCs Metals	Exceedance of Human Health and Ecological Screening Criteria for Metals and exceedance of Ecological Screening Criteria for Explosives and Di-n-butyl phthalate at 0A12-013.
	0.5-2	Explosives SVOCs Metals	
	2-6	Metals	
	6-10	Metals	
0A12-151 (Section 2)	0-0.5	Explosives SVOCs Metals	Exceedance of Human Health and Ecological Screening Criteria for Metals and exceedance of Ecological Screening Criteria for Explosives and Di-n-butyl phthalate at 0A12-013.
	0.5-2	Explosives SVOCs Metals	
	2-6	Metals	
	6-10	Metals	
0A12-152 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0A12-030 and 0A12-038. Exceedance of Human Health and Ecological Screening Criteria for Metals at 0A12-039. Exceedance of Ecological Screening Criteria for Zinc at sediment sample 0A12-047.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0A12-153 (Section 3)	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for Metals at 0A12-039. Exceedance of Ecological Screening Criteria for Zinc at sediment sample 0A12-047.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-154 (Section 5)	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at sediment sample 0A12-069.
	0.5-2	Metals	
0A12-155 (Section 5)	0-0.5	Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at sediment sample 0A12-069.
	0.5-2	Metals	
0A12-156 (Section 2)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0A12-004.
	0.5-2	Metals	
0A12-157 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0A12-019.
	0.5-2	Metals	
0A12-158 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0A12-019 and sediment sample 0A12-021.
	0.5-2	Metals	
0A12-159 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-026, 0A12-027, 0A12-028, and sediment sample 0A12-030.
	0.5-2	Metals	
0A12-160 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0A12-026 and sediment sample 0A12-021.
	0.5-2	Metals	
0A12-161 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-038 and 0A12-053.
	0.5-2	Metals	
0A12-162 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-036 and 0A12-053.
	0.5-2	Metals	
0A12-164 (Section 3)	0.5-2	Explosives	Exceedance of Soil to Groundwater Criteria for RDX at 0A12-038.
		PAHs	Verification of cPAH exceedance at 0A12-038.
	2-6	Explosives	
0A12-165 (Section 2)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-023 and sediment sample 0A12-017.
	0.5-2	Metals	
0A12-166 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-023 and sediment sample 0A12-017.
	0.5-2	Metals	
0A12-167 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-040.
	0.5-2	Metals	
0A12-168 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-045.
	0.5-2	Metals	
0A12-169 (Section 3)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-045.
	0.5-2	Metals	
0A12-170 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-053 and 0A12-054.
	0.5-2	Metals	
0A12-171 Section 5)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-056.
0A12-172 (Section 5)	0.5-2	Metals	Exceedance of Ecological Screening Criteria for cadmium at 0A12-041.
	0-0.5	Metals	
0A12-173 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-058 and sediment sample 0A12-065.
	0.5-2	Metals	
0A12-174 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-058 and sediment sample 0A12-065.
	0.5-2	Metals	
0A12-175 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-059, 0A12-060, and 0A12-062.
	0.5-2	Metals	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-176 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium at 0A12-062.
	0.5-2	Metals	
0A12-177 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-066 and 0A12-099.
		Dioxins	
	0.5-2	Metals	Agency request for Dioxin/furan analysis.
		Dioxins	
0A12-178 (Section 5)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for cadmium at 0A12-072. Proposed in downgradient ditch.
	0.5-2	Metals	
0A12-179 (Section 1)	0-0.5	SVOCs	Exceedance of Ecological Screening Criteria for metals and Di-n-butyl phthalate at 0A12-082.
		Metals	
	0.5-2	SVOCs	
		Metals	
0A12-180 (Section 1)	0-0.5	SVOCs	Exceedance of Ecological Screening Criteria for metals and Di-n-butyl phthalate at 0A12-082.
		Explosives	Exceedance of Ecological Screening Criteria for explosives at sediment sample 0A12-080.
		Metals	
	0.5-2	SVOCs	
		Explosives	
		Metals	
0A12-181 (Section 1)	0-0.5	SVOCs	Exceedance of Ecological Screening Criteria for metals and Di-n-butyl phthalate at 0A12-082.
		Explosives	Exceedance of Ecological Screening Criteria for explosives at sediment sample 0A12-080.
		Metals	
	0.5-2	SVOCs	
		Explosives	
		Metals	
0A12-182 (Section 4)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-094.
	0.5-2	Metals	
0A12-183 (Section 4)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-094.
	0.5-2	Metals	
0A12-184 (Section 4)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-094.
	0.5-2	Metals	
0A12-185 (Section 4)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-094.
	0.5-2	Metals	
0A12-186 (Section 4)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-W01.
	0.5-2	Metals	
0A12-187 (Section 4)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-W01.
	0.5-2	Metals	
0A12-188 (Section 4)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-W01.
	0.5-2	Metals	
0A12-189 (Section 4)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at 0A12-W01.
	0.5-2	Metals	
0A12-190 (Section 2)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at sediment sample location 0A12-005.
	0.5-2	Metals	
0A12-191 (Section 2)	0-0.5	PAHs	Exceedance of Human Health and Ecological Screening Criteria for PAHs and Ecological Screening Criteria for explosives and metals at sediments sample locations 0A12-006, 0A12-007, and 0A12-009.
		Explosives	
		Metals	
	0.5-2	PAHs	
		Explosives	
		Metals	
	2-6	PAHs	
	6-10	PAHs	

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-192 (Section 2)	0-0.5	Metals	Exceedance of Ecological Screening Criteria for metals at sediment sample location 0A12-017.
	0.5-2	Metals	
0A12-193 (Section 4)	0-0.5	Explosives	Exceedance of Ecological Screening Criteria for RDX at sediment sample location 0A12-088.
	0.5-2	Explosives	
0A12-204 (Section 1)	0-0.5	PAHs	Exceedance of Human Health Screening Criteria for Naphthalene at 0A12-018.
	0.5-2	PAHs	
0A12-205 (Section 1)	0-0.5	PAHs	Exceedance of Human Health Screening Criteria for Naphthalene at 0A12-018.
	0.5-2	PAHs	
0A12-206 (Section 1)	0-0.5	PAHs	Exceedance of Human Health Screening Criteria for Naphthalene at 0A12-018.
	0.5-2	PAHs	
0A12-207 (Section 1)	0-0.5	PAHs	Exceedance of Human Health Screening Criteria for Naphthalene at 0A12-018.
	0.5-2	PAHs	
0A12-208 (Section 5)	0-0.5	PAHs	Agencies request for additional confirmation of concentrations reported in EPA samples 58-01 and PA/SI sample 0A12-076.
		Metals	
	0.5-2	PAHs	
		Metals	
0A12-209 (Section 1)	0-0.5	SVOCs	Exceedance of Ecological Screening Criteria for metals and Di-n-butyl phthalate at 0A12-082.
		Metals	
	0.5-2	SVOCs	
		Metals	
0A12-210 (Section 5)	0-0.5	Dioxins	Exceedance of Ecological Health Screening Criteria for TEQ at 0A12-099.
	0.5-2	Dioxins	
0A12-211 (Section 5)	0-0.5	Dioxins	Exceedance of Ecological Health Screening Criteria for TEQ at 0A12-099.
	0.5-2	Dioxins	
0A12-212 (Section 5)	0-0.5	Dioxins	Exceedance of Ecological Health Screening Criteria for TEQ at 0A12-099.
	0.5-2	Dioxins	
0A12-213 (Section 5)	0-0.5	Dioxins	Exceedance of Ecological Health Screening Criteria for TEQ at 0A12-099.
	0.5-2	Dioxins	
0A12-214 (Section 2)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-001.
0A12-215 (Section 2)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-013.
0A12-216 (Section 3)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-026.
0A12-217 (Section 3)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-028.
0A12-218 (Section 3)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-031.
0A12-219 (Section 3)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-033.
0A12-220 (Section 3)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-035.
0A12-221 (Section 5)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-051.
0A12-222 (Section 5)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-062.
0A12-223 (Section 4)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-089.
0A12-224 (Section 4)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-W01.
0A12-225 (Section 3)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-030.
0A12-W04 (Section 2)	0-0.5	PAHs	Verification of cPAH exceedance at 0A12-008.

Table 5-143: AUS-0A12 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A12-W05 (Section 3)	0-0.5	Explosives Metals Pentachlorophenol	Exceedance of Ecological Screening Criteria for Cadmium and Pentachlorphenol at 0A12-031. Samples will be collected to the water table surface.
	0.5-2	VOCs Explosives Metals Pentachlorophenol	
	2-6	VOCs Explosives Metals Pentachlorophenol	
	6-10	VOCs Explosives Metals Pentachlorophenol	
0A12-W06 (Section 2)	0.5-2	VOCs	Adjacent to 0A12-002. Samples will be collected to the water table surface.
	2-6	VOCs	
	6-10	VOCs	
0A12-W07 (Section 1)	0-0.5	Explosives	Adjacent to 0A12-080. Samples will be collected to the water table surface.
	0.5-2	Explosives	
	2-6	Explosives	
	6-10	Explosives	
0A12-W08 (Section 2)	0-0.5	Explosives Metals	Adjacent to 0A12-100. Soil boring will be advanced to 10 feet or the water table.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
	6-10	VOCs Explosives Metals	
0A12-W09 (Section 2)	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at sediment sample 0A12-005.
	0.5-2	Metals	
0A12-W13 (Section 3)	0.5-2	Explosives	Exceedance of Soil to Groundwater Criteria for Explosives at 0A12-032.
	2-6	Explosives	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-032	0-0.5	SVOCs Explosives Metals	Exceedances of Human Health Screening Criteria for Explosives and PAHs and Ecological Screening Criteria for Metals, Explosives, and SVOCs at 0A13-004.
	0.5-2	SVOCs Explosives Metals	
0A13-033	0-0.5	SVOCs	Exceedances of Human Health and Ecological Screening Criteria for SVOCs at 0A13-029.
	0.5-2	SVOCs	
0A13-034	0-0.5	SVOCs	Exceedances of Human Health and Ecological Screening Criteria for SVOCs at 0A13-029.
	0.5-2	SVOCs	
0A13-035	0-0.5	SVOCs	Exceedances of Human Health and Ecological Screening Criteria for SVOCs at 0A13-029.
	0.5-2	SVOCs	
0A13-036	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-018.
	0.5-2	PAHs	
0A13-037	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-018.
	0.5-2	PAHs	
0A13-038	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-018.
	0.5-2	PAHs	
0A13-039	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A13-014.
	0.5-2	PAHs Metals	
0A13-040	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A13-014.
	0.5-2	PAHs Metals	
0A13-041	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0A13-014.
	0.5-2	PAHs Metals	
0A13-042	0-0.5	SVOCs Explosives Metals	Exceedances of Human Health Screening Criteria for PAHs and Explosives and Ecological Screening Criteria for SVOCs, Metals and Explosives at 0A13-004.
	0.5-2	SVOCs Explosives Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Metals at 0A13-005.
0A13-043	0-0.5	SVOCs Explosives Metals	Exceedances of Human Health Screening Criteria for PAHs and Explosives and Ecological Screening Criteria for SVOCs, Metals and Explosives at 0A13-004.
	0.5-2	SVOCs Explosives Metals	
0A13-044	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Metals at 0A13-005.
	0.5-2	PAHs Metals	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-045	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Metals at 0A13-005.
	0.5-2	PAHs Metals	
0A13-046	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-008.
	0.5-2	PAHs	
0A13-047	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-008.
	0.5-2	PAHs	
0A13-048	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-008.
	0.5-2	PAHs	
0A13-049	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-007.
	0.5-2	PAHs	
0A13-050	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-007.
	0.5-2	PAHs	
0A13-051	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-007.
	0.5-2	PAHs	
0A13-052	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-027.
	0.5-2	PAHs	
0A13-053	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-027.
	0.5-2	PAHs	
0A13-054	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-027.
	0.5-2	PAHs	
0A13-055	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-016.
	0.5-2	PAHs	
0A13-056	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-016.
	0.5-2	PAHs	
0A13-057	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-016.
	0.5-2	PAHs	
0A13-058	0-0.5	PAHs	Exceedances of Human Health Screening Criteria for PAHs at 0A13-016.
	0.5-2	PAHs	
0A13-059	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-060	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-061	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-062	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-063	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-064	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-065	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-066	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-067	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-068	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-069	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-070	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-071	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-072	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-073	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-074	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-075	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-076	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-077	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-078	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-079	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-080	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-081	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-082	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-083	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-084	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-085	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-086	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-087	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-088	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-089	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-090	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-091	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-092	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-093	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-094	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-095	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-096	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-097	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-098	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-099	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-100	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-101	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-102	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-103	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-104	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-105	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-106	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-107	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-108	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-109	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-110	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-111	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-112	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-113	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-114	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-115	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-116	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-117	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-118	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-119	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-120	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	

Table 5-144: AUS-0A13 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A13-121	0-0.5	SVOCs Explosives Metals	In front of doorway/dock of igloo.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs	
	6-10	VOCs	
0A13-122	0-0.5	Explosives	Exceedance of Ecological Screening Criteria for Explosives at 0A13-010.
	0.5-2	Explosives	
0A13-123	0-0.5	Explosives	Exceedance of Ecological Screening Criteria for Explosives at 0A13-010.
	0.5-2	Explosives	
0A13-124	0-0.5	Explosives	Exceedance of Ecological Screening Criteria for Explosives at 0A13-010.
	0.5-2	Explosives	
0A13-125	0-0.5	Explosives	Exceedance of Ecological Screening Criteria for Explosives at 0A13-011.
	0.5-2	Explosives	
0A13-126	0-0.5	Explosives	Exceedance of Ecological Screening Criteria for Explosives at 0A13-011.
	0.5-2	Explosives	
0A13-127	0-0.5	Explosives	Exceedance of Ecological Screening Criteria for Explosives at 0A13-011.
	0.5-2	Explosives	
0A13-128	0-0.5	Metals	Exceedance of Ecological Screening Criteria for chromium at 0A13-013.
	0.5-2	Metals	
0A13-129	0-0.5	Metals	Exceedance of Ecological Screening Criteria for chromium at 0A13-013.
	0.5-2	Metals	
0A13-130	0-0.5	Metals	Exceedance of Ecological Screening Criteria for chromium at 0A13-013.
	0.5-2	Metals	
0A13-131	0-0.5	SVOCs	Exceedance of Ecological Screening Criteria for SVOCs at 0A13-017.
	0.5-2	SVOCs	
0A13-132	0-0.5	SVOCs	Exceedance of Ecological Screening Criteria for SVOCs at 0A13-017.
	0.5-2	SVOCs	
0A13-133	0-0.5	SVOCs	Exceedance of Ecological Screening Criteria for SVOCs at 0A13-017.
	0.5-2	SVOCs	
0A13-134	0-0.5	Metals	Exceedance of Ecological Screening Criteria for selenium at 0A13-031.
	0.5-2	Metals	
0A13-135	0-0.5	Metals	Exceedance of Ecological Screening Criteria for selenium at 0A13-031.
	0.5-2	Metals	
0A13-136	0-0.5	Metals	Exceedance of Ecological Screening Criteria for selenium at 0A13-031.
	0.5-2	Metals	
0A13-137	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-002.
0A13-138	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-012.
0A13-139	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-020.
0A13-140	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-021.
0A13-141	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-023.
0A13-142	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-024.
0A13-143	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-026.
0A13-144	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-015.
0A13-145	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-010.
0A13-W02	0-0.5	PAHs	Verification of cPAH exceedance at 0A13-002.

Table 5-145: AUS-0062 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0062-009	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0062-003 and sediment sample 0062-004.
	0.5-2	Metals	
0062-010	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0062-003.
	0.5-2	Metals	
0062-011	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0062-003.
	0.5-2	Metals	
0062-012	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0062-006 and sediment sample 0062-007.
	0.5-2	Metals	
0062-013	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0062-006 and sediment sample 0062-007.
	0.5-2	Metals	
0062-014	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0062-006 and sediment sample 0062-007.
	0.5-2	Metals	
0062-015	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0062-006 and sediment sample 0062-007.
	0.5-2	Metals	
0062-018	0-0.5	Explosives Metals	Adjacent to 0062-008 and on soil mound. Samples below 2 feet will be collected in 4 foot intervals to water table.
	0.5-2	VOCs Explosives Metals	
	2-6	VOCs Explosives Metals	
	6-10	VOCs Explosives Metals	
0062-019	0-0.5	Explosives Metals	Within “grassy area with hand dug pits and flag markers”. Exceedance of Ecological Screening Criteria for Metals at 0062-002 and 0062-003.
	0.5-2	Explosives Metals	
	2-6	Explosives Metals	
	6-10	Explosives Metals	
0062-020	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0062-001.
	0.5-2	Metals	
0062-021	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Chromium at 0062-001.
	0.5-2	Metals	
0062-022	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0062-001 and 0062-002.
	0.5-2	Metals	
0062-023	0-0.5	Metals	Exceedances of Ecological Screening Criteria for metals at 0062-002.
	0.5-2	Metals	

Table 5-146: AUS-0065 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0065-010	0-0.5	SVOCs Metals	EPA 65-02 Resample. Exceedance of Ecological Screening Criteria for Metals at 0065-006, 0065-007, and 0065-009.
	0.5-2	SVOCs Metals	
0065-011	0-0.5	SVOCs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Metals and/or SVOCs at 0065-001, 0065-002, and 0065-005.
	0.5-2	SVOCs Metals	
	2-6	SVOCs	
	6-10	SVOCs	
0065-012	0-0.5	SVOCs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Metals and/or SVOCs at 0065-001, 0065-002, and 0065-005.
	0.5-2	SVOCs Metals	
	2-6	SVOCs	
	6-10	SVOCs	
0065-013	0-0.5	SVOCs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Metals and/or SVOCs at 0065-001, 0065-002, and 0065-005.
	0.5-2	SVOCs Metals	
	2-6	SVOCs	
	6-10	SVOCs	
0065-014	0-0.5	SVOCs Metals	Exceedances of Human Health Screening Criteria for PAHs and Ecological Screening Criteria for Metals and/or SVOCs at 0065-001, 0065-002, 0065-005, 0065-008, and 0065-009.
	0.5-2	SVOCs Metals	
	2-6	SVOCs	
	6-10	SVOCs	
0065-015	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0065-003 and 0065-007.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
0065-016	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0065-003.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
0065-017	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0065-003.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	

Table 5-146: AUS-0065 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0065-018	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0065-006.
	0.5-2	Metals	
0065-019	0-0.5	PAHs	Verification of cPAH exceedance at 0065-004.
0065-020	0-0.5	PAHs	Verification of cPAH exceedance at 0065-006.
0065-021	0-0.5	PAHs	Verification of cPAH exceedance at 0065-008.
0065-022	0-0.5	PAHs	Verification of cPAH exceedance at 0065-009.
AUS-0065-W01	0-0.5	Explosives Metals	Adjacent to 0065-002.
	0.5-2	SVOCs VOCs Explosives Metals	
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	

Table 5-147: AUS-0066 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0066-009	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0066-008.
	0.5-2	Metals	
0066-010	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0066-008.
	0.5-2	Metals	
0066-011	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0066-008 and 0066-002.
	0.5-2	Metals	
0066-012	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0066-002.
	0.5-2	Metals	
0066-014	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0066-005.
	0.5-2	Metals	
0066-015	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0066-005.
	0.5-2	Metals	
0066-016	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0066-005 and 0066-002.
	0.5-2	Metals	
0066-020	0-0.5	Explosives Metals	Middle of depression south of the “berm with red clay bricks”.
	0.5-2	Explosives Metals	
	2-6	Explosives Metals	
	6-10	Explosives Metals	
0066-021	0-0.5	PAHs	Verification of cPAH exceedance at 0066-004.
0066-022	0-0.5	PAHs	Verification of cPAH exceedance at 0066-003.

Table 5-148: AUS-0067 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0067-004	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0067-001 and 0067-003.
	0.5-2	Metals	
0067-005	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0067-001 and 0067-003.
	0.5-2	Metals	
0067-006	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0067-001.
	0.5-2	Metals	
0067-007	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0067-001.
	0.5-2	Metals	
0067-008	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0067-003.
	0.5-2	Metals	
0067-009	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0067-003.
	0.5-2	Metals	
0067-012	0-0.5	PAHs Metals Explosives	Adjacent to 0067-001. Install through soil mound into approximately 6 feet of native soil. Verification of cPAH exceedance at 0067-001.
	0.5-2	PAHs Metals Explosives	
	2-6	PAHs Metals Explosives	
	6-10	PAHs Metals Explosives	
AUS-0067-W01	0-0.5	Explosives Metals	Downgradient and adjacent to cistern. Soil samples to be collected to the water table surface.
	0.5-2	Explosives Metals	
	2-6	Explosives Metals	
	6-10	Explosives Metals	

Table 5-149: AUS-0069 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0069-019	0-0.5	SVOCs Explosives Metals	Areas of debris in 1943 and 1951 air photos.
	0.5-2	SVOCs Explosives Metals	
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
0069-020	0-0.5	SVOCs Explosives Metals	Areas of debris in 1943 and 1951 air photos. Exceedance of Ecological Screening Criteria for Metals at 0069-018.
	0.5-2	SVOCs Explosives Metals	
0069-021	0-0.5	SVOCs Explosives Metals	Areas of debris in 1943 and 1951 air photos.
	0.5-2	SVOCs Explosives Metals	
0069-022	0-0.5	SVOCs Explosives Metals	Areas of debris in 1943 and 1951 air photos.
	0.5-2	SVOCs Explosives Metals	
0069-023	0-0.5	SVOCs Explosives Metals	Areas of debris in 1943 and 1951 air photos.
	0.5-2	SVOCs Explosives Metals	
0069-024	0-0.5	SVOCs Metals	Along bank of lake.
	0.5-2	SVOCs Metals	
0069-025	0-0.5	SVOCs Metals	Along bank of lake.
	0.5-2	SVOCs Metals	

Table 5-149: AUS-0069 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0069-026	0-0.5	SVOCs Metals	Along bank of lake. Exceedances of Human Health and Ecological Screening Criteria for Metals in 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, and 0069-012.
	0.5-2	SVOCs Metals	
0069-027	0-0.5	SVOCs Metals	Along bank of lake. Exceedances of Human Health and Ecological Screening Criteria for Metals in 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, and 0069-012.
	0.5-2	SVOCs Metals	
0069-028	0-0.5	SVOCs Metals	Along bank of lake. Exceedances of Human Health and Ecological Screening Criteria for Metals in soil samples 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, 0069-012, and sediment sample 0069-010.
	0.5-2	SVOCs Metals	
0069-029	0-0.5	SVOCs Metals	Along bank of lake. Exceedances of Human Health and Ecological Screening Criteria for Metals in 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, and 0069-012.
	0.5-2	SVOCs Metals	
0069-030	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0069-016.
	0.5-2	PAHs Metals	
0069-031	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0069-016.
	0.5-2	PAHs Metals	
0069-032	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0069-016.
	0.5-2	PAHs Metals	
0069-033	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0069-018.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0069-034	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0069-018. Agency request for VOC analysis due to PCE detection at depth of 2 feet. Agency request for explosive analysis. Boring will be extended to groundwater or 10 feet, whichever is deeper. Samples below 2 feet will be collected in 4-foot intervals.
		Explosives	
	0.5-2	Metals	
		Explosives	
	2-6	Metals	
		Explosives	
		VOCs	
	6-10	Metals	
		Explosives	
		VOCs	
0069-035	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals in 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, and 0069-012.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	

Table 5-149: AUS-0069 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0069-036	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals in 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, and 0069-012.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0069-037	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals in soil samples 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, 0069-012 and sediment sample 0069-010..
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0069-038	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals in 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, and 0069-012.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0069-039	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals in 0069-004, 0069-005, 0069-006, 0069-007, 0069-009, and 0069-012.
	0.5-2	Metals	
	2-6	Metals	
	2-6	Explosives	Agency requested additional analysis for explosives.
	6-10	Metals	
	6-10	Explosives	
0069-040	0-0.5	Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals in 0069-004, 0069-005, 0069-006, 0069-007, 0069-008, 0069-009, and 0069-012.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0069-041	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for PAHs and Exceedances of Ecological Screening Criteria for Metals at 0069-016.
	0.5-2	PAHs Metals	
	2-6	PAHs	
	6-10	PAHs	
0069-052	0-0.5	Metals	Agency request for additional soil samples collected for metals and explosives analysis.
	0.5-2	Metals	
	2-6	Metals	
	2-6	Explosives	
	6-10	Metals	
	6-10	Explosives	
0069-053	0-0.5	Metals	Agency request for additional soil samples collected for metals and explosives analysis.
	0.5-2	Metals	
	2-6	Metals	
	2-6	Explosives	
	6-10	Metals	
	6-10	Explosives	
0069-054	0-0.5	Metals	Agency request for additional soil samples collected for metals analysis.
	0.5-2	Metals	
	2-6	Metals	Exceedance of Ecological Screening Criteria for Metals at sediment sample 0069-010.
	6-10	Metals	
0069-055	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0069-001.
	0.5-2	Metals	
0069-056	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0069-001.
	0.5-2	Metals	

Table 5-149: AUS-0069 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0069-057	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0069-015.
	0.5-2	Metals	
0069-058	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0069-015.
	0.5-2	Metals	
0069-059	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0069-015.
	0.5-2	Metals	
0069-060	0-0.5	PAHs	Verification of cPAH exceedance at 0069-007.
0069-061	0-0.5	PAHs	Verification of cPAH exceedance at 0069-011.
0069-062	0-0.5	PAHs	Verification of cPAH exceedance at 0069-012.
0069-063	0-0.5	PAHs	Verification of cPAH exceedance at 0069-004.
0069-064	0-0.5	PAHs	Verification of cPAH exceedance at 0069-002.
0069-065	0-0.5	PAHs	Verification of cPAH exceedance at 0069-010.

Table 5-150: AUS-0001 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0001-006	0-0.5	PAHs Explosives Metals	Ground discoloration noted in 1965 aerial photo, in parking area at east end of site.
	0.5-2	VOCs PAHs Explosives Metals	
0001-007	0-0.5	PAHs Metals	Exceedances of Human Health and Ecological Screening Criteria for Metals and PAHs at 0001-004 and Human Health and Exceedances of Ecological Screening Criteria for Metals at 0001-003. Boring will extend to 10 feet or to water table with standard intervals.
	0.5-2	PAHs Metals VOCs	
	2-6	PAHs Metals VOCs	
	6-10	PAHs Metals VOCs	
0001-008	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for Metals and PAHs at 0001-004 and Human Health and Exceedances of Ecological Screening Criteria for Metals at 0001-003. Boring will extend to 10 feet or to water table with standard intervals.
	0.5-2	PAHs Metals VOCs	
	2-6	PAHs Metals VOCs	
	6-10	PAHs Metals VOCs	
0001-009	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for Metals and PAHs at 0001-004 and Human Health and Exceedances of Ecological Screening Criteria for Metals at 0001-003.
	0.5-2	PAHs Metals	
0001-010	0-0.5	PAHs Metals	Exceedances of Human Health Screening Criteria for Metals and PAHs at 0001-004 and Human Health and Exceedances of Ecological Screening Criteria for Metals at 0001-003. Upgradient boring from monitoring well 0001-W01 which contained trace VOCs in the groundwater sample. Boring will extend to 10 feet or to water table with standard intervals.
	0.5-2	PAHs VOCs Metals	
	2-6	PAHs VOCs Metals	
	6-10	PAHs VOCs Metals	
0001-011	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0001-001.
	0.5-2	Metals	
0001-012	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0001-001.
	0.5-2	Metals	
0001-013	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0001-001.
	0.5-2	Metals	
0001-014	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0001-001.
	0.5-2	Metals	
0001-015	0-0.5	PAHs	Verification of cPAH exceedance at 0001-005.

Table 5-151: AUS-0002 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0002-006	0-0.5	SVOCs Explosives Metals	Former WWTP Adjacent to Building.
	0.5-2	SVOCs Explosives Metals	
0002-007	0-0.5	SVOCs Explosives Metals	Sewer manholes leading from the treatment plant to the lagoons.
	0.5-2	SVOCs Explosives Metals	
0002-008	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0002-001 and Human Health and Ecological Screening Criteria for metals at sediment sample 0002-003.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0002-009	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0002-001 and Human Health and Ecological Screening Criteria for metals at sediment sample 0002-003.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0002-010	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0002-001 and Human Health and Ecological Screening Criteria for metals at sediment sample 0002-003.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	
0002-011	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0002-001 and Human Health and Ecological Screening Criteria for metals at sediment sample 0002-003.
	0.5-2	Metals	
	2-6	Metals	
	6-10	Metals	

Table 5-151: AUS-0002 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0002-014	0-0.05	SVOCs Explosives Pesticides PCBs Metals	In vicinity of former WWTP treatment pits.
	0.5-2	VOCs SVOCs Explosives Pesticides PCBs Metals	
	2-6	VOCs SVOCs Explosives Pesticides PCBs Metals	
	6-10	VOCs SVOCs Explosives Pesticides PCBs Metals	
0002-015	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0002-004.
	0.5-2	Metals	
0002-016	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0002-004.
	0.5-2	Metals	
0002-017	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0002-004.
	0.5-2	Metals	

Table 5-152: AUS-0018 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0018-012	0-0.5	SVOCs Explosives Metals	EPA 18-01 Resample. Exceedance of Ecological Screening Criteria for cadmium at 0018-010 and 0018-011.
	0.5-2	SVOCs VOCs Explosives Metals	Just east of the Station Ordill and Yard Office.
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
0018-013	0-0.5	PAHs Explosives	Former railroad track areas.
		Metals	
	0.5-2	PAHs VOCs	
		Explosives	
		Metals	
0018-014	0-0.5	PAHs Explosives	Former railroad track areas.
		Metals	
	0.5-2	PAHs VOCs	
		Explosives	
		Metals	
0018-015	0-0.5	PAHs Explosives	Former railroad track areas. Exceedance of Ecological Screening Criteria for cadmium at 0018-010 and 0018-011.
		Metals	
	0.5-2	PAHs VOCs	
		Explosives	
		Metals	
0018-016	0-0.5	PAHs Explosives	Former railroad track areas.
		Metals	
	0.5-2	PAHs VOCs	
		Explosives	
		Metals	

Table 5-152: AUS-0018 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0018-017	0-0.5	SVOCs Explosives Metals	Exceedances of Ecological Screening Criteria for Chromium at 0018-001 and 0018-002. Vicinity of the former fuel oil column.
	0.5-2	SVOCs VOCs Explosives Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0018-003.
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
0018-018	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Chromium at 0018-001 and 0018-002. Exceedance of Human Health and Ecological Screening Criteria for metals at sediment sample 0018-003.
	0.5-2	PAHs Metals	
0018-019	0-0.5	SVOCs Explosives Metals	Exceedances of Ecological Screening Criteria for Chromium at 0018-001 and 0018-002. Vicinity of the former fuel oil column.
	0.5-2	SVOCs VOCs Explosives Metals	Exceedance of Human Health and Ecological Screening Criteria for metals at 0018-003.
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
0018-020	0-0.5	PAHs Metals	Exceedances of Ecological Screening Criteria for Chromium at 0018-001 and 0018-002. Exceedance of Human Health and Ecological Screening Criteria for metals at sediment sample 0018-003.
	0.5-2	PAHs Metals	
0018-022	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for cadmium at 0018-010 and 0018-011.
	0.5-2	PAHs Metals	Agencies request that all samples collected to depth of 2 feet be analyzed for PAHs.
0018-023	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for cadmium at 0018-010 and 0018-011.
	0.5-2	PAHs Metals	Agencies request that all samples collected to depth of 2 feet be analyzed for PAHs.

Table 5-152: AUS-0018 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0018-024	0-0.5	SVOCs Explosives Metals	Exceedance of Ecological Screening Criteria for metals at 0018-004 and 0018-005. Vicinity of receiving yards.
	0.5-2	SVOCs VOCs Explosives Metals	
	2-6	SVOCs VOCs Explosives Metals	
	6-10	SVOCs VOCs Explosives Metals	
0018-025	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at 0018-004. Agencies request that all samples collected to depth of 2 feet be analyzed for PAHs.
	0.5-2	PAHs Metals	
0018-026	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at 0018-004. Agencies request that all samples collected to depth of 2 feet be analyzed for PAHs.
	0.5-2	PAHs Metals	
0018-027	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at 0018-004. Agencies request that all samples collected to depth of 2 feet be analyzed for PAHs.
	0.5-2	PAHs Metals	
0018-028	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at 0018-005. Agencies request that all samples collected to depth of 2 feet be analyzed for PAHs.
	0.5-2	PAHs Metals	
0018-029	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at 0018-005. Agencies request that all samples collected to depth of 2 feet be analyzed for PAHs.
	0.5-2	PAHs Metals	
0018-030	0-0.5	PAHs Metals	Exceedance of Ecological Screening Criteria for metals at 0018-005. Agencies request that all samples collected to depth of 2 feet be analyzed for PAHs.
	0.5-2	PAHs Metals	

Table 5-153: AUS-0043 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0043-006	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals and PAHs at 0043-001.
	0.5-2	PAHs Metals	
0043-007	0-0.5	PAHs Metals	Exceedances of Ecological and Human Health Screening Criteria for Metals and PAHs at Adjacent to 0043-001.
	0.5-2	PAHs Metals	
0043-008	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals and Explosives at 0043-002.
	0.5-2	Explosives Metals	
0043-009	0-0.5	Explosives Metals	Exceedances of Ecological Screening Criteria for Metals and Explosives at 0043-002 and for Metals at 0043-005.
	0.5-2	Explosives Metals	
0043-012	0-0.5	SVOCs Explosives Metals	Adjacent to former sump located in northwest corner of Building A-3-4. Exceedance of Ecological Screening Criteria for Metals and Explosives at 0043-002.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0043-013	0-0.5	PAHs Metals	Adjacent to Building A-3-4. Exceedance of Ecological and Human Health Screening Criteria for Metals and PAHs at 0043-001.
	0.5-2	PAHs Metals	
0043-014	0-0.5	PAHs Metals	Adjacent to Building A-3-4. Exceedance of Ecological and Human Health Screening Criteria for Metals and PAHs at 0043-001.
	0.5-2	PAHS Metals	
0043-015	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0043-004 and 0043-005.
	0.5-2	Metals	
0043-016	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0043-005.
	0.5-2	Metals	
0043-017	0-0.5	Metals	Exceedance of Ecological Screening Criteria for Metals at 0043-004.
	0.5-2	Metals	

Table 5-153: AUS-0043 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
AUS-0043-W01	0-0.5	SVOCs Explosives Metals Perchlorate	Adjacent to former sump as requested by Agencies.
	0.5-2	VOCs SVOCs Explosives Metals Perchlorate	
	2-6	VOCs SVOCs Explosives Metals Perchlorate	
	6-10	VOCs SVOCs Explosives Metals Perchlorate	

Table 5-154: AUS-0060 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0060-007	0-0.5	Metals	EPA 60-01 Resample.
	0.5-2	Metals	
0060-008	0-0.5	Explosives Metals	Adjacent to Building FS-2-2. Exceedances of Ecological Screening Criteria for Metals at 0060-004.
	0.5-2	Explosives Metals	
0060-009	0-0.5	Explosives Metals	Adjacent to Building FS-2-1. Exceedances of Ecological Screening Criteria for Metals at 0060-004.
	0.5-2	Explosives Metals	
0060-010	0-0.5	Explosives Metals	Adjacent to Building FS-1-2. Exceedances of Ecological Screening Criteria for Metals at 0060-002.
	0.5-2	Explosives Metals	
0060-011	0-0.5	Explosives Metals	Adjacent to Building FS-1-1.
	0.5-2	Explosives Metals	
0060-012	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-002.
	0.5-2	Metals	
0060-013	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-002.
	0.5-2	Metals	
0060-014	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-002.
	0.5-2	Metals	
0060-015	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-004.
	0.5-2	Metals	
0060-016	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-004.
	0.5-2	Metals	
0060-017	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-004.
	0.5-2	Metals	
0060-020	0-0.5	Explosives Metals	Requested by FFA parties to be placed adjacent to 0060-005. Collect soil samples to water table surface..
	0.5-2	Explosives Metals	
	2-6	Explosives Metals	
	6-10	Explosives Metals	
0060-021	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-005.
	0.5-2	Metals	
0060-022	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-005.
	0.5-2	Metals	
0060-023	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at 0060-005.
	0.5-2	Metals	
0060-024	0-0.5	Metals	Exceedances of Ecological Screening Criteria for Metals at sediment sample 0060-003.
	0.5-2	Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-007	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-008	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-009	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-010	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-011	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-012	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-013	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-014	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-015	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-016	0-0.5	SVOCs Metals	EPA 61-1 Resample. Exceedance of Ecological and Human Health Screening criteria for metals and SVOCs at 0061-001. Exceedance of Human Health and Ecological Screening Criteria for metals at 0061-005 and 0061-006.
	0.5-2	SVOCs Metals	
	2-6	SVOCs Metals	
	6-10	SVOCs Metals	
0061-017	0-0.5	PAHs Metals Explosives	Exceedances of Ecological and Human Health Screening Criteria for Metals and PAHs at 0061-002. Exceedance of Ecological Screening Criteria for Cadmium at 0061-004.
	0.5-2	PAHs Metals Explosives	
	2-6	PAHs Metals Explosives	
	6-10	PAHs Metals Explosives	
0061-018	0-0.5	PAHs Metals Explosives	Exceedances of Ecological and Human Health Screening Criteria for Metals and PAHs at 0061-002. Exceedance of Ecological Screening Criteria for Cadmium at 0061-003 and 0061-004.
	0.5-2	PAHs Metals Explosives	
	2-6	PAHs Metals Explosives	
	6-10	PAHs Metals Explosives	
0061-019	0-0.5	SVOCs Metals Explosives	Exceedances of Ecological and Human Health Screening Criteria for Metals and SVOCs at 0061-001. Exceedance of Ecological Screening Criteria for Cadmium at 0061-003.
	0.5-2	SVOCs Metals Explosives	Exceedances of Ecological and Human Health Screening Criteria for Metals at 0061-005 and 0061-006.
	2-6	SVOCs Metals Explosives	
	6-10	SVOCs Metals Explosives	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-020	0-0.5	SVOCs Metals Explosives	Exceedances of Ecological and Human Health Screening Criteria for Metals and SVOCs at 0061-001. Exceedances of Ecological and Human Health Screening Criteria for Metals at 0061-005 and 0061-006.
	0.5-2	SVOCs Metals Explosives	
	2-6	SVOCs Metals Explosives	
	6-10	SVOCs Metals Explosives	
0061-021	0-0.5	PAHs Metals Explosives	Exceedances of Ecological and Human Health Screening Criteria for PAHs and Metals at 0061-002. Exceedance of Ecological Screening Criteria for Cadmium at 0061-004.
	0.5-2	PAHs Metals Explosives	
	2-6	PAHs Metals Explosives	
	6-10	PAHs Metals Explosives	
0061-022	0-0.5	SVOCs Metals Explosives	Exceedances of Ecological and Human Health Screening Criteria for Metals and SVOCs at 0061-001 and 0061-002. Exceedance of Ecological Screening Criteria for Cadmium at 0061-003 and 0061-006.
	0.5-2	SVOCs Metals Explosives	Exceedance of Human Health and Ecological Screening Criteria for metals at 0061-005.
	2-6	SVOCs Metals Explosives	
	6-10	SVOCs Metals Explosives	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-023	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-024	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-025	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-026	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-027	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-028	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-029	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-030	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-031	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-032	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-033	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-034	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-035	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-036	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-037	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	

Table 5-155: AUS-0061 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0061-038	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-039	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-040	0-0.5	SVOCs Explosives Metals	Entire portion of site designated as the "disposal area". Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Explosives Metals	
	2-6	VOCs SVOCs Explosives Metals	
	6-10	VOCs SVOCs Explosives Metals	
0061-041	0-0.5	PAHs	Verification of cPAH exceedance at 0061-005.

Table 5-156: AUS-106A Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
106A-013	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	
106A-014	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	
106A-015	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	

Table 5-156: AUS-106A Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
106A-016	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	
106A-017	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	
106A-018	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	

Table 5-156: AUS-106A Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
106A-019	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	
106A-020	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	
106A-021	0-0.5	SVOCs Metals Explosives	Drum Disposal Area. Collect samples to 10 feet or the water table surface, whatever is deeper at 4 foot intervals below depth of 10 feet.
	0.5-2	VOCs SVOCs Metals Explosives	
	2-6	VOCs SVOCs Metals Explosives	
	6-10	VOCs SVOCs Metals Explosives	

Table 5-157: AUS-0A03 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A03-001	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 1-3.
	0.5-2	SVOCs Explosives Metals	
0A03-002	0-0.5	VOCs SVOCs Explosives Metals	Adjacent to Building FAM 1-4.
	0.5-2	VOCs SVOCs Explosives Metals	
0A03-003	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 1-4 Loading Docks.
	0.5-2	VOCs SVOCs Explosives Metals	
0A03-004	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 1-2 Loading Docks.
	0.5-2	SVOCs Explosives Metals	
0A03-005	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 1-7 Loading Docks.
	0.5-2	SVOCs Explosives Metals	
0A03-006	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 2-5.
	0.5-2	SVOCs Explosives Metals	
0A03-007	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 4-2.
	0.5-2	SVOCs Explosives Metals	

Table 5-157: AUS-0A03 Proposed Soil Boring Sample Intervals, Analytical Suites, and Rationale

RI/FS Location ID	Depth (ft)	Analytes	Feature
0A03-008	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 4-4.
	0.5-2	SVOCs Explosives Metals	
0A03-009	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 2-1.
	0.5-2	SVOCs Explosives Metals	
0A03-010	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 3-7.
	0.5-2	SVOCs Explosives Metals	
0A03-011	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 3-4.
	0.5-2	SVOCs Explosives Metals	
0A03-012	0-0.5	SVOCs Explosives Metals	Adjacent to Building FAM 4-5.
	0.5-2	SVOCs Explosives Metals	

Table 5-158
AUS-0A2B Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea	Comments
2-METHYLNAPHTHALENE	250	UG/KG		4.6E+04	238.81	
ACETONE	48	UG/KG		2.5E+03	15.46	
ALUMINUM	8610	MG/KG	9071	5.0E+01	6321.86	
ANTHRACENE	57	UG/KG		1.0E+04	250.77	
ANTIMONY	55.9	MG/KG	0.42	5.0E+00	6.87	
ARSENIC	35.2	MG/KG	13.25	9.0E+00	12.76	95% UCL of subareas is below soil background; however, this constituent was retained by EWG.
BARIUM	1260	MG/KG	238	5.0E+02	286.13	
BENZO(A)ANTHRACENE	290	UG/KG		3.0E+03	232.52	
BENZO(A)PYRENE	280	UG/KG		3.3E+03	231.48	
BENZO(B)FLUORANTHENE	410	UG/KG		1.2E+03	226.00	
BENZO(G,H,I)PERYLENE	180	UG/KG		1.0E+05	242.98	
BENZO(K)FLUORANTHENE	170	UG/KG		9.0E+04	231.37	
BENZYL BUTYL PHTHALATE	48	UG/KG		2.4E+02	250.11	
BERYLLIUM	1.3	MG/KG	0.49	1.0E+01	0.50	
BIS(2-ETHYLHEXYL) PHTHALATE	240	UG/KG		9.3E+02	238.23	
BORON	17.5	MG/KG	4.63	5.0E-01	8.31	
CADMIUM	1.2	MG/KG	0.35	2.7E-01	0.46	
CALCIUM	212000	MG/KG	2851		33480.51	
CARBAZOLE	42	UG/KG		1.3E+04	251.01	
CHROMIUM, TOTAL	104	MG/KG	13.77	5.0E+00	24.34	
CHRYSENE	350	UG/KG		4.7E+03	225.55	
COBALT	25.6	MG/KG	9.33	2.0E+01	8.94	EWG determined two exceedances (008 and 021) required further investigation
COPPER	1560	MG/KG	9.4	3.1E+01	182.05	
CYANIDE	2.5	MG/KG	0.56	9.0E-01	1.65	
DIBENZ(A,H)ANTHRACENE	50	UG/KG		1.8E+04	250.88	
DIBENZOFURAN	120	UG/KG		2.5E+04	239.78	
DI-N-BUTYL PHTHALATE	91	UG/KG		7.1E+02	239.70	
FLUORANTHENE	600	UG/KG		1.0E+05	254.85	
INDENO(1,2,3-C,D)PYRENE	190	UG/KG		9.0E+04	243.29	
IRON	58800	MG/KG	19568	2.0E+02	20427.52	
LEAD	2000	MG/KG	25.74	4.3E+02	249.58	EPF indicates that this constituent should be further investigated.
MAGNESIUM	22900	MG/KG	1834.254144		6479.50	
MANGANESE	6350	MG/KG	2371	1.0E+02	1172.15	
MERCURY	0.99	MG/KG	0.28	1.5E-01	0.27	Agencies requested that this constituent be highlighted.
NAPHTHALENE	96	UG/KG		4.6E+04	247.84	
NICKEL	22.9	MG/KG	12.59	3.0E+01	11.89	
PHENANTHRENE	320	UG/KG		1.8E+04	237.98	
POTASSIUM	906	MG/KG	691		463.90	
PYRENE	480	UG/KG		7.9E+04	245.44	
SELENIUM	4.5	MG/KG	3.17	1.0E+00	1.29	
SILVER	1.9	MG/KG	0.69	2.0E+00	0.86	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
SODIUM	408	MG/KG	85		113.77	
TETRACHLOROETHYLENE(PCE)	80	UG/KG		1.3E+04	11.91	
THALLIUM	1	MG/KG	0.51	1.0E+00	0.71	
TOTAL ORGANIC CARBON	46900	MG/KG			75594.24	
TRICHLOROETHYLENE (TCE)	150	UG/KG		9.0E+03	19.85	
VANADIUM	74.1	MG/KG	31.1	4.6E+01	28.06	EWG determined two exceedances required further investigation
ZINC	465	MG/KG	41.2	1.2E+02	146.09	

Legend:
Constituent requires further investigation.

Table 5-159
AUS-0A2D Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea
2-METHYLNAPHTHALENE	7100	UG/KG		4.6E+04	673.75
ACENAPHTHENE	520	UG/KG		8.3E+03	255.08
ACETONE	34	UG/KG		2.5E+03	8.15
ALUMINUM	19100	MG/KG	9071	5.0E+01	7687.92
ANTHRACENE	1200	UG/KG		1.0E+04	306.16
ANTIMONY	5.3	MG/KG	0.42	5.0E+00	0.84
ARSENIC	120	MG/KG	13.25	9.0E+00	17.20
BARIUM	302	MG/KG	238	5.0E+02	130.02
BENZO(A)ANTHRACENE	4800	UG/KG		3.0E+03	602.48
BENZO(A)PYRENE	4800	UG/KG		3.3E+03	609.11
BENZO(B)FLUORANTHENE	5200	UG/KG		1.2E+03	704.32
BENZO(G,H,I)PERYLENE	2300	UG/KG		1.0E+05	397.02
BENZO(K)FLUORANTHENE	4400	UG/KG		9.0E+04	615.70
BENZYL BUTYL PHTHALATE	5900	UG/KG		2.4E+02	625.05
BERYLLIUM	1.1	MG/KG	0.49	1.0E+01	0.47
BIS(2-ETHYLHEXYL) PHTHALATE	11000	UG/KG		9.3E+02	901.80
BORON	2460	MG/KG	4.63	5.0E-01	154.35
CADMIUM	2.3	MG/KG	0.35	2.7E-01	0.67
CALCIUM	133000	MG/KG	2851		22318.75
CARBAZOLE	620	UG/KG		1.3E+04	257.11
CHROMIUM, TOTAL	96.8	MG/KG	13.77	5.0E+00	17.07
CHRYSENE	5500	UG/KG		4.7E+03	682.12
CIS-1,2-DICHLOROETHYLENE	220	UG/KG		7.9E+02	
COBALT	15	MG/KG	9.33	2.0E+01	6.04
COPPER	937	MG/KG	9.4	3.1E+01	77.24
CYANIDE	0.88	MG/KG	0.56	9.0E-01	0.26
DIBENZ(A,H)ANTHRACENE	1200	UG/KG		1.8E+04	314.93
DIBENZOFURAN	2700	UG/KG		2.5E+04	375.80

Table 5-159
AUS-0A2D Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea
DIMETHYL PHTHALATE	2500	UG/KG		2.0E+05	377.27
DI-N-BUTYL PHTHALATE	220	UG/KG		7.1E+02	232.54
FLUORANTHENE	7100	UG/KG		1.0E+05	763.56
FLUORENE	430	UG/KG		2.2E+04	251.46
HMX	6000	UG/KG		2.5E+04	677.77
INDENO(1,2,3-C,D)PYRENE	2100	UG/KG		9.0E+04	378.14
IRON	22600	MG/KG	19568	2.0E+02	13793.28
LEAD	372	MG/KG	25.74	4.3E+02	57.54
MAGNESIUM	40800	MG/KG	1834.254144		5361.70
MANGANESE	2370	MG/KG	2371	1.0E+02	718.21
MERCURY	0.19	MG/KG	0.28	1.5E-01	0.22
METHYL ETHYL KETONE (2-BUTANONE)	1200	UG/KG		9.0E+04	
NAPHTHALENE	2800	UG/KG		4.6E+04	394.04
N-HEXANE	16	UG/KG			3.93
NICKEL	24.3	MG/KG	12.59	3.0E+01	10.81
NITROGLYCERIN	5300	UG/KG			1520.64
PENTACHLOROPHENOL	92	UG/KG		1.2E+02	1199.36
PHENANTHRENE	6500	UG/KG		1.8E+04	713.34
PHENOL	100	UG/KG		4.0E+04	239.14
PHOSPHORUS, TOTAL (AS P)	891	MG/KG			955.86
POTASSIUM	2240	MG/KG	691		533.63
PYRENE	6800	UG/KG		7.9E+04	848.04
RDX	76000	UG/KG		1.0E+05	4754.84
SELENIUM	2.2	MG/KG	3.17	1.0E+00	0.98
SILVER	40.3	MG/KG	0.69	2.0E+00	2.90
SODIUM	656	MG/KG	85		169.70
TETRACHLOROETHYLENE(PCE)	810	UG/KG		1.3E+04	
THALLIUM	0.26	MG/KG	0.51	1.0E+00	0.64
TOTAL ORGANIC CARBON	87000	MG/KG			245349.71
TOLUENE	2	UG/KG		3.0E+03	
TOTAL 1,2-DICHLOROETHENE	230	UG/KG		7.9E+02	
Mammal TEQ	27.9	NG/KG		8.1E-01	
Bird TEQ	50.4	NG/KG		8.1E-01	
TRICHLOROETHYLENE (TCE)	920	UG/KG		9.0E+03	
VANADIUM	46.3	MG/KG	31.1	4.6E+01	22.05
ZINC	1060	MG/KG	41.2	1.2E+02	198.36

Legend:
Constituent requires further investigation.

Table 5-159
AUS-0A2D Ecological Receptors Soil Constituents Screening for Additional Investigation

Comments
A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
EPF states that the screening concentrations for phthalates other than DEHP are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC. Therefore, no additional investigation is required in this area for this constituent.
EPF states that one sample in 50 exceeds the direct and ingestion pathway exposure SCs. Existing data provide reasonable coverage of the site. Exposure concentration is below the screening concentration. Other samples within 100-200 ft all below screening concentration.
A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.

Table 5-159
AUS-0A2D Ecological Receptors Soil Constituents Screening for Additional Investigation

Comments
EPF states that Iron is an essential nutrient and requires no further investigation.
A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.

Table 5-160
AUS-0A2F Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea	Comments
4-METHYLPHENOL (P-CRESOL)	870	UG/KG		1.6E+05	870.00	
ALUMINUM	15800	MG/KG	9071	5.0E+01	7623.13	
ANTIMONY	1	MG/KG	0.42	5.0E+00	0.63	
ARSENIC	15.2	MG/KG	13.25	9.0E+00	9.01	Left in by Eco WG
BARIUM	167	MG/KG	238	5.0E+02	112.59	
BENZO(A)ANTHRACENE	49	UG/KG		3.0E+03	49.00	
BENZO(A)PYRENE	48	UG/KG		3.3E+03	48.00	
BENZO(B)FLUORANTHENE	55	UG/KG		1.2E+03	55.00	
BENZO(K)FLUORANTHENE	64	UG/KG		9.0E+04	64.00	
BERYLLIUM	0.61	UG/KG	0.49	1.0E+01	0.36	
BIS(2-ETHYLHEXYL) PHTHALATE	55	UG/KG		9.3E+02	55.00	
BORON	14.2	MG/KG	4.63	5.0E-01	7.13	
CADMIUM	1.8	MG/KG	0.35	2.7E-01	0.80	
CALCIUM	59100	MG/KG	2851		23941.85	
CARBON DISULFIDE	6	UG/KG		9.4E+01	3.75	
CHROMIUM, TOTAL	20.1	MG/KG	13.77	5.0E+00	14.88	
CHRYSENE	77	UG/KG		4.7E+03	77.00	
CIS-1,2-DICHLOROETHYLENE	29	UG/KG		7.9E+02		
COBALT	9.4	MG/KG	9.33	2.0E+01	6.87	
COPPER	57.1	MG/KG	9.4	3.1E+01	26.13	
FLUORANTHENE	68	UG/KG		1.0E+05	68.00	
IRON	39600	MG/KG	19568	2.0E+02	23736.42	
LEAD	101	MG/KG	25.74	4.3E+02	53.84	
MAGNESIUM	14700	MG/KG	1834.254144		7072.46	
MANGANESE	1280	MG/KG	2371	1.0E+02	675.63	
MERCURY	0.1	MG/KG	0.28	1.5E-01	0.21	
NICKEL	19.9	MG/KG	12.59	3.0E+01	14.95	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
POTASSIUM	747	MG/KG	691		584.36	
PYRENE	79	UG/KG		7.9E+04	79.00	
SELENIUM	0.94	MG/KG	3.17	1.0E+00	0.76	
SILVER	1.3	MG/KG	0.69	2.0E+00	0.74	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
SODIUM	308	MG/KG			118.36	
THALLIUM	0.6	MG/KG	0.51	1.0E+00	0.72	
TOTAL ORGANIC CARBON	38000	MG/KG			48096.12	
TRICHLOROETHYLENE (TCE)	96	UG/KG		9.0E+03	3.21	
VANADIUM	32	MG/KG	31.1	4.6E+01	23.48	
ZINC	231	MG/KG	41.2	1.2E+02	117.14	

Legend:
Constituent requires further investigation.

Table 5-161
AUS-0A2P Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea	Comments
1-METHYLNAPHTHALENE	2200	UG/KG		4.6E+04		
2-METHYLNAPHTHALENE	6700	UG/KG		4.6E+04	237.66	
ACENAPHTHENE	95	UG/KG		8.3E+03	237.66	
ACENAPHTHYLENE	3700	UG/KG		8.3E+03	237.66	
ALUMINUM	12000	MG/KG	9071	5.0E+01	8002.41	
ANTHRACENE	100	UG/KG		1.0E+04	218.58	
ANTIMONY	1.6	MG/KG	0.42	5.0E+00	0.54	
ARSENIC	87.5	MG/KG	13.25	9.0E+00	25.92	
BARIUM	139	MG/KG	238	5.0E+02	94.11	
BENZO(A)ANTHRACENE	500	UG/KG		3.0E+03	360.23	
BENZO(A)PYRENE	480	UG/KG		3.3E+03	349.38	
BENZO(B)FLUORANTHENE	510	UG/KG		1.2E+03	366.93	
BENZO(G,H,I)PERYLENE	330	UG/KG		1.0E+05	259.18	
BENZO(K)FLUORANTHENE	490	UG/KG		9.0E+04	349.73	
BENZYL BUTYL PHTHALATE	6300	UG/KG		2.4E+02	2443.85	EPF states that the screening concentrations for phthalates other than DEHP are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
BERYLLIUM	0.73	MG/KG	0.49	1.0E+01	0.38	
BIS(2-ETHYLHEXYL) PHTHALATE	190	UG/KG		9.3E+02	233.31	
BORON	7.3	MG/KG	4.63	5.0E-01	6.26	
CADMIUM	1.3	MG/KG	0.35	2.7E-01	0.46	
CALCIUM	113000	MG/KG	2851		15474.66	
CARBAZOLE	66	UG/KG		1.3E+04	227.27	
CHROMIUM, TOTAL	28.6	MG/KG	13.77	5.0E+00	14.41	
CIS-1,2-DICHLOROETHYLENE	8	UG/KG		7.9E+02		
CHRYSENE	630	UG/KG		4.7E+03	424.20	
COBALT	15.1	MG/KG	9.33	2.0E+01	6.90	
COPPER	186	MG/KG	9.4	3.1E+01	33.35	
DIBENZ(A,H)ANTHRACENE	130	UG/KG		1.8E+04	235.88	
DIBENZOFURAN	58	UG/KG		2.5E+04	239.34	
DIETHYL PHTHALATE	140	UG/KG		1.0E+05	238.10	
FLUORANTHENE	1200	UG/KG		1.0E+05	689.55	
FLUORENE	44	UG/KG		2.2E+04	237.66	
INDENO(1,2,3-C,D)PYRENE	310	UG/KG		9.0E+04	254.55	
IRON	25700	MG/KG	19568	2.0E+02	18265.26	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	60.5	MG/KG	25.74	4.3E+02	24.58	
MAGNESIUM	57200	MG/KG	1834.254144		6676.64	
MANGANESE	1680	MG/KG	2371	1.0E+02	574.67	
MERCURY	0.32	MG/KG	0.28	1.5E-01	0.17	
NAPHTHALENE	1600	UG/KG		4.6E+04	237.66	
NICKEL	22.7	MG/KG	12.59	3.0E+01	12.44	
PHENANTHRENE	1200	UG/KG		1.8E+04	408.95	
POTASSIUM	886	MG/KG	691		567.91	
PYRENE	980	UG/KG		7.9E+04	694.29	
SELENIUM	3.7	MG/KG	3.17	1.0E+00	1.19	
SILVER	237	MG/KG	0.69	2.0E+00	30.64	
SODIUM	1590	MG/KG	85		245.10	
TETRACHLOROETHYLENE(PCE)	15	UG/KG		1.3E+04		
THALLIUM	0.21	MG/KG	0.51	1.0E+00	0.64	
TOTAL ORGANIC CARBON	20200	MG/KG			31093.18	
TRICHLOROETHYLENE (TCE)	240	UG/KG		9.0E+03		
VANADIUM	31.8	MG/KG	31.1	4.6E+01	24.78	
ZINC	612	MG/KG	41.2	1.2E+02	138.03	

Legend:
Constituent requires further investigation.

Table 5-162
AUS-0A2R Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea	Comments
1-METHYLNAPHTHALENE	2400	UG/KG		4.6E+04	2065.87	
2-METHYLNAPHTHALENE	7200	UG/KG		4.6E+04	6203.67	
ACENAPHTHYLENE	4500	UG/KG		8.3E+03	3814.20	
ALUMINUM	10700	MG/KG	9071	5.0E+01	10403.90	
ANTHRACENE	340	UG/KG		1.0E+04	327.22	
ANTIMONY	1.1	MG/KG	0.42	5.0E+00	1.13	
ARSENIC	12.8	MG/KG	13.25	9.0E+00	12.55	
BARIUM	337	MG/KG	238	5.0E+02	153.49	
BENZO(A)ANTHRACENE	1900	UG/KG		3.0E+03	1715.47	
BENZO(A)PYRENE	2600	UG/KG		3.3E+03	2391.32	
BENZO(B)FLUORANTHENE	3500	UG/KG		1.2E+03	3270.77	
BENZO(G,H,I)PERYLENE	1400	UG/KG		1.0E+05	1508.71	
BENZO(K)FLUORANTHENE	1600	UG/KG		9.0E+04	1518.83	
BERYLLIUM	0.97	MG/KG	0.49	1.0E+01	0.87	
BORON	59.6	MG/KG	4.63	5.0E-01	51.92	
CADMIUM	1.6	MG/KG	0.35	2.7E-01	1.59	
CALCIUM	76400	MG/KG	2851		82326.86	
CHROMIUM, TOTAL	19	MG/KG	13.77	5.0E+00	18.82	
CHRYSENE	3200	UG/KG		4.7E+03	2944.06	
COBALT	29.5	MG/KG	9.33	2.0E+01	6.73	
COPPER	156	MG/KG	9.4	3.1E+01	145.55	
DIBENZ(A,H)ANTHRACENE	320	UG/KG		1.8E+04	316.43	
FLUORANTHENE	3500	UG/KG		1.0E+05	3294.71	
FLUORENE	110	UG/KG		2.2E+04	94.03	
INDENO(1,2,3-C,D)PYRENE	1700	UG/KG		9.0E+04	1719.42	
IRON	33900	MG/KG	19568	2.0E+02	36564.15	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	101	MG/KG	25.74	4.3E+02	94.43	
MAGNESIUM	36800	MG/KG	1834.254144		35397.68	
MANGANESE	747	MG/KG	2371	1.0E+02	574.60	
MERCURY	0.055	MG/KG	0.28	1.5E-01	0.06	
NAPHTHALENE	3600	UG/KG		4.6E+04	3066.45	
NICKEL	30.7	MG/KG	12.59	3.0E+01	24.91	
PHENANTHRENE	1400	UG/KG		1.8E+04	1233.52	
POTASSIUM	705	MG/KG	691		715.99	
PYRENE	3500	UG/KG		7.9E+04	3239.33	
SELENIUM	0.49	MG/KG	3.17	1.0E+00	0.47	
SILVER	0.73	MG/KG	0.69	2.0E+00		
SODIUM	543	MG/KG	85		504.73	
THALLIUM	0.76	MG/KG	0.51	1.0E+00	0.77	
VANADIUM	34.5	MG/KG	31.1	4.6E+01	29.57	
ZINC	634	MG/KG	41.2	1.2E+02	695.24	

Legend:
Constituent requires further investigation.

Table 5-163
AUS-0A4E Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea	Comments
1-METHYLNAPHTHALENE	200	UG/KG		4.6E+04	132.43	
2-METHYLNAPHTHALENE	1900	UG/KG		4.6E+04	635.19	
ACENAPHTHYLENE	350	UG/KG		8.3E+03	215.59	
ALUMINUM	9340	MG/KG	9071	5.0E+01	6190.17	
ANTHRACENE	80	UG/KG		1.0E+04	170.39	
ANTIMONY	2.3	MG/KG	0.42	5.0E+00	0.76	
ARSENIC	15.4	MG/KG	13.25	9.0E+00	7.25	95% UCL of subareas is below background; however, this constituent was retained by EWG.
BARIUM	361	MG/KG	238	5.0E+02	105.17	
BENZO(A)ANTHRACENE	100	UG/KG		3.0E+03	155.10	
BENZO(A)PYRENE	64	UG/KG		3.3E+03	182.77	
BENZO(B)FLUORANTHENE	120	UG/KG		1.2E+03	177.12	
BENZO(G,H,I)PERYLENE	71	UG/KG		1.0E+05	192.06	
BENZO(K)FLUORANTHENE	43	UG/KG		9.0E+04	190.53	
BIS(2-ETHYLHEXYL) PHTHALATE	1700	UG/KG		9.3E+02	534.51	EPF states that the screening concentrations for phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC. Therefore, no additional investigation is required in this area for this constituent.
BORON	14.1	MG/KG	4.63	5.0E-01	6.61	
CADMIUM	3.5	MG/KG	0.35	2.7E-01	11.02	
CALCIUM	180000	MG/KG	2851		89991.71	
CHROMIUM, TOTAL	19.8	MG/KG	13.77	5.0E+00	12.56	
CHRYSENE	170	UG/KG		4.7E+03	166.68	
COBALT	14.5	MG/KG	9.33	2.0E+01	5.97	
COPPER	816	MG/KG	9.4	3.1E+01	151.65	
DIBENZ(A,H)ANTHRACENE	10	UG/KG		1.8E+04	189.75	
DIBENZOFURAN	620	UG/KG		2.5E+04	339.90	
DIMETHYL PHTHALATE	290	UG/KG		2.0E+05	232.09	
DI-N-BUTYL PHTHALATE	89	UG/KG		7.1E+02	215.72	
ETHYLBENZENE	1400	UG/KG		5.0E+03		
FLUORANTHENE	180	UG/KG		1.0E+05	143.71	
INDENO(1,2,3-C,D)PYRENE	36	UG/KG		9.0E+04	190.26	
IRON	22900	MG/KG	19568	2.0E+02	14554.11	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	223	MG/KG	25.74	4.3E+02	80.92	
MAGNESIUM	114000	MG/KG	1834.254144		48544.40	
MANGANESE	879	MG/KG	2371	1.0E+02	499.38	
MERCURY	0.24	MG/KG	0.28	1.5E-01	0.12	
NAPHTHALENE	880	UG/KG		4.6E+04	308.32	
N-HEXANE	6600	UG/KG				
NICKEL	25.4	MG/KG	12.59	3.0E+01	12.75	
PHENANTHRENE	620	UG/KG		1.8E+04	289.29	
POTASSIUM	926	MG/KG	691		395.51	
PYRENE	200	UG/KG		7.9E+04	157.63	
SELENIUM	1.4	MG/KG	3.17	1.0E+00	0.73	
SILVER	0.25	MG/KG	0.69	2.0E+00	0.63	
SODIUM	375	MG/KG	85		142.84	
THALLIUM	0.21	MG/KG	0.51	1.0E+00	0.63	
TOLUENE	2	UG/KG		3.0E+03		
VANADIUM	29.5	MG/KG	31.1	4.6E+01	19.04	
XYLENES, TOTAL	830	UG/KG		6.0E+02	3.14	EPF states that xylenes exceeded screening concentration in only 1 of 29 samples (3%) and was not selected as a COPEC in surface soils. Therefore, it requires no further investigation in this area.
ZINC	321	MG/KG	41.2	1.2E+02	133.06	

Legend:
Constituent requires further investigation.

Table 5-164
AUS-0A4W Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
2-METHYLNAPHTHALENE	3500	UG/KG		4.6E+04	2298.02	
ACENAPHTHYLENE	67	UG/KG		8.3E+03	239.84	
ACETONE	35	UG/KG		2.5E+03	12.63	
ALUMINUM	16500	MG/KG	9071	5.0E+01	9819.92	
ANTHRACENE	65	UG/KG		1.0E+04	240.17	
ANTIMONY	4.5	MG/KG	0.42	5.0E+00	2.36	
ARSENIC	60.1	MG/KG	13.25	9.0E+00	20.51	
BARIUM	214	MG/KG	238	5.0E+02	123.22	
BENZO(A)ANTHRACENE	130	UG/KG		3.0E+03	251.57	
BENZO(A)PYRENE	97	UG/KG		3.3E+03	234.84	
BENZO(B)FLUORANTHENE	63	UG/KG		1.2E+03	266.56	
BENZO(K)FLUORANTHENE	100	UG/KG		9.0E+04	234.34	
BENZYL BUTYL PHTHALATE	46	UG/KG		2.4E+02	243.35	
BIS(2-ETHYLHEXYL) PHTHALATE	100	UG/KG		9.3E+02	234.34	
BORON	34.2	MG/KG	4.63	5.0E-01	12.13	
CADMIUM	4520	MG/KG	0.35	2.7E-01	1079.85	
CALCIUM	43600	MG/KG	2851		14926.71	
CARBAZOLE	92	UG/KG		1.3E+04	261.00	
CHLOROFORM	2	UG/KG		1.2E+03	3.00	
CHROMIUM, TOTAL	298	MG/KG	13.77	5.0E+00	141.86	
CHRYSENE	170	UG/KG		4.7E+03	242.01	
COBALT	32.8	MG/KG	9.33	2.0E+01	13.75	
COPPER	178	MG/KG	9.4	3.1E+01	61.18	
DIBENZOFURAN	790	UG/KG		2.5E+04	541.75	
FLUORANTHENE	120	UG/KG		1.0E+05	255.27	
HMX	3800	UG/KG		2.5E+04	2147.35	
IRON	27000	MG/KG	19568	2.0E+02	21302.58	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	275	MG/KG	25.74	4.3E+02	98.55	
MAGNESIUM	21000	MG/KG	1834.254144		7783.17	
MANGANESE	2160	MG/KG	2371	1.0E+02	1026.45	
MERCURY	0.72	MG/KG	0.28	1.5E-01	0.26	
NAPHTHALENE	1800	UG/KG		4.6E+04	1178.85	
NICKEL	114	MG/KG	12.59	3.0E+01	50.53	
PHENANTHRENE	990	UG/KG		1.8E+04	659.10	
POTASSIUM	786	MG/KG	691		606.23	
PYRENE	320	UG/KG		7.9E+04	236.64	
SELENIUM	4	MG/KG	3.17	1.0E+00	1.44	
THALLIUM	1.2	MG/KG	0.51	1.0E+00	0.75	
TOLUENE	3	UG/KG		3.0E+03	2.96	
TOTAL ORGANIC CARBON	16400	MG/KG				
VANADIUM	29.1	MG/KG	31.1	4.6E+01	24.85	
XYLENES, TOTAL	8	UG/KG		6.0E+02	3.46	
ZINC	780	MG/KG	41.2	1.2E+02	347.02	

Legend:
Constituent requires additional investigation.

Table 5-165
AUS-0A06 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea	Comments
2,4,5-TRICHLOROPHENOL	40	UG/KG		4.0E+03	1150.00	The EPF states that no indirect exposure screening concentrations were calculated for this chemical and that the Log Kow of 3.9 suggests this chemical may be important relative to the ingestion pathway. Agencies request additional verification sampling.
2,4,6-TRICHLOROPHENOL	42	UG/KG		1.0E+04	229.76	The EPF states that no indirect exposure screening concentrations were calculated for this chemical and that the Log Kow of 3.9 suggests this chemical may be important relative to the ingestion pathway. Agencies request additional verification sampling.
2-METHYLNAPHTHALENE	230	UG/KG		4.6E+04	198.22	
4-BROMOPHENYL PHENYL ETHER	42	UG/KG			229.76	The EPF recommend retaining as a COPEC and evaluating qualitatively in the uncertainty analysis. Log Kow of 5 suggests this chemical may be important relative to the ingestion pathway. Agencies request additional verification sampling.
4-CHLORO-3-METHYLPHENOL	53	UG/KG		8.0E+03	229.68	
4-CHLOROPHENYL PHENYL ETHER	37	UG/KG			229.80	The EPF recommend retaining as a COPEC and evaluating qualitatively in the uncertainty analysis. Log Kow of 5 suggests this chemical may be important relative to the ingestion pathway. Agencies request additional verification sampling.
4-METHYLPHENOL (P-CRESOL)	71	UG/KG		1.6E+05	229.59	
4-NITROPHENOL	59	UG/KG		7.0E+03	1149.77	
ACENAPHTHENE	430	UG/KG		8.3E+03	230.59	
ACENAPHTHYLENE	37	UG/KG		8.3E+03	229.80	
ALUMINUM	17300	MG/KG	9071	5.0E+01	6538.19	
ANTHRACENE	1000	UG/KG		1.0E+04	318.17	
ANTIMONY	0.41	MG/KG	0.42	5.0E+00	0.40	
ARSENIC	11.5	MG/KG	13.25	9.0E+00	4.69	
BARIUM	123	MG/KG	238	5.0E+02	78.45	
BENZO(A)ANTHRACENE	8700	UG/KG		3.0E+03	1389.95	
BENZO(A)PYRENE	8400	UG/KG		3.3E+03	1333.20	
BENZO(B)FLUORANTHENE	10000	UG/KG		1.2E+03	1596.35	
BENZO(G,H,I)PERYLENE	4100	UG/KG		1.0E+05	721.62	
BENZO(K)FLUORANTHENE	7300	UG/KG		9.0E+04	1195.75	
BENZYL BUTYL PHTHALATE	73	UG/KG		2.4E+02	229.58	
BIS(2-CHLOROISOPROPYL) ETHER	54	UG/KG			229.67	
BIS(2-ETHYLHEXYL) PHTHALATE	6600	UG/KG		9.3E+02	486.19	
BORON	6.5	MG/KG	4.63	5.0E-01	6.35	
CADMIUM	0.53	MG/KG	0.35	2.7E-01	0.34	
CALCIUM	348000	MG/KG	2851		125369.42	
CARBAZOLE	660	UG/KG		1.3E+04	251.45	
CHROMIUM, TOTAL	18.1	MG/KG	13.77	5.0E+00	9.82	
CHRYSENE	11000	UG/KG		4.7E+03	1732.53	
COBALT	6.2	MG/KG	9.33	2.0E+01	4.26	
COPPER	32.4	MG/KG	9.4	3.1E+01	10.15	
DIBENZ(A,H)ANTHRACENE	2300	UG/KG		1.8E+04	470.03	
DIBENZOFURAN	610	UG/KG		2.5E+04	240.73	
DIETHYL PHTHALATE	50	UG/KG		1.0E+05	229.70	

Table 5-165
AUS-0A06 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea	Comments
DIMETHYL PHTHALATE	40	UG/KG		2.0E+05	229.77	
DI-N-BUTYL PHTHALATE	130	UG/KG		7.1E+02	214.70	
DI-N-OCTYLPHTHALATE	120	UG/KG		6.1E+05	229.65	
FLUORANTHENE	12000	UG/KG		1.0E+05	2159.83	
FLUORENE	480	UG/KG		2.2E+04	231.47	
HEXACHLOROBENZENE	39	UG/KG		1.0E+06	229.78	
INDENO(1,2,3-C,D)PYRENE	4200	UG/KG		9.0E+04	722.27	
IRON	24900	MG/KG	19568	2.0E+02	13137.58	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	48.8	MG/KG	25.74	4.3E+02	21.88	
MAGNESIUM	93600	MG/KG	1834.254144		31283.46	
MANGANESE	918	MG/KG	2371	1.0E+02	428.50	
MERCURY	0.48	MG/KG	0.28	1.5E-01	0.14	
NAPHTHALENE	160	UG/KG		4.6E+04	204.00	
NICKEL	15.6	MG/KG	12.59	3.0E+01	9.84	
NITROBENZENE	550	UG/KG		4.0E+04	201.06	
N-NITROSODI-N-PROPYLAMINE	41	UG/KG		5.4E+02	229.77	
N-NITROSODIPHENYLAMINE	240	UG/KG		2.0E+04	223.68	
PENTACHLOROPHENOL	47	UG/KG		1.2E+02	1149.92	
PHENANTHRENE	5000	UG/KG		1.8E+04	1099.41	
PHENOL	57	UG/KG		4.0E+04	226.79	
POTASSIUM	2090	MG/KG	691		738.08	
PYRENE	11000	UG/KG		7.9E+04	2422.83	
SELENIUM	1.5	MG/KG	3.17	1.0E+00	0.64	
THALLIUM	0.2	MG/KG	0.51	1.0E+00	0.68	
TOTAL ORGANIC CARBON	38700	MG/KG			26200.00	
VANADIUM	27.5	MG/KG	31.1	4.6E+01	15.80	
ZINC	83.3	MG/KG	41.2	1.2E+02	44.93	

Legend:
Constituent requires additional investigation

Table 5-166
AUS-0A07 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
1,2-DICHLOROPROPANE	660	UG/KG		7.0E+05	13.72	
2-METHYLNAPHTHALENE	430	UG/KG		4.6E+04	394.46	
4,4'-DDD	12000	UG/KG		7.6E+02	1728.89	
4,4'-DDE	4800	UG/KG		6.0E+02	1404.68	
4,4'-DDT	100000	UG/KG		3.5E+00	4551.76	
ACENAPHTHENE	320	UG/KG		8.3E+03		
ACENAPHTHYLENE	530	UG/KG		8.3E+03	398.10	
ACETONE	24	UG/KG		2.5E+03	7.24	
ALDRIN	1300000	UG/KG		3.3E+00	65248.88	
ALPHA ENDOSULFAN	12	UG/KG		1.2E+02	611.40	
ALPHA-CHLORDANE	490	UG/KG		2.2E+02	617.52	
ALUMINUM	20200	MG/KG	9071	5.0E+01	13394.26	
ANTHRACENE	290	UG/KG		1.0E+04	388.71	
ANTIMONY	0.63	MG/KG	0.42	5.0E+00	0.57	
ARSENIC	16.9	MG/KG	13.25	9.0E+00	7.45	
BARIUM	311	MG/KG	238	5.0E+02	138.15	
BENZENE	8	UG/KG		1.6E+04		
BENZO(A)ANTHRACENE	1300	UG/KG		3.0E+03	469.47	
BENZO(A)PYRENE	2400	UG/KG		3.3E+03	587.39	
BENZO(B)FLUORANTHENE	3200	UG/KG		1.2E+03	630.58	
BENZO(G,H,I)PERYLENE	1900	UG/KG		1.0E+05	540.31	
BENZO(K)FLUORANTHENE	2800	UG/KG		9.0E+04	579.45	
BERYLLIUM	1.9	MG/KG	0.49	1.0E+01	0.74	
BETA BHC (BETA HEXACHLOROCYCLOHEXANE)	8.4	UG/KG		4.0E+00	625.62	
BETA ENDOSULFAN	18	UG/KG		1.2E+02	1244.67	
BIS(2-ETHYLHEXYL) PHTHALATE	10000	UG/KG		9.3E+02	1374.04	The EPF states that the direct exposure SC is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
BORON	6.2	MG/KG	4.63	5.0E-01	3.85	
CADMIUM	9	MG/KG	0.35	2.7E-01	1.07	
CALCIUM	217000	MG/KG	2851		47484.42	
CARBAZOLE	130	UG/KG		1.3E+04	384.34	
CHLOROBENZENE	48	UG/KG		4.0E+04		
CHROMIUM, TOTAL	25.6	MG/KG	13.77	5.0E+00	18.49	
CHRYSENE	2100	UG/KG		4.7E+03	605.75	
CIS-1,2-DICHLOROETHYLENE	2	UG/KG		7.9E+02	2.79	
COBALT	19.3	MG/KG	9.33	2.0E+01	8.28	
COPPER	23.5	MG/KG	9.4	3.1E+01	14.01	
DIBENZ(A,H)ANTHRACENE	550	UG/KG		1.8E+04	403.31	
DIBENZOFURAN	590	UG/KG		2.5E+04	400.63	
DIELDRIN	290000	UG/KG		2.4E+00	25695.80	
DIMETHYL PHTHALATE	170	UG/KG		2.0E+05	390.34	
DI-N-BUTYL PHTHALATE	130	UG/KG		7.1E+02	385.87	
DI-N-OCTYLPHTHALATE	3900	UG/KG		6.1E+05	674.26	
ENDOSULFAN SULFATE	44	UG/KG		3.6E+01	1244.82	
ENDRIN	12000	UG/KG		1.0E+01	1544.66	
ENDRIN ALDEHYDE	9000	UG/KG		1.1E+01	1376.72	
ENDRIN KETONE	20000	UG/KG			1664.51	
ETHYLBENZENE	41	UG/KG		5.0E+03		
FLUORANTHENE	1200	UG/KG		1.0E+05	450.96	
FLUORENE	210	UG/KG		2.2E+04	387.86	
GAMMA BHC (LINDANE)	5.6	UG/KG		5.0E+00	605.60	
GAMMA-CHLORDANE	1600	UG/KG		2.2E+02	648.98	
HEPTACHLOR	69	UG/KG		6.0E+00	613.59	

Table 5-166
AUS-0A07 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
HEPTACHLOR EPOXIDE	11	UG/KG		1.5E+02	605.78	EPF states that this constituent is a potential ingestion pathway exposure based on Log Kow. No additional investigation is recommended.
HEXACHLOROBENZENE	2700	UG/KG		1.0E+06	613.03	EPF states that this constituent is a potential ingestion pathway exposure based on Log Kow. No additional investigation is recommended.
INDENO(1,2,3-C,D)PYRENE	1200	UG/KG		9.0E+04	452.07	
IRON	34000	MG/KG	19568	2.0E+02	18882.56	EPF states that Iron is an essential nutrient and requires no further investigation.
ISODRIN	60000	UG/KG		3.3E+00	3466.10	
LEAD	64.8	MG/KG	25.74	4.3E+02	26.97	
MAGNESIUM	52300	MG/KG	1834.254144		10678.82	
MANGANESE	1370	MG/KG	2371	1.0E+02	586.52	
MERCURY	0.053	MG/KG	0.28	1.5E-01	0.03	
METHOXYCHLOR	26	UG/KG		2.0E+01	6055.09	
METHYL ETHYL KETONE (2-BUTANONE)	18	UG/KG		9.0E+04	6.03	
METHYLENE CHLORIDE	5.7	UG/KG		4.1E+03	2.92	
NAPHTHALENE	330	UG/KG		4.6E+04	394.12	
NICKEL	42.2	MG/KG	12.59	3.0E+01	16.70	
PCB (total)	140	UG/KG		4.0E+04	56.17	
PCB-1260 (AROCHLOR 1260)	140	UG/KG		3.4E+01	38.44	
PHENANTHRENE	430	UG/KG		1.8E+04	404.80	
POTASSIUM	1420	MG/KG	691		831.24	
PYRENE	2400	UG/KG		7.9E+04	627.73	
SELENIUM	0.78	MG/KG	3.17	1.0E+00	0.51	
SODIUM	1360	MG/KG	85		552.40	
STYRENE	28	UG/KG		3.0E+05		
TETRACHLOROETHYLENE(PCE)	48	UG/KG		1.3E+04		
THALLIUM	0.9	MG/KG	0.51	1.0E+00	0.88	
TOLUENE	11	MG/KG		3.0E+03		
TOTAL 1,2-DICHLOROETHENE	2	UG/KG		7.9E+02	2.90	
Mammal TEQ	3.36	NG/KG		8.1E-01		
Bird TEQ	8.74	NG/KG		8.1E-01		
TRICHLOROETHYLENE (TCE)	25	UG/KG		9.0E+03	9.71	
VANADIUM	45.3	MG/KG	31.1	4.6E+01	31.19	
XYLENES, TOTAL	4500	MG/KG		6.0E+02	358	
ZINC	95.4	MG/KG	41.2	1.2E+02	56.34	

Legend:
Constituents require additional investigation.

Table 5-167
Area 0A8S Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
2,4-DINITROTOLUENE	1400	UG/KG		1.3E+03	312.09	
2,6-DINITROTOLUENE	100	UG/KG		3.3E+01	252.8	
ALUMINUM	10600	MG/KG	9071	5.0E+01	7882.42	
ANTIMONY	0.34	MG/KG	0.42	5.0E+00		
ARSENIC	9.3	MG/KG	13.25	9.0E+00	7.46	
BARIUM	392	MG/KG	238	5.0E+02		
BENZO(A)ANTHRACENE	63	UG/KG		3.0E+03		
BENZO(A)PYRENE	72	UG/KG		3.3E+03		
BENZO(B)FLUORANTHENE	87	UG/KG		1.2E+03		
BENZO(G,H,I)PERYLENE	49	UG/KG		1.0E+05		
BENZO(K)FLUORANTHENE	67	UG/KG		9.0E+04		
BENZYL BUTYL PHTHALATE	290	UG/KG		2.4E+02		EPF states that the screening concentrations for phthalates other than DEHP are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
BIS(2-ETHYLHEXYL) PHTHALATE	570	UG/KG		9.3E+02		
BORON	5.1	MG/KG	4.63	5.0E-01		
CADMIUM	1.2	MG/KG	0.35	2.7E-01	0.44	
CALCIUM	45300	MG/KG	2851			
CHROMIUM, TOTAL	13.6	MG/KG	13.77	5.0E+00	11.2	
CHRYSENE	84	UG/KG		4.7E+03		
COBALT	20.4	MG/KG	9.33	2.0E+01		
COPPER	33.2	MG/KG	9.4	3.1E+01	11.08	
DI-N-BUTYL PHTHALATE	2200	UG/KG		7.1E+02	476.6	
DI-N-OCTYLPHTHALATE	200	UG/KG		6.1E+05		
FLUORANTHENE	100	UG/KG		1.0E+05		
IRON	18600	MG/KG	19568	2.0E+02		
LEAD	29.4	MG/KG	25.74	4.3E+02		
MAGNESIUM	11500	MG/KG	1834.254144			
MANGANESE	6940	MG/KG	2371	1.0E+02	923	
NICKEL	13.3	MG/KG	12.59	3.0E+01		
NITROGEN, AMMONIA (AS N)	18	MG/KG				
NITROGEN, NITRATE-NITRITE	35	MG/KG				
N-NITROSODIPHENYLAMINE	280	UG/KG		2.0E+04		
PHENANTHRENE	46	UG/KG		1.8E+04		
POTASSIUM	771	MG/KG	691			
PYRENE	100	UG/KG		7.9E+04		
SELENIUM	3.8	MG/KG	3.17	1.0E+00	1.18	
SILVER	1.9	MG/KG	0.69	2.0E+00		
SODIUM	633	MG/KG	85			
THALLIUM	1.9	MG/KG	0.51	1.0E+00		
Mammal TEQ	0.31	NG/KG		8.1E-01		
Bird TEQ	0.24	NG/KG		8.1E-01		
VANADIUM	27.7	MG/KG	31.1	4.6E+01		
ZINC	175	MG/KG	41.2	1.2E+02	55.72	

Legend:
Constituent requires further investigation.

Table 5-168
AUS-0A09 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
2,4-DINITROTOLUENE	2100	UG/KG		1.3E+03	522.01	
2-METHYLNAPHTHALENE	52	UG/KG		4.6E+04		
ALUMINUM	14500	MG/KG	9071	5.0E+01	7527.97	
ANTIMONY	3.7	MG/KG	0.42	5.0E+00		
ARSENIC	25.2	MG/KG	13.25	9.0E+00	10.7	
BARIUM	191	MG/KG	238	5.0E+02		
BENZYL BUTYL PHTHALATE	2000	UG/KG		2.4E+02	960.51	EPF states that the screening concentrations for phthalates other than DEHP are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
BERYLLIUM	0.54	MG/KG	0.49	1.0E+01		
BIS(2-ETHYLHEXYL) PHTHALATE	1600	UG/KG		9.3E+02	641.44	The EPF states that the direct exposure SC is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
BORON	18.1	MG/KG	4.63	5.0E-01	7.68	
CADMIUM	3.8	MG/KG	0.35	2.7E-01	1.33	
CALCIUM	78000	MG/KG	2851			
CHROMIUM, TOTAL	54.1	MG/KG	13.77	5.0E+00	17.6	
COBALT	8.9	MG/KG	9.33	2.0E+01		
COPPER	296	MG/KG	9.4	3.1E+01	57.19	
DIBENZOFURAN	90	UG/KG		2.5E+04		
DIMETHYL PHTHALATE	200	UG/KG		2.0E+05		
DI-N-BUTYL PHTHALATE	92	UG/KG		7.1E+02		
IRON	19900	MG/KG	19568	2.0E+02		EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	103	MG/KG	25.74	4.3E+02		
MAGNESIUM	23700	MG/KG	1834.254144			
MANGANESE	2470	MG/KG	2371	1.0E+02		
MERCURY	0.54	MG/KG	0.28	1.5E-01	0.19	
NICKEL	14.5	MG/KG	12.59	3.0E+01		
PHENANTHRENE	93	UG/KG		1.8E+04		
POTASSIUM	1150	MG/KG	691			
SELENIUM	2.2	MG/KG	3.17	1.0E+00		
SILVER	59.4	MG/KG	0.69	2.0E+00	10.93	
SODIUM	96.3	MG/KG	85			
TOTAL ORGANIC CARBON	16700	MG/KG				
VANADIUM	32.8	MG/KG	31.1	4.6E+01		
ZINC	1330	MG/KG	41.2	1.2E+02	346.47	

Legend:
Constituent requires additional investigation.

Table 5-169
AUS-0A10 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
2-METHYLNAPHTHALENE	1400	UG/KG		4.6E+04	662.75	
ACENAPHTHENE	97	UG/KG		8.3E+03	243.39	
ALUMINUM	9210	MG/KG	9071	5.0E+01	9447.09	
ANTHRACENE	190	UG/KG		1.0E+04	244.84	
ARSENIC	8.4	MG/KG	13.25	9.0E+00	7.17	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
BARIUM	14100	MG/KG	238	5.0E+02	4180.54	
BIS(2-ETHYLHEXYL) PHTHALATE	680	UG/KG		9.3E+02	448.99	
BORON	513	MG/KG	4.63	5.0E-01	193.01	
CADMIUM	1.9	MG/KG	0.35	2.7E-01	1.09	
CALCIUM	10200	MG/KG	2851	0.0E+00	5704.48	
CARBAZOLE	62	UG/KG		1.3E+04	244.99	
CHLOROFORM	2	UG/KG		1.2E+03		
CHROMIUM, TOTAL	31.4	MG/KG	13.77	5.0E+00	24.59	
COBALT	13.2	MG/KG	9.33	2.0E+01	10.74	
COPPER	517	MG/KG	9.4	3.1E+01	275.73	
DIBENZOFURAN	100	UG/KG		2.5E+04	252.63	
FLUORANTHENE	75	UG/KG		1.0E+05	244.35	
FLUORENE	310	UG/KG		2.2E+04	256.59	
IRON	18900	MG/KG	19568	2.0E+02	19434.54	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	67	MG/KG	25.74	4.3E+02	41.13	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
MAGNESIUM	51900	MG/KG	1834.254144	0.0E+00	21836.43	
MANGANESE	1110	MG/KG	2371	1.0E+02	901.43	
MERCURY	0.21	MG/KG	0.28	1.5E-01	0.14	
NAPHTHALENE	250	UG/KG		4.6E+04	244.53	
NICKEL	81	MG/KG	12.59	3.0E+01	33.13	
PHENANTHRENE	2700	UG/KG		1.8E+04	1076.87	
POTASSIUM	722	MG/KG	691	0.0E+00	646.28	
PYRENE	370	UG/KG		7.9E+04	256.01	
SELENIUM	1.7	MG/KG	3.17	1.0E+00	1.13	
SILVER	39.5	MG/KG	0.69	2.0E+00	17.85	
SODIUM	1070	MG/KG	85	0.0E+00	904.58	
TOLUENE	6	UG/KG		3.0E+03	4.01	
Mammal TEQ	0.025	NG/KG		8.1E-01		
Bird TEQ	0.023	NG/KG		8.1E-01		
TRICHLOROETHYLENE (TCE)	230	UG/KG		9.0E+03	195.87	
VANADIUM	28.3	MG/KG	31.1	4.6E+01	26.74	
XYLENES, TOTAL	2	UG/KG		6.0E+02		
ZINC	362	MG/KG	41.2	1.2E+02	219.81	

Legend:
Constituent requires additional investigation.

Table 5-170
AUS-A11A Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
2-METHYLNAPHTHALENE	670	UG/KG		4.6E+04	427.33	
ALUMINUM	14900	MG/KG	9071	5.0E+01	9533.12	
ANTIMONY	0.87	MG/KG	0.42	5.0E+00	0.52	
ARSENIC	9.9	MG/KG	13.25	9.0E+00	8.27	
BARIUM	229	MG/KG	238	5.0E+02	130.05	
BERYLLIUM	0.43	MG/KG	0.49	1.0E+01	0.35	
BIS(2-ETHYLHEXYL) PHTHALATE	74	UG/KG		9.3E+02	574.96	
BORON	9.5	MG/KG	4.63	5.0E-01	6.77	
CADMIUM	1.1	MG/KG	0.35	2.7E-01	0.57	
CALCIUM	83200	MG/KG	2851		38596.22	
CHROMIUM, TOTAL	79.2	MG/KG	13.77	5.0E+00	37.12	
CHRYSENE	66	UG/KG		4.7E+03		
COBALT	9.3	MG/KG	9.33	2.0E+01	5.50	
COPPER	15.4	MG/KG	9.4	3.1E+01	11.73	
DIBENZOFURAN	130	UG/KG		2.5E+04	231.66	
DI-N-BUTYL PHTHALATE	310	UG/KG		7.1E+02	668.11	
FLUORANTHENE	76	UG/KG		1.0E+05	668.11	
IRON	23500	MG/KG	19568	2.0E+02	17537.28	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	57.2	MG/KG	25.74	4.3E+02	26.72	
MAGNESIUM	12600	MG/KG	1834.254144		20894.76	
MANGANESE	1440	MG/KG	2371	1.0E+02	932.46	
MERCURY	0.09	MG/KG	0.28	1.5E-01	0.07	
NAPHTHALENE	420	UG/KG		4.6E+04	318.78	
NICKEL	19.1	MG/KG	12.59	3.0E+01	12.38	
PHENANTHRENE	170	UG/KG		1.8E+04	227.17	
POTASSIUM	826	MG/KG	691		668.11	
PYRENE	100	UG/KG		7.9E+04	668.11	
SELENIUM	1.8	MG/KG	3.17	1.0E+00	1.06	
SILVER	0.41	MG/KG	0.69	2.0E+00	0.55	
SODIUM	881	MG/KG	85		77.24	
THALLIUM	0.31	MG/KG	0.51	1.0E+00	77.24	
VANADIUM	29.6	MG/KG	31.1	4.6E+01	25.65	
ZINC	362	MG/KG	41.2	1.2E+02	132.42	

Legend:
Constituent requires additional investigation.

Table 5-171
AUS-A11H Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV Standard	95% UCL of Subarea	Comments
1-METHYLNAPHTHALENE	73	UG/KG		4.6E+04		
2,4-DINITROTOLUENE	500	UG/KG		1.3E+03		
2-METHYLNAPHTHALENE	400	UG/KG		4.6E+04		
4-CHLOROANILINE	1300	UG/KG		1.0E+03	590.55	
ACENAPHTHYLENE	63	UG/KG		8.3E+03		
ALUMINUM	16500	MG/KG	9071	5.0E+01	11764.36	
ANTHRACENE	41	UG/KG		1.0E+04	590.55	
ANTIMONY	6	MG/KG	0.42	5.0E+00	1.51	
ARSENIC	14.6	MG/KG	13.25	9.0E+00		
BARIUM	445	MG/KG	238	5.0E+02		
BENZO(A)ANTHRACENE	350	UG/KG		3.0E+03		
BENZO(A)PYRENE	380	UG/KG		3.3E+03		
BENZO(B)FLUORANTHENE	540	UG/KG		1.2E+03		
BENZO(G,H,I)PERYLENE	300	UG/KG		1.0E+05		
BENZO(K)FLUORANTHENE	520	UG/KG		9.0E+04		
BERYLLIUM	0.91	MG/KG	0.49	1.0E+01		
BIS(2-ETHYLHEXYL) PHTHALATE	2000	UG/KG		9.3E+02	542.62	The EPF states that the direct exposure SC is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
BORON	8.9	MG/KG	4.63	5.0E-01	7.01	
CADMIUM	204	MG/KG	0.35	2.7E-01	26.74	
CALCIUM	324000	MG/KG	2851			
CHROMIUM, TOTAL	585	MG/KG	13.77	5.0E+00	87.7	
CHRYSENE	400	UG/KG	0	4.7E+03		
CIS-1,2-DICHLOROETHYLENE	24	UG/KG		7.9E+02		
COBALT	21	MG/KG	9.33	2.0E+01		
COPPER	123	MG/KG	9.4	3.1E+01	25.05	
DIBENZ(A,H)ANTHRACENE	15	UG/KG		1.8E+04		
DIBENZOFURAN	180	UG/KG		2.5E+04		
DI-N-BUTYL PHTHALATE	2100	UG/KG		7.1E+02	538.77	Retained for verification of single exceedance.
FLUORANTHENE	320	UG/KG		1.0E+05		
HMX	720	UG/KG		2.5E+04		
INDENO(1,2,3-C,D)PYRENE	290	UG/KG		9.0E+04		
IRON	35000	MG/KG	19568	2.0E+02	19168.9	
LEAD	137	MG/KG	25.74	4.3E+02		
MAGNESIUM	12500	MG/KG	1834.25			
MANGANESE	3450	MG/KG	2371	1.0E+02		
MERCURY	2	MG/KG	0.28	1.5E-01	0.29	Retained for verification of single exceedance.
NAPHTHALENE	220	UG/KG		4.6E+04		
NICKEL	35.6	MG/KG	12.59	3.0E+01	16.87	
NITROGLYCERIN	16000	UG/KG				
N-NITROSODIPHENYLAMINE	330	UG/KG		2.0E+04		
PENTACHLOROPHENOL	130	UG/KG		1.2E+02	1111.63	
PHENANTHRENE	170	UG/KG		1.8E+04		
POTASSIUM	1050	MG/KG	691			
PYRENE	390	UG/KG		7.9E+04		
RDX	1300	UG/KG		1.0E+05		
SELENIUM	1.9	MG/KG	3.17	1.0E+00		
SILVER	53.5	MG/KG	0.69	2.0E+00	7.51	
SODIUM	411	MG/KG	85			
TETRACHLOROETHYLENE(PCE)	530	UG/KG		1.3E+04		
THALLIUM	0.9	MG/KG	0.51	1.0E+00		
Mammal TEQ	0.11	NG/KG		8.1E-01		
Bird TEQ	0.31	NG/KG		8.1E-01		
TOTAL 1,2-DICHLOROETHENE	25	UG/KG		7.9E+02		
TRICHLOROETHYLENE (TCE)	92	UG/KG		9.0E+03		
VANADIUM	41.1	MG/KG	31.1	4.6E+01		
ZINC	374	MG/KG	41.2	1.2E+02	122.13	

Legend:
Maximum above Eco screening value/95% UTL Background

Table 5-172
AUS-A11N Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
2-METHYLNAPHTHALENE	300	UG/KG		4.6E+04		
ACETONE	23			2.5E+03		
ALUMINUM	14300	MG/KG	9071	5.0E+01		
ANTIMONY	0.5	MG/KG	0.42	5.0E+00		
ARSENIC	10.1	MG/KG	13.25	9.0E+00		
BARIUM	199	MG/KG	238	5.0E+02		
BERYLLIUM	0.74	MG/KG	0.49	1.0E+01		
BIS(2-ETHYLHEXYL) PHTHALATE	270	UG/KG		9.3E+02		
BORON	3.7	MG/KG	4.63	5.0E-01		
CADMIUM	0.93	MG/KG	0.35	2.7E-01	0.55	
CALCIUM	15600	MG/KG	2851			
CHROMIUM, TOTAL	17.7	MG/KG	13.77	5.0E+00	14	
COBALT	14.2	MG/KG	9.33	2.0E+01		
COPPER	41.5	MG/KG	9.4	3.1E+01	12.8	EPF states that only 1 sample exceeded SC for copper and that it was not a concern in surface soils. Therefore, no additional investigation for this constituent is necessary in this area.
DIBENZOFURAN	360	UG/KG		2.5E+04		
IRON	24500	MG/KG	19568	2.0E+02		EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	342	MG/KG	25.74	4.3E+02		
MAGNESIUM	10400	MG/KG	1834.25			
MANGANESE	1340	MG/KG	2371	1.0E+02		
MERCURY	0.14	MG/KG	0.28	1.5E-01		
NAPHTHALENE	140	UG/KG		4.6E+04		
NICKEL	22.7	MG/KG	12.59	3.0E+01		
PHENANTHRENE	240	UG/KG		1.8E+04		
POTASSIUM	1020	MG/KG	691			
SELENIUM	1.2	MG/KG	3.17	1.0E+00		
SILVER	0.71	MG/KG	0.69	2.0E+00		
SODIUM	3330	MG/KG	85			
THALLIUM	0.24	MG/KG	0.51	1.0E+00		
Mammal TEQ	0.22	NG/KG		8.1E-01		
Bird TEQ	0.30	NG/KG		8.1E-01		
VANADIUM	31.1	MG/KG	31.1	4.6E+01		
ZINC	52.6	MG/KG	41.2	1.2E+02		

Legend:
Maximum above Eco screening value/95% UTL Background

Table 5-173
AUS-A11P Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
2-METHYLNAPHTHALENE	170	UG/KG		4.6E+04		
ACENAPHTHYLENE	70	UG/KG		8.3E+03		
ALUMINUM	24200	MG/KG	9071	5.0E+01	14332.15	
ANTHRACENE	190	UG/KG		1.0E+04		
ANTIMONY	0.72	MG/KG	0.42	5.0E+00		
ARSENIC	30.8	MG/KG	13.25	9.0E+00	11.81	
BARIUM	239	MG/KG	238	5.0E+02		
BENZO(A)ANTHRACENE	690	UG/KG		3.0E+03		
BENZO(A)PYRENE	760	UG/KG		3.3E+03		
BENZO(B)FLUORANTHENE	1600	UG/KG		1.2E+03	562.8	
BENZO(G,H,I)PERYLENE	550	UG/KG		1.0E+05		
BENZO(K)FLUORANTHENE	1500	UG/KG		9.0E+04		
BENZYL BUTYL PHTHALATE	1700	UG/KG		2.4E+02		
BERYLLIUM	0.86	MG/KG	0.49	1.0E+01		
BIS(2-ETHYLHEXYL) PHTHALATE	4400	UG/KG		9.3E+02	1714.58	
BORON	7.7	MG/KG	4.63	5.0E-01	5.63	
CADMIUM	1.3	MG/KG	0.35	2.7E-01		
CALCIUM	136000	MG/KG	2851			
CARBAZOLE	160	UG/KG		1.3E+04		
CHROMIUM, TOTAL	29.5	MG/KG	13.77	5.0E+00	19.02	
CHRYSENE	1200	UG/KG		4.7E+03		
COBALT	13.2	MG/KG	9.33	2.0E+01		
COPPER	70.5	MG/KG	9.4	3.1E+01		
CYANIDE	0.26	MG/KG	0.56	9.0E-01		
DIBENZ(A,H)ANTHRACENE	260	UG/KG		1.8E+04		
DIBENZOFURAN	180	UG/KG		2.5E+04		
DI-N-BUTYL PHTHALATE	270	UG/KG		7.1E+02		
FLUORANTHENE	1900	UG/KG		1.0E+05		
INDENO(1,2,3-C,D)PYRENE	510	UG/KG		9.0E+04		
IRON	43300	MG/KG	19568	2.0E+02	21820.45	
LEAD	89.7	MG/KG	25.74	4.3E+02		
MAGNESIUM	79700	MG/KG	1834.254144			
MANGANESE	1820	MG/KG	2371	1.0E+02		
MERCURY	1.3	MG/KG	0.28	1.5E-01	0.24	
NAPHTHALENE	84	UG/KG		4.6E+04		
NICKEL	23.1	MG/KG	12.59	3.0E+01		
PCB (total)	18	UG/KG		4.0E+04		
PCB-1260 (AROCHLOR 1260)	18	UG/KG		3.4E+01		
PHENANTHRENE	910	UG/KG		1.8E+04		
POTASSIUM	1400	MG/KG	691			
PYRENE	2000	UG/KG		7.9E+04		
SELENIUM	1.5	MG/KG	3.17	1.0E+00		
SILVER	0.82	MG/KG	0.69	2.0E+00		
SODIUM	108	MG/KG	85			
STYRENE	38	UG/KG		3.0E+05		
TETRACHLOROETHYLENE(PCE)	2	UG/KG		1.3E+04		
THALLIUM	0.71	MG/KG	0.51	1.0E+00		
Mammal TEQ	0.96	MG/KG		8.1E-01		
Bird TEQ	1.28	MG/KG		8.1E-01		
VANADIUM	51.2	MG/KG	31.1	4.6E+01	35.1	
ZINC	858	MG/KG	41.2	1.2E+02	146.33	

Legend:
Constituent requires additional investigation.

Table 5-174
AUS-A11S Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
1,1,2-TRICHLOROETHANE	53	UG/KG		2.9E+04		
1-METHYLNAPHTHALENE	1000	UG/KG		4.6E+04		
2,4-DINITROTOLUENE	74	UG/KG		1.3E+03		
2-METHYLNAPHTHALENE	11000	UG/KG		4.6E+04		
ACENAPHTHYLENE	500	UG/KG		8.3E+03		
ALUMINUM	20900	MG/KG	9071	5.0E+01	11370.51	
ANTHRACENE	340	UG/KG		1.0E+04		
ANTIMONY	2.6	MG/KG	0.42	5.0E+00		
ARSENIC	27.4	MG/KG	13.25	9.0E+00	10.75	
BARIUM	513	MG/KG	238	5.0E+02	144.03	
BENZO(A)ANTHRACENE	820	UG/KG		3.0E+03		
BENZO(A)PYRENE	1300	UG/KG		3.3E+03		
BENZO(B)FLUORANTHENE	2100	UG/KG		1.2E+03	1105	
BENZO(G,H,I)PERYLENE	1000	UG/KG		1.0E+05		
BENZO(K)FLUORANTHENE	1900	UG/KG		9.0E+04		
BERYLLIUM	2.8	MG/KG	0.49	1.0E+01		
BIS(2-ETHYLHEXYL) PHTHALATE	1700	UG/KG		9.3E+02	472.14	The EPF states that the direct exposure SC is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
BORON	41.9	MG/KG	4.63	5.0E-01	11.95	
CADMIUM	26.8	MG/KG	0.35	2.7E-01	4.59	
CALCIUM	234000	MG/KG	2851			
CARBAZOLE	200	UG/KG		1.3E+04		
CHROMIUM, TOTAL	28.7	MG/KG	13.77	5.0E+00	17.98	
CHRYSENE	1400	UG/KG		4.7E+03		
CIS-1,2-DICHLOROETHYLENE	1300	UG/KG		7.9E+02	206.95	
COBALT	110	MG/KG	9.33	2.0E+01	20.5	
COPPER	39.5	MG/KG	9.4	3.1E+01	17.83	
DIBENZ(A,H)ANTHRACENE	430	UG/KG		1.8E+04		
DIBENZOFURAN	3000	UG/KG		2.5E+04		
DIMETHYL PHTHALATE	1300	UG/KG		2.0E+05		
DI-N-BUTYL PHTHALATE	1600	UG/KG		7.1E+02	404.39	
ETHYLBENZENE	110	UG/KG		5.0E+03		
FLUORANTHENE	670	UG/KG		1.0E+05		
FLUORENE	70	UG/KG		2.2E+04		
INDENO(1,2,3-C,D)PYRENE	940	UG/KG		9.0E+04		
IRON	35900	MG/KG	19568	2.0E+02	22649.48	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	180	MG/KG	25.74	4.3E+02		
MAGNESIUM	85700	MG/KG	1834.254144			
MANGANESE	8930	MG/KG	2371	1.0E+02	1719.6	
MERCURY	5.1	MG/KG	0.28	1.5E-01	0.72	
METHYL ETHYL KETONE (2-BUTANONE)	1100	UG/KG		9.0E+04		
NAPHTHALENE	6200	UG/KG		4.6E+04		
NICKEL	151	MG/KG	12.59	3.0E+01	31.95	
PHENANTHRENE	4300	UG/KG		1.8E+04		
POTASSIUM	1350	MG/KG	691			
PYRENE	1200	UG/KG		7.9E+04		
SELENIUM	5.2	MG/KG	3.17	1.0E+00	1.29	
SILVER	1.4	MG/KG	0.69	2.0E+00		
SODIUM	243	MG/KG	85			
TETRACHLOROETHYLENE(PCE)	12	UG/KG		1.3E+04		
THALLIUM	2.9	MG/KG	0.51	1.0E+00	1.19	
TOLUENE	98	UG/KG		3.0E+03		
TOTAL 1,2-DICHLOROETHENE	1300	UG/KG		7.9E+02	210.83	
TRANS-1,2-DICHLOROETHENE	9	UG/KG		7.9E+02		
TRICHLOROETHYLENE (TCE)	21000	UG/KG		9.0E+03	1530.99	
VANADIUM	57.4	MG/KG	31.1	4.6E+01	31.26	EPF states that vanadium exceeds screening concentrations in 2 samples and is not a bioaccumulative concern and max is within the range reported for background. Therefore, this constituent requires no further investigation in this area.
XYLENES, TOTAL	450	UG/KG		6.0E+02		
ZINC	685	MG/KG	41.2	1.2E+02	186.09	

Legend:
Constituent requires additional investigation.

Table 5-175
AUS-0A12 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
1-METHYLNAPHTHALENE	3900	UG/KG		4.6E+04	526.35	
2,4,6-TRINITROTOLUENE	1500	UG/KG		3.0E+04	357.59	
2,4-DINITROTOLUENE	490	UG/KG		1.3E+03	250.98	
2,6-DINITROTOLUENE	92	UG/KG		3.3E+01	299.86	
2-METHYLNAPHTHALENE	9100	UG/KG		4.6E+04	658.57	
4-AMINO-2,6-DINITROTOLUENE	4600	UG/KG			389.19	
4-NITROTOLUENE	6100	UG/KG			397.62	
ACENAPHTHENE	1300	UG/KG		8.3E+03	207.45	
ACENAPHTHYLENE	2400	UG/KG		8.3E+03	240.65	
ACETONE	72	UG/KG		2.5E+03	9.98	
ALUMINUM	22900	MG/KG	9071	5.0E+01	7805.75	
ANTHRACENE	590	UG/KG		1.0E+04	175.25	
ANTIMONY	76.4	MG/KG	0.42	5.0E+00		
ARSENIC	26.1	MG/KG	13.25	9.0E+00	8.00	
BARIUM	1430	MG/KG	238	5.0E+02	139.38	
BENZO(A)ANTHRACENE	1100	UG/KG		3.0E+03	182.30	
BENZO(A)PYRENE	590	UG/KG		3.3E+03	180.81	
BENZO(B)FLUORANTHENE	410	UG/KG		1.2E+03	174.50	
BENZO(G,H,I)PERYLENE	2600	UG/KG		1.0E+05	203.04	
BENZO(K)FLUORANTHENE	480	UG/KG		9.0E+04	174.14	
BERYLLIUM	1	MG/KG	0.49	1.0E+01	0.39	
BIS(2-ETHYLHEXYL) PHTHALATE	9100	UG/KG		9.3E+02	457.38	
BORON	66.8	MG/KG	4.63	5.0E-01	7.48	
CADMIUM	15.2	MG/KG	0.35	2.7E-01	1.01	
CALCIUM	75100	MG/KG	2851		8589.53	
CARBAZOLE	350	UG/KG		1.3E+04	223.95	
CARBON TETRACHLORIDE	360	UG/KG		1.0E+06	17.96	
CHLOROFORM	260	UG/KG		1.2E+03	15.21	
CHROMIUM, TOTAL	4010	MG/KG	13.77	5.0E+00	69.15	
CHRYSENE	1800	UG/KG		4.7E+03	219.79	
CIS-1,2-DICHLOROETHYLENE	490	UG/KG		7.9E+02	36.13	
COBALT	30.9	MG/KG	9.33	2.0E+01	8.01	
COPPER	846	MG/KG	9.4	3.1E+01	37.22	
DIBENZ(A,H)ANTHRACENE	88	UG/KG		1.8E+04	174.56	
DIBENZOFURAN	2800	UG/KG		2.5E+04	305.32	
DI-N-BUTYL PHTHALATE	1700	UG/KG		7.1E+02	322.55	
FLUORANTHENE	990	UG/KG		1.0E+05	201.45	
FLUORENE	270	UG/KG		2.2E+04	177.03	
HMX	39000	UG/KG		2.5E+04	1270.16	Retained by Eco WG
INDENO(1,2,3-C,D)PYRENE	480	UG/KG		9.0E+04	175.85	
IRON	69000	MG/KG	19568	2.0E+02	17519.21	
LEAD	7270	MG/KG	25.74	4.3E+02	157.06	Retained by Eco WG
MAGNESIUM	27900	MG/KG	1834.254144		3801.71	
MANGANESE	20400	MG/KG	2371	1.0E+02	1172.32	Retained by Eco WG
MERCURY	0.39	MG/KG	0.28	1.5E-01	0.11	
METHYLENE CHLORIDE	34	UG/KG		4.1E+03		
NAPHTHALENE	3900	UG/KG		4.6E+04	330.26	
NICKEL	53.8	MG/KG	12.59	3.0E+01	12.94	
N-NITROSODIPHENYLAMINE	560	UG/KG		2.0E+04	234.39	
PCB (total)	49	UG/KG		4.0E+04	49.00	
PCB-1254 (AROCHLOR 1254)	28	UG/KG		3.4E+01	28.00	
PCB-1260 (AROCHLOR 1260)	21	UG/KG		3.4E+01	21.00	
PENTACHLOROPHENOL	1500	UG/KG		1.2E+02	1155.99	
PHENANTHRENE	4800	UG/KG		1.8E+04	342.66	
POTASSIUM	1550	MG/KG	691		530.27	
PYRENE	1600	UG/KG		7.9E+04	204.93	
RDX	17000	UG/KG		1.0E+05	896.20	
SELENIUM	7.7	MG/KG	3.17	1.0E+00	0.97	
SILVER	4	MG/KG	0.69	2.0E+00	0.76	Retained by Eco WG
SODIUM	4430	MG/KG	85		253.17	
TETRACHLOROETHYLENE(PCE)	2200	UG/KG		1.3E+04	109.92	
THALLIUM	1.8	MG/KG	0.51	1.0E+00	0.68	Retained by Eco WG
TOLUENE	4	UG/KG		3.0E+03	2.98	
TOTAL 1,2-DICHLOROETHENE	6	UG/KG		7.9E+02		
Mammal TEQ	5.20	NG/KG		8.1E-01		
Bird TEQ	6.22	NG/KG		8.1E-01		
TRANS-1,2-DICHLOROETHENE	5	UG/KG		7.9E+02		
TRICHLOROETHYLENE (TCE)	51	UG/KG		9.0E+03	6.34	
VANADIUM	39.7	MG/KG	31.1	4.6E+01	21.71	
ZINC	1970	MG/KG	41.2	1.2E+02	164.82	

Legend:
Constituent requires additional investigation.

Table 5-176
AUS-0A13 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Subarea	Comments
2,4-DINITROTOLUENE	64000	UG/KG		1.3E+03	5746.49	
2,6-DINITROTOLUENE	2900	UG/KG		3.3E+01	447.78	
2-METHYLNAPHTHALENE	130	UG/KG		4.6E+04	214.69	
4-CHLORO-3-METHYLPHENOL	160	UG/KG		8.0E+03	222.63	
ACENAPHTHENE	580	UG/KG		8.3E+03	235.94	
ACENAPHTHYLENE	120	UG/KG		8.3E+03	222.95	
ALUMINUM	8170	MG/KG	9071	5.0E+01	6464.68	
ANTHRACENE	1600	UG/KG		1.0E+04	317.41	
ANTIMONY	1.6	MG/KG	0.42	5.0E+00	0.57	
ARSENIC	9.9	MG/KG	13.25	9.0E+00	6.10	
BARIUM	245	MG/KG	238	5.0E+02	112.63	
BENZO(A)ANTHRACENE	5500	UG/KG		3.0E+03	712.69	
BENZO(A)PYRENE	5300	UG/KG		3.3E+03	698.34	
BENZO(B)FLUORANTHENE	6700	UG/KG		1.2E+03	854.72	
BENZO(G,H,I)PERYLENE	4300	UG/KG		1.0E+05	584.89	
BENZO(K)FLUORANTHENE	5900	UG/KG		9.0E+04	765.00	
BENZYL BUTYL PHTHALATE	390	UG/KG		2.4E+02	233.02	
BIS(2-ETHYLHEXYL) PHTHALATE	11000	UG/KG		9.3E+02	1238.28	The EPF states that the direct exposure SC is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
BORON	5.8	MG/KG	4.63	5.0E-01	4.50	
CADMIUM	0.54	MG/KG	0.35	2.7E-01	0.34	
CALCIUM	359000	MG/KG	2851		53881.70	
CARBAZOLE	960	UG/KG		1.3E+04	264.96	
CHROMIUM, TOTAL	155	MG/KG	13.77	5.0E+00	22.23	
CHRYSENE	7800	UG/KG		4.7E+03	976.55	
COBALT	18.2	MG/KG	9.33	2.0E+01	6.59	
COPPER	117	MG/KG	9.4	3.1E+01	24.46	
DIBENZ(A,H)ANTHRACENE	1900	UG/KG		1.8E+04	360.87	
DIBENZOFURAN	440	UG/KG		2.5E+04	223.00	
DIMETHYL PHTHALATE	68	UG/KG		2.0E+05	223.43	
DI-N-BUTYL PHTHALATE	230000	UG/KG		7.1E+02	20339.71	
DI-N-OCTYLPHTHALATE	85	UG/KG		6.1E+05	221.93	
FLUORANTHENE	11000	UG/KG		1.0E+05	1335.33	
FLUORENE	550	UG/KG		2.2E+04	239.05	
INDENO(1,2,3-C,D)PYRENE	3800	UG/KG		9.0E+04	534.53	
IRON	25200	MG/KG	19568	2.0E+02	14325.24	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	73	MG/KG	25.74	4.3E+02	24.57	
MAGNESIUM	42900	MG/KG	1834.254144		9874.09	
MANGANESE	1500	MG/KG	2371	1.0E+02	705.72	
MERCURY	0.83	MG/KG	0.28	1.5E-01	0.16	
NAPHTHALENE	110	UG/KG		4.6E+04	224.02	
NICKEL	18	MG/KG	12.59	3.0E+01	10.86	
NITROGLYCERIN	300000	UG/KG			26829.17	
N-NITROSODIPHENYLAMINE	52000	UG/KG		2.0E+04	4749.60	Retained by Eco WG due to exceedance in sample located at site boundary
PHENANTHRENE	7600	UG/KG		1.8E+04	952.06	
PHENOL	55	UG/KG		4.0E+04	223.63	
POTASSIUM	889	MG/KG	691		536.54	
PYRENE	9500	UG/KG		7.9E+04	1228.70	
SELENIUM	4.2	MG/KG	3.17	1.0E+00	1.19	
SILVER	0.55	MG/KG	0.69	2.0E+00	0.67	
THALLIUM	0.24	MG/KG	0.51	1.0E+00	0.67	
TOTAL ORGANIC CARBON	35300	MG/KG			28500.00	
VANADIUM	26.5	MG/KG	31.1	4.6E+01	18.79	
ZINC	236	MG/KG	41.2	1.2E+02	62.20	Retained by Eco WG due to exceedance in 2 samples located at site boundary

Legend:
Constituent requires additional investigation.

Table 5-177
AUS-0062 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
ALUMINUM	28000	MG/KG	9071	5.0E+01	14987.79	
ANTIMONY	0.52	MG/KG	0.42	5.0E+00	0.50	
ARSENIC	8.6	MG/KG	13.25	9.0E+00	8.54	
BARIUM	105	MG/KG	238	5.0E+02	107.61	
BERYLLIUM	0.71	MG/KG	0.49	1.0E+01	0.72	
BORON	1.6	MG/KG	4.63	5.0E-01	6.79	
CADMIUM	0.78	MG/KG	0.35	2.7E-01	0.79	
CALCIUM	2390	MG/KG	2851		2336.30	
CHROMIUM, TOTAL	29.8	MG/KG	13.77	5.0E+00	22.12	
COBALT	10	MG/KG	9.33	2.0E+01	9.95	
COPPER	15.6	MG/KG	9.4	3.1E+01	15.41	
IRON	26100	MG/KG	19568	2.0E+02	26008.43	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	37.5	MG/KG	25.74	4.3E+02	34.18	
MAGNESIUM	3230	MG/KG	1834.25		2713.03	
MANGANESE	541	MG/KG	2371	1.0E+02	519.59	
MERCURY	0.051	MG/KG	0.28	1.5E-01	0.04	
NICKEL	24.1	MG/KG	12.59	3.0E+01	23.76	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
POTASSIUM	1300	MG/KG	691		1333.47	
SELENIUM	1.1	MG/KG	3.17	1.0E+00	0.98	
SODIUM	545	MG/KG	85		58.39	
THALLIUM	0.66	MG/KG	0.51	1.0E+00	0.65	
TRICHLOROETHYLENE (TCE)	4	UG/KG		9.0E+03	3.09	
VANADIUM	43	MG/KG	31.1	4.6E+01	42.14	
ZINC	56	MG/KG	41.2	1.2E+02	57.73	

Legend:
Constituent requires additional investigation.

Table 5-178
AUS-0065 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
2,4-DIMETHYLPHENOL	1100	UG/KG		1.0E+01	438.55	
2-METHYLNAPHTHALENE	3500	UG/KG		4.6E+04	1122.95	
2-METHYLPHENOL (O-CRESOL)	760	UG/KG		4.0E+04	353.76	
4-METHYLPHENOL (P-CRESOL)	2600	UG/KG		1.6E+05	802.39	
4-NITROTOLUENE	1700	UG/KG			707.63	
ACENAPHTHENE	850	UG/KG		8.3E+03	391.31	
ACENAPHTHYLENE	7200	UG/KG		8.3E+03	2032.07	
ALUMINUM	12700	MG/KG	9071	5.0E+01	11017.67	
ANTHRACENE	5900	UG/KG		1.0E+04	1922.66	
ANTIMONY	0.76	MG/KG	0.42	5.0E+00	0.54	
ARSENIC	9.7	MG/KG	13.25	9.0E+00	7.94	
BARIUM	164	MG/KG	238	5.0E+02	141.25	
BENZO(A)ANTHRACENE	11000	UG/KG		3.0E+03	3217.21	
BENZO(A)PYRENE	12000	UG/KG		3.3E+03	3524.70	
BENZO(B)FLUORANTHENE	11000	UG/KG		1.2E+03	3229.28	
BENZO(G,H,I)PERYLENE	12000	UG/KG		1.0E+05	3496.54	
BENZO(K)FLUORANTHENE	9200	UG/KG		9.0E+04	2822.15	
BERYLLIUM	0.86	MG/KG	0.49	1.0E+01	0.60	
BIS(2-ETHYLHEXYL) PHTHALATE	1400	UG/KG		9.3E+02	608.36	
BORON	11.7	MG/KG	4.63	5.0E-01	7.38	
CADMIUM	1.3	MG/KG	0.35	2.7E-01	0.82	
CALCIUM	106000	MG/KG	2851		27255.54	
CARBAZOLE	5600	UG/KG		1.3E+04	1667.83	
CHROMIUM, TOTAL	20.6	MG/KG	13.77	5.0E+00	17.34	
CHRYSENE	14000	UG/KG		4.7E+03	4128.30	
COBALT	11.6	MG/KG	9.33	2.0E+01	9.03	
COPPER	33.4	MG/KG	9.4	3.1E+01	22.67	
DIBENZ(A,H)ANTHRACENE	4700	UG/KG		1.8E+04	1419.43	
DIBENZOFURAN	3100	UG/KG		2.5E+04	994.87	
FLUORANTHENE	21000	UG/KG		1.0E+05	5749.84	
FLUORENE	5100	UG/KG		2.2E+04	1441.45	
INDENO(1,2,3-C,D)PYRENE	9900	UG/KG		9.0E+04	2890.02	
IRON	19300	MG/KG	19568	2.0E+02	18272.40	
LEAD	212	MG/KG	25.74	4.3E+02	110.39	
MAGNESIUM	11100	MG/KG	1834.25		3552.46	
MANGANESE	1140	MG/KG	2371	1.0E+02	810.36	
MERCURY	0.48	MG/KG	0.28	1.5E-01	0.19	
NAPHTHALENE	4700	UG/KG		4.6E+04	1384.27	
NICKEL	14.1	MG/KG	12.59	3.0E+01	13.05	
PHENANTHRENE	27000	UG/KG		1.8E+04	7702.25	
PHENOL	940	UG/KG		4.0E+04	400.74	
POTASSIUM	1340	MG/KG	691		1266.66	
PYRENE	17000	UG/KG		7.9E+04	5108.13	
SELENIUM	1.4	MG/KG	3.17	1.0E+00	0.97	
SODIUM	143	MG/KG	85		71.55	
TOTAL ORGANIC CARBON	27900	MG/KG				
VANADIUM	37.9	MG/KG	31.1	4.6E+01	30.79	
ZINC	351	MG/KG	41.2	1.2E+02	241.11	

Legend:
Constituent requires additional investigation.

Table 5-179
AUS-0066 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
2-METHYLNAPHTHALENE	84	UG/KG		4.6E+04	248.38	
ALUMINUM	14400	MG/KG	9071	5.0E+01	13714.09	
ARSENIC	6.9	MG/KG	13.25	9.0E+00	7.42	
BARIUM	132	MG/KG	238	5.0E+02	122.49	
BERYLLIUM	0.67	MG/KG	0.49	1.0E+01	0.70	
BIS(2-ETHYLHEXYL) PHTHALATE	50	UG/KG		9.3E+02	236.08	
CADMIUM	0.59	MG/KG	0.35	2.7E-01	0.54	
CALCIUM	799	MG/KG	2851		923.09	
CHROMIUM, TOTAL	20.7	MG/KG	13.77	5.0E+00	21.25	
COBALT	22.8	MG/KG	9.33	2.0E+01	23.83	
COPPER	11.3	MG/KG	9.4	3.1E+01	11.52	
IRON	21800	MG/KG	19568	2.0E+02	22428.26	
LEAD	26.1	MG/KG	25.74	4.3E+02	25.59	
MAGNESIUM	1970	MG/KG	1834.25		1858.07	
MANGANESE	1700	MG/KG	2371	1.0E+02	1649.80	
MERCURY	0.038	MG/KG	0.28	1.5E-01	0.04	
NICKEL	17.3	MG/KG	12.59	3.0E+01	16.74	
PHENANTHRENE	49	UG/KG		1.8E+04	260.18	
POTASSIUM	818	MG/KG	691		834.90	
SELENIUM	0.52	MG/KG	3.17	1.0E+00	0.50	
SODIUM	52.8	MG/KG	85		50.30	
THALLIUM	0.57	MG/KG	0.51	1.0E+00	0.68	
VANADIUM	33.2	MG/KG	31.1	4.6E+01	34.17	
ZINC	56.7	MG/KG	41.2	1.2E+02	55.78	

Legend:
Constituent requires additional investigation.

Table 5-180
AUS-0067 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximium	Units	Background	ESV	95% UCL of Area	Comments
2-METHYLNAPHTHALENE	950	UG/KG		4.6E+04	1244.65	
ALUMINUM	17700	MG/KG	9071	5.0E+01	18867.64	
ANTHRACENE	66	UG/KG		1.0E+04	258.92	
ANTIMONY	0.76	MG/KG	0.42	5.0E+00	0.85	
ARSENIC	14.2	MG/KG	13.25	9.0E+00	15.53	
BARIUM	274	MG/KG	238	5.0E+02	322.46	
BENZO(A)ANTHRACENE	200	UG/KG		3.0E+03	266.18	
BENZO(A)PYRENE	130	UG/KG		3.3E+03	253.69	
BENZO(B)FLUORANTHENE	180	UG/KG		1.2E+03	273.89	
BERYLLIUM	1	MG/KG	0.49	1.0E+01	1.17	
BIS(2-ETHYLHEXYL) PHTHALATE	200	UG/KG		9.3E+02	298.69	
BORON	7.2	MG/KG	4.63	5.0E-01	8.49	
CADMIUM	1.5	MG/KG	0.35	2.7E-01	1.87	
CALCIUM	2290	MG/KG	2851		2616.41	
CARBAZOLE	57	UG/KG		1.3E+04	307.92	
CHROMIUM, TOTAL	22.2	MG/KG	13.77	5.0E+00	22.95	
CHRYSENE	210	UG/KG		4.7E+03	281.68	
COBALT	14	MG/KG	9.33	2.0E+01	15.26	
COPPER	36.1	MG/KG	9.4	3.1E+01	41.70	
DIBENZOFURAN	360	UG/KG		2.5E+04	405.43	
FLUORANTHENE	240	UG/KG		1.0E+05	301.42	
IRON	35100	MG/KG	19568	2.0E+02	39469.14	
LEAD	227	MG/KG	25.74	4.3E+02	286.72	
MAGNESIUM	2940	MG/KG	1834.25		3310.36	
MANGANESE	1880	MG/KG	2371	1.0E+02	2260.72	
MERCURY	0.12	MG/KG	0.28	1.5E-01	0.14	
NAPHTHALENE	360	UG/KG		4.6E+04	404.72	
NICKEL	22.9	MG/KG	12.59	3.0E+01	24.61	
PHENANTHRENE	770	UG/KG		1.8E+04	969.11	
POTASSIUM	1630	MG/KG	691		1759.45	
PYRENE	310	UG/KG		7.9E+04	355.43	
SELENIUM	0.89	MG/KG	3.17	1.0E+00	1.05	
SODIUM	76.2	MG/KG	85		82.69	
TETRYL	3100	UG/KG			3906.52	
THALLIUM	0.49	MG/KG	0.51	1.0E+00	0.82	
VANADIUM	41	MG/KG	31.1	4.6E+01	41.21	
ZINC	355	MG/KG	41.2	1.2E+02	439.80	

Legend:
Constituent requires additional investigation.

Table 5-181
AUS-0069 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
2,4,6-TRINITROTOLUENE	680	UG/KG		3.0E+04	397.15	
2-AMINO-4,6-DINITROTOLUENE	370	UG/KG		8.0E+04	345.50	
2-METHYLNAPHTHALENE	72	UG/KG		4.6E+04	226.18	
4-AMINO-2,6-DINITROTOLUENE	250	UG/KG			340.36	
ALUMINUM	14800	MG/KG	9071	5.0E+01	12053.73	
ANTHRACENE	130	UG/KG		1.0E+04	226.34	
ANTIMONY	173	MG/KG	0.42	5.0E+00	41.12	
ARSENIC	48.1	MG/KG	13.25	9.0E+00	22.86	
BARIUM	4940	MG/KG	238	5.0E+02	1473.28	
BENZO(A)ANTHRACENE	1700	UG/KG		3.0E+03	478.38	
BENZO(A)PYRENE	2200	UG/KG		3.3E+03	573.57	
BENZO(B)FLUORANTHENE	2600	UG/KG		1.2E+03	652.58	
BENZO(G,H,I)PERYLENE	2000	UG/KG		1.0E+05	576.39	
BENZO(K)FLUORANTHENE	1700	UG/KG		9.0E+04	486.65	
BERYLLIUM	1.6	MG/KG	0.49	1.0E+01	0.77	
BIS(2-ETHYLHEXYL) PHTHALATE	120	UG/KG		9.3E+02	215.66	
BORON	84.2	MG/KG	4.63	5.0E-01	35.51	
CADMIUM	28	MG/KG	0.35	2.7E-01	10.11	
CALCIUM	51300	MG/KG	2851		21108.98	
CARBAZOLE	77	UG/KG		1.3E+04	228.31	
CHROMIUM, TOTAL	266	MG/KG	13.77	5.0E+00	93.89	
CHRYSENE	1800	UG/KG		4.7E+03	492.81	
COBALT	28.6	MG/KG	9.33	2.0E+01	14.07	
COPPER	7060	MG/KG	9.4	3.1E+01	1734.80	
DIBENZ(A,H)ANTHRACENE	630	UG/KG		1.8E+04	295.70	
DIBENZOFURAN	65	UG/KG		2.5E+04	226.49	
DI-N-BUTYL PHTHALATE	720	UG/KG		7.1E+02	307.07	
FLUORANTHENE	2400	UG/KG		1.0E+05	600.16	
INDENO(1,2,3-C,D)PYRENE	1700	UG/KG		9.0E+04	479.55	
IRON	308000	MG/KG	19568	2.0E+02	92326.27	
LEAD	51000	MG/KG	25.74	4.3E+02	10598.28	
MAGNESIUM	13900	MG/KG	1834.254144		7011.63	
MANGANESE	1620	MG/KG	2371	1.0E+02	1135.78	
MERCURY	0.52	MG/KG	0.28	1.5E-01	0.23	
NAPHTHALENE	160	UG/KG		4.6E+04	223.80	
NICKEL	130	MG/KG	12.59	3.0E+01	53.86	
PHENANTHRENE	440	UG/KG		1.8E+04	245.60	
POTASSIUM	1580	MG/KG	691		1227.48	
PYRENE	2200	UG/KG		7.9E+04	557.91	
SELENIUM	4.1	MG/KG	3.17	1.0E+00	1.88	
SILVER	15.3	MG/KG	0.69	2.0E+00	5.55	
SODIUM	1080	MG/KG	85		425.02	
TETRACHLOROETHYLENE(PCE)	5	UG/KG		1.3E+04	3.33	
VANADIUM	89.5	MG/KG	31.1	4.6E+01	36.34	
ZINC	16400	MG/KG	41.2	1.2E+02	4083.02	

Legend:
Constituent requires additional investigation.

Table 5-182
AUS-0001 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
ACENAPHTHYLENE	150	UG/KG		8.3E+03	244.05	
ALUMINUM	13200	MG/KG	9071	5.0E+01	11967.13	
ANTHRACENE	170	UG/KG		1.0E+04	238.25	
ANTIMONY	1.1	MG/KG	0.42	5.0E+00	0.99	
ARSENIC	535	MG/KG	13.25	9.0E+00	449.93	
BARIUM	176	MG/KG	238	5.0E+02	176.69	
BENZO(A)ANTHRACENE	620	UG/KG		3.0E+03	555.52	
BENZO(A)PYRENE	330	UG/KG		3.3E+03	313.57	
BENZO(B)FLUORANTHENE	1700	UG/KG		1.2E+03	1460.60	
BENZO(G,H,I)PERYLENE	360	UG/KG		1.0E+05	338.38	
BENZO(K)FLUORANTHENE	450	UG/KG		9.0E+04	413.34	
BERYLLIUM	0.85	MG/KG	0.49	1.0E+01	0.77	
BIS(2-ETHYLHEXYL) PHTHALATE	280	UG/KG		9.3E+02	264.79	
BORON	36.8	MG/KG	4.63	5.0E-01	31.91	
CADMIUM	2.7	MG/KG	0.35	2.7E-01	2.39	
CALCIUM	16400	MG/KG	2851		13854.50	
CARBAZOLE	56	UG/KG		1.3E+04	274.38	
CHROMIUM, TOTAL	27	MG/KG	13.77	5.0E+00	28.33	
CHRYSENE	1500	UG/KG		4.7E+03	1292.95	
COBALT	8.3	MG/KG	9.33	2.0E+01	8.11	
COPPER	94	MG/KG	9.4	3.1E+01	84.16	
DI-N-BUTYL PHTHALATE	86	UG/KG		7.1E+02	266.36	
FLUORANTHENE	2600	UG/KG		1.0E+05	2211.02	
INDENO(1,2,3-C,D)PYRENE	480	UG/KG		9.0E+04	438.40	
IRON	24800	MG/KG	19568	2.0E+02	25897.70	
LEAD	1050	MG/KG	25.74	4.3E+02	914.47	
MAGNESIUM	2270	MG/KG	1834.25		2143.42	
MANGANESE	437	MG/KG	2371	1.0E+02	399.64	
MERCURY	0.26	MG/KG	0.28	1.5E-01	0.23	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
NICKEL	21.2	MG/KG	12.59	3.0E+01	20.11	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
PHENANTHRENE	1200	UG/KG		1.8E+04	1041.49	
POTASSIUM	1430	MG/KG	691		1329.81	
PYRENE	1600	UG/KG		7.9E+04	1376.77	
SELENIUM	12.9	MG/KG	3.17	1.0E+00	10.94	
SILVER	3.4	MG/KG	0.69	2.0E+00	2.92	
SODIUM	406	MG/KG	85		355.47	
THALLIUM	2.4	MG/KG	0.51	1.0E+00	2.12	
VANADIUM	55.7	MG/KG	31.1	4.6E+01	52.41	
ZINC	1410	MG/KG	41.2	1.2E+02	1182.24	

Legend:
Constituent requires further investigation.

Table 5-183
AUS-0002 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
ALUMINUM	12300	MG/KG	9071	5.0E+01	16551.00	
ANTIMONY	0.27	MG/KG	0.42	5.0E+00	1.11	
ARSENIC	6.9	MG/KG	13.25	9.0E+00	6.90	
BARIUM	108	MG/KG	238	5.0E+02	123.94	
BERYLLIUM	0.41	MG/KG	0.49	1.0E+01	0.41	
BORON	1.4	MG/KG	4.63	5.0E-01	2.20	
CADMIUM	2	MG/KG	0.35	2.7E-01	6.45	
CALCIUM	6430	MG/KG	2851		16472.98	
CHROMIUM, TOTAL	18.3	MG/KG	13.77	5.0E+00	23.88	
COBALT	9.9	MG/KG	9.33	2.0E+01	14.68	
COPPER	12.1	MG/KG	9.4	3.1E+01	17.41	
IRON	20700	MG/KG	19568	2.0E+02	29999.06	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	20.9	MG/KG	25.74	4.3E+02	38.44	
MAGNESIUM	2500	MG/KG	1834.25		3961.28	
MANGANESE	1660	MG/KG	2371	1.0E+02	4478.94	
MERCURY	0.091	MG/KG	0.28	1.5E-01	0.27	
NICKEL	10.8	MG/KG	12.59	3.0E+01	15.85	
POTASSIUM	1080	MG/KG	691		1420.08	
SILVER	0.89	MG/KG	0.69	2.0E+00	2.03	
SODIUM	142	MG/KG	85		189.82	
TOLUENE	2	UG/KG		3.0E+03	2.00	
VANADIUM	29.3	MG/KG	31.1	4.6E+01	36.74	
ZINC	53.1	MG/KG	41.2	1.2E+02	90.30	

Legend:
Constituent requires further investigation.

Table 5-184
AUS-0018 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
ACETONE	40	UG/KG		2.5E+03	27.21	
ALUMINUM	16800	MG/KG	9071	5.0E+01	15747	
ANTIMONY	0.59	MG/KG		5.0E+00		
ARSENIC	12.6	MG/KG	13.25	9.0E+00	10.26	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
BARIUM	225	MG/KG	238	5.0E+02	190.35	
BERYLLIUM	0.79	MG/KG	0.49	1.0E+01	0.76	
BORON	0.84	MG/KG	4.63	5.0E-01	7.73	
CADMIUM	0.82	MG/KG	0.35	2.7E-01	4489.51	
CHROMIUM, TOTAL	20.5	MG/KG	13.77	5.0E+00	19.91	
COBALT	13.5	MG/KG	9.33	2.0E+01	12.16	
COPPER	17.3	MG/KG	9.4	3.1E+01	15.96	
IRON	25800	MG/KG	19568	2.0E+02	22951.53	
LEAD	34.3	MG/KG	25.74	4.3E+02	26.51	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
MAGNESIUM	113000	MG/KG	1834.25		3820.09	
MANGANESE	1210	MG/KG	2371	1.0E+02	1006.78	
MERCURY	0.09	MG/KG	0.28	1.5E-01	0.03	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
NICKEL	16.2	MG/KG	12.59	3.0E+01	15.46	
POTASSIUM	817	MG/KG	691		771.82	
SELENIUM	0.69	MG/KG	3.17	1.0E+00	0.56	
SODIUM	93.9	MG/KG	85		81.3	
THALLIUM	0.69	MG/KG	0.51	1.0E+00	0.65	
VANADIUM	40.4	MG/KG	31.1	4.6E+01	36.01	
ZINC	110	MG/KG	41.2	1.2E+02	100.81	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.

Legend:
Constituent requires additional investigation.

Table 5-185
AUS-0043 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
2,6-DINITROTOLUENE	950	UG/KG		3.3E+01	1079.59	
2-METHYLNAPHTHALENE	46	UG/KG		4.6E+04	834.3	
ACENAPHTHYLENE	290	UG/KG		8.3E+03	280.6	
ALUMINUM	13800	MG/KG	9071	5.0E+01	16942.35	
ANTHRACENE	240	UG/KG		1.0E+04	242.32	
ANTIMONY	0.91	MG/KG	0.42	5.0E+00	0.84	
ARSENIC	12.2	MG/KG	13.25	9.0E+00	12.32	
BARIUM	123	MG/KG	238	5.0E+02	138.86	
BENZO(A)ANTHRACENE	1200	UG/KG		3.0E+03	1041.71	
BENZO(A)PYRENE	1200	UG/KG		3.3E+03	1041.71	
BENZO(B)FLUORANTHENE	3000	UG/KG		1.2E+03	2550.64	
BENZO(G,H,I)PERYLENE	1300	UG/KG		1.0E+05	1125.54	
BENZO(K)FLUORANTHENE	1000	UG/KG		9.0E+04	874.08	
BERYLLIUM	0.53	MG/KG	0.49	1.0E+01	0.57	
BIS(2-ETHYLHEXYL) PHTHALATE	370	UG/KG		9.3E+02	365.83	
BORON	7.7	MG/KG	4.63	5.0E-01	8.37	
CADMIUM	0.62	MG/KG	0.35	2.7E-01	0.63	
CALCIUM	160000	MG/KG	2851		134764.5	
CHROMIUM, TOTAL	19.4	MG/KG	13.77	5.0E+00	22.43	
CHRYSENE	1600	UG/KG		4.7E+03	1377.01	
COBALT	7.1	MG/KG	9.33	2.0E+01	7.1	
COPPER	18	MG/KG	9.4	3.1E+01	19.27	
FLUORANTHENE	900	UG/KG		1.0E+05	790.27	
INDENO(1,2,3-C,D)PYRENE	1100	UG/KG		9.0E+04	957.9	
IRON	19400	MG/KG	19568	2.0E+02	23153.9	
LEAD	1110	MG/KG	25.74	4.3E+02	940.69	
MAGNESIUM	97300	MG/KG	1834.25		82068.95	
MANGANESE	413	MG/KG	2371	1.0E+02	415.59	
MERCURY	0.063	MG/KG	0.28	1.5E-01	0.06	
NICKEL	17.9	MG/KG	12.59	3.0E+01	20.28	
PHENANTHRENE	76	UG/KG		1.8E+04	832.74	
POTASSIUM	1070	MG/KG	691		1146.79	
PYRENE	1900	UG/KG		7.9E+04	1624.85	
SODIUM	189	MG/KG	85		165.24	
TETRYL	480	UG/KG			480	
VANADIUM	28.8	MG/KG	31.1	4.6E+01	36.27	
ZINC	211	MG/KG	41.2	1.2E+02	210.84	

Legend:
Constituent requires additional investigation.

Table 5-186
AUS-0060 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
ALUMINUM	15100	MG/KG	9071	5.0E+01	15801.04	
ANTIMONY	0.45	MG/KG	0.42	5.0E+00	0.52	
ARSENIC	12.2	MG/KG	13.25	9.0E+00	14.89	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
BARIUM	122	MG/KG	238	5.0E+02	136.92	
BERYLLIUM	0.66	MG/KG	0.49	1.0E+01	0.77	
BORON	3.1	MG/KG	4.63	5.0E-01	3.90	
CALCIUM	1710	MG/KG	2851		2428.09	
CHROMIUM, TOTAL	19.6	MG/KG	13.77	5.0E+00	20.23	
COBALT	8.5	MG/KG	9.33	2.0E+01	10.57	
COPPER	12.1	MG/KG	9.4	3.1E+01	12.46	
IRON	22600	MG/KG	19568	2.0E+02	23715.69	EPF states that Iron is an essential nutrient and requires no further investigation.
LEAD	26.1	MG/KG	25.74	4.3E+02	30.49	A USEPA soil sample is the cause of the exceedance in the EPF. The concentration of this analyte in the USEPA soil sample is proposed for verification.
MAGNESIUM	2490	MG/KG	1834.25		2746.00	
MANGANESE	941	MG/KG	2371	1.0E+02	1118.75	
MERCURY	0.14	MG/KG	0.28	1.5E-01	0.17	
NICKEL	13	MG/KG	12.59	3.0E+01	14.30	
POTASSIUM	806	MG/KG	691		811.90	
SELENIUM	2	MG/KG	3.17	1.0E+00	2.15	
SODIUM	46.9	MG/KG	85		50.39	
VANADIUM	43.6	MG/KG	31.1	4.6E+01	46.64	
ZINC	53	MG/KG	41.2	1.2E+02	56.13	

Legend:
Constituent requires additional investigation.

Table 5-187
AUS-0061 Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
2-METHYLNAPHTHALENE	70	UG/KG		4.6E+04	248.01	
ACENAPHTHYLENE	850	UG/KG		8.3E+03	645.47	
ALUMINUM	12800	MG/KG	9071	5.0E+01	10474.68	
ANTHRACENE	800	UG/KG		1.0E+04	503.88	
ANTIMONY	7.3	MG/KG	0.42	5.0E+00	4.51	
ARSENIC	13.6	MG/KG	13.25	9.0E+00	9.77	
BARIUM	141	MG/KG	238	5.0E+02	133.88	
BENZO(A)ANTHRACENE	3000	UG/KG		3.0E+03	1978.06	
BENZO(A)PYRENE	3300	UG/KG		3.3E+03	2369.38	
BENZO(B)FLUORANTHENE	5400	UG/KG		1.2E+03	3889.98	
BENZO(G,H,I)PERYLENE	2200	UG/KG		1.0E+05	1696.65	
BENZO(K)FLUORANTHENE	4500	UG/KG		9.0E+04	3175.37	
BERYLLIUM	0.95	MG/KG	0.49	1.0E+01	0.69	
BIS(2-ETHYLHEXYL) PHTHALATE	1100	UG/KG		9.3E+02	945.97	
BORON	34.9	MG/KG	4.63	5.0E-01	18.91	
CADMIUM	90.9	MG/KG	0.35	2.7E-01	61.84	
CALCIUM	10200	MG/KG	2851		7340.70	
CARBAZOLE	460	UG/KG		1.3E+04	372.16	
CHROMIUM, TOTAL	23.9	MG/KG	13.77	5.0E+00	18.61	
CHRYSENE	4600	UG/KG		4.7E+03	3081.30	
COBALT	7.8	MG/KG	9.33	2.0E+01	7.53	
COPPER	69.9	MG/KG	9.4	3.1E+01	50.96	
DIBENZ(A,H)ANTHRACENE	850	UG/KG		1.8E+04	657.26	
DIBENZOFURAN	84	UG/KG		2.5E+04	247.69	
FLUORANTHENE	5300	UG/KG		1.0E+05	3417.07	
FLUORENE	60	UG/KG		2.2E+04	278.12	
INDENO(1,2,3-C,D)PYRENE	2400	UG/KG		9.0E+04	1757.30	
IRON	70400	MG/KG	19568	2.0E+02	45070.46	
LEAD	544	MG/KG	25.74	4.3E+02	335.91	
MAGNESIUM	2010	MG/KG	1834.254144		1720.35	
MANGANESE	1640	MG/KG	2371	1.0E+02	1457.54	
MERCURY	1.1	MG/KG	0.28	1.5E-01	0.58	
NAPHTHALENE	130	UG/KG		4.6E+04	245.08	
NICKEL	44.6	MG/KG	12.59	3.0E+01	30.33	
PHENANTHRENE	1400	UG/KG		1.8E+04	917.87	
POTASSIUM	911	MG/KG	691		838.76	
PYRENE	5400	UG/KG		7.9E+04	3697.63	
SELENIUM	5.8	MG/KG	3.17	1.0E+00	3.82	
SODIUM	271	MG/KG	85		142.56	
THALLIUM	0.61	MG/KG	0.51	1.0E+00	0.83	
VANADIUM	26.6	MG/KG	31.1	4.6E+01	25.23	
ZINC	893	MG/KG	41.2	1.2E+02	527.06	

Legend:
Constituent requires additional investigation.

Table 5-188
AUS-106A Ecological Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	Background	ESV	95% UCL of Area	Comments
2-METHYLNAPHTHALENE	820	UG/KG		4.6E+04	459.06	
ALUMINUM	51500	MG/KG	9071	5.0E+01	42335.57	Not retained by Eco WG for further field investigation
ANTIMONY	6.2	MG/KG	0.42	5.0E+00	4.42	
ARSENIC	22.6	MG/KG	13.25	9.0E+00	16.00	
BARIUM	1730	MG/KG	238	5.0E+02	795.60	
BENZO(A)ANTHRACENE	68	UG/KG		3.0E+03	244.32	
BENZO(A)PYRENE	66	UG/KG		3.3E+03	245.28	
BENZO(B)FLUORANTHENE	74	UG/KG		1.2E+03	233.36	
BENZO(G,H,I)PERYLENE	95	UG/KG		1.0E+05	233.48	
BENZO(K)FLUORANTHENE	56	UG/KG		9.0E+04	244.16	
BERYLLIUM	0.97	MG/KG	0.49	1.0E+01	0.73	
BIS(2-ETHYLHEXYL) PHTHALATE	18000	UG/KG		9.3E+02	7458.15	
BORON	43.5	MG/KG	4.63	5.0E-01	30.88	
CADMIUM	150	MG/KG	0.35	2.7E-01	73.82	
CALCIUM	39800	MG/KG	2851		26012.21	
CHROMIUM, TOTAL	239	MG/KG	13.77	5.0E+00	161.48	
CHRYSENE	170	UG/KG		4.7E+03	163.82	
CIS-1,2-DICHLOROETHYLENE	24	UG/KG		7.9E+02	10.23	
COBALT	11.8	MG/KG	9.33	2.0E+01	9.30	
COPPER	3300	MG/KG	9.4	3.1E+01	2209.16	
DIBENZOFURAN	140	UG/KG		2.5E+04	216.18	
DIETHYL PHTHALATE	220	UG/KG		1.0E+05	213.27	
DIMETHYL PHTHALATE	6100	UG/KG		2.0E+05	2297.28	
DI-N-BUTYL PHTHALATE	11000	UG/KG		7.1E+02	4440.66	
DI-N-OCTYLPHTHALATE	72	UG/KG		6.1E+05	249.88	
ETHYLBENZENE	6	UG/KG		5.0E+03	4.56	
FLUORANTHENE	74	UG/KG		1.0E+05	232.68	
HMX	1500	UG/KG		2.5E+04	718.54	
INDENO(1,2,3-C,D)PYRENE	61	UG/KG		9.0E+04	245.56	
IRON	95600	MG/KG	19568	2.0E+02	63889.55	
LEAD	2470	MG/KG	25.74	4.3E+02	1151.67	
MAGNESIUM	15500	MG/KG	1834.254144		10495.12	
MANGANESE	1490	MG/KG	2371	1.0E+02	1033.60	
MERCURY	1.1	MG/KG	0.28	1.5E-01	0.44	
METHYL ETHYL KETONE (2-BUTANONE)	53	UG/KG		9.0E+04	21.92	
NAPHTHALENE	590	UG/KG		4.6E+04	316.71	
NICKEL	370	MG/KG	12.59	3.0E+01	165.01	
PHENANTHRENE	320	UG/KG		1.8E+04	250.38	
POTASSIUM	2930	MG/KG	691		1912.26	
PYRENE	140	UG/KG		7.9E+04	173.58	
SELENIUM	21.8	MG/KG	3.17	1.0E+00	9.16	
SILVER	5.3	MG/KG	0.69	2.0E+00	1.76	
SODIUM	2090	MG/KG	85		1030.17	
STYRENE	200	UG/KG		3.0E+05	66.15	
TETRYL	1500	UG/KG			684.65	
TOTAL 1,2-DICHLOROETHENE	24	UG/KG		7.9E+02	10.23	
TRICHLOROETHYLENE (TCE)	13000	UG/KG		9.0E+03	4444.18	
VANADIUM	49.1	MG/KG	31.1	4.6E+01	37.84	
XYLENES, TOTAL	440	UG/KG		6.0E+02	149.57	
ZINC	3160	MG/KG	41.2	1.2E+02	2199.57	

Legend:
Constituent requires additional investigation.

Table 5-189
AUS-0A2B Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	250	UG/KG	1.9E+04	
ACETONE	48	UG/KG	5.4E+06	
ALUMINUM	8610	MG/KG	9.2E+04	9071
ANTHRACENE	57	UG/KG	2.4E+07	
ANTIMONY	55.9	MG/KG	4.1E+01	0.42
ARSENIC	35.2	MG/KG	1.6E+00	13.25
BARIUM	1260	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	290	UG/KG	2.1E+03	
BENZO(A)PYRENE	280	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	410	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	180	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	170	UG/KG	2.1E+04	
BENZYL BUTYL PHTHALATE	48	UG/KG	9.3E+05	
BERYLLIUM	1.3	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	240	UG/KG	1.2E+05	
BORON	17.5	MG/KG	1.8E+04	4.63
CADMIUM	1.2	MG/KG	4.5E+01	0.35
CALCIUM	212000	MG/KG		2851
CARBAZOLE	42	UG/KG	8.6E+04	
CHROMIUM, TOTAL	104	MG/KG	4.2E+02	13.77
CHRYSENE	350	UG/KG	2.1E+05	
COBALT	25.6	MG/KG	1.9E+03	9.33
COPPER	1560	MG/KG	4.1E+03	9.4
cPAH	603.067	UG/KG	2.1E+02	
CYANIDE	2.5	MG/KG	1.2E+03	0.56
DIBENZ(A,H)ANTHRACENE	50	UG/KG	2.1E+02	
DIBENZOFURAN	120	UG/KG	1.6E+05	
DI-N-BUTYL PHTHALATE	91	UG/KG	2.3E+06	
FLUORANTHENE	600	UG/KG	2.2E+06	
INDENO(1,2,3-C,D)PYRENE	190	UG/KG	2.1E+03	
IRON	58800	MG/KG	3.1E+04	19568
LEAD	2000	MG/KG	4.0E+02	25.74
MAGNESIUM	22900	MG/KG		1834.25
MANGANESE	6350	MG/KG	1.9E+03	2371
MERCURY	0.99	MG/KG	3.1E+01	0.28
NAPHTHALENE	96	UG/KG	1.8E+03	
NICKEL	22.9	MG/KG	2.0E+03	12.59
PHENANTHRENE	320	UG/KG	2.9E+06	
POTASSIUM	906	MG/KG		691
PYRENE	480	UG/KG	2.9E+06	
SELENIUM	4.5	MG/KG	5.1E+02	3.17
SILVER	1.9	MG/KG	5.1E+02	0.69
SODIUM	408	MG/KG		85
TETRACHLOROETHYLENE(PCE)	80	UG/KG	1.3E+03	
THALLIUM	1	MG/KG	6.7E+00	0.51
TOTAL ORGANIC CARBON	46900	MG/KG		
TRICHLOROETHYLENE (TCE)	150	UG/KG	1.1E+02	
VANADIUM	74.1	MG/KG	1.0E+02	31.1
ZINC	465	MG/KG	3.1E+04	41.2

Legend:
Constituent requires further investigation.

Table 5-190
AUS-0A2D Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	7100	UG/KG	1.9E+04	
ACENAPHTHENE	520	UG/KG	2.9E+06	
ACETONE	34	UG/KG	5.4E+06	
ALUMINUM	19100	MG/KG	9.2E+04	9071
ANTHRACENE	1200	UG/KG	2.4E+07	
ANTIMONY	5.3	MG/KG	4.1E+01	0.42
ARSENIC	120	MG/KG	1.6E+00	13.25
BARIUM	302	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	4800	UG/KG	2.1E+03	
BENZO(A)PYRENE	4800	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	5200	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	2300	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	4400	UG/KG	2.1E+04	
BENZYL BUTYL PHTHALATE	5900	UG/KG	9.3E+05	
BERYLLIUM	1.1	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	11000	UG/KG	1.2E+05	
BORON	2460	MG/KG	1.8E+04	4.63
CADMIUM	2.3	MG/KG	4.5E+01	0.35
CALCIUM	133000	MG/KG		2851
CARBAZOLE	620	UG/KG	8.6E+04	
CHROMIUM, TOTAL	96.8	MG/KG	4.2E+02	13.77
CHRYSENE	5500	UG/KG	2.1E+05	
CIS-1,2-DICHLOROETHYLENE	220	UG/KG	1.5E+04	
COBALT	15	MG/KG	1.9E+03	9.33
COPPER	937	MG/KG	4.1E+03	9.4
cPAH	7219.5	MG/KG	2.1E+02	
CYANIDE	0.88	MG/KG	1.2E+03	0.56
DIBENZ(A,H)ANTHRACENE	1200	UG/KG	2.1E+02	
DIBENZOFURAN	2700	UG/KG	1.6E+05	
DIMETHYL PHTHALATE	2500	UG/KG	1.3E+06	
DI-N-BUTYL PHTHALATE	220	UG/KG	2.3E+06	
FLUORANTHENE	7100	UG/KG	2.2E+06	
FLUORENE	430	UG/KG	2.6E+06	
HMX	6000	UG/KG	3.1E+06	
INDENO(1,2,3-C,D)PYRENE	2100	UG/KG	2.1E+03	
IRON	22600	MG/KG	3.1E+04	19568
LEAD	372	MG/KG	4.0E+02	25.74
MAGNESIUM	40800	MG/KG		1834.254144
MANGANESE	2370	MG/KG	1.9E+03	2371
MERCURY	0.19	MG/KG	3.1E+01	0.28
METHYL ETHYL KETONE (2-BUTANONE)	1200	UG/KG	7.1E+05	
NAPHTHALENE	2800	UG/KG	1.8E+03	
N-HEXANE	16	UG/KG	4.0E+04	
NICKEL	24.3	MG/KG	2.0E+03	12.59
NITROGLYCERIN	5300	UG/KG	1.0E+05	
PENTACHLOROPHENOL	92	UG/KG	9.0E+03	
PHENANTHRENE	6500	UG/KG	2.9E+06	
PHENOL	100	UG/KG	1.8E+07	
PHOSPHORUS, TOTAL (AS P)	891	MG/KG		
POTASSIUM	2240	MG/KG		691
PYRENE	6800	UG/KG	2.9E+06	
RDX	76000	UG/KG	1.6E+04	
SELENIUM	2.2	MG/KG	5.1E+02	3.17
SILVER	40.3	MG/KG	5.1E+02	0.69
SODIUM	656	MG/KG		85
TETRACHLOROETHYLENE(PCE)	810	UG/KG	1.3E+03	
THALLIUM	0.26	MG/KG	6.7E+00	0.51
TOLUENE	2	UG/KG	4.2E+04	
TOTAL 1,2-DICHLOROETHENE	230	UG/KG	1.5E+04	
Mammal TEQ	27.9	NG/KG	1.6E+01	
TRICHLOROETHYLENE (TCE)	920	UG/KG	1.1E+02	
VANADIUM	46.3	MG/KG	1.0E+02	31.1
ZINC	1060	MG/KG	3.1E+04	41.2

Legend:
Constituent requires further investigation.

Table 5-190
AUS-0A2D Human Health Receptors Soil Constituents Screening for Additional Investigation

Table 5-191
AUS-0A2F Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
4-METHYLPHENOL (P-CRESOL)	870	UG/KG	3.1E+05	
ALUMINUM	15800	MG/KG	9.2E+04	9071
ANTIMONY	1	MG/KG	4.1E+01	0.42
ARSENIC	15.2	MG/KG	1.6E+00	13.25
BARIUM	167	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	49	UG/KG	2.1E+03	
BENZO(A)PYRENE	48	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	55	UG/KG	2.1E+03	
BENZO(K)FLUORANTHENE	64	UG/KG	2.1E+04	
BERYLLIUM	0.61	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	55	UG/KG	1.2E+05	
BORON	14.2	MG/KG	1.8E+04	4.63
CADMIUM	1.8	MG/KG	4.5E+01	0.35
CALCIUM	59100	MG/KG		2851
CARBON DISULFIDE	6	UG/KG	9.0E+03	
CHROMIUM, TOTAL	20.1	MG/KG	4.2E+02	13.77
CHRYSENE	77	UG/KG	2.1E+05	
CIS-1,2-DICHLOROETHYLENE	29	UG/KG	1.5E+04	
COBALT	9.4	MG/KG	1.9E+03	9.33
COPPER	57.1	MG/KG	4.1E+03	9.4
cPAH	301.117	MG/KG	2.1E+02	
FLUORANTHENE	68	UG/KG	2.2E+06	
IRON	39600	MG/KG	3.1E+04	19568
LEAD	101	MG/KG	4.0E+02	25.74
MAGNESIUM	14700	MG/KG		1834.254144
MANGANESE	1280	MG/KG	1.9E+03	2371
MERCURY	0.1	MG/KG	3.1E+01	0.28
NICKEL	19.9	MG/KG	2.0E+03	12.59
POTASSIUM	747	MG/KG		691
PYRENE	79	UG/KG	2.9E+06	
SELENIUM	0.94	MG/KG	5.1E+02	3.17
SILVER	1.3	MG/KG	5.1E+02	0.69
SODIUM	308	MG/KG		85
THALLIUM	0.6	MG/KG	6.7E+00	0.51
TOTAL ORGANIC CARBON	38000	MG/KG		
TRICHLOROETHYLENE (TCE)	96	UG/KG	1.1E+02	
VANADIUM	32	MG/KG	1.0E+02	31.1
ZINC	231	MG/KG	3.1E+04	41.2

Legend:
Constituent requires further investigation.

Table 5-192
AUS-0A2P Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
1-METHYLNAPHTHALENE	2200	UG/KG	1.9E+04	
2-METHYLNAPHTHALENE	6700	UG/KG	1.9E+04	
ACENAPHTHENE	95	UG/KG	2.9E+06	
ACENAPHTHYLENE	3700	UG/KG	1.8E+03	
ALUMINUM	12000	MG/KG	9.2E+04	9071
ANTHRACENE	100	UG/KG	2.4E+07	
ANTIMONY	1.6	MG/KG	4.1E+01	0.42
ARSENIC	87.5	MG/KG	1.6E+00	13.25
BARIUM	139	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	500	UG/KG	2.1E+03	
BENZO(A)PYRENE	480	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	510	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	330	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	490	UG/KG	2.1E+04	
BENZYL BUTYL PHTHALATE	6300	UG/KG	9.3E+05	
BERYLLIUM	0.73	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	190	UG/KG	1.2E+05	
BORON	7.3	MG/KG	1.8E+04	4.63
CADMIUM	1.3	MG/KG	4.5E+01	0.35
CALCIUM	113000	MG/KG		2851
CARBAZOLE	66	UG/KG	8.6E+04	
CHROMIUM, TOTAL	28.6	MG/KG	4.2E+02	13.77
CIS-1,2-DICHLOROETHYLENE	8	UG/KG	1.5E+04	
CHRYSENE	630	UG/KG	2.1E+05	
COBALT	15.1	MG/KG	1.9E+03	9.33
COPPER	186	MG/KG	4.1E+03	9.4
cPAH	749.5	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	130	UG/KG	2.1E+02	
DIBENZOFURAN	58	UG/KG	1.6E+05	
DIETHYL PHTHALATE	140	UG/KG	2.0E+06	
FLUORANTHENE	1200	UG/KG	2.2E+06	
FLUORENE	44	UG/KG	2.6E+06	
INDENO(1,2,3-C,D)PYRENE	310	UG/KG	2.1E+03	
IRON	25700	MG/KG	3.1E+04	19568
LEAD	60.5	MG/KG	4.0E+02	25.74
MAGNESIUM	57200	MG/KG		1834.25
MANGANESE	1680	MG/KG	1.9E+03	2371
MERCURY	0.32	MG/KG	3.1E+01	0.28
NICKEL	1600	MG/KG	2.0E+03	12.59
NAPHTHALENE	22.7	UG/KG	1.8E+03	
PHENANTHRENE	1200	UG/KG	2.9E+06	
POTASSIUM	886	MG/KG		691
PYRENE	980	UG/KG	2.9E+06	
SELENIUM	3.7	MG/KG	5.1E+02	3.17
SILVER	237	MG/KG	5.1E+02	0.69
SODIUM	1590	MG/KG		85
TETRACHLOROETHYLENE(PCE)	15	UG/KG	1.3E+03	
THALLIUM	0.21	MG/KG	6.7E+00	0.51
TOTAL ORGANIC CARBON	20200	MG/KG		
TRICHLOROETHYLENE (TCE)	240	UG/KG	1.1E+02	
VANADIUM	31.8	MG/KG	1.0E+02	31.1
ZINC	612	MG/KG	3.1E+04	41.2

Legend:
Constituent requires further investigation.

Table 5-193
AUS-0A2R Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
1-METHYLNAPHTHALENE	2400	UG/KG	1.9E+04	
2-METHYLNAPHTHALENE	7200	UG/KG	1.9E+04	
ACENAPHTHYLENE	4500	UG/KG	1.8E+03	
ALUMINUM	10700	MG/KG	9.2E+04	9071
ANTHRACENE	340	UG/KG	2.4E+07	
ANTIMONY	1.1	MG/KG	4.1E+01	0.42
ARSENIC	12.8	MG/KG	1.6E+00	13.25
BARIUM	337	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	1900	UG/KG	2.1E+03	
BENZO(A)PYRENE	2600	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	3500	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	1400	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	1600	UG/KG	2.1E+04	
BERYLLIUM	0.97	MG/KG	1.9E+02	0.49
BORON	59.6	MG/KG	1.8E+04	4.63
CADMIUM	1.6	MG/KG	4.5E+01	0.35
CALCIUM	76400	MG/KG		2851
CHROMIUM, TOTAL	19	MG/KG	4.2E+02	13.77
CHRYSENE	3200	UG/KG	2.1E+05	
COBALT	29.5	MG/KG	1.9E+03	9.33
COPPER	156	MG/KG	4.1E+03	9.4
cPAH	3649.2	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	320	UG/KG	2.1E+02	
FLUORANTHENE	3500	UG/KG	2.2E+06	
FLUORENE	110	UG/KG	2.6E+06	
INDENO(1,2,3-C,D)PYRENE	1700	UG/KG	2.1E+03	
IRON	33900	MG/KG	3.1E+04	19568
LEAD	101	MG/KG	4.0E+02	25.74
MAGNESIUM	36800	MG/KG		1834.254144
MANGANESE	747	MG/KG	1.9E+03	2371
MERCURY	0.055	MG/KG	3.1E+01	0.28
NAPHTHALENE	3600	UG/KG	1.8E+03	
NICKEL	30.7	MG/KG	2.0E+03	12.59
PHENANTHRENE	1400	UG/KG	2.9E+06	
POTASSIUM	705	MG/KG		691
PYRENE	3500	UG/KG	2.9E+06	
SELENIUM	0.49	MG/KG	5.1E+02	3.17
SILVER	0.73	MG/KG	5.1E+02	0.69
SODIUM	543	MG/KG		85
THALLIUM	0.76	MG/KG	6.7E+00	0.51
VANADIUM	34.5	MG/KG	1.0E+02	31.1
ZINC	634	MG/KG	3.1E+04	41.2

Legend:
Constituent requires further investigation.

Table 5-194
AUS-0A4E Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
1-METHYLNAPHTHALENE	200	UG/KG	1.9E+04	
2-METHYLNAPHTHALENE	1900	UG/KG	1.9E+04	
ACENAPHTHYLENE	350	UG/KG	1.8E+03	
ALUMINUM	9340	MG/KG	9.2E+04	9071
ANTHRACENE	80	UG/KG	2.4E+07	
ANTIMONY	2.3	MG/KG	4.1E+01	0.42
ARSENIC	15.4	MG/KG	1.6E+00	13.25
BARIUM	361	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	100	UG/KG	2.1E+03	
BENZO(A)PYRENE	64	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	120	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	71	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	43	UG/KG	2.1E+04	
BIS(2-ETHYLHEXYL) PHTHALATE	1700	UG/KG	1.2E+05	
BORON	14.1	MG/KG	1.8E+04	4.63
CADMIUM	3.5	MG/KG	4.5E+01	0.35
CALCIUM	180000	MG/KG		2851
CHROMIUM, TOTAL	19.8	MG/KG	4.2E+02	13.77
CHRYSENE	170	UG/KG	2.1E+05	
COBALT	14.5	MG/KG	1.9E+03	9.33
COPPER	816	MG/KG	4.1E+03	9.4
cPAH	507.35	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	10	UG/KG	2.1E+02	
DIBENZOFURAN	620	UG/KG	1.6E+05	
DIMETHYL PHTHALATE	290	UG/KG	1.3E+06	
DI-N-BUTYL PHTHALATE	89	UG/KG	2.3E+06	
ETHYLBENZENE	1400	UG/KG	5.8E+04	
FLUORANTHENE	180	UG/KG	2.2E+06	
INDENO(1,2,3-C,D)PYRENE	36	UG/KG	2.1E+03	
IRON	22900	MG/KG	3.1E+04	19568
LEAD	223	MG/KG	4.0E+02	25.74
MAGNESIUM	114000	MG/KG		1834.254144
MANGANESE	879	MG/KG	1.9E+03	2371
MERCURY	0.24	MG/KG	3.1E+01	0.28
NAPHTHALENE	880	UG/KG	1.8E+03	
N-HEXANE	6600	UG/KG	4.0E+04	
NICKEL	25.4	MG/KG	2.0E+03	12.59
PHENANTHRENE	620	UG/KG	2.9E+06	
POTASSIUM	926	MG/KG		691
PYRENE	200	UG/KG	2.9E+06	
SELENIUM	1.4	MG/KG	5.1E+02	3.17
SILVER	0.25	MG/KG	5.1E+02	0.69
SODIUM	375	MG/KG		85
THALLIUM	0.21	MG/KG	6.7E+00	0.51
TOLUENE	2	UG/KG	4.2E+04	
VANADIUM	29.5	MG/KG	1.0E+02	31.1
XYLENES, TOTAL	830	UG/KG	9.0E+04	
ZINC	321	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-195
AUS-0A4W Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	3500	UG/KG	1.9E+04	
ACENAPHTHYLENE	67	UG/KG	1.8E+03	
ACETONE	35	UG/KG	5.4E+06	
ALUMINUM	16500	MG/KG	9.2E+04	9071
ANTHRACENE	65	UG/KG	2.4E+07	
ANTIMONY	4.5	MG/KG	4.1E+01	0.42
ARSENIC	60.1	MG/KG	1.6E+00	13.25
BARIUM	214	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	130	UG/KG	2.1E+03	
BENZO(A)PYRENE	97	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	63	UG/KG	2.1E+03	
BENZO(K)FLUORANTHENE	100	UG/KG	2.1E+04	
BENZYL BUTYL PHTHALATE	46	UG/KG	9.3E+05	
BIS(2-ETHYLHEXYL) PHTHALATE	100	UG/KG	1.2E+05	
BORON	34.2	MG/KG	1.8E+04	4.63
CADMIUM	4520	MG/KG	4.5E+01	0.35
CALCIUM	43600	MG/KG		2851
CARBAZOLE	92	UG/KG	8.6E+04	
CHLOROFORM	2	UG/KG	4.7E+02	
CHROMIUM, TOTAL	298	MG/KG	4.2E+02	13.77
CHRYSENE	170	UG/KG	2.1E+05	
COBALT	32.8	MG/KG	1.9E+03	9.33
COPPER	178	MG/KG	4.1E+03	9.4
cPAH	446.139	MG/KG	2.1E+02	
DIBENZOFURAN	790	UG/KG	1.6E+05	
FLUORANTHENE	120	UG/KG	2.2E+06	
HMX	3800	UG/KG	3.1E+06	
IRON	27000	MG/KG	3.1E+04	19568
LEAD	275	MG/KG	4.0E+02	25.74
MAGNESIUM	21000	MG/KG		1834.254144
MANGANESE	2160	MG/KG	1.9E+03	2371
MERCURY	0.72	MG/KG	3.1E+01	0.28
NAPHTHALENE	1800	UG/KG	1.8E+03	
NICKEL	114	MG/KG	2.0E+03	12.59
PHENANTHRENE	990	UG/KG	2.9E+06	
POTASSIUM	786	MG/KG		691
PYRENE	320	UG/KG	2.9E+06	
SELENIUM	4	MG/KG	5.1E+02	3.17
THALLIUM	1.2	MG/KG	6.7E+00	0.51
TOLUENE	3	UG/KG	4.2E+04	
TOTAL ORGANIC CARBON	16400	MG/KG		
VANADIUM	29.1	MG/KG	1.0E+02	31.1
XYLENES, TOTAL	8	UG/KG	9.0E+04	
ZINC	780	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-196
AUS-0A06 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2,4,5-TRICHLOROPHENOL	40	UG/KG	6.2E+06	
2,4,6-TRICHLOROPHENOL	42	UG/KG	6.2E+03	
2-METHYLNAPHTHALENE	230	UG/KG	1.9E+04	
4-BROMOPHENYL PHENYL ETHER	42	UG/KG		
4-CHLORO-3-METHYLPHENOL	53	UG/KG		
4-CHLOROPHENYL PHENYL ETHER	37	UG/KG		
4-METHYLPHENOL (P-CRESOL)	71	UG/KG	3.1E+05	
4-NITROPHENOL	59	UG/KG	1.0E+04	
ACENAPHTHENE	430	UG/KG	2.9E+06	
ACENAPHTHYLENE	37	UG/KG	1.8E+03	
ALUMINUM	17300	MG/KG	9.2E+04	9071
ANTHRACENE	1000	UG/KG	2.4E+07	
ANTIMONY	0.41	MG/KG	4.1E+01	0.42
ARSENIC	11.5	MG/KG	1.6E+00	13.25
BARIUM	123	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	8700	UG/KG	2.1E+03	
BENZO(A)PYRENE	8400	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	10000	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	4100	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	7300	UG/KG	2.1E+04	
BENZYL BUTYL PHTHALATE	73	UG/KG	9.3E+05	
BIS(2-CHLOROISOPROPYL) ETHER	54	UG/KG	7.4E+03	
BIS(2-ETHYLHEXYL) PHTHALATE	6600	UG/KG	1.2E+05	
BORON	6.5	MG/KG	1.8E+04	4.63
CADMIUM	0.53	MG/KG	4.5E+01	0.35
CALCIUM	348000	MG/KG		2851
CARBAZOLE	660	UG/KG	8.6E+04	
CHROMIUM, TOTAL	18.1	MG/KG	4.2E+02	13.77
CHRYSENE	11000	UG/KG	2.1E+05	
COBALT	6.2	MG/KG	1.9E+03	9.33
COPPER	32.4	MG/KG	4.1E+03	9.4
cPAH	13074	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	2300	UG/KG	2.1E+02	
DIBENZOFURAN	610	UG/KG	1.6E+05	
DIETHYL PHTHALATE	50	UG/KG	2.0E+06	
DIMETHYL PHTHALATE	40	UG/KG	1.3E+06	
DI-N-BUTYL PHTHALATE	130	UG/KG	2.3E+06	
DI-N-OCTYLPHTHALATE	120	UG/KG	2.5E+06	
FLUORANTHENE	12000	UG/KG	2.2E+06	
FLUORENE	480	UG/KG	2.6E+06	
HEXACHLOROBENZENE	39	UG/KG	1.1E+03	
INDENO(1,2,3-C,D)PYRENE	4200	UG/KG	2.1E+03	
IRON	24900	MG/KG	3.1E+04	19568
LEAD	48.8	MG/KG	4.0E+02	25.74
MAGNESIUM	93600	MG/KG		1834.254144
MANGANESE	918	MG/KG	1.9E+03	2371
MERCURY	0.48	MG/KG	3.1E+01	0.28
NAPHTHALENE	160	UG/KG	1.8E+03	
NICKEL	15.6	MG/KG	2.0E+03	12.59
NITROBENZENE	550	UG/KG	9.4E+03	
N-NITROSODI-N-PROPYLAMINE	41	UG/KG	2.5E+02	
N-NITROSODIPHENYLAMINE	240	UG/KG	3.5E+05	
PENTACHLOROPHENOL	47	UG/KG	9.0E+03	
PHENANTHRENE	5000	UG/KG	2.9E+06	
PHENOL	57	UG/KG	1.8E+07	
POTASSIUM	2090	MG/KG		691
PYRENE	11000	UG/KG	2.9E+06	
SELENIUM	1.5	MG/KG	5.1E+02	3.17
THALLIUM	0.2	MG/KG	6.7E+00	0.51
TOTAL ORGANIC CARBON	38700	MG/KG		
VANADIUM	27.5	MG/KG	1.0E+02	31.1
ZINC	83.3	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-197
AUS-0A07 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
1,2-DICHLOROPROPANE	660	UG/KG	5.0E+02	
2-METHYLNAPHTHALENE	430	UG/KG	1.9E+04	
4,4'-DDD	12000	UG/KG	1.0E+04	
4,4'-DDE	4800	UG/KG	7.0E+03	
4,4'-DDT	100000	UG/KG	7.0E+03	
ACENAPHTHENE	320	UG/KG	2.9E+06	
ACENAPHTHYLENE	530	UG/KG	1.8E+03	
ACETONE	24	UG/KG	5.4E+06	
ALDRIN	1300000	UG/KG	1.0E+02	
ALPHA ENDOSULFAN	12	UG/KG	3.7E+05	
ALPHA-CHLORDANE	490	UG/KG	1.6E+03	
ALUMINUM	20200	MG/KG	9.2E+04	9071
ANTHRACENE	290	UG/KG	2.4E+07	
ANTIMONY	0.63	MG/KG	4.1E+01	0.42
ARSENIC	16.9	MG/KG	1.6E+00	13.25
BARIUM	311	MG/KG	6.7E+03	238
BENZENE	8	UG/KG	1.4E+03	
BENZO(A)ANTHRACENE	1300	UG/KG	2.1E+03	
BENZO(A)PYRENE	2400	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	3200	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	1900	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	2800	UG/KG	2.1E+04	
BERYLLIUM	1.9	MG/KG	1.9E+02	0.49
BETA BHC (BETA HEXACHLOROCYCLOHEXAN	8.4	UG/KG	1.3E+03	
BETA ENDOSULFAN	18	UG/KG	3.7E+05	
BIS(2-ETHYLHEXYL) PHTHALATE	10000	UG/KG	1.2E+05	
BORON	6.2	MG/KG	1.8E+04	4.63
CADMIUM	9	MG/KG	4.5E+01	0.35
CALCIUM	217000	MG/KG		2851
CARBAZOLE	130	UG/KG	8.6E+04	
CHLOROBENZENE	48	UG/KG	1.3E+03	
CHROMIUM, TOTAL	25.6	MG/KG	4.2E+02	13.77
CHRYSENE	2100	UG/KG	2.1E+05	
CIS-1,2-DICHLOROETHYLENE	2	UG/KG	1.5E+04	
COBALT	19.3	MG/KG	1.9E+03	9.33
COPPER	23.5	MG/KG	4.1E+03	9.4
cPAH	3550.1	MG/KG	2.1E+03	
DIBENZ(A,H)ANTHRACENE	550	UG/KG	2.1E+02	
DIBENZOFURAN	590	UG/KG	1.6E+05	
DIELDRIN	290000	UG/KG	1.1E+02	
DIMETHYL PHTHALATE	170	UG/KG	1.3E+06	
DI-N-BUTYL PHTHALATE	130	UG/KG	2.3E+06	
DI-N-OCTYLPHTHALATE	3900	UG/KG	2.5E+06	
ENDOSULFAN SULFATE	44	UG/KG	3.7E+05	
ENDRIN	12000	UG/KG	1.8E+04	
ENDRIN ALDEHYDE	9000	UG/KG	1.8E+04	
ENDRIN KETONE	20000	UG/KG	1.8E+04	
ETHYLBENZENE	41	UG/KG	5.8E+04	
FLUORANTHENE	1200	UG/KG	2.2E+06	
FLUORENE	210	UG/KG	2.6E+06	
GAMMA BHC (LINDANE)	5.6	UG/KG	1.7E+03	
GAMMA-CHLORDANE	1600	UG/KG	1.6E+03	
HEPTACHLOR	69	UG/KG	3.8E+02	
HEPTACHLOR EPOXIDE	11	UG/KG	1.9E+02	
HEXACHLOROBENZENE	2700	UG/KG	1.1E+03	
INDENO(1,2,3-C,D)PYRENE	1200	UG/KG	2.1E+03	
IRON	34000	MG/KG	3.1E+04	19568
ISODRIN	60000	UG/KG		
LEAD	64.8	MG/KG	4.0E+02	25.74
MAGNESIUM	52300	MG/KG		1834.254144
MANGANESE	1370	MG/KG	1.9E+03	2371
MERCURY	0.053	MG/KG	3.1E+01	0.28

Table 5-197
AUS-0A07 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
METHOXYCHLOR	26	UG/KG	3.1E+05	
METHYL ETHYL KETONE (2-BUTANONE)	18	UG/KG	7.1E+05	
METHYLENE CHLORIDE	5.7	UG/KG	2.1E+04	
NAPHTHALENE	330	UG/KG	1.8E+03	
NICKEL	42.2	MG/KG	2.0E+03	12.59
PCB (total)	140	UG/KG	7.4E+02	
PCB-1260 (AROCHLOR 1260)	140	UG/KG	7.4E+02	
PHENANTHRENE	430	UG/KG	2.9E+06	
POTASSIUM	1420	MG/KG		691
PYRENE	2400	UG/KG	2.9E+06	
SELENIUM	0.78	MG/KG	5.1E+02	3.17
SODIUM	1360	MG/KG		85
STYRENE	28	UG/KG	4.3E+05	
TETRACHLOROETHYLENE(PCE)	48	UG/KG	1.3E+03	
THALLIUM	0.9	MG/KG	6.7E+00	0.51
TOLUENE	11	UG/KG	4.2E+04	
TOTAL 1,2-DICHLOROETHENE	2	UG/KG	1.5E+04	
Mammal TEQ	3.36214	NG/KG	1.6E+01	
TRICHLOROETHYLENE (TCE)	25	UG/KG	1.1E+02	
VANADIUM	45.3	MG/KG	1.0E+02	31.1
XYLENES, TOTAL	4500	UG/KG	9.0E+04	
ZINC	95.4	MG/KG	3.1E+04	41.2

Legend:
Constituent requires further investigation.

Table 5-198
AUS-0A8S Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2,4-DINITROTOLUENE	1400	UG/KG	2.5E+03	
2,6-DINITROTOLUENE	100	UG/KG	2.5E+03	
ALUMINUM	10600	MG/KG	9.2E+04	9071
ANTIMONY	0.34	MG/KG	4.1E+01	0.42
ARSENIC	9.3	MG/KG	1.6E+00	13.25
BARIUM	392	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	63	UG/KG	2.1E+03	
BENZO(A)PYRENE	72	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	87	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	49	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	67	UG/KG	2.1E+04	
BENZYL BUTYL PHTHALATE	290	UG/KG	9.3E+05	
BIS(2-ETHYLHEXYL) PHTHALATE	570	UG/KG	1.2E+05	
BORON	5.1	MG/KG	1.8E+04	4.63
CADMIUM	1.2	MG/KG	4.5E+01	0.35
CALCIUM	45300	MG/KG		2851
CHROMIUM, TOTAL	13.6	MG/KG	4.2E+02	13.77
CHRYSENE	84	UG/KG	2.1E+05	
COBALT	20.4	MG/KG	1.9E+03	9.33
COPPER	33.2	MG/KG	4.1E+03	9.4
cPAH	1636.1	MG/KG	2.1E+02	
DI-N-BUTYL PHTHALATE	2200	UG/KG	2.3E+06	
DI-N-OCTYLPHTHALATE	200	UG/KG	2.5E+06	
FLUORANTHENE	100	UG/KG	2.2E+06	
IRON	18600	MG/KG	3.1E+04	19568
LEAD	29.4	MG/KG	4.0E+02	25.74
MAGNESIUM	11500	MG/KG		1834.254144
MANGANESE	6940	MG/KG	1.9E+03	2371
NICKEL	13.3	MG/KG	2.0E+03	12.59
NITROGEN, AMMONIA (AS N)	18	MG/KG		
NITROGEN, NITRATE-NITRITE	35	MG/KG	3.3E+05	
N-NITROSODIPHENYLAMINE	280	UG/KG	3.5E+05	
PHENANTHRENE	46	UG/KG	2.9E+06	
POTASSIUM	771	MG/KG		691
PYRENE	100	UG/KG	2.9E+06	
SELENIUM	3.8	MG/KG	5.1E+02	3.17
SILVER	1.9	MG/KG	5.1E+02	0.69
SODIUM	633	MG/KG		85
THALLIUM	1.9	MG/KG	6.7E+00	0.51
Mammal TEQ	0.31	NG/KG	1.6E+01	
VANADIUM	27.7	MG/KG	1.0E+02	31.1
ZINC	175	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-199
AUS-0A09 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2,4-DINITROTOLUENE	2100	UG/KG	2.5E+03	
2-METHYLNAPHTHALENE	52	UG/KG	1.9E+04	
ALUMINUM	14500	MG/KG	9.2E+04	9071
ANTIMONY	3.7	MG/KG	4.1E+01	0.42
ARSENIC	25.2	MG/KG	1.6E+00	13.25
BARIUM	191	MG/KG	6.7E+03	238
BENZYL BUTYL PHTHALATE	2000	UG/KG	9.3E+05	
BERYLLIUM	0.54	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	1600	UG/KG	1.2E+05	
BORON	18.1	MG/KG	1.8E+04	4.63
CADMIUM	3.8	MG/KG	4.5E+01	0.35
CALCIUM	78000	MG/KG		2851
CHROMIUM, TOTAL	54.1	MG/KG	4.2E+02	13.77
COBALT	8.9	MG/KG	1.9E+03	9.33
COPPER	296	MG/KG	4.1E+03	9.4
cPAH	604.83	MG/KG	2.1E+02	
DIBENZOFURAN	90	UG/KG	1.6E+05	
DIMETHYL PHTHALATE	200	UG/KG	1.3E+06	
DI-N-BUTYL PHTHALATE	92	UG/KG	2.3E+06	
IRON	19900	MG/KG	3.1E+04	19568
LEAD	103	MG/KG	4.0E+02	25.74
MAGNESIUM	23700	MG/KG		1834.25
MANGANESE	2470	MG/KG	1.9E+03	2371
MERCURY	0.54	MG/KG	3.1E+01	0.28
NICKEL	14.5	MG/KG	2.0E+03	12.59
PHENANTHRENE	93	UG/KG	2.9E+06	
POTASSIUM	1150	MG/KG		691
SELENIUM	2.2	MG/KG	5.1E+02	3.17
SILVER	59.4	MG/KG	5.1E+02	0.69
SODIUM	96.3	MG/KG		85
TOTAL ORGANIC CARBON	16700	MG/KG		
VANADIUM	32.8	MG/KG	1.0E+02	31.1
ZINC	1330	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-200
AUS-A010 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	1400	UG/KG	1.9E+04	
ACENAPHTHENE	97	UG/KG	2.9E+06	
ALUMINUM	9210	MG/KG	9.2E+04	9071
ANTHRACENE	190	UG/KG	2.4E+07	
ARSENIC	8.4	MG/KG	1.6E+00	13.25
BARIUM	14100	MG/KG	6.7E+03	238
BIS(2-ETHYLHEXYL) PHTHALATE	680	UG/KG	1.2E+05	
BORON	513	MG/KG	1.8E+04	4.63
CADMIUM	1.9	MG/KG	4.5E+01	0.35
CALCIUM	10200	MG/KG		2851
CARBAZOLE	62	UG/KG	8.6E+04	
CHLOROFORM	2	UG/KG	4.7E+02	
CHROMIUM, TOTAL	31.4	MG/KG	4.2E+02	13.77
COBALT	13.2	MG/KG	1.9E+03	9.33
COPPER	517	MG/KG	4.1E+03	9.4
DIBENZOFURAN	100	UG/KG	1.6E+05	
FLUORANTHENE	75	UG/KG	2.2E+06	
FLUORENE	310	UG/KG	2.6E+06	
IRON	18900	MG/KG	3.1E+04	19568
LEAD	67	MG/KG	4.0E+02	25.74
MAGNESIUM	51900	MG/KG		1834.254144
MANGANESE	1110	MG/KG	1.9E+03	2371
MERCURY	0.21	MG/KG	3.1E+01	0.28
NAPHTHALENE	250	UG/KG	1.8E+03	
NICKEL	81	MG/KG	2.0E+03	12.59
PHENANTHRENE	2700	UG/KG	2.9E+06	
POTASSIUM	722	MG/KG		691
PYRENE	370	UG/KG	2.9E+06	
SELENIUM	1.7	MG/KG	5.1E+02	3.17
SILVER	39.5	MG/KG	5.1E+02	0.69
SODIUM	1070	MG/KG		85
TOLUENE	6	UG/KG	4.2E+04	
Mammal TEQ	0.025	NG/KG	1.6E+01	
TRICHLOROETHYLENE (TCE)	230	UG/KG	1.1E+02	
VANADIUM	28.3	MG/KG	1.0E+02	31.1
XYLENES, TOTAL	2	UG/KG	9.0E+04	
ZINC	362	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-201
AUS-A11A Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	670	UG/KG	1.9E+04	
ALUMINUM	14900	MG/KG	9.2E+04	9071
ANTIMONY	0.87	MG/KG	4.1E+01	0.42
ARSENIC	9.9	MG/KG	1.6E+00	13.25
BARIUM	229	MG/KG	6.7E+03	238
BERYLLIUM	0.43	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	74	UG/KG	1.2E+05	
BORON	9.5	MG/KG	1.8E+04	4.63
CADMIUM	1.1	MG/KG	4.5E+01	0.35
CALCIUM	83200	MG/KG		2851
CHROMIUM, TOTAL	79.2	MG/KG	4.2E+02	13.77
CHRYSENE	66	UG/KG	2.1E+05	
COBALT	9.3	MG/KG	1.9E+03	9.33
COPPER	15.4	MG/KG	4.1E+03	9.4
cPAH	4488.6	MG/KG	2.1E+02	
DIBENZOFURAN	130	UG/KG	1.6E+05	
DI-N-BUTYL PHTHALATE	310	UG/KG	2.3E+06	
FLUORANTHENE	76	UG/KG	2.2E+06	
IRON	23500	MG/KG	3.1E+04	19568
LEAD	57.2	MG/KG	4.0E+02	25.74
MAGNESIUM	12600	MG/KG		1834.254144
MANGANESE	1440	MG/KG	1.9E+03	2371
MERCURY	0.09	MG/KG	3.1E+01	0.28
NAPHTHALENE	420	UG/KG	1.8E+03	
NICKEL	19.1	MG/KG	2.0E+03	12.59
PHENANTHRENE	170	UG/KG	2.9E+06	
POTASSIUM	826	MG/KG		691
PYRENE	100	UG/KG	2.9E+06	
SELENIUM	1.8	MG/KG	5.1E+02	3.17
SILVER	0.41	MG/KG	5.1E+02	0.69
SODIUM	881	MG/KG		85
THALLIUM	0.31	MG/KG	6.7E+00	0.51
VANADIUM	29.6	MG/KG	1.0E+02	31.1
ZINC	362	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-202
AUS-A11H Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
1-METHYLNAPHTHALENE	73	UG/KG	1.9E+04	
2,4-DINITROTOLUENE	500	UG/KG	2.5E+03	
2-METHYLNAPHTHALENE	400	UG/KG	1.9E+04	
4-CHLOROANILINE	1300	UG/KG	2.5E+05	
ACENAPHTHYLENE	63	UG/KG	1.8E+03	
ALUMINUM	16500	MG/KG	9.2E+04	9071
ANTHRACENE	41	UG/KG	2.4E+07	0
ANTIMONY	6	MG/KG	4.1E+01	0.42
ARSENIC	14.6	MG/KG	1.6E+00	13.25
BARIUM	445	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	350	UG/KG	2.1E+03	
BENZO(A)PYRENE	380	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	540	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	300	UG/KG		
BENZO(K)FLUORANTHENE	520	UG/KG	2.1E+04	
BERYLLIUM	0.91	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	2000	UG/KG	1.2E+05	
BORON	8.9	MG/KG	1.8E+04	4.63
CADMIUM	204	MG/KG	4.5E+01	0.35
CALCIUM	324000	MG/KG	0.0E+00	2851
CHROMIUM, TOTAL	585	MG/KG	4.2E+02	13.77
CHRYSENE	400	UG/KG	2.1E+05	
CIS-1,2-DICHLOROETHYLENE	24	UG/KG	1.5E+04	
COBALT	21	MG/KG	1.9E+03	9.33
COPPER	123	MG/KG	4.1E+03	9.4
cPAH	2662.9	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	15	UG/KG	2.1E+02	
DIBENZOFURAN	180	UG/KG	1.6E+05	
DI-N-BUTYL PHTHALATE	2100	UG/KG	2.3E+06	
FLUORANTHENE	320	UG/KG	2.2E+06	
HMX	720	UG/KG	3.1E+06	
INDENO(1,2,3-C,D)PYRENE	290	UG/KG	2.1E+03	
IRON	35000	MG/KG	3.1E+04	19568
LEAD	137	MG/KG	4.0E+02	25.74
MAGNESIUM	12500	MG/KG		1834.254144
MANGANESE	3450	MG/KG	1.9E+03	2371
MERCURY	2	MG/KG	3.1E+01	0.28
NAPHTHALENE	220	UG/KG	1.8E+03	
NICKEL	35.6	MG/KG	2.0E+03	12.59
N-NITROSODIPHENYLAMINE	330	UG/KG	3.5E+05	
NITROGLYCERIN	16000	UG/KG	1.0E+05	
PENTACHLOROPHENOL	130	UG/KG	9.0E+03	
PHENANTHRENE	170	UG/KG	2.9E+06	
POTASSIUM	1050	MG/KG		691
PYRENE	390	UG/KG	2.9E+06	
RDX	1300	UG/KG	1.6E+04	
SELENIUM	1.9	MG/KG	5.1E+02	3.17
SILVER	53.5	MG/KG	5.1E+02	0.69
SODIUM	411	MG/KG		85
TETRACHLOROETHYLENE(PCE)	530	UG/KG	1.3E+03	
THALLIUM	0.9	MG/KG	6.7E+00	0.51
Mammal TEQ	0.11	NG/KG	1.6E+01	
TOTAL 1,2-DICHLOROETHENE	25	UG/KG	1.5E+04	
TRICHLOROETHYLENE (TCE)	92	UG/KG	1.1E+02	
VANADIUM	41.1	MG/KG	1.0E+02	31.1
ZINC	374	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-203
AUS-A11N Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	300	UG/KG	1.9E+04	
ACETONE	23	UG/KG	5.4E+06	
ALUMINUM	14300	MG/KG	9.2E+04	9071
ANTIMONY	0.5	MG/KG	4.1E+01	0.42
ARSENIC	10.1	MG/KG	1.6E+00	13.25
BARIUM	199	MG/KG	6.7E+03	238
BERYLLIUM	0.74	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	270	UG/KG	1.2E+05	
BORON	3.7	MG/KG	1.8E+04	4.63
CADMIUM	0.93	MG/KG	4.5E+01	0.35
CALCIUM	15600	MG/KG		2851
CHROMIUM, TOTAL	17.7	MG/KG	4.2E+02	13.77
COBALT	14.2	MG/KG	1.9E+03	9.33
COPPER	41.5	MG/KG	4.1E+03	9.4
cPAH	450.38	MG/KG	2.1E+02	
DIBENZOFURAN	360	UG/KG	1.6E+05	
IRON	24500	MG/KG	3.1E+04	19568
LEAD	342	MG/KG	4.0E+02	25.74
MAGNESIUM	10400	MG/KG		1834.25
MANGANESE	1340	MG/KG	1.9E+03	2371
MERCURY	0.14	MG/KG	3.1E+01	0.28
NAPHTHALENE	140	UG/KG	1.8E+03	
NICKEL	22.7	MG/KG	2.0E+03	12.59
PHENANTHRENE	240	UG/KG	2.9E+06	
POTASSIUM	1020	MG/KG		691
SELENIUM	1.2	MG/KG	5.1E+02	3.17
SILVER	0.71	MG/KG	5.1E+02	0.69
SODIUM	3330	MG/KG		85
THALLIUM	0.24	MG/KG	6.7E+00	0.51
Mammal TEQ	0.22	MG/KG	1.6E+01	
VANADIUM	31.1	MG/KG	1.0E+02	31.1
ZINC	52.6	MG/KG	3.1E+04	41.2

Legend:
Maximum above HH Standard/95% UTL Background

Table 5-204
AUS-A11P Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	170	UG/KG	1.9E+04	
ACENAPHTHYLENE	70	UG/KG	1.8E+03	
ALUMINUM	24200	MG/KG	9.2E+04	9071
ANTHRACENE	190	UG/KG	2.4E+07	
ANTIMONY	0.72	MG/KG	4.1E+01	0.42
ARSENIC	30.8	MG/KG	1.6E+00	13.25
BARIUM	239	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	690	UG/KG	2.1E+03	
BENZO(A)PYRENE	760	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	1600	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	550	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	1500	UG/KG	2.1E+04	
BENZYL BUTYL PHTHALATE	1700	UG/KG	9.3E+05	
BERYLLIUM	0.86	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	4400	UG/KG	1.2E+05	
BORON	7.7	MG/KG	1.8E+04	4.63
CADMIUM	1.3	MG/KG	4.5E+01	0.35
CALCIUM	136000	MG/KG		2851
CARBAZOLE	160	UG/KG	8.6E+04	
CHROMIUM, TOTAL	29.5	MG/KG	4.2E+02	13.77
CHRYSENE	1200	UG/KG	2.1E+05	
COBALT	13.2	MG/KG	1.9E+03	9.33
COPPER	70.5	MG/KG	4.1E+03	9.4
cPAH	1283.2	MG/KG	2.1E+02	
CYANIDE	0.26	MG/KG	1.2E+03	0.56
DIBENZ(A,H)ANTHRACENE	260	UG/KG	2.1E+02	
DIBENZOFURAN	180	UG/KG	1.6E+05	
DI-N-BUTYL PHTHALATE	270	UG/KG	2.3E+06	
FLUORANTHENE	1900	UG/KG	2.2E+06	
INDENO(1,2,3-C,D)PYRENE	510	UG/KG	2.1E+03	
IRON	43300	MG/KG	3.1E+04	19568
LEAD	89.7	MG/KG	4.0E+02	25.74
MAGNESIUM	79700	MG/KG		1834.25
MANGANESE	1820	MG/KG	1.9E+03	2371
MERCURY	1.3	MG/KG	3.1E+01	0.28
NAPHTHALENE	84	UG/KG	1.8E+03	
NICKEL	23.1	MG/KG	2.0E+03	12.59
PCB (total)	18	UG/KG	7.4E+02	
PCB-1260 (AROCHLOR 1260)	18	UG/KG	7.4E+02	
PHENANTHRENE	910	UG/KG	2.9E+06	
POTASSIUM	1400	MG/KG		691
PYRENE	2000	UG/KG	2.9E+06	
SELENIUM	1.5	MG/KG	5.1E+02	3.17
SILVER	0.82	MG/KG	5.1E+02	0.69
SODIUM	108	MG/KG		85
STYRENE	38	UG/KG	4.3E+05	
TETRACHLOROETHYLENE(PCE)	2	UG/KG	1.3E+03	
THALLIUM	0.71	MG/KG	6.7E+00	0.51
Mammal TEQ	0.96	MG/KG	1.6E+01	
VANADIUM	51.2	MG/KG	1.0E+02	31.1
ZINC	858	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-205
AUS-A11S Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
1,1,2-TRICHLOROETHANE	53	UG/KG	1.6E+03	
1-METHYLNAPHTHALENE	1000	UG/KG	1.9E+04	
2,4-DINITROTOLUENE	74	UG/KG	2.5E+03	
2-METHYLNAPHTHALENE	11000	UG/KG	1.9E+04	
ACENAPHTHYLENE	500	UG/KG	1.8E+03	
ALUMINUM	20900	MG/KG	9.2E+04	9071
ANTHRACENE	340	UG/KG	2.4E+07	
ANTIMONY	2.6	MG/KG	4.1E+01	0.42
ARSENIC	27.4	MG/KG	1.6E+00	13.25
BARIUM	513	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	820	UG/KG	2.1E+03	
BENZO(A)PYRENE	1300	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	2100	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	1000	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	1900	UG/KG	2.1E+04	
BERYLLIUM	2.8	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	1700	UG/KG	1.2E+05	
BORON	41.9	MG/KG	1.8E+04	4.63
CADMIUM	26.8	MG/KG	4.5E+01	0.35
CALCIUM	234000	MG/KG		2851
CARBAZOLE	200	UG/KG	8.6E+04	
CHROMIUM, TOTAL	28.7	MG/KG	4.2E+02	13.77
CHRYSENE	1400	UG/KG	2.1E+05	
CIS-1,2-DICHLOROETHYLENE	1300	UG/KG	1.5E+04	
COBALT	110	MG/KG	1.9E+03	9.33
COPPER	39.5	MG/KG	4.1E+03	9.4
cPAH	6336	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	430	UG/KG	2.1E+02	
DIBENZOFURAN	3000	UG/KG	1.6E+05	
DIMETHYL PHTHALATE	1300	UG/KG	1.3E+06	
DI-N-BUTYL PHTHALATE	1600	UG/KG	2.3E+06	
ETHYLBENZENE	110	UG/KG	5.8E+04	
FLUORANTHENE	670	UG/KG	2.2E+06	
FLUORENE	70	UG/KG	2.6E+06	
INDENO(1,2,3-C,D)PYRENE	940	UG/KG	2.1E+03	
IRON	35900	MG/KG	3.1E+04	19568
LEAD	180	MG/KG	4.0E+02	25.74
MAGNESIUM	85700	MG/KG		1834.254144
MANGANESE	8930	MG/KG	1.9E+03	2371
MERCURY	5.1	MG/KG	3.1E+01	0.28
METHYL ETHYL KETONE (2-BUTANONE)	1100	UG/KG	7.1E+05	
NAPHTHALENE	6200	UG/KG	1.8E+03	
NICKEL	151	MG/KG	2.0E+03	12.59
PHENANTHRENE	4300	UG/KG	2.9E+06	
POTASSIUM	1350	MG/KG		691
PYRENE	1200	UG/KG	2.9E+06	
SELENIUM	5.2	MG/KG	5.1E+02	3.17
SILVER	1.4	MG/KG	5.1E+02	0.69
SODIUM	243	MG/KG		85
TETRACHLOROETHYLENE(PCE)	12	UG/KG	1.3E+03	
THALLIUM	2.9	MG/KG	6.7E+00	0.51
TOLUENE	98	UG/KG	4.2E+04	
TOTAL 1,2-DICHLOROETHENE	1300	UG/KG	1.5E+04	
TRANS-1,2-DICHLOROETHENE	9	UG/KG	2.3E+04	
TRICHLOROETHYLENE (TCE)	21000	UG/KG	1.1E+02	
VANADIUM	57.4	MG/KG	1.0E+02	31.1
XYLENES, TOTAL	450	UG/KG	9.0E+04	
ZINC	685	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-206
AUS-0A12 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
1-METHYLNAPHTHALENE	3900	UG/KG	1.9E+04	
2,4,6-TRINITROTOLUENE	1500	UG/KG	3.1E+04	
2,4-DINITROTOLUENE	490	UG/KG	2.5E+03	
2,6-DINITROTOLUENE	92	UG/KG	2.5E+03	
2-METHYLNAPHTHALENE	9100	UG/KG	1.9E+04	
4-AMINO-2,6-DINITROTOLUENE	4600	UG/KG	1.2E+04	
4-NITROTOLUENE	6100	UG/KG	3.0E+04	
ACENAPHTHENE	1300	UG/KG	2.9E+06	
ACENAPHTHYLENE	2400	UG/KG	1.8E+03	
ACETONE	72	UG/KG	5.4E+06	
ALUMINUM	22900	MG/KG	9.2E+04	9071
ANTHRACENE	590	UG/KG	2.4E+07	
ANTIMONY	76.4	MG/KG	4.1E+01	0.42
ARSENIC	26.1	MG/KG	1.6E+00	13.25
BARIUM	1430	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	1100	UG/KG	2.1E+03	
BENZO(A)PYRENE	590	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	410	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	2600	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	480	UG/KG	2.1E+04	
BERYLLIUM	1	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	9100	UG/KG	1.2E+05	
BORON	66.8	MG/KG	1.8E+04	4.63
CADMIUM	15.2	MG/KG	4.5E+01	0.35
CALCIUM	75100	MG/KG		2851
CARBAZOLE	350	UG/KG	8.6E+04	
CARBON TETRACHLORIDE	360	UG/KG	5.5E+02	
CHLOROFORM	260	UG/KG	4.7E+02	
CHROMIUM, TOTAL	4010	MG/KG	4.2E+02	13.77
CHRYSENE	1800	UG/KG	2.1E+05	
CIS-1,2-DICHLOROETHYLENE	490	UG/KG	1.5E+04	
COBALT	30.9	MG/KG	1.9E+03	9.33
COPPER	846	MG/KG	4.1E+03	9.4
cPAH	510.09	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	88	UG/KG	2.1E+02	
DIBENZOFURAN	2800	UG/KG	1.6E+05	
DI-N-BUTYL PHTHALATE	1700	UG/KG	2.3E+06	
FLUORANTHENE	990	UG/KG	2.2E+06	
FLUORENE	270	UG/KG	2.6E+06	
HMX	39000	UG/KG	3.1E+06	
INDENO(1,2,3-C,D)PYRENE	480	UG/KG	2.1E+03	
IRON	69000	MG/KG	3.1E+04	19568
LEAD	7270	MG/KG	4.0E+02	25.74
MAGNESIUM	27900	MG/KG		1834.254144
MANGANESE	20400	MG/KG	1.9E+03	2371
MERCURY	0.39	MG/KG	3.1E+01	0.28
METHYLENE CHLORIDE	34	UG/KG	2.1E+04	
NAPHTHALENE	3900	UG/KG	1.8E+03	
NICKEL	53.8	MG/KG	2.0E+03	12.59
N-NITROSODIPHENYLAMINE	560	UG/KG	3.5E+05	
PCB (total)	49	UG/KG	7.4E+02	
PCB-1254 (AROCHLOR 1254)	28	UG/KG	7.4E+02	
PCB-1260 (AROCHLOR 1260)	21	UG/KG	7.4E+02	
PENTACHLOROPHENOL	1500	UG/KG	9.0E+03	
PHENANTHRENE	4800	UG/KG	2.9E+06	
POTASSIUM	1550	MG/KG		691
PYRENE	1600	UG/KG	2.9E+06	
RDX	17000	UG/KG	1.6E+04	
SELENIUM	7.7	MG/KG	5.1E+02	3.17
SILVER	4	MG/KG	5.1E+02	0.69
SODIUM	4430	MG/KG		85

Table 5-206
AUS-0A12 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
TETRACHLOROETHYLENE(PCE)	2200	UG/KG	1.3E+03	
THALLIUM	1.8	MG/KG	6.7E+00	0.51
TOLUENE	4	UG/KG	4.2E+04	
TOTAL 1,2-DICHLOROETHENE	6	UG/KG	1.5E+04	
Mammal TEQ	5.20	NG/KG	1.6E+01	
TRANS-1,2-DICHLOROETHENE	5	UG/KG	2.3E+04	
TRICHLOROETHYLENE (TCE)	51	UG/KG	1.1E+02	
VANADIUM	39.7	MG/KG	1.0E+02	31.1
ZINC	1970	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-207
AUS-0A13 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2,4-DINITROTOLUENE	64000	UG/KG	2.5E+03	
2,6-DINITROTOLUENE	2900	UG/KG	2.5E+03	
2-METHYLNAPHTHALENE	130	UG/KG	1.9E+04	
4-CHLORO-3-METHYLPHENOL	160	UG/KG		
ACENAPHTHENE	580	UG/KG	2.9E+06	
ACENAPHTHYLENE	120	UG/KG	1.8E+03	
ALUMINUM	8170	MG/KG	9.2E+04	9071
ANTHRACENE	1600	UG/KG	2.4E+07	
ANTIMONY	1.6	MG/KG	4.1E+01	0.42
ARSENIC	9.9	MG/KG	1.6E+00	13.25
BARIUM	245	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	5500	UG/KG	2.1E+03	
BENZO(A)PYRENE	5300	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	6700	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	4300	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	5900	UG/KG	2.1E+04	
BENZYL BUTYL PHTHALATE	390	UG/KG	9.3E+05	
BIS(2-ETHYLHEXYL) PHTHALATE	11000	UG/KG	1.2E+05	
BORON	5.8	MG/KG	1.8E+04	4.63
CADMIUM	0.54	MG/KG	4.5E+01	0.35
CALCIUM	359000	MG/KG		2851
CARBAZOLE	960	UG/KG	8.6E+04	
CHROMIUM, TOTAL	155	MG/KG	4.2E+02	13.77
CHRYSENE	7800	UG/KG	2.1E+05	
COBALT	18.2	MG/KG	1.9E+03	9.33
COPPER	117	MG/KG	4.1E+03	9.4
cPAH	8866.8	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	1900	UG/KG	2.1E+02	
DIBENZOFURAN	440	UG/KG	1.6E+05	
DIMETHYL PHTHALATE	68	UG/KG	1.3E+06	
DI-N-BUTYL PHTHALATE	230000	UG/KG	2.3E+06	
DI-N-OCTYLPHTHALATE	85	UG/KG	2.5E+06	
FLUORANTHENE	11000	UG/KG	2.2E+06	
FLUORENE	550	UG/KG	2.6E+06	
INDENO(1,2,3-C,D)PYRENE	3800	UG/KG	2.1E+03	
IRON	25200	MG/KG	3.1E+04	19568
LEAD	73	MG/KG	4.0E+02	25.74
MAGNESIUM	42900	MG/KG		1834.254144
MANGANESE	1500	MG/KG	1.9E+03	2371
MERCURY	0.83	MG/KG	3.1E+01	0.28
NAPHTHALENE	110	UG/KG	1.8E+03	
NICKEL	18	MG/KG	2.0E+03	12.59
NITROGLYCERIN	300000	UG/KG	1.0E+05	
N-NITROSODIPHENYLAMINE	52000	UG/KG	3.5E+05	
PHENANTHRENE	7600	UG/KG	2.9E+06	
PHENOL	55	UG/KG	1.8E+07	
POTASSIUM	889	MG/KG		691
PYRENE	9500	UG/KG	2.9E+06	
SELENIUM	4.2	MG/KG	5.1E+02	3.17
SILVER	0.55	MG/KG	5.1E+02	0.69
THALLIUM	0.24	MG/KG	6.7E+00	0.51
TOTAL ORGANIC CARBON	35300	MG/KG		
VANADIUM	26.5	MG/KG	1.0E+02	31.1
ZINC	236	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-208
AUS-0062 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
ALUMINUM	28000	MG/KG	9.2E+04	9071
ANTIMONY	0.52	MG/KG	4.1E+01	0.42
ARSENIC	8.6	MG/KG	1.6E+00	13.25
BARIUM	105	MG/KG	6.7E+03	238
BERYLLIUM	0.71	MG/KG	1.9E+02	0.49
BORON	1.6	MG/KG	1.8E+04	4.63
CADMIUM	0.78	MG/KG	4.5E+01	0.35
CALCIUM	2390	MG/KG		2851
CHROMIUM, TOTAL	29.8	MG/KG	4.2E+02	13.77
COBALT	10	MG/KG	1.9E+03	9.33
COPPER	15.6	MG/KG	4.1E+03	9.4
IRON	26100	MG/KG	3.1E+04	19568
LEAD	37.5	MG/KG	4.0E+02	25.74
MAGNESIUM	3230	MG/KG		1834.25
MANGANESE	541	MG/KG	1.9E+03	2371
MERCURY	0.051	MG/KG	3.1E+01	0.28
NICKEL	24.1	MG/KG	2.0E+03	12.59
POTASSIUM	1300	MG/KG		691
SELENIUM	1.1	MG/KG	5.1E+02	3.17
SODIUM	545	MG/KG		85
THALLIUM	0.66	MG/KG	6.7E+00	0.51
TRICHLOROETHYLENE (TCE)	4	UG/KG	1.1E+02	
VANADIUM	43	MG/KG	1.0E+02	31.1
ZINC	56	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-209
AUS-0065 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2,4-DIMETHYLPHENOL	1100	UG/KG	1.2E+06	
2-METHYLNAPHTHALENE	3500	UG/KG	1.9E+04	
2-METHYLPHENOL (O-CRESOL)	760	UG/KG	3.1E+06	
4-METHYLPHENOL (P-CRESOL)	2600	UG/KG	3.1E+05	
4-NITROTOLUENE	1700	UG/KG	3.0E+04	
ACENAPHTHENE	850	UG/KG	2.9E+06	
ACENAPHTHYLENE	7200	UG/KG	1.8E+03	
ALUMINUM	12700	MG/KG	9.2E+04	9071
ANTHRACENE	5900	UG/KG	2.4E+07	
ANTIMONY	0.76	MG/KG	4.1E+01	0.42
ARSENIC	9.7	MG/KG	1.6E+00	13.25
BARIUM	164	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	11000	UG/KG	2.1E+03	
BENZO(A)PYRENE	12000	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	11000	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	12000	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	9200	UG/KG	2.1E+04	
BERYLLIUM	0.86	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	1400	UG/KG	1.2E+05	
BORON	11.7	MG/KG	1.8E+04	4.63
CADMIUM	1.3	MG/KG	4.5E+01	0.35
CALCIUM	106000	MG/KG		2851
CARBAZOLE	5600	UG/KG	8.6E+04	
CHROMIUM, TOTAL	20.6	MG/KG	4.2E+02	13.77
CHRYSENE	14000	UG/KG	2.1E+05	
COBALT	11.6	MG/KG	1.9E+03	9.33
COPPER	33.4	MG/KG	4.1E+03	9.4
cPAH	19996	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	4700	UG/KG	2.1E+02	
DIBENZOFURAN	3100	UG/KG	1.6E+05	
FLUORANTHENE	21000	UG/KG	2.2E+06	
FLUORENE	5100	UG/KG	2.6E+06	
INDENO(1,2,3-C,D)PYRENE	9900	UG/KG	2.1E+03	
IRON	19300	MG/KG	3.1E+04	19568
LEAD	212	MG/KG	4.0E+02	25.74
MAGNESIUM	11100	MG/KG		1834.25
MANGANESE	1140	MG/KG	1.9E+03	2371
MERCURY	0.48	MG/KG	3.1E+01	0.28
NAPHTHALENE	4700	UG/KG	1.8E+03	
NICKEL	14.1	MG/KG	2.0E+03	12.59
PHENANTHRENE	27000	UG/KG	2.9E+06	
PHENOL	940	UG/KG	1.8E+07	
POTASSIUM	1340	MG/KG		691
PYRENE	17000	UG/KG	2.9E+06	
SELENIUM	1.4	MG/KG	5.1E+02	3.17
SODIUM	143	MG/KG		85
TOTAL ORGANIC CARBON	27900	MG/KG		
VANADIUM	37.9	MG/KG	1.0E+02	31.1
ZINC	351	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-210
AUS-0066 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	84	UG/KG	1.9E+04	
ALUMINUM	14400	MG/KG	9.2E+04	9071
ARSENIC	6.9	MG/KG	1.6E+00	13.25
BARIUM	132	MG/KG	6.7E+03	238
BERYLLIUM	0.67	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	50	UG/KG	1.2E+05	
CADMIUM	0.59	MG/KG	4.5E+01	0.35
CALCIUM	799	MG/KG		2851
CHROMIUM, TOTAL	20.7	MG/KG	4.2E+02	13.77
COBALT	22.8	MG/KG	1.9E+03	9.33
COPPER	11.3	MG/KG	4.1E+03	9.4
cPAH	451.51	MG/KG	2.1E+02	
IRON	21800	MG/KG	3.1E+04	19568
LEAD	26.1	MG/KG	4.0E+02	25.74
MAGNESIUM	1970	MG/KG		1834.25
MANGANESE	1700	MG/KG	1.9E+03	2371
MERCURY	0.038	MG/KG	3.1E+01	0.28
NICKEL	17.3	MG/KG	2.0E+03	12.59
PHENANTHRENE	49	UG/KG	2.9E+06	
POTASSIUM	818	MG/KG		691
SELENIUM	0.52	MG/KG	5.1E+02	3.17
SODIUM	52.8	MG/KG		85
THALLIUM	0.57	MG/KG	6.7E+00	0.51
VANADIUM	33.2	MG/KG	1.0E+02	31.1
ZINC	56.7	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-211
AUS-0067 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	950	UG/KG	1.9E+04	
ALUMINUM	17700	MG/KG	9.2E+04	9071
ANTHRACENE	66	UG/KG	2.4E+07	
ANTIMONY	0.76	MG/KG	4.1E+01	0.42
ARSENIC	14.2	MG/KG	1.6E+00	13.25
BARIUM	274	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	200	UG/KG	2.1E+03	
BENZO(A)PYRENE	130	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	180	UG/KG	2.1E+03	
BERYLLIUM	1	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	200	UG/KG	1.2E+05	
BORON	7.2	MG/KG	1.8E+04	4.63
CADMIUM	1.5	MG/KG	4.5E+01	0.35
CALCIUM	2290	MG/KG		2851
CARBAZOLE	57	UG/KG	8.6E+04	
CHROMIUM, TOTAL	22.2	MG/KG	4.2E+02	13.77
CHRYSENE	210	UG/KG	2.1E+05	
COBALT	14	MG/KG	1.9E+03	9.33
COPPER	36.1	MG/KG	4.1E+03	9.4
cPAH	451.26	MG/KG	2.1E+02	
DIBENZOFURAN	360	UG/KG	1.6E+05	
FLUORANTHENE	240	UG/KG	2.2E+06	
IRON	35100	MG/KG	3.1E+04	19568
LEAD	227	MG/KG	4.0E+02	25.74
MAGNESIUM	2940	MG/KG		1834.25
MANGANESE	1880	MG/KG	1.9E+03	2371
MERCURY	0.12	MG/KG	3.1E+01	0.28
NAPHTHALENE	360	UG/KG	1.8E+03	
NICKEL	22.9	MG/KG	2.0E+03	12.59
PHENANTHRENE	770	UG/KG	2.9E+06	
POTASSIUM	1630	MG/KG		691
PYRENE	310	UG/KG	2.9E+06	
SELENIUM	0.89	MG/KG	5.1E+02	3.17
SODIUM	76.2	MG/KG		85
TETRYL	3100	UG/KG	6.2E+05	
THALLIUM	0.49	MG/KG	6.7E+00	0.51
VANADIUM	41	MG/KG	1.0E+02	31.1
ZINC	355	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-212
AUS-0069 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2,4,6-TRINITROTOLUENE	680	UG/KG	3.1E+04	
2-AMINO-4,6-DINITROTOLUENE	370	UG/KG	1.2E+04	
2-METHYLNAPHTHALENE	72	UG/KG	1.9E+04	
4-AMINO-2,6-DINITROTOLUENE	250	UG/KG	1.2E+04	
ALUMINUM	14800	MG/KG	9.2E+04	9071
ANTHRACENE	130	UG/KG	2.4E+07	
ANTIMONY	173	MG/KG	4.1E+01	0.42
ARSENIC	48.1	MG/KG	1.6E+00	13.25
BARIUM	4940	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	1700	UG/KG	2.1E+03	
BENZO(A)PYRENE	2200	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	2600	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	2000	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	1700	UG/KG	2.1E+04	
BERYLLIUM	1.6	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	120	UG/KG	1.2E+05	
BORON	84.2	MG/KG	1.8E+04	4.63
CADMIUM	28	MG/KG	4.5E+01	0.35
CALCIUM	51300	MG/KG		2851
CARBAZOLE	77	UG/KG	8.6E+04	
CHROMIUM, TOTAL	266	MG/KG	4.2E+02	13.77
CHRYSENE	1800	UG/KG	2.1E+05	
COBALT	28.6	MG/KG	1.9E+03	9.33
COPPER	7060	MG/KG	4.1E+03	9.4
cPAH	3448.8	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	630	UG/KG	2.1E+02	
DIBENZOFURAN	65	UG/KG	1.6E+05	
DI-N-BUTYL PHTHALATE	720	UG/KG	2.3E+06	
FLUORANTHENE	2400	UG/KG	2.2E+06	
INDENO(1,2,3-C,D)PYRENE	1700	UG/KG	2.1E+03	
IRON	308000	MG/KG	3.1E+04	19568
LEAD	51000	MG/KG	4.0E+02	25.74
MAGNESIUM	13900	MG/KG		1834.25
MANGANESE	1620	MG/KG	1.9E+03	2371
MERCURY	0.52	MG/KG	3.1E+01	0.28
NAPHTHALENE	160	UG/KG	1.8E+03	
NICKEL	130	MG/KG	2.0E+03	12.59
PHENANTHRENE	440	UG/KG	2.9E+06	
POTASSIUM	1580	MG/KG		691
PYRENE	2200	UG/KG	2.9E+06	
SELENIUM	4.1	MG/KG	5.1E+02	3.17
SILVER	15.3	MG/KG	5.1E+02	0.69
SODIUM	1080	MG/KG		85
TETRACHLOROETHYLENE(PCE)	5	UG/KG	1.3E+03	
VANADIUM	89.5	MG/KG	1.0E+02	31.1
ZINC	16400	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-213
AUS-0001 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
ACENAPHTHYLENE	150	UG/KG	1.8E+03	
ALUMINUM	13200	MG/KG	9.2E+04	9071
ANTHRACENE	170	UG/KG	2.4E+07	
ANTIMONY	1.1	MG/KG	4.1E+01	0.42
ARSENIC	535	MG/KG	1.6E+00	13.25
BARIUM	176	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	620	UG/KG	2.1E+03	
BENZO(A)PYRENE	330	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	1700	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	360	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	450	UG/KG	2.1E+04	
BERYLLIUM	0.85	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	280	UG/KG	1.2E+05	
BORON	36.8	MG/KG	1.8E+04	4.63
CADMIUM	2.7	MG/KG	4.5E+01	0.35
CALCIUM	16400	MG/KG		2851
CARBAZOLE	56	UG/KG	8.6E+04	
CHROMIUM, TOTAL	27	MG/KG	4.2E+02	13.77
CHRYSENE	1500	UG/KG	2.1E+05	
COBALT	8.3	MG/KG	1.9E+03	9.33
COPPER	94	MG/KG	4.1E+03	9.4
cPAH	826	MG/KG	2.1E+02	
DI-N-BUTYL PHTHALATE	86	UG/KG	2.3E+06	
FLUORANTHENE	2600	UG/KG	2.2E+06	
INDENO(1,2,3-C,D)PYRENE	480	UG/KG	2.1E+03	
IRON	24800	MG/KG	3.1E+04	19568
LEAD	1050	MG/KG	4.0E+02	25.74
MAGNESIUM	2270	MG/KG		1834.254144
MANGANESE	437	MG/KG	1.9E+03	2371
MERCURY	0.26	MG/KG	3.1E+01	0.28
NICKEL	21.2	MG/KG	2.0E+03	12.59
PHENANTHRENE	1200	UG/KG	2.9E+06	
POTASSIUM	1430	MG/KG		691
PYRENE	1600	UG/KG	2.9E+06	
SELENIUM	12.9	MG/KG	5.1E+02	3.17
SILVER	3.4	MG/KG	5.1E+02	0.69
SODIUM	406	MG/KG		85
THALLIUM	2.4	MG/KG	6.7E+00	0.51
VANADIUM	55.7	MG/KG	1.0E+02	31.1
ZINC	1410	MG/KG	3.1E+04	41.2

Legend:
Constituent requires further investigation.

Table 5-214
AUS-0002 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
ALUMINUM	12300	MG/KG	9.2E+04	9071
ANTIMONY	0.27	MG/KG	4.1E+01	0.42
ARSENIC	6.9	MG/KG	1.6E+00	13.25
BARIUM	108	MG/KG	6.7E+03	238
BERYLLIUM	0.41	MG/KG	1.9E+02	0.49
BORON	1.4	MG/KG	1.8E+04	4.63
CADMIUM	2	MG/KG	4.5E+01	0.35
CALCIUM	6430	MG/KG	0.0E+00	2851
CHROMIUM, TOTAL	18.3	MG/KG	4.2E+02	13.77
COBALT	9.9	MG/KG	1.9E+03	9.33
COPPER	12.1	MG/KG	4.1E+03	9.4
IRON	20700	MG/KG	3.1E+04	19568
LEAD	20.9	MG/KG	4.0E+02	25.74
MAGNESIUM	2500	MG/KG	0.0E+00	1834.25
MANGANESE	1660	MG/KG	1.9E+03	2371
MERCURY	0.091	MG/KG	3.1E+01	0.28
NICKEL	10.8	MG/KG	2.0E+03	12.59
POTASSIUM	1080	MG/KG	0.0E+00	691
SILVER	0.89	MG/KG	5.1E+02	0.69
SODIUM	142	MG/KG	0.0E+00	85
TOLUENE	2	UG/KG	4.2E+04	0
VANADIUM	29.3	MG/KG	1.0E+02	31.1
ZINC	53.1	MG/KG	3.1E+04	41.2

Legend:
Constituent requires further investigation.

Table 5-215
AUS-0018 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
ACETONE	40	UG/KG	5.4E+06	
ALUMINUM	16800	MG/KG	9.2E+04	9071
ANTIMONY	0.59	MG/KG	4.1E+01	0.42
ARSENIC	12.6	MG/KG	1.6E+00	13.25
BARIUM	225	MG/KG	6.7E+03	238
BERYLLIUM	0.79	MG/KG	1.9E+02	0.49
BORON	0.84	MG/KG	1.8E+04	4.63
CADMIUM	0.82	MG/KG	4.5E+01	0.35
CALCIUM	9390	MG/KG		2851
CHROMIUM, TOTAL	20.5	MG/KG	4.2E+02	13.77
COBALT	13.5	MG/KG	1.9E+03	9.33
COPPER	17.3	MG/KG	4.1E+03	9.4
IRON	25800	MG/KG	3.1E+04	19568
LEAD	34.3	MG/KG	4.0E+02	25.74
MAGNESIUM	113000	MG/KG		1834.25
MANGANESE	1210	MG/KG	1.9E+03	2371
MERCURY	0.09	MG/KG	3.1E+01	0.28
NICKEL	16.2	MG/KG	2.0E+03	12.59
POTASSIUM	817	MG/KG		691
SELENIUM	0.69	MG/KG	5.1E+02	3.17
SODIUM	93.9	MG/KG		85
THALLIUM	0.69	MG/KG	6.7E+00	0.51
VANADIUM	40.4	MG/KG	1.0E+02	31.1
ZINC	110	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-216
AUS-0043 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2,6-DINITROTOLUENE	950	UG/KG	2.5E+03	
2-METHYLNAPHTHALENE	46	UG/KG	1.9E+04	
ACENAPHTHYLENE	290	UG/KG	1.8E+03	
ALUMINUM	13800	MG/KG	9.2E+04	9071
ANTHRACENE	240	UG/KG	2.4E+07	
ANTIMONY	0.91	MG/KG	4.1E+01	0.42
ARSENIC	12.2	MG/KG	1.6E+00	13.25
BARIUM	123	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	1200	UG/KG	2.1E+03	
BENZO(A)PYRENE	1200	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	3000	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	1300	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	1000	UG/KG	2.1E+04	
BERYLLIUM	0.53	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	370	UG/KG	1.2E+05	
BORON	7.7	MG/KG	1.8E+04	4.63
CADMIUM	0.62	MG/KG	4.5E+01	0.35
CALCIUM	160000	MG/KG		2851
CHROMIUM, TOTAL	19.4	MG/KG	4.2E+02	13.77
CHRYSENE	1600	UG/KG	2.1E+05	
COBALT	7.1	MG/KG	1.9E+03	9.33
COPPER	18	MG/KG	4.1E+03	9.4
cPAH	2691.6	MG/KG	2.1E+02	
FLUORANTHENE	900	UG/KG	2.2E+06	
INDENO(1,2,3-C,D)PYRENE	1100	UG/KG	2.1E+03	
IRON	19400	MG/KG	3.1E+04	19568
LEAD	1110	MG/KG	4.0E+02	25.74
MAGNESIUM	97300	MG/KG		1834.25
MANGANESE	413	MG/KG	1.9E+03	2371
MERCURY	0.063	MG/KG	3.1E+01	0.28
NICKEL	17.9	MG/KG	2.0E+03	12.59
PHENANTHRENE	76	UG/KG	2.9E+06	
POTASSIUM	1070	MG/KG		691
PYRENE	1900	UG/KG	2.9E+06	
SODIUM	189	MG/KG		85
TETRYL	480	UG/KG	6.2E+05	
VANADIUM	28.8	MG/KG	1.0E+02	31.1
ZINC	211	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-217
AUS-0060 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
ALUMINUM	15100	MG/KG	9.2E+04	9071
ANTIMONY	0.45	MG/KG	4.1E+01	0.42
ARSENIC	12.2	MG/KG	1.6E+00	13.25
BARIUM	122	MG/KG	6.7E+03	238
BERYLLIUM	0.66	MG/KG	1.9E+02	0.49
BORON	3.1	MG/KG	1.8E+04	4.63
CALCIUM	1710	MG/KG		2851
CHROMIUM, TOTAL	19.6	MG/KG	4.2E+02	13.77
COBALT	8.5	MG/KG	1.9E+03	9.33
COPPER	12.1	MG/KG	4.1E+03	9.4
IRON	22600	MG/KG	3.1E+04	19568
LEAD	26.1	MG/KG	4.0E+02	25.74
MAGNESIUM	2490	MG/KG		1834.25
MANGANESE	941	MG/KG	1.9E+03	2371
MERCURY	0.14	MG/KG	3.1E+01	0.28
NICKEL	13	MG/KG	2.0E+03	12.59
POTASSIUM	806	MG/KG		691
SELENIUM	2	MG/KG	5.1E+02	3.17
SODIUM	46.9	MG/KG		85
VANADIUM	43.6	MG/KG	1.0E+02	31.1
ZINC	53	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-218
AUS-0061 Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	70	UG/KG	1.9E+04	
ACENAPHTHYLENE	850	UG/KG	1.8E+03	
ALUMINUM	12800	MG/KG	9.2E+04	9071
ANTHRACENE	800	UG/KG	2.4E+07	
ANTIMONY	7.3	MG/KG	4.1E+01	0.42
ARSENIC	13.6	MG/KG	1.6E+00	13.25
BARIUM	141	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	3000	UG/KG	2.1E+03	
BENZO(A)PYRENE	3300	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	5400	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	2200	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	4500	UG/KG	2.1E+04	
BERYLLIUM	0.95	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	1100	UG/KG	1.2E+05	
BORON	34.9	MG/KG	1.8E+04	4.63
CADMIUM	90.9	MG/KG	4.5E+01	0.35
CALCIUM	10200	MG/KG		2851
CARBAZOLE	460	UG/KG	8.6E+04	
CHROMIUM, TOTAL	23.9	MG/KG	4.2E+02	13.77
CHRYSENE	4600	UG/KG	2.1E+05	
COBALT	7.8	MG/KG	1.9E+03	9.33
COPPER	69.9	MG/KG	4.1E+03	9.4
cPAH	5279.6	MG/KG	2.1E+02	
DIBENZ(A,H)ANTHRACENE	850	UG/KG	2.1E+02	
DIBENZOFURAN	84	UG/KG	1.6E+05	
FLUORANTHENE	5300	UG/KG	2.2E+06	
FLUORENE	60	UG/KG	2.6E+06	
INDENO(1,2,3-C,D)PYRENE	2400	UG/KG	2.1E+03	
IRON	70400	MG/KG	3.1E+04	19568
LEAD	544	MG/KG	4.0E+02	25.74
MAGNESIUM	2010	MG/KG		1834.254144
MANGANESE	1640	MG/KG	1.9E+03	2371
MERCURY	1.1	MG/KG	3.1E+01	0.28
NAPHTHALENE	130	UG/KG	1.8E+03	
NICKEL	44.6	MG/KG	2.0E+03	12.59
PHENANTHRENE	1400	UG/KG	2.9E+06	
POTASSIUM	911	MG/KG		691
PYRENE	5400	UG/KG	2.9E+06	
SELENIUM	5.8	MG/KG	5.1E+02	3.17
SODIUM	271	MG/KG		85
THALLIUM	0.61	MG/KG	6.7E+00	0.51
VANADIUM	26.6	MG/KG	1.0E+02	31.1
ZINC	893	MG/KG	3.1E+04	41.2

Legend:
Constituent requiresf additional investigation.

Table 5-219
AUS-106A Human Health Receptors Soil Constituents Screening for Additional Investigation

Constituent	Soil Maximum	Units	HH Standard	Background
2-METHYLNAPHTHALENE	820	UG/KG	1.9E+04	
ALUMINUM	51500	MG/KG	9.2E+04	9071
ANTIMONY	6.2	MG/KG	4.1E+01	0.42
ARSENIC	22.6	MG/KG	1.6E+00	13.25
BARIUM	1730	MG/KG	6.7E+03	238
BENZO(A)ANTHRACENE	68	UG/KG	2.1E+03	
BENZO(A)PYRENE	66	UG/KG	2.1E+02	
BENZO(B)FLUORANTHENE	74	UG/KG	2.1E+03	
BENZO(G,H,I)PERYLENE	95	UG/KG	6.1E+07	
BENZO(K)FLUORANTHENE	56	UG/KG	2.1E+04	
BERYLLIUM	0.97	MG/KG	1.9E+02	0.49
BIS(2-ETHYLHEXYL) PHTHALATE	18000	UG/KG	1.2E+05	
BORON	43.5	MG/KG	1.8E+04	4.63
CADMIUM	150	MG/KG	4.5E+01	0.35
CALCIUM	39800	MG/KG		2851
CHROMIUM, TOTAL	239	MG/KG	4.2E+02	13.77
CHRYSENE	170	UG/KG	2.1E+05	
CIS-1,2-DICHLOROETHYLENE	24	UG/KG	1.5E+04	
COBALT	11.8	MG/KG	1.9E+03	9.33
COPPER	3300	MG/KG	4.1E+03	9.4
cPAH	623.81	MG/KG	2.1E+02	
DIBENZOFURAN	140	UG/KG	1.6E+05	
DIETHYL PHTHALATE	220	UG/KG	2.0E+06	
DIMETHYL PHTHALATE	6100	UG/KG	1.3E+06	
DI-N-BUTYL PHTHALATE	11000	UG/KG	2.3E+06	
DI-N-OCTYLPHTHALATE	72	UG/KG	2.5E+06	
ETHYLBENZENE	6	UG/KG	5.8E+04	
FLUORANTHENE	74	UG/KG	2.2E+06	
HMX	1500	UG/KG	3.1E+06	
INDENO(1,2,3-C,D)PYRENE	61	UG/KG	2.1E+03	
IRON	95600	MG/KG	3.1E+04	19568
LEAD	2470	MG/KG	4.0E+02	25.74
MAGNESIUM	15500	MG/KG		1834.25
MANGANESE	1490	MG/KG	1.9E+03	2371
MERCURY	1.1	MG/KG	3.1E+01	0.28
METHYL ETHYL KETONE (2-BUTANONE)	53	UG/KG	7.1E+05	
NAPHTHALENE	590	UG/KG	1.8E+03	
NICKEL	370	MG/KG	2.0E+03	12.59
PHENANTHRENE	320	UG/KG	2.9E+06	
POTASSIUM	2930	MG/KG		691
PYRENE	140	UG/KG	2.9E+06	
SELENIUM	21.8	MG/KG	5.1E+02	3.17
SILVER	5.3	MG/KG	5.1E+02	0.69
SODIUM	2090	MG/KG		85
STYRENE	200	UG/KG	4.3E+05	
TETRYL	1500	UG/KG	6.2E+05	
TOTAL 1,2-DICHLOROETHENE	24	UG/KG	1.5E+04	
TRICHLOROETHYLENE (TCE)	13000	UG/KG	1.1E+02	
VANADIUM	49.1	MG/KG	1.0E+02	31.1
XYLENES, TOTAL	440	UG/KG	9.0E+04	
ZINC	3160	MG/KG	3.1E+04	41.2

Legend:
Constituent requires additional investigation.

Table 5-220
AUS-0A2B Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	250	UG/KG		8.4E+04	7.7E+03
ACETONE	48	UG/KG		1.6E+04	1.6E+04
ALUMINUM	8610	MG/KG	9071		
ANTHRACENE	57	UG/KG		1.2E+07	1.2E+07
ANTIMONY	55.9	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	35.2	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	1260	MG/KG	238	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	290	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	280	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	410	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	180	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	170	UG/KG		4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	48	UG/KG		9.3E+05	9.3E+05
BERYLLIUM	1.3	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	240	UG/KG			3.6E+06
BORON	17.5	MG/KG	4.63		
CADMIUM	1.2	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	212000	MG/KG	2851		
CARBAZOLE	42	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	104	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	350	UG/KG		1.6E+05	1.6E+05
COBALT	25.6	MG/KG	9.33		
COPPER	1560	MG/KG	9.4		5.9E+04
CYANIDE	2.5	MG/KG	0.56		4.0E+01
DIBENZ(A,H)ANTHRACENE	50	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	120	UG/KG			1.5E+04
DI-N-BUTYL PHTHALATE	91	UG/KG		2.3E+06	2.3E+06
FLUORANTHENE	600	UG/KG		4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	190	UG/KG		1.4E+04	1.4E+04
IRON	58800	MG/KG	19568		
LEAD	2000	MG/KG	25.74		
MAGNESIUM	22900	MG/KG	1834.254144		
MANGANESE	6350	MG/KG	2371		
MERCURY	0.99	MG/KG	0.28		8.9E-01
NAPHTHALENE	96	UG/KG		8.4E+04	1.2E+04
NICKEL	22.9	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	320	UG/KG		4.2E+06	2.2E+05
POTASSIUM	906	MG/KG	691		
PYRENE	480	UG/KG		4.2E+06	4.2E+06
SELENIUM	4.5	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	1.9	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	408	MG/KG	85		
TETRACHLOROETHYLENE(PCE)	80	UG/KG		6.0E+01	6.0E+01
THALLIUM	1	MG/KG	0.51		2.6E+00
TOTAL ORGANIC CARBON	46900	MG/KG			
TRICHLOROETHYLENE (TCE)	150	UG/KG		6.0E+01	6.0E+01
VANADIUM	74.1	MG/KG	31.1	6.0E+03	9.8E+02
ZINC	465	MG/KG	41.2	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-221
AUS-0A2D Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	7100	UG/KG		8.4E+04	7.7E+03
ACENAPHTHENE	520	UG/KG		5.7E+05	5.7E+05
ACETONE	34	UG/KG		1.6E+04	1.6E+04
ALUMINUM	19100	MG/KG	9071.00		
ANTHRACENE	1200	UG/KG		1.2E+07	1.2E+07
ANTIMONY	5.3	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	120	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	302	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	4800	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	4800	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	5200	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	2300	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	4400	UG/KG		4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	5900	UG/KG		9.3E+05	9.3E+05
BERYLLIUM	1.1	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	11000	UG/KG			3.6E+06
BORON	2460	MG/KG	4.63		
CADMIUM	2.3	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	133000	MG/KG	2851.00		
CARBAZOLE	620	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	96.8	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	5500	UG/KG		1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	220	UG/KG		4.0E+02	4.0E+02
COBALT	15	MG/KG	9.33		
COPPER	937	MG/KG	9.40		5.9E+04
CYANIDE	0.88	MG/KG	0.56		4.0E+01
DIBENZ(A,H)ANTHRACENE	1200	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	2700	UG/KG			1.5E+04
DIMETHYL PHTHALATE	2500	UG/KG			3.8E+05
DI-N-BUTYL PHTHALATE	220	UG/KG		2.3E+06	2.3E+06
FLUORANTHENE	7100	UG/KG		4.3E+06	4.3E+06
FLUORENE	430	UG/KG		5.6E+05	5.6E+05
HMX	6000	UG/KG			5.7E+03
INDENO(1,2,3-C,D)PYRENE	2100	UG/KG		1.4E+04	1.4E+04
IRON	22600	MG/KG	19568.00		
LEAD	372	MG/KG	25.74		
MAGNESIUM	40800	MG/KG	1834.25		
MANGANESE	2370	MG/KG	2371.00		
MERCURY	0.19	MG/KG	0.28		8.9E-01
METHYL ETHYL KETONE (2-BUTANONE)	1200	UG/KG			1.7E+04
NAPHTHALENE	2800	UG/KG		8.4E+04	1.2E+04
N-HEXANE	16	UG/KG			
NICKEL	24.3	MG/KG	12.59	1.3E+02	1.0E+02
NITROGLYCERIN	5300	UG/KG			2.0E+01
PENTACHLOROPHENOL	92	UG/KG		3.0E+01	4.0E+01
PHENANTHRENE	6500	UG/KG		4.2E+06	2.2E+05
PHENOL	100	UG/KG		1.0E+05	1.0E+05
PHOSPHORUS, TOTAL (AS P)	891	MG/KG			
POTASSIUM	2240	MG/KG	691.00		
PYRENE	6800	UG/KG		4.2E+06	4.2E+06
RDX	76000	UG/KG			3.6E+02
SELENIUM	2.2	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	40.3	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	656	MG/KG	85.00		
TETRACHLOROETHYLENE(PCE)	810	UG/KG		6.0E+01	6.0E+01
THALLIUM	0.26	MG/KG	0.51		2.6E+00
TOLUENE	2	UG/KG		1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	230	UG/KG		4.0E+02	4.0E+02
Mammal TEQ	27.9	NG/KG			
TRICHLOROETHYLENE (TCE)	920	UG/KG		6.0E+01	6.0E+01
VANADIUM	46.3	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	1060	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-222
AUS-0A2F Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
4-METHYLPHENOL (P-CRESOL)	870	UG/KG			2.4E+02
ALUMINUM	15800	MG/KG	9071.00		
ANTIMONY	1	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	15.2	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	167	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	49	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	48	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	55	UG/KG		5.0E+03	5.0E+03
BENZO(K)FLUORANTHENE	64	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	0.61	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	55	UG/KG			3.6E+06
BORON	14.2	MG/KG	4.63		
CADMIUM	1.8	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	59100	MG/KG	2851.00		
CARBON DISULFIDE	6	UG/KG		3.2E+04	3.2E+04
CHROMIUM, TOTAL	20.1	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	77	UG/KG		1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	29	UG/KG		4.0E+02	4.0E+02
COBALT	9.4	MG/KG	9.33		
COPPER	57.1	MG/KG	9.40		5.9E+04
FLUORANTHENE	68	UG/KG		4.3E+06	4.3E+06
IRON	39600	MG/KG	19568.00		
LEAD	101	MG/KG	25.74		
MAGNESIUM	14700	MG/KG	1834.25		
MANGANESE	1280	MG/KG	2371.00		
MERCURY	0.1	MG/KG	0.28		8.9E-01
NICKEL	19.9	MG/KG	12.59	1.3E+02	1.0E+02
POTASSIUM	747	MG/KG	691.00		
PYRENE	79	UG/KG		4.2E+06	4.2E+06
SELENIUM	0.94	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	1.3	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	308	MG/KG	85.00		
THALLIUM	0.6	MG/KG	0.51		2.6E+00
TOTAL ORGANIC CARBON	38000	MG/KG			
TRICHLOROETHYLENE (TCE)	96	UG/KG		6.0E+01	6.0E+01
VANADIUM	32	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	231	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-223
AUS-0A2P Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
1-METHYLNAPHTHALENE	2200	UG/KG		8.4E+04	7.2E+03
2-METHYLNAPHTHALENE	6700	UG/KG		8.4E+04	7.7E+03
ACENAPHTHENE	95	UG/KG		5.7E+05	5.7E+05
ACENAPHTHYLENE	3700	UG/KG		8.4E+04	2.4E+04
ALUMINUM	12000	MG/KG	9071.00		
ANTHRACENE	100	UG/KG		1.2E+07	1.2E+07
ANTIMONY	1.6	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	87.5	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	139	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	500	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	480	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	510	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	330	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	490	UG/KG		4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	6300	UG/KG		9.3E+05	9.3E+05
BERYLLIUM	0.73	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	190	UG/KG			3.6E+06
BORON	7.3	MG/KG	4.63		
CADMIUM	1.3	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	113000	MG/KG	2851.00		
CARBAZOLE	66	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	28.6	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	630	UG/KG		1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	8	UG/KG		4.0E+02	4.0E+02
COBALT	15.1	MG/KG	9.33		
COPPER	186	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	130	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	58	UG/KG			1.5E+04
DIETHYL PHTHALATE	140	UG/KG			4.7E+05
FLUORANTHENE	1200	UG/KG		4.3E+06	4.3E+06
FLUORENE	44	UG/KG		5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	310	UG/KG		1.4E+04	1.4E+04
IRON	25700	MG/KG	19568.00		
LEAD	60.5	MG/KG	25.74		
MAGNESIUM	57200	MG/KG	1834.25		
MANGANESE	1680	MG/KG	2371.00		
MERCURY	0.32	MG/KG	0.28		8.9E-01
NAPHTHALENE	1600	UG/KG		8.4E+04	1.2E+04
NICKEL	22.7	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	1200	UG/KG		4.2E+06	2.2E+05
POTASSIUM	886	MG/KG	691.00		
PYRENE	980	UG/KG		4.2E+06	4.2E+06
SELENIUM	3.7	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	237	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	1590	MG/KG	85.00		
TETRACHLOROETHYLENE(PCE)	15	UG/KG		6.0E+01	6.0E+01
THALLIUM	0.21	MG/KG	0.51		2.6E+00
TOTAL ORGANIC CARBON	20200	MG/KG			
TRICHLOROETHYLENE (TCE)	240	UG/KG		6.0E+01	6.0E+01
VANADIUM	31.8	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	612	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-224
AUS-0A2R Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
1-METHYLNAPHTHALENE	2400	UG/KG		8.4E+04	7.2E+03
2-METHYLNAPHTHALENE	7200	UG/KG		8.4E+04	7.7E+03
ACENAPHTHYLENE	4500	UG/KG		8.4E+04	2.4E+04
ALUMINUM	10700	MG/KG	9071.00		
ANTHRACENE	340	UG/KG		1.2E+07	1.2E+07
ANTIMONY	1.1	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	12.8	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	337	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	1900	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	2600	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	3500	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	1400	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	1600	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	0.97	MG/KG	0.49	6.3E+01	2.2E+01
BORON	59.6	MG/KG	4.63		
CADMIUM	1.6	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	76400	MG/KG	2851.00		
CHROMIUM, TOTAL	19	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	3200	UG/KG		1.6E+05	1.6E+05
COBALT	29.5	MG/KG	9.33		
COPPER	156	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	320	UG/KG		2.0E+03	2.0E+03
FLUORANTHENE	3500	UG/KG		4.3E+06	4.3E+06
FLUORENE	110	UG/KG		5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	1700	UG/KG		1.4E+04	1.4E+04
IRON	33900	MG/KG	19568.00		
LEAD	101	MG/KG	25.74		
MAGNESIUM	36800	MG/KG	1834.25		
MANGANESE	747	MG/KG	2371.00		
MERCURY	0.055	MG/KG	0.28		8.9E-01
NAPHTHALENE	3600	UG/KG		8.4E+04	1.2E+04
NICKEL	30.7	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	1400	UG/KG		4.2E+06	2.2E+05
POTASSIUM	705	MG/KG	691.00		
PYRENE	3500	UG/KG		4.2E+06	4.2E+06
SELENIUM	0.49	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	0.73	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	543	MG/KG	85.00		
THALLIUM	0.76	MG/KG	0.51		2.6E+00
VANADIUM	34.5	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	634	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-225
AUS-0A4E Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
1-METHYLNAPHTHALENE	200	UG/KG		8.4E+04	7.2E+03
2-METHYLNAPHTHALENE	1900	UG/KG		8.4E+04	7.7E+03
ACENAPHTHYLENE	350	UG/KG		8.4E+04	2.4E+04
ALUMINUM	9340	MG/KG	9071.00		
ANTHRACENE	80	UG/KG		1.2E+07	1.2E+07
ANTIMONY	2.3	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	15.4	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	361	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	100	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	64	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	120	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	71	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	43	UG/KG		4.9E+04	4.9E+04
BIS(2-ETHYLHEXYL) PHTHALATE	1700	UG/KG			3.6E+06
BORON	14.1	MG/KG	4.63		
CADMIUM	3.5	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	180000	MG/KG	2851.00		
CHROMIUM, TOTAL	19.8	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	170	UG/KG		1.6E+05	1.6E+05
COBALT	14.5	MG/KG	9.33		
COPPER	816	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	10	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	620	UG/KG			1.5E+04
DIMETHYL PHTHALATE	290	UG/KG			3.8E+05
DI-N-BUTYL PHTHALATE	89	UG/KG		2.3E+06	2.3E+06
ETHYLBENZENE	1400	UG/KG		1.3E+04	1.3E+04
FLUORANTHENE	180	UG/KG		4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	36	UG/KG		1.4E+04	1.4E+04
IRON	22900	MG/KG	19568.00		
LEAD	223	MG/KG	25.74		
MAGNESIUM	114000	MG/KG	1834.25		
MANGANESE	879	MG/KG	2371.00		
MERCURY	0.24	MG/KG	0.28		8.9E-01
NAPHTHALENE	880	UG/KG		8.4E+04	1.2E+04
N-HEXANE	6600	UG/KG			
NICKEL	25.4	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	620	UG/KG		4.2E+06	2.2E+05
POTASSIUM	926	MG/KG	691.00		
PYRENE	200	UG/KG		4.2E+06	4.2E+06
SELENIUM	1.4	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	0.25	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	375	MG/KG	85.00		
THALLIUM	0.21	MG/KG	0.51		2.6E+00
TOLUENE	2	UG/KG		1.2E+04	1.2E+04
VANADIUM	29.5	MG/KG	31.10	6.0E+03	9.8E+02
XYLENES, TOTAL	830	UG/KG		2.1E+05	1.5E+05
ZINC	321	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-226
AUS-0A4W Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	3500	UG/KG		8.4E+04	7.7E+03
ACENAPHTHYLENE	67	UG/KG		8.4E+04	2.4E+04
ACETONE	35	UG/KG		1.6E+04	1.6E+04
ALUMINUM	16500	MG/KG	9071.00		
ANTHRACENE	65	UG/KG		1.2E+07	1.2E+07
ANTIMONY	4.5	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	60.1	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	214	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	130	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	97	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	63	UG/KG		5.0E+03	5.0E+03
BENZO(K)FLUORANTHENE	100	UG/KG		4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	46	UG/KG		9.3E+05	9.3E+05
BIS(2-ETHYLHEXYL) PHTHALATE	100	UG/KG			3.6E+06
BORON	34.2	MG/KG	4.63		
CADMIUM	4520	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	43600	MG/KG	2851.00		
CARBAZOLE	92	UG/KG		6.0E+02	6.0E+02
CHLOROFORM	2	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	298	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	170	UG/KG		1.6E+05	1.6E+05
COBALT	32.8	MG/KG	9.33		
COPPER	178	MG/KG	9.40		5.9E+04
DIBENZOFURAN	790	UG/KG			1.5E+04
FLUORANTHENE	120	UG/KG		4.3E+06	4.3E+06
HMX	3800	UG/KG			5.7E+03
IRON	27000	MG/KG	19568.00		
LEAD	275	MG/KG	25.74		
MAGNESIUM	21000	MG/KG	1834.25		
MANGANESE	2160	MG/KG	2371.00		
MERCURY	0.72	MG/KG	0.28		8.9E-01
NAPHTHALENE	1800	UG/KG		8.4E+04	1.2E+04
NICKEL	114	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	990	UG/KG		4.2E+06	2.2E+05
POTASSIUM	786	MG/KG	691.00		
PYRENE	320	UG/KG		4.2E+06	4.2E+06
SELENIUM	4	MG/KG	3.17	5.0E+00	6.3E+00
THALLIUM	1.2	MG/KG	0.51		2.6E+00
TOLUENE	3	UG/KG		1.2E+04	1.2E+04
TOTAL ORGANIC CARBON	16400	MG/KG			
VANADIUM	29.1	MG/KG	31.10	6.0E+03	9.8E+02
XYLENES, TOTAL	8	UG/KG		2.1E+05	1.5E+05
ZINC	780	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-227
AUS-0A06 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2,4,5-TRICHLOROPHENOL	40	UG/KG		2.7E+05	3.2E+05
2,4,6-TRICHLOROPHENOL	42	UG/KG		2.0E+02	2.0E+02
2-METHYLNAPHTHALENE	230	UG/KG		8.4E+04	7.7E+03
4-BROMOPHENYL PHENYL ETHER	42	UG/KG			
4-CHLORO-3-METHYLPHENOL	53	UG/KG			
4-CHLOROPHENYL PHENYL ETHER	37	UG/KG			
4-METHYLPHENOL (P-CRESOL)	71	UG/KG			2.4E+02
4-NITROPHENOL	59	UG/KG			
ACENAPHTHENE	430	UG/KG		5.7E+05	5.7E+05
ACENAPHTHYLENE	37	UG/KG		8.4E+04	2.4E+04
ALUMINUM	17300	MG/KG	9071.00		
ANTHRACENE	1000	UG/KG		1.2E+07	1.2E+07
ANTIMONY	0.41	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	11.5	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	123	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	8700	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	8400	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	10000	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	4100	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	7300	UG/KG		4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	73	UG/KG		9.3E+05	9.3E+05
BIS(2-CHLOROISOPROPYL) ETHER	54	UG/KG			2.4E+03
BIS(2-ETHYLHEXYL) PHTHALATE	6600	UG/KG			3.6E+06
BORON	6.5	MG/KG	4.63		
CADMIUM	0.53	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	348000	MG/KG	2851.00		
CARBAZOLE	660	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	18.1	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	11000	UG/KG		1.6E+05	1.6E+05
COBALT	6.2	MG/KG	9.33		
COPPER	32.4	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	2300	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	610	UG/KG			1.5E+04
DIETHYL PHTHALATE	50	UG/KG			4.7E+05
DIMETHYL PHTHALATE	40	UG/KG			3.8E+05
DI-N-BUTYL PHTHALATE	130	UG/KG		2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	120	UG/KG		1.0E+07	1.0E+07
FLUORANTHENE	12000	UG/KG		4.3E+06	4.3E+06
FLUORENE	480	UG/KG		5.6E+05	5.6E+05
HEXACHLOROBENZENE	39	UG/KG		2.0E+03	2.0E+03
INDENO(1,2,3-C,D)PYRENE	4200	UG/KG		1.4E+04	1.4E+04
IRON	24900	MG/KG	19568.00		
LEAD	48.8	MG/KG	25.74		
MAGNESIUM	93600	MG/KG	1834.25		
MANGANESE	918	MG/KG	2371.00		
MERCURY	0.48	MG/KG	0.28		8.9E-01
NAPHTHALENE	160	UG/KG		8.4E+04	1.2E+04
NICKEL	15.6	MG/KG	12.59	1.3E+02	1.0E+02
NITROBENZENE	550	UG/KG		1.0E+02	1.0E+02
N-NITROSODI-N-PROPYLAMINE	41	UG/KG		5.0E-02	5.0E-02
N-NITROSODIPHENYLAMINE	240	UG/KG		1.0E+03	1.0E+03
PENTACHLOROPHENOL	47	UG/KG		3.0E+01	4.0E+01
PHENANTHRENE	5000	UG/KG		4.2E+06	2.2E+05
PHENOL	57	UG/KG		1.0E+05	1.0E+05
POTASSIUM	2090	MG/KG	691.00		
PYRENE	11000	UG/KG		4.2E+06	4.2E+06
SELENIUM	1.5	MG/KG	3.17	5.0E+00	6.3E+00
THALLIUM	0.2	MG/KG	0.51		2.6E+00
TOTAL ORGANIC CARBON	38700	MG/KG			
VANADIUM	27.5	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	83.3	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-228
AUS-0A07 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG DAF=20	IEPA Class I (pH 6.25--6.64)
1,2-DICHLOROPROPANE	660	UG/KG		3.0E+01	3.0E+01
2-METHYLNAPHTHALENE	430	UG/KG		8.4E+04	7.7E+03
4,4'-DDD	12000	UG/KG		1.6E+04	1.6E+04
4,4'-DDE	4800	UG/KG		5.4E+04	5.4E+04
4,4'-DDT	100000	UG/KG		3.2E+04	3.2E+04
ACENAPHTHENE	320	UG/KG		5.7E+05	5.7E+05
ACENAPHTHYLENE	530	UG/KG		8.4E+04	2.4E+04
ACETONE	24	UG/KG		1.6E+04	1.6E+04
ALDRIN	1300000	UG/KG		5.0E+02	5.0E+02
ALPHA ENDOSULFAN	12	UG/KG		1.8E+04	1.8E+04
ALPHA-CHLORDANE	490	UG/KG		1.0E+04	1.0E+04
ALUMINUM	20200	MG/KG	9071.00		
ANTHRACENE	290	UG/KG		1.2E+07	1.2E+07
ANTIMONY	0.63	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	16.9	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	311	MG/KG	238.00	1.6E+03	1.5E+03
BENZENE	8	UG/KG		3.0E+01	3.0E+01
BENZO(A)ANTHRACENE	1300	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	2400	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	3200	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	1900	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	2800	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	1.9	MG/KG	0.49	6.3E+01	2.2E+01
BETA BHC (BETA HEXACHLOROCYCLOHEXANE	8.4	UG/KG		3.0E+00	
BETA ENDOSULFAN	18	UG/KG		1.8E+04	1.8E+04
BIS(2-ETHYLHEXYL) PHTHALATE	10000	UG/KG			3.6E+06
BORON	6.2	MG/KG	4.63		
CADMIUM	9	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	217000	MG/KG	2851.00		
CARBAZOLE	130	UG/KG		6.0E+02	6.0E+02
CHLOROBENZENE	48	UG/KG		1.0E+03	1.0E+03
CHROMIUM, TOTAL	25.6	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	2100	UG/KG		1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	2	UG/KG		4.0E+02	4.0E+02
COBALT	19.3	MG/KG	9.33		
COPPER	23.5	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	550	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	590	UG/KG			1.5E+04
DIELDRIN	290000	UG/KG		4.0E+00	4.0E+00
DIMETHYL PHTHALATE	170	UG/KG			3.8E+05
DI-N-BUTYL PHTHALATE	130	UG/KG		2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	3900	UG/KG		1.0E+07	1.0E+07
ENDOSULFAN SULFATE	44	UG/KG		1.8E+04	1.8E+04
ENDRIN	12000	UG/KG		1.0E+03	1.0E+03
ENDRIN ALDEHYDE	9000	UG/KG		1.0E+03	1.0E+03
ENDRIN KETONE	20000	UG/KG		1.0E+03	1.0E+03
ETHYLBENZENE	41	UG/KG		1.3E+04	1.3E+04
FLUORANTHENE	1200	UG/KG		4.3E+06	4.3E+06
FLUORENE	210	UG/KG		5.6E+05	5.6E+05
GAMMA BHC (LINDANE)	5.6	UG/KG		9.0E+00	9.0E+00
GAMMA-CHLORDANE	1600	UG/KG		1.0E+04	1.0E+04
HEPTACHLOR	69	UG/KG		2.3E+04	2.3E+04
HEPTACHLOR EPOXIDE	11	UG/KG		7.0E+02	7.0E+02
HEXACHLOROBENZENE	2700	UG/KG		2.0E+03	2.0E+03
INDENO(1,2,3-C,D)PYRENE	1200	UG/KG		1.4E+04	1.4E+04
IRON	34000	MG/KG	19568.00		
ISODRIN	60000	UG/KG			
LEAD	64.8	MG/KG	25.74		
MAGNESIUM	52300	MG/KG	1834.25		
MANGANESE	1370	MG/KG	2371.00		
MERCURY	0.053	MG/KG	0.28		8.9E-01

Table 5-228
AUS-0A07 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG DAF=20	IEPA Class I (pH 6.25--6.64)
METHOXYCHLOR	26	UG/KG		1.6E+05	1.6E+05
METHYL ETHYL KETONE (2-BUTANONE)	18	UG/KG			1.7E+04
METHYLENE CHLORIDE	5.7	UG/KG		2.0E+01	2.0E+01
NAPHTHALENE	330	UG/KG		8.4E+04	1.2E+04
NICKEL	42.2	MG/KG	12.59	1.3E+02	1.0E+02
PCB (total)	140	UG/KG			
PCB-1260 (AROCHLOR 1260)	140	UG/KG			
PHENANTHRENE	430	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1420	MG/KG	691.00		
PYRENE	2400	UG/KG		4.2E+06	4.2E+06
SELENIUM	0.78	MG/KG	3.17	5.0E+00	6.3E+00
SODIUM	1360	MG/KG	85.00		
STYRENE	28	UG/KG		4.0E+03	4.0E+03
TETRACHLOROETHYLENE(PCE)	48	UG/KG		6.0E+01	6.0E+01
THALLIUM	0.9	MG/KG	0.51		2.6E+00
TOLUENE	11	UG/KG		1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	2	UG/KG		4.0E+02	4.0E+02
Mammal TEQ	3.36214	NG/KG			
TRICHLOROETHYLENE (TCE)	25	UG/KG		6.0E+01	6.0E+01
VANADIUM	45.3	MG/KG	31.10	6.0E+03	9.8E+02
XYLENES, TOTAL	4500	UG/KG		2.1E+05	1.5E+05
ZINC	95.4	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-229
AUS-0A8S Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2,4-DINITROTOLUENE	1400	UG/KG		8.0E-01	8.0E-01
2,6-DINITROTOLUENE	100	UG/KG		7.0E-01	7.0E-01
ALUMINUM	10600	MG/KG	9071.00		
ANTIMONY	0.34	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	9.3	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	392	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	63	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	72	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	87	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	49	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	67	UG/KG		4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	290	UG/KG		9.3E+05	9.3E+05
BIS(2-ETHYLHEXYL) PHTHALATE	570	UG/KG			3.6E+06
BORON	5.1	MG/KG	4.63		
CADMIUM	1.2	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	45300	MG/KG	2851.00		
CHROMIUM, TOTAL	13.6	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	84	UG/KG		1.6E+05	1.6E+05
COBALT	20.4	MG/KG	9.33		
COPPER	33.2	MG/KG	9.40		5.9E+04
DI-N-BUTYL PHTHALATE	2200	UG/KG		2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	200	UG/KG		1.0E+07	1.0E+07
FLUORANTHENE	100	UG/KG		4.3E+06	4.3E+06
IRON	18600	MG/KG	19568.00		
LEAD	29.4	MG/KG	25.74		
MAGNESIUM	11500	MG/KG	1834.25		
MANGANESE	6940	MG/KG	2371.00		
NICKEL	13.3	MG/KG	12.59	1.3E+02	1.0E+02
NITROGEN, AMMONIA (AS N)	18	MG/KG			
NITROGEN, NITRATE-NITRITE	35	MG/KG			
N-NITROSODIPHENYLAMINE	280	UG/KG		1.0E+03	1.0E+03
PHENANTHRENE	46	UG/KG		4.2E+06	2.2E+05
POTASSIUM	771	MG/KG	691.00		
PYRENE	100	UG/KG		4.2E+06	4.2E+06
SELENIUM	3.8	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	1.9	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	633	MG/KG	85.00		
THALLIUM	1.9	MG/KG	0.51		2.6E+00
Mammal TEQ	0.31	NG/KG			
VANADIUM	27.7	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	175	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-230
AUS-0A09 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2,4-DINITROTOLUENE	2100	UG/KG		8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	52	UG/KG		8.4E+04	7.7E+03
ALUMINUM	14500	MG/KG	9071.00		
ANTIMONY	3.7	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	25.2	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	191	MG/KG	238.00	1.6E+03	1.5E+03
BENZYL BUTYL PHTHALATE	2000	UG/KG		9.3E+05	9.3E+05
BERYLLIUM	0.54	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	1600	UG/KG			3.6E+06
BORON	18.1	MG/KG	4.63		
CADMIUM	3.8	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	78000	MG/KG	2851.00		
CHROMIUM, TOTAL	54.1	MG/KG	13.77	3.8E+01	4.0E+01
COBALT	8.9	MG/KG	9.33		
COPPER	296	MG/KG	9.40		5.9E+04
DIBENZOFURAN	90	UG/KG			1.5E+04
DIMETHYL PHTHALATE	200	UG/KG			3.8E+05
DI-N-BUTYL PHTHALATE	92	UG/KG		2.3E+06	2.3E+06
IRON	19900	MG/KG	19568.00		
LEAD	103	MG/KG	25.74		
MAGNESIUM	23700	MG/KG	1834.25		
MANGANESE	2470	MG/KG	2371.00		
MERCURY	0.54	MG/KG	0.28		8.9E-01
NICKEL	14.5	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	93	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1150	MG/KG	691.00		
SELENIUM	2.2	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	59.4	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	96.3	MG/KG	85.00		
TOTAL ORGANIC CARBON	16700	MG/KG			
VANADIUM	32.8	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	1330	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-231
AUS-0A10 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	1400	UG/KG		8.4E+04	7.7E+03
ACENAPHTHENE	97	UG/KG		5.7E+05	5.7E+05
ALUMINUM	9210	MG/KG	9071.00		
ANTHRACENE	190	UG/KG		1.2E+07	1.2E+07
ARSENIC	8.4	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	14100	MG/KG	238.00	1.6E+03	1.5E+03
BIS(2-ETHYLHEXYL) PHTHALATE	680	UG/KG			3.6E+06
BORON	513	MG/KG	4.63		
CADMIUM	1.9	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	10200	MG/KG	2851.00		
CARBAZOLE	62	UG/KG		6.0E+02	6.0E+02
CHLOROFORM	2	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	31.4	MG/KG	13.77	3.8E+01	4.0E+01
COBALT	13.2	MG/KG	9.33		
COPPER	517	MG/KG	9.40		5.9E+04
DIBENZOFURAN	100	UG/KG			1.5E+04
FLUORANTHENE	75	UG/KG		4.3E+06	4.3E+06
FLUORENE	310	UG/KG		5.6E+05	5.6E+05
IRON	18900	MG/KG	19568.00		
LEAD	67	MG/KG	25.74		
MAGNESIUM	51900	MG/KG	1834.25		
MANGANESE	1110	MG/KG	2371.00		
MERCURY	0.21	MG/KG	0.28		8.9E-01
NAPHTHALENE	250	UG/KG		8.4E+04	1.2E+04
NICKEL	81	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	2700	UG/KG		4.2E+06	2.2E+05
POTASSIUM	722	MG/KG	691.00		
PYRENE	370	UG/KG		4.2E+06	4.2E+06
SELENIUM	1.7	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	39.5	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	1070	MG/KG	85.00		
TOLUENE	6	UG/KG		1.2E+04	1.2E+04
Mammal TEQ	0.025	NG/KG			
TRICHLOROETHYLENE (TCE)	230	UG/KG		6.0E+01	6.0E+01
VANADIUM	28.3	MG/KG	31.10	6.0E+03	9.8E+02
XYLENES, TOTAL	2	UG/KG		2.1E+05	1.5E+05
ZINC	362	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-232
AUS-A11A Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	670	UG/KG		8.4E+04	7.7E+03
ALUMINUM	14900	MG/KG	9071.00		
ANTIMONY	0.87	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	9.9	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	229	MG/KG	238.00	1.6E+03	1.5E+03
BERYLLIUM	0.43	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	74	UG/KG			3.6E+06
BORON	9.5	MG/KG	4.63		
CADMIUM	1.1	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	83200	MG/KG	2851.00		
CHROMIUM, TOTAL	79.2	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	66	UG/KG		1.6E+05	1.6E+05
COBALT	9.3	MG/KG	9.33		
COPPER	15.4	MG/KG	9.40		5.9E+04
DIBENZOFURAN	130	UG/KG			1.5E+04
DI-N-BUTYL PHTHALATE	310	UG/KG		2.3E+06	2.3E+06
FLUORANTHENE	76	UG/KG		4.3E+06	4.3E+06
IRON	23500	MG/KG	19568.00		
LEAD	57.2	MG/KG	25.74		
MAGNESIUM	12600	MG/KG	1834.25		
MANGANESE	1440	MG/KG	2371.00		
MERCURY	0.09	MG/KG	0.28		8.9E-01
NAPHTHALENE	420	UG/KG		8.4E+04	1.2E+04
NICKEL	19.1	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	170	UG/KG		4.2E+06	2.2E+05
POTASSIUM	826	MG/KG	691.00		
PYRENE	100	UG/KG		4.2E+06	4.2E+06
SELENIUM	1.8	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	0.41	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	881	MG/KG	85.00		
THALLIUM	0.31	MG/KG	0.51		2.6E+00
VANADIUM	29.6	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	362	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-233
AUS-A11H Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
1-METHYLNAPHTHALENE	73	UG/KG		8.4E+04	7.2E+03
2,4-DINITROTOLUENE	500	UG/KG		8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	400	UG/KG		8.4E+04	7.7E+03
4-CHLOROANILINE	1300	UG/KG		7.0E+02	7.0E+02
ACENAPHTHYLENE	63	UG/KG		8.4E+04	2.4E+04
ALUMINUM	16500	MG/KG	9071.00		
ANTHRACENE	41	UG/KG		1.2E+07	1.2E+07
ANTIMONY	6	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	14.6	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	445	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	350	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	380	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	540	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	300	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	520	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	0.91	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	2000	UG/KG			3.6E+06
BORON	8.9	MG/KG	4.63		
CADMIUM	204	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	324000	MG/KG	2851.00		
CHROMIUM, TOTAL	585	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	400	UG/KG		1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	24	UG/KG		4.0E+02	4.0E+02
COBALT	21	MG/KG	9.33		
COPPER	123	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	15	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	180	UG/KG			1.5E+04
DI-N-BUTYL PHTHALATE	2100	UG/KG		2.3E+06	2.3E+06
FLUORANTHENE	320	UG/KG		4.3E+06	4.3E+06
HMX	720	UG/KG			5.7E+03
INDENO(1,2,3-C,D)PYRENE	290	UG/KG		1.4E+04	1.4E+04
IRON	35000	MG/KG	19568.00		
LEAD	137	MG/KG	25.74		
MAGNESIUM	12500	MG/KG	1834.25		
MANGANESE	3450	MG/KG	2371.00		
MERCURY	2	MG/KG	0.28		8.9E-01
NAPHTHALENE	220	UG/KG		8.4E+04	1.2E+04
NICKEL	35.6	MG/KG	12.59	1.3E+02	1.0E+02
NITROGLYCERIN	16000	UG/KG			2.0E+01
N-NITROSODIPHENYLAMINE	330	UG/KG		1.0E+03	1.0E+03
PENTACHLOROPHENOL	130	UG/KG		3.0E+01	4.0E+01
PHENANTHRENE	170	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1050	MG/KG	691.00		
PYRENE	390	UG/KG		4.2E+06	4.2E+06
RDX	1300	UG/KG			3.6E+02
SELENIUM	1.9	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	53.5	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	411	MG/KG	85.00		
TETRACHLOROETHYLENE(PCE)	530	UG/KG		6.0E+01	6.0E+01
THALLIUM	0.9	MG/KG	0.51		2.6E+00
Mammal TEQ	0.11	NG/KG			
TOTAL 1,2-DICHLOROETHENE	25	UG/KG		4.0E+02	4.0E+02
TRICHLOROETHYLENE (TCE)	92	UG/KG		6.0E+01	6.0E+01
VANADIUM	41.1	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	374	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-234
AUS-A11N Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	300	UG/KG		8.4E+04	7.7E+03
ACETONE	23	UG/KG		1.6E+04	1.6E+04
ALUMINUM	14300	MG/KG	9,071.00		
ANTIMONY	0.5	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	10.1	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	199	MG/KG	238.00	1.6E+03	1.5E+03
BERYLLIUM	0.74	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	270	UG/KG			3.6E+06
BORON	3.7	MG/KG	4.63		
CADMIUM	0.93	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	15600	MG/KG	2,851.00		
CHROMIUM, TOTAL	17.7	MG/KG	13.77	3.8E+01	4.0E+01
COBALT	14.2	MG/KG	9.33		
COPPER	41.5	MG/KG	9.40		5.9E+04
DIBENZOFURAN	360	UG/KG			1.5E+04
IRON	24500	MG/KG	19,568.00		
LEAD	342	MG/KG	25.74		
MAGNESIUM	10400	MG/KG	1,834.25		
MANGANESE	1340	MG/KG	2,371.00		
MERCURY	0.14	MG/KG	0.28		8.9E-01
NAPHTHALENE	140	UG/KG		8.4E+04	1.2E+04
NICKEL	22.7	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	240	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1020	MG/KG	691.00		
SELENIUM	1.2	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	0.71	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	3330	MG/KG	85.00		
THALLIUM	0.24	MG/KG	0.51		2.6E+00
Mammal TEQ	0.22	MG/KG			
VANADIUM	31.1	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	52.6	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-235
AUS-A11P Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	170	UG/KG		8.4E+04	7.7E+03
ACENAPHTHYLENE	70	UG/KG		8.4E+04	2.4E+04
ALUMINUM	24200	MG/KG	9071.00		
ANTHRACENE	190	UG/KG		1.2E+07	1.2E+07
ANTIMONY	0.72	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	30.8	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	239	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	690	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	760	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	1600	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	550	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	1500	UG/KG		4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	1700	UG/KG		9.3E+05	9.3E+05
BERYLLIUM	0.86	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	4400	UG/KG			3.6E+06
BORON	7.7	MG/KG	4.63		
CADMIUM	1.3	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	136000	MG/KG	2851.00		
CARBAZOLE	160	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	29.5	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	1200	UG/KG		1.6E+05	1.6E+05
COBALT	13.2	MG/KG	9.33		
COPPER	70.5	MG/KG	9.40		5.9E+04
CYANIDE	0.26	MG/KG	0.56		4.0E+01
DIBENZ(A,H)ANTHRACENE	260	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	180	UG/KG			1.5E+04
DI-N-BUTYL PHTHALATE	270	UG/KG		2.3E+06	2.3E+06
FLUORANTHENE	1900	UG/KG		4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	510	UG/KG		1.4E+04	1.4E+04
IRON	43300	MG/KG	19568.00		
LEAD	89.7	MG/KG	25.74		
MAGNESIUM	79700	MG/KG	1834.25		
MANGANESE	1820	MG/KG	2371.00		
MERCURY	1.3	MG/KG	0.28		8.9E-01
NAPHTHALENE	84	UG/KG		8.4E+04	1.2E+04
NICKEL	23.1	MG/KG	12.59	1.3E+02	1.0E+02
PCB (total)	18	UG/KG			
PCB-1260 (AROCHLOR 1260)	18	UG/KG			
PHENANTHRENE	910	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1400	MG/KG	691.00		
PYRENE	2000	UG/KG		4.2E+06	4.2E+06
SELENIUM	1.5	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	0.82	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	108	MG/KG	85.00		
STYRENE	38	UG/KG		4.0E+03	4.0E+03
TETRACHLOROETHYLENE(PCE)	2	UG/KG		6.0E+01	6.0E+01
THALLIUM	0.71	MG/KG	0.51		2.6E+00
Mammal TEQ	0.96	MG/KG			
VANADIUM	51.2	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	858	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-236
AUS-A11S Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
1,1,2-TRICHLOROETHANE	53	UG/KG		2.0E+01	2.0E+01
1-METHYLNAPHTHALENE	1000	UG/KG		8.4E+04	7.2E+03
2,4-DINITROTOLUENE	74	UG/KG		8.0E-01	8.0E-01
2-METHYLNAPHTHALENE	11000	UG/KG		8.4E+04	7.7E+03
ACENAPHTHYLENE	500	UG/KG		8.4E+04	2.4E+04
ALUMINUM	20900	MG/KG	9071.00		
ANTHRACENE	340	UG/KG		1.2E+07	1.2E+07
ANTIMONY	2.6	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	27.4	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	513	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	820	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	1300	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	2100	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	1000	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	1900	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	2.8	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	1700	UG/KG			3.6E+06
BORON	41.9	MG/KG	4.63		
CADMIUM	26.8	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	234000	MG/KG	2851.00		
CARBAZOLE	200	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	28.7	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	1400	UG/KG		1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	1300	UG/KG		4.0E+02	4.0E+02
COBALT	110	MG/KG	9.33		
COPPER	39.5	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	430	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	3000	UG/KG			1.5E+04
DIMETHYL PHTHALATE	1300	UG/KG			3.8E+05
DI-N-BUTYL PHTHALATE	1600	UG/KG		2.3E+06	2.3E+06
ETHYLBENZENE	110	UG/KG		1.3E+04	1.3E+04
FLUORANTHENE	670	UG/KG		4.3E+06	4.3E+06
FLUORENE	70	UG/KG		5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	940	UG/KG		1.4E+04	1.4E+04
IRON	35900	MG/KG	19568.00		
LEAD	180	MG/KG	25.74		
MAGNESIUM	85700	MG/KG	1834.25		
MANGANESE	8930	MG/KG	2371.00		
MERCURY	5.1	MG/KG	0.28		8.9E-01
METHYL ETHYL KETONE (2-BUTANONE)	1100	UG/KG			1.7E+04
NAPHTHALENE	6200	UG/KG		8.4E+04	1.2E+04
NICKEL	151	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	4300	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1350	MG/KG	691.00		
PYRENE	1200	UG/KG		4.2E+06	4.2E+06
SELENIUM	5.2	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	1.4	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	243	MG/KG	85.00		
TETRACHLOROETHYLENE(PCE)	12	UG/KG		6.0E+01	6.0E+01
THALLIUM	2.9	MG/KG	0.51		2.6E+00
TOLUENE	98	UG/KG		1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	1300	UG/KG		4.0E+02	4.0E+02
TRANS-1,2-DICHLOROETHENE	9	UG/KG		7.0E+02	7.0E+02
TRICHLOROETHYLENE (TCE)	21000	UG/KG		6.0E+01	6.0E+01
VANADIUM	57.4	MG/KG	31.10	6.0E+03	9.8E+02
XYLENES, TOTAL	450	UG/KG		2.1E+05	1.5E+05
ZINC	685	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class II (pH 6.25-6.64)

Table 5-237
AUS-0A12 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
1-METHYLNAPHTHALENE	3900	UG/KG		8.4E+04	7.2E+03
2,3,4,6,7,8-HxCDF	1.09	NG/KG			
2,3,4,7,8-PeCDF	2.11	NG/KG			
2,4,6-TRINITROTOLUENE	1500	UG/KG			7.7E+01
2,4-DINITROTOLUENE	490	UG/KG		8.0E-01	8.0E-01
2,6-DINITROTOLUENE	92	UG/KG		7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	9100	UG/KG		8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	4600	UG/KG			3.1E+01
4-NITROTOLUENE	6100	UG/KG			9.2E+02
ACENAPHTHENE	1300	UG/KG		5.7E+05	5.7E+05
ACENAPHTHYLENE	2400	UG/KG		8.4E+04	2.4E+04
ACETONE	72	UG/KG		1.6E+04	1.6E+04
ALUMINUM	22900	MG/KG	9071.00		
ANTHRACENE	590	UG/KG		1.2E+07	1.2E+07
ANTIMONY	76.4	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	26.1	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	1430	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	1100	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	590	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	410	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	2600	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	480	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	1	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	9100	UG/KG			3.6E+06
BORON	66.8	MG/KG	4.63		
CADMIUM	15.2	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	75100	MG/KG	2851.00		
CARBAZOLE	350	UG/KG		6.0E+02	6.0E+02
CARBON TETRACHLORIDE	360	UG/KG		7.0E+01	7.0E+01
CHLOROFORM	260	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	4010	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	1800	UG/KG		1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	490	UG/KG		4.0E+02	4.0E+02
COBALT	30.9	MG/KG	9.33		
COPPER	846	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	88	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	2800	UG/KG			1.5E+04
DI-N-BUTYL PHTHALATE	1700	UG/KG		2.3E+06	2.3E+06
FLUORANTHENE	990	UG/KG		4.3E+06	4.3E+06
FLUORENE	270	UG/KG		5.6E+05	5.6E+05
HMX	39000	UG/KG			5.7E+03
INDENO(1,2,3-C,D)PYRENE	480	UG/KG		1.4E+04	1.4E+04
IRON	69000	MG/KG	19568.00		
LEAD	7270	MG/KG	25.74		
MAGNESIUM	27900	MG/KG	1834.25		
MANGANESE	20400	MG/KG	2371.00		
MERCURY	0.39	MG/KG	0.28		8.9E-01
METHYLENE CHLORIDE	34	UG/KG		2.0E+01	2.0E+01
NAPHTHALENE	3900	UG/KG		8.4E+04	1.2E+04
NICKEL	53.8	MG/KG	12.59	1.3E+02	1.0E+02
N-NITROSODIPHENYLAMINE	560	UG/KG		1.0E+03	1.0E+03
OCDD	523	NG/KG			
OCDF	101	NG/KG			
PCB (total)	49	UG/KG			
PCB-1254 (AROCHLOR 1254)	28	UG/KG			
PCB-1260 (AROCHLOR 1260)	21	UG/KG			
PENTACHLOROPHENOL	1500	UG/KG		3.0E+01	4.0E+01
PHENANTHRENE	4800	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1550	MG/KG	691.00		
PYRENE	1600	UG/KG		4.2E+06	4.2E+06
RDX	17000	UG/KG			3.6E+02

Table 5-237
AUS-0A12 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
SELENIUM	7.7	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	4	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	4430	MG/KG	85.00		
TETRACHLOROETHYLENE(PCE)	2200	UG/KG		6.0E+01	6.0E+01
THALLIUM	1.8	MG/KG	0.51		2.6E+00
TOLUENE	4	UG/KG		1.2E+04	1.2E+04
TOTAL 1,2-DICHLOROETHENE	6	UG/KG		4.0E+02	4.0E+02
Total HpCDDs	19.9	NG/KG			
Total HpCDFs	85.2	NG/KG			
Total HxCDDs	1.7	NG/KG			
Total HxCDFs	50.9	NG/KG			
TOTAL ORGANIC CARBON	40000	MG/KG			
Total PeCDDs	0.341	NG/KG			
Total PeCDFs	16	NG/KG			
Total TCDFs	7.48	NG/KG			
Mammal TEQ	5.20	NG/KG			
TRANS-1,2-DICHLOROETHENE	5	UG/KG		7.0E+02	7.0E+02
TRICHLOROETHYLENE (TCE)	51	UG/KG		6.0E+01	6.0E+01
VANADIUM	39.7	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	1970	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-238
AUS-0A13 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2,4-DINITROTOLUENE	64000	UG/KG		8.0E-01	8.0E-01
2,6-DINITROTOLUENE	2900	UG/KG		7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	130	UG/KG		8.4E+04	7.7E+03
4-CHLORO-3-METHYLPHENOL	160	UG/KG			
ACENAPHTHENE	580	UG/KG		5.7E+05	5.7E+05
ACENAPHTHYLENE	120	UG/KG		8.4E+04	2.4E+04
ALUMINUM	8170	MG/KG	9071.00		
ANTHRACENE	1600	UG/KG		1.2E+07	1.2E+07
ANTIMONY	1.6	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	9.9	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	245	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	5500	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	5300	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	6700	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	4300	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	5900	UG/KG		4.9E+04	4.9E+04
BENZYL BUTYL PHTHALATE	390	UG/KG		9.3E+05	9.3E+05
BIS(2-ETHYLHEXYL) PHTHALATE	11000	UG/KG			3.6E+06
BORON	5.8	MG/KG	4.63		
CADMIUM	0.54	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	359000	MG/KG	2851.00		
CARBAZOLE	960	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	155	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	7800	UG/KG		1.6E+05	1.6E+05
COBALT	18.2	MG/KG	9.33		
COPPER	117	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	1900	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	440	UG/KG			1.5E+04
DIMETHYL PHTHALATE	68	UG/KG			3.8E+05
DI-N-BUTYL PHTHALATE	230000	UG/KG		2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	85	UG/KG		1.0E+07	1.0E+07
FLUORANTHENE	11000	UG/KG		4.3E+06	4.3E+06
FLUORENE	550	UG/KG		5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	3800	UG/KG		1.4E+04	1.4E+04
IRON	25200	MG/KG	19568.00		
LEAD	73	MG/KG	25.74		
MAGNESIUM	42900	MG/KG	1834.25		
MANGANESE	1500	MG/KG	2371.00		
MERCURY	0.83	MG/KG	0.28		8.9E-01
NAPHTHALENE	110	UG/KG		8.4E+04	1.2E+04
NICKEL	18	MG/KG	12.59	1.3E+02	1.0E+02
NITROGLYCERIN	300000	UG/KG			2.0E+01
N-NITROSODIPHENYLAMINE	52000	UG/KG		1.0E+03	1.0E+03
PHENANTHRENE	7600	UG/KG		4.2E+06	2.2E+05
PHENOL	55	UG/KG		1.0E+05	1.0E+05
POTASSIUM	889	MG/KG	691.00		
PYRENE	9500	UG/KG		4.2E+06	4.2E+06
SELENIUM	4.2	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	0.55	MG/KG	0.69	3.4E+01	4.4E+00
THALLIUM	0.24	MG/KG	0.51		2.6E+00
TOTAL ORGANIC CARBON	35300	MG/KG			
VANADIUM	26.5	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	236	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-239
AUS-0062 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
ALUMINUM	28000	MG/KG	9071.00		
ANTIMONY	0.52	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	8.6	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	105	MG/KG	238.00	1.6E+03	1.5E+03
BERYLLIUM	0.71	MG/KG	0.49	6.3E+01	2.2E+01
BORON	1.6	MG/KG	4.63		
CADMIUM	0.78	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	2390	MG/KG	2851.00		
CHROMIUM, TOTAL	29.8	MG/KG	13.77	3.8E+01	4.0E+01
COBALT	10	MG/KG	9.33		
COPPER	15.6	MG/KG	9.40		5.9E+04
IRON	26100	MG/KG	19568.00		
LEAD	37.5	MG/KG	25.74		
MAGNESIUM	3230	MG/KG	1834.25		
MANGANESE	541	MG/KG	2371.00		
MERCURY	0.051	MG/KG	0.28		8.9E-01
NICKEL	24.1	MG/KG	12.59	1.3E+02	1.0E+02
POTASSIUM	1300	MG/KG	691.00		
SELENIUM	1.1	MG/KG	3.17	5.0E+00	6.3E+00
SODIUM	545	MG/KG	85.00		
THALLIUM	0.66	MG/KG	0.51		2.6E+00
TRICHLOROETHYLENE (TCE)	4	UG/KG		6.0E+01	6.0E+01
VANADIUM	43	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	56	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-240
AUS-0065 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2,4-DIMETHYLPHENOL	1100	UG/KG		9.0E+03	9.0E+03
2-METHYLNAPHTHALENE	3500	UG/KG		8.4E+04	7.7E+03
2-METHYLPHENOL (O-CRESOL)	760	UG/KG		1.5E+04	1.5E+04
4-METHYLPHENOL (P-CRESOL)	2600	UG/KG			2.4E+02
4-NITROTOLUENE	1700	UG/KG			9.2E+02
ACENAPHTHENE	850	UG/KG		5.7E+05	5.7E+05
ACENAPHTHYLENE	7200	UG/KG		8.4E+04	2.4E+04
ALUMINUM	12700	MG/KG	9071.00		
ANTHRACENE	5900	UG/KG		1.2E+07	1.2E+07
ANTIMONY	0.76	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	9.7	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	164	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	11000	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	12000	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	11000	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	12000	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	9200	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	0.86	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	1400	UG/KG			3.6E+06
BORON	11.7	MG/KG	4.63		
CADMIUM	1.3	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	106000	MG/KG	2851.00		
CARBAZOLE	5600	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	20.6	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	14000	UG/KG		1.6E+05	1.6E+05
COBALT	11.6	MG/KG	9.33		
COPPER	33.4	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	4700	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	3100	UG/KG			1.5E+04
FLUORANTHENE	21000	UG/KG		4.3E+06	4.3E+06
FLUORENE	5100	UG/KG		5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	9900	UG/KG		1.4E+04	1.4E+04
IRON	19300	MG/KG	19568.00		
LEAD	212	MG/KG	25.74		
MAGNESIUM	11100	MG/KG	1834.25		
MANGANESE	1140	MG/KG	2371.00		
MERCURY	0.48	MG/KG	0.28		8.9E-01
NAPHTHALENE	4700	UG/KG		8.4E+04	1.2E+04
NICKEL	14.1	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	27000	UG/KG		4.2E+06	2.2E+05
PHENOL	940	UG/KG		1.0E+05	1.0E+05
POTASSIUM	1340	MG/KG	691.00		
PYRENE	17000	UG/KG		4.2E+06	4.2E+06
SELENIUM	1.4	MG/KG	3.17	5.0E+00	6.3E+00
SODIUM	143	MG/KG	85.00		
TOTAL ORGANIC CARBON	27900	MG/KG			
VANADIUM	37.9	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	351	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-241
AUS-0066 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	84	UG/KG		8.4E+04	7.7E+03
ALUMINUM	14400	MG/KG	9071.00		
ARSENIC	6.9	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	132	MG/KG	238.00	1.6E+03	1.5E+03
BERYLLIUM	0.67	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	50	UG/KG			3.6E+06
CADMIUM	0.59	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	799	MG/KG	2851.00		
CHROMIUM, TOTAL	20.7	MG/KG	13.77	3.8E+01	4.0E+01
COBALT	22.8	MG/KG	9.33		
COPPER	11.3	MG/KG	9.40		5.9E+04
IRON	21800	MG/KG	19568.00		
LEAD	26.1	MG/KG	25.74		
MAGNESIUM	1970	MG/KG	1834.25		
MANGANESE	1700	MG/KG	2371.00		
MERCURY	0.038	MG/KG	0.28		8.9E-01
NICKEL	17.3	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	49	UG/KG		4.2E+06	2.2E+05
POTASSIUM	818	MG/KG	691.00		
SELENIUM	0.52	MG/KG	3.17	5.0E+00	6.3E+00
SODIUM	52.8	MG/KG	85.00		
THALLIUM	0.57	MG/KG	0.51		2.6E+00
VANADIUM	33.2	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	56.7	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-242
AUS-0067 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	950	UG/KG		8.4E+04	7.7E+03
ALUMINUM	17700	MG/KG	9071.00		
ANTHRACENE	66	UG/KG		1.2E+07	1.2E+07
ANTIMONY	0.76	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	14.2	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	274	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	200	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	130	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	180	UG/KG		5.0E+03	5.0E+03
BERYLLIUM	1	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	200	UG/KG			3.6E+06
BORON	7.2	MG/KG	4.63		
CADMIUM	1.5	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	2290	MG/KG	2851.00		
CARBAZOLE	57	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	22.2	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	210	UG/KG		1.6E+05	1.6E+05
COBALT	14	MG/KG	9.33		
COPPER	36.1	MG/KG	9.40		5.9E+04
DIBENZOFURAN	360	UG/KG			1.5E+04
FLUORANTHENE	240	UG/KG		4.3E+06	4.3E+06
IRON	35100	MG/KG	19568.00		
LEAD	227	MG/KG	25.74		
MAGNESIUM	2940	MG/KG	1834.25		
MANGANESE	1880	MG/KG	2371.00		
MERCURY	0.12	MG/KG	0.28		8.9E-01
NAPHTHALENE	360	UG/KG		8.4E+04	1.2E+04
NICKEL	22.9	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	770	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1630	MG/KG	691.00		
PYRENE	310	UG/KG		4.2E+06	4.2E+06
SELENIUM	0.89	MG/KG	3.17	5.0E+00	6.3E+00
SODIUM	76.2	MG/KG	85.00		
TETRYL	3100	UG/KG			
THALLIUM	0.49	MG/KG	0.51		2.6E+00
VANADIUM	41	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	355	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-243
AUS-0069 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2,4,6-TRINITROTOLUENE	680	UG/KG			7.7E+01
2-AMINO-4,6-DINITROTOLUENE	370	UG/KG			3.1E+01
2-METHYLNAPHTHALENE	72	UG/KG		8.4E+04	7.7E+03
4-AMINO-2,6-DINITROTOLUENE	250	UG/KG			3.1E+01
ALUMINUM	14800	MG/KG	9071.00		
ANTHRACENE	130	UG/KG		1.2E+07	1.2E+07
ANTIMONY	173	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	48.1	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	4940	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	1700	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	2200	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	2600	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	2000	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	1700	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	1.6	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	120	UG/KG			3.6E+06
BORON	84.2	MG/KG	4.63		
CADMIUM	28	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	51300	MG/KG	2851.00		
CARBAZOLE	77	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	266	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	1800	UG/KG		1.6E+05	1.6E+05
COBALT	28.6	MG/KG	9.33		
COPPER	7060	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	630	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	65	UG/KG			1.5E+04
DI-N-BUTYL PHTHALATE	720	UG/KG		2.3E+06	2.3E+06
FLUORANTHENE	2400	UG/KG		4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	1700	UG/KG		1.4E+04	1.4E+04
IRON	308000	MG/KG	19568.00		
LEAD	51000	MG/KG	25.74		
MAGNESIUM	13900	MG/KG	1834.25		
MANGANESE	1620	MG/KG	2371.00		
MERCURY	0.52	MG/KG	0.28		8.9E-01
NAPHTHALENE	160	UG/KG		8.4E+04	1.2E+04
NICKEL	130	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	440	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1580	MG/KG	691.00		
PYRENE	2200	UG/KG		4.2E+06	4.2E+06
SELENIUM	4.1	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	15.3	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	1080	MG/KG	85.00		
TETRACHLOROETHYLENE(PCE)	5	UG/KG		6.0E+01	6.0E+01
VANADIUM	89.5	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	16400	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-244
AUS-0001 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG DAF=20	IEPA Class I (pH 6.25-6.64)
ACENAPHTHYLENE	150	UG/KG		8.4E+04	2.4E+04
ALUMINUM	13200	MG/KG	9071.00		
ANTHRACENE	170	UG/KG		1.2E+07	1.2E+07
ANTIMONY	1.1	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	535	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	176	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	620	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	330	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	1700	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	360	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	450	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	0.85	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	280	UG/KG			3.6E+06
BORON	36.8	MG/KG	4.63		
CADMIUM	2.7	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	16400	MG/KG	2851.00		
CARBAZOLE	56	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	27	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	1500	UG/KG		1.6E+05	1.6E+05
COBALT	8.3	MG/KG	9.33		
COPPER	94	MG/KG	9.40		5.9E+04
DI-N-BUTYL PHTHALATE	86	UG/KG		2.3E+06	2.3E+06
FLUORANTHENE	2600	UG/KG		4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	480	UG/KG		1.4E+04	1.4E+04
IRON	24800	MG/KG	19568.00		
LEAD	1050	MG/KG	25.74		
MAGNESIUM	2270	MG/KG	1834.25		
MANGANESE	437	MG/KG	2371.00		
MERCURY	0.26	MG/KG	0.28		8.9E-01
NICKEL	21.2	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	1200	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1430	MG/KG	691.00		
PYRENE	1600	UG/KG		4.2E+06	4.2E+06
SELENIUM	12.9	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	3.4	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	406	MG/KG	85.00		
THALLIUM	2.4	MG/KG	0.51		2.6E+00
VANADIUM	55.7	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	1410	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-245
AUS-0002 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
ALUMINUM	12300	MG/KG	9071.00		
ANTIMONY	0.27	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	6.9	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	108	MG/KG	238.00	1.6E+03	1.5E+03
BERYLLIUM	0.41	MG/KG	0.49	6.3E+01	2.2E+01
BORON	1.4	MG/KG	4.63		
CADMIUM	2	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	6430	MG/KG	2851.00		
CHROMIUM, TOTAL	18.3	MG/KG	13.77	3.8E+01	4.0E+01
COBALT	9.9	MG/KG	9.33		
COPPER	12.1	MG/KG	9.40		5.9E+04
IRON	20700	MG/KG	19568.00		
LEAD	20.9	MG/KG	25.74		
MAGNESIUM	2500	MG/KG	1834.25		
MANGANESE	1660	MG/KG	2371.00		
MERCURY	0.091	MG/KG	0.28		8.9E-01
NICKEL	10.8	MG/KG	12.59	1.3E+02	1.0E+02
POTASSIUM	1080	MG/KG	691.00		
SILVER	0.89	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	142	MG/KG	85.00		
TOLUENE	2	UG/KG		1.2E+04	1.2E+04
VANADIUM	29.3	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	53.1	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-246
AUS-0018 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
ACETONE	40	UG/KG		1.6E+04	1.6E+04
ALUMINUM	16800	MG/KG	9071.00		
ANTIMONY	0.59	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	12.6	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	225	MG/KG	238.00	1.6E+03	1.5E+03
BERYLLIUM	0.79	MG/KG	0.49	6.3E+01	2.2E+01
BORON	0.84	MG/KG	4.63		
CADMIUM	0.82	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	9390	MG/KG	2851.00		
CHROMIUM, TOTAL	20.5	MG/KG	13.77	3.8E+01	4.0E+01
COBALT	13.5	MG/KG	9.33		
COPPER	17.3	MG/KG	9.40		5.9E+04
IRON	25800	MG/KG	19568.00		
LEAD	34.3	MG/KG	25.74		
MAGNESIUM	113000	MG/KG	1834.25		
MANGANESE	1210	MG/KG	2371.00		
MERCURY	0.09	MG/KG	0.28		8.9E-01
NICKEL	16.2	MG/KG	12.59	1.3E+02	1.0E+02
POTASSIUM	817	MG/KG	691.00		
SELENIUM	0.69	MG/KG	3.17	5.0E+00	6.3E+00
SODIUM	93.9	MG/KG	85.00		
THALLIUM	0.69	MG/KG	0.51		2.6E+00
VANADIUM	40.4	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	110	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-247
AUS-0043 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2,6-DINITROTOLUENE	950	UG/KG		7.0E-01	7.0E-01
2-METHYLNAPHTHALENE	46	UG/KG		8.4E+04	7.7E+03
ACENAPHTHYLENE	290	UG/KG		8.4E+04	2.4E+04
ALUMINUM	13800	MG/KG	9071.00		
ANTHRACENE	240	UG/KG		1.2E+07	1.2E+07
ANTIMONY	0.91	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	12.2	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	123	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	1200	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	1200	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	3000	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	1300	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	1000	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	0.53	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	370	UG/KG			3.6E+06
BORON	7.7	MG/KG	4.63		
CADMIUM	0.62	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	160000	MG/KG	2851.00		
CHROMIUM, TOTAL	19.4	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	1600	UG/KG		1.6E+05	1.6E+05
COBALT	7.1	MG/KG	9.33		
COPPER	18	MG/KG	9.40		5.9E+04
FLUORANTHENE	900	UG/KG		4.3E+06	4.3E+06
INDENO(1,2,3-C,D)PYRENE	1100	UG/KG		1.4E+04	1.4E+04
IRON	19400	MG/KG	19568.00		
LEAD	1110	MG/KG	25.74		
MAGNESIUM	97300	MG/KG	1834.25		
MANGANESE	413	MG/KG	2371.00		
MERCURY	0.063	MG/KG	0.28		8.9E-01
NICKEL	17.9	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	76	UG/KG		4.2E+06	2.2E+05
POTASSIUM	1070	MG/KG	691.00		
PYRENE	1900	UG/KG		4.2E+06	4.2E+06
SODIUM	189	MG/KG	85.00		
TETRYL	480	UG/KG			
VANADIUM	28.8	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	211	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-248
AUS-0060 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
ALUMINUM	15100	MG/KG	9071.00		
ANTIMONY	0.45	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	12.2	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	122	MG/KG	238.00	1.6E+03	1.5E+03
BERYLLIUM	0.66	MG/KG	0.49	6.3E+01	2.2E+01
BORON	3.1	MG/KG	4.63		
CALCIUM	1710	MG/KG	2851.00		
CHROMIUM, TOTAL	19.6	MG/KG	13.77	3.8E+01	4.0E+01
COBALT	8.5	MG/KG	9.33		
COPPER	12.1	MG/KG	9.40		5.9E+04
IRON	22600	MG/KG	19568.00		
LEAD	26.1	MG/KG	25.74		
MAGNESIUM	2490	MG/KG	1834.25		
MANGANESE	941	MG/KG	2371.00		
MERCURY	0.14	MG/KG	0.28		8.9E-01
NICKEL	13	MG/KG	12.59	1.3E+02	1.0E+02
POTASSIUM	806	MG/KG	691.00		
SELENIUM	2	MG/KG	3.17	5.0E+00	6.3E+00
SODIUM	46.9	MG/KG	85.00		
VANADIUM	43.6	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	53	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-249
AUS-0061 Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	70	UG/KG		8.4E+04	7.7E+03
ACENAPHTHYLENE	850	UG/KG		8.4E+04	2.4E+04
ALUMINUM	12800	MG/KG	9071.00		
ANTHRACENE	800	UG/KG		1.2E+07	1.2E+07
ANTIMONY	7.3	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	13.6	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	141	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	3000	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	3300	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	5400	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	2200	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	4500	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	0.95	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	1100	UG/KG			3.6E+06
BORON	34.9	MG/KG	4.63		
CADMIUM	90.9	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	10200	MG/KG	2851.00		
CARBAZOLE	460	UG/KG		6.0E+02	6.0E+02
CHROMIUM, TOTAL	23.9	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	4600	UG/KG		1.6E+05	1.6E+05
COBALT	7.8	MG/KG	9.33		
COPPER	69.9	MG/KG	9.40		5.9E+04
DIBENZ(A,H)ANTHRACENE	850	UG/KG		2.0E+03	2.0E+03
DIBENZOFURAN	84	UG/KG			1.5E+04
FLUORANTHENE	5300	UG/KG		4.3E+06	4.3E+06
FLUORENE	60	UG/KG		5.6E+05	5.6E+05
INDENO(1,2,3-C,D)PYRENE	2400	UG/KG		1.4E+04	1.4E+04
IRON	70400	MG/KG	19568.00		
LEAD	544	MG/KG	25.74		
MAGNESIUM	2010	MG/KG	1834.25		
MANGANESE	1640	MG/KG	2371.00		
MERCURY	1.1	MG/KG	0.28		8.9E-01
NAPHTHALENE	130	UG/KG		8.4E+04	1.2E+04
NICKEL	44.6	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	1400	UG/KG		4.2E+06	2.2E+05
POTASSIUM	911	MG/KG	691.00		
PYRENE	5400	UG/KG		4.2E+06	4.2E+06
SELENIUM	5.8	MG/KG	3.17	5.0E+00	6.3E+00
SODIUM	271	MG/KG	85.00		
THALLIUM	0.61	MG/KG	0.51		2.6E+00
VANADIUM	26.6	MG/KG	31.10	6.0E+03	9.8E+02
ZINC	893	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5-250
AUS-106A Soil Constituent Screening for Additional Investigation
Driven by Potential Soil Impact to Groundwater

Constituent	Soil Maximum	Units	Background	EPA STG (DAF=20)	IEPA Class I (pH 6.25-6.64)
2-METHYLNAPHTHALENE	820	UG/KG		8.4E+04	7.7E+03
ALUMINUM	51500	MG/KG	9071.00		
ANTIMONY	6.2	MG/KG	0.42	5.0E+00	5.0E+00
ARSENIC	22.6	MG/KG	13.25	2.9E+01	2.9E+01
BARIUM	1730	MG/KG	238.00	1.6E+03	1.5E+03
BENZO(A)ANTHRACENE	68	UG/KG		2.0E+03	2.0E+03
BENZO(A)PYRENE	66	UG/KG		8.0E+03	8.0E+03
BENZO(B)FLUORANTHENE	74	UG/KG		5.0E+03	5.0E+03
BENZO(G,H,I)PERYLENE	95	UG/KG			3.2E+07
BENZO(K)FLUORANTHENE	56	UG/KG		4.9E+04	4.9E+04
BERYLLIUM	0.97	MG/KG	0.49	6.3E+01	2.2E+01
BIS(2-ETHYLHEXYL) PHTHALATE	18000	UG/KG			3.6E+06
BORON	43.5	MG/KG	4.63		
CADMIUM	150	MG/KG	0.35	8.0E+00	5.2E+00
CALCIUM	39800	MG/KG	2851.00		
CHROMIUM, TOTAL	239	MG/KG	13.77	3.8E+01	4.0E+01
CHRYSENE	170	UG/KG		1.6E+05	1.6E+05
CIS-1,2-DICHLOROETHYLENE	24	UG/KG		4.0E+02	4.0E+02
COBALT	11.8	MG/KG	9.33		
COPPER	3300	MG/KG	9.40		5.9E+04
DIBENZOFURAN	140	UG/KG			1.5E+04
DIETHYL PHTHALATE	220	UG/KG			4.7E+05
DIMETHYL PHTHALATE	6100	UG/KG			3.8E+05
DI-N-BUTYL PHTHALATE	11000	UG/KG		2.3E+06	2.3E+06
DI-N-OCTYLPHTHALATE	72	UG/KG		1.0E+07	1.0E+07
ETHYLBENZENE	6	UG/KG		1.3E+04	1.3E+04
FLUORANTHENE	74	UG/KG		4.3E+06	4.3E+06
HMX	1500	UG/KG			5.7E+03
INDENO(1,2,3-C,D)PYRENE	61	UG/KG		1.4E+04	1.4E+04
IRON	95600	MG/KG	19568.00		
LEAD	2470	MG/KG	25.74		
MAGNESIUM	15500	MG/KG	1834.25		
MANGANESE	1490	MG/KG	2371.00		
MERCURY	1.1	MG/KG	0.28		8.9E-01
METHYL ETHYL KETONE (2-BUTANONE)	53	UG/KG			1.7E+04
NAPHTHALENE	590	UG/KG		8.4E+04	1.2E+04
NICKEL	370	MG/KG	12.59	1.3E+02	1.0E+02
PHENANTHRENE	320	UG/KG		4.2E+06	2.2E+05
POTASSIUM	2930	MG/KG	691.00		
PYRENE	140	UG/KG		4.2E+06	4.2E+06
SELENIUM	21.8	MG/KG	3.17	5.0E+00	6.3E+00
SILVER	5.3	MG/KG	0.69	3.4E+01	4.4E+00
SODIUM	2090	MG/KG	85.00		
STYRENE	200	UG/KG		4.0E+03	4.0E+03
TETRYL	1500	UG/KG			
TOTAL 1,2-DICHLOROETHENE	24	UG/KG		4.0E+02	4.0E+02
TRICHLOROETHYLENE (TCE)	13000	UG/KG		6.0E+01	6.0E+01
VANADIUM	49.1	MG/KG	31.10	6.0E+03	9.8E+02
XYLENES, TOTAL	440	UG/KG		2.1E+05	1.5E+05
ZINC	3160	MG/KG	41.20	1.2E+04	5.1E+03

Legend:
Maximum above EPA STG (DAF=20) and IEPA Class I (pH 6.25-6.64)

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2B	0A2B-001	AUS-0A2B-001-SD-0X	0-0.5 ft	Chromium, Total	15.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Proposed soil borings 0A2B-064, 0A2B-065, 0A2B-066, and 0A2B-067.
				Zinc	281	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2B-001-SD-01	1 ft										
	0A2B-002	AUS-0A2B-002-SS-0X	0-0.5 ft	Barium	1260	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	Proposed soil borings 0A2B-048, 0A2B-049, 0A2B-063, and 0A2B-064. Deeper boring 0A2B-083 proposed adjacent to 0A2B-002 to determine vertical extent of Chromium exceeding STG criteria.
				Boron	17.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium, Total	43	mg/kg	EW1	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A2B-002-SS-01	1 ft										
	0A2B-003	AUS-0A2B-003-SS-0X	0-0.5 ft	cPAHs	421.05	ug/kg	H			2.1E+02			
				Benzo(a)pyrene	280	ug/kg	H	3.3E+03	2.1E+02	8.0E+03	8.0E+03		Existing PA/SI 0A2B-016 and 0A2B-W01. Proposed soil borings 0A2B-050 and 0A2B-051.
		AUS-0A2B-003-SS-01	1 ft										
	0A2B-004	AUS-0A2B-004-SD-0X	0-0.5 ft	Antimony	55.9	mg/kg	EHW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	Proposed soil borings 0A2B-031, 0A2B-055, 0A2B-056, and 0A2B-057. Sample proposed monitoring well 0A2B-W08 to determine if constituents with soil to groundwater exceedances have impacted groundwater above regulatory standards. Proposed soil boring 0A2B-089 to verify cPAH exceedance.
				cPAHs	421.306	ug/kg	H			2.1E+02			
				Chromium, Total	44.3	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	36.6	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	28200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Lead	2000	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Mercury	0.99	mg/kg	EW2	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
		AUS-0A2B-004-SD-01	1 ft										
	0A2B-005	AUS-0A2B-005-SS-0X	0-0.5 ft	cPAHs	307.071	ug/kg	H			2.1E+02			Proposed soil borings 0A2B-049, 0A2B-059, and 0A2B-082. Proposed soil boring 0A2B-090 to verify cPAH exceedance.
				Chromium, Total	14.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A2B-005-SS-01	1 ft										
	0A2B-006	AUS-0A2B-006-SS-0X	0-0.5 ft										
		AUS-0A2B-006-SS-01	1 ft										
	0A2B-007	AUS-0A2B-007-SD-0X	0-0.5 ft										
		AUS-0A2B-007-SD-01	1 ft										
	0A2B-008	AUS-0A2B-008-SD-0X	0-0.5 ft	Arsenic	35.2	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2B-072, 0A2B-073, 0A2B-074, and 0A2B-079. Sample proposed monitoring well 0A2B-W09 to determine if constituents with soil to groundwater exceedances have impacted groundwater above regulatory standards.
				Barium	837	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Boron	7.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium, Total	14.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	25.6	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Iron	58800	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Selenium	4.1	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Vanadium	74.1	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
		AUS-0A2B-008-SD-01	1 ft										
	0A2B-009	AUS-0A2B-009-SS-0X	0-0.5 ft	Cyanide	2.5	mg/kg	E	5.6E-01	9.0E-01	1.2E+03		4.0E+01	Proposed soil borings 0A2B-044, 0A2B-060, 0A2B-061, and 0A2B-062
				Zinc	302	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2B-009-SS-01	1 ft	Tetrachloroethylene (PCE)	80	ug/kg	W1		1.3E+04	1.3E+03	6.0E+01	6.0E+01	Install and sample proposed monitoring well 0A2B-W06
	0A2B-010	AUS-0A2B-010-SS-0X	0-0.5 ft	Arsenic	17.5	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2B-035 and 0A2B-080. Proposed soil boring 0A2B-091 to verify cPAH exceedance.
				Chromium, Total	17.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				cPAHs	468.91	ug/kg	H			2.1E+02			
				Copper	41.1	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	24900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2B-010-SS-01	1 ft										
	0A2B-011	AUS-0A2B-011-SS-0X	0-0.5 ft	Cyanide	2.1	mg/kg	E	5.6E-01	9.0E-01	1.2E+03		4.0E+01	Existing PA/SI soil boring 0A2B-W02. Proposed soil borings 0A2B-043, 0A2B-070, and 0A2B-071.
		AUS-0A2B-011-SS-01	1 ft										
	0A2B-012	AUS-0A2B-012-SD-0X	0-0.5 ft	cPAHs	460.01	ug/kg	H			2.1E+02			Existing PA/SI soil sample 0A2B-020. Proposed soil boring 0A2B-073, 0A2B-074, and 0A2B-078. Proposed soil boring 0A2B-092 to verify cPAH exceedance.
				Cadmium	0.41	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
		AUS-0A2B-012-SD-01	1 ft										
	0A2B-013	AUS-0A2B-013-SS-0X	0-0.5 ft	Iron	21000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Iron concentrations at this location only slightly exceeds background, and no further sampling is proposed.
		AUS-0A2B-013-SS-01	1 ft										
	0A2B-014	AUS-0A2B-014-SD-0X	0-0.5 ft	Iron	19800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Iron concentrations at this location only slightly exceeds background, and no further sampling is proposed.
		AUS-0A2B-014-SD-01	1 ft										
	0A2B-015	AUS-0A2B-015-SD-0X	0-0.5 ft										
	0A2B-016	AUS-0A2B-016-SD-0X	0-0.5 ft	Chromium, Total	104	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil boring 0A2B-003. Proposed soil borings 0A2B-058 and 0A2B-059. Sample proposed monitoring well 0A2B-W10 to determine if constituents with soil to groundwater exceedances have impacted groundwater above regulatory standards.
		AUS-0A2B-016-SD-01	1 ft										
	0A2B-017	AUS-0A2B-017-SD-0X	0-0.5 ft	Chromium, Total	14.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Proposed soil borings 0A2B-045, 0A2B-046, and 0A2B-081. Proposed soil boring 0A2B-093 to verify cPAH exceedance.
				cPAHs	419.41	ug/kg	H			2.1E+02			
				Iron	21800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2B-017-SD-01	1 ft										
	0A2B-018	AUS-0A2B-018-SD-0X	0-0.5 ft	cPAHs	536.05	ug/kg	H			2.1E+02			Proposed soil boring 0A2B-094 to verify cPAH exceedance.
		AUS-0A2B-018-SD-01	1 ft										
	0A2B-019	AUS-0A2B-019-SD-0X	0-0.5 ft	cPAHs	603.067	ug/kg	H			2.1E+02			Proposed soil borings 0A2B-025, 0A2B-026, 0A2B-068, and 0A2B-069. Proposed soil boring 0A2B-0953 to verify cPAH exceedance.
				Zinc	258	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2B-019-SD-01	1 ft										

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2B (continued)	0A2B-020	AUS-0A2B-020-SD-0X	0-0.5 ft	cPAHs	515.959	ug/kg	H			2.1E+02			Proposed soil boring 0A2B-096 to verify cPAH exceedance.
		AUS-0A2B-020-SD-01	1 ft										
	0A2B-021	AUS-0A2B-021-SD-0X	0-0.5 ft	Arsenic	33.3	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2B-052, 0A2B-053, and 0A2B-054. Sample proposed monitoring well 0A2B-W05 to determine if constituents with soil to groundwater exceedances have impacted groundwater above regulatory standards.
				Boron	10.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	20	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	21.6	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Copper	1560	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Cyanide	1.6	mg/kg	E	5.6E-01	9.0E-01	1.2E+03		4.0E+01	
				Iron	21300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Manganese	6350	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
				Selenium	4.5	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Vanadium	48.7	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
				Zinc	465	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2B-021-SD-01	1 ft	Trichlorethylene (TCE)	150	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	Proposed soil borings 0A2B-052, 0A2B-053, and 0A2B-054. Sample proposed monitoring well 0A2B-W05 to determine if groundwater has been impacted with VOCs.
	0A2B-022	AUS-0A2B-022-SD-0X	0-0.5 ft	Zinc	243	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Proposed soil boring 0A2B-070.
		AUS-0A2B-022-SD-01	1 ft										
	0A2B-W01	AUS-0A2B-W01-SS-0X	0-0.5 ft	Boron	5.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil boring 0A2B-003. Proposed soil borings 0A2B-058, 0A2B-075, and 0A2B-076. Proposed soil boring 0A2B-097 to verify cPAH exceedance.
				cPAHs	354.28	ug/kg	H			2.1E+02			
				Chromium, Total	17.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	27700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2B-W01-SS-01	1 ft										
		AUS-0A2B-W01-SS-05	5 ft										
		AUS-0A2B-W01-SS-20	20 ft										
	0A2B-W02	AUS-0A2B-W02-SS-0X	0-0.5 ft	cPAHs	393.68	ug/kg	H			2.1E+02			Proposed soil boring 0A2B-098 to verify cPAH exceedance.
		AUS-0A2B-W02-SS-01	1 ft										
		AUS-0A2B-W02-SS-05	5 ft										
		AUS-0A2B-W02-SS-7.5	7.5 ft										
	0A2B-W03	AUS-0A2B-W03-SS-0X	0-0.5 ft	Cadmium	0.38	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A2B-035, 0A2B-036, and 0A2B-077.
		AUS-0A2B-W03-SS-01	1 ft										
		AUS-0A2B-W03-SS-05	5 ft										
		AUS-0A2B-W03-SS-10	10 ft										
AUS-0A2D	0A2D-001	AUS-0A2D-001-SS-0X	0-0.5 ft	Arsenic	22.8	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2D-080, 0A2D-081, 0A2D-082, and 0A2D-129.
				Benzo(a)pyrene	250	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	380.93	ug/kg	H			2.1E+02			
				Zinc	258	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-001-SS-01	1 ft										
	0A2D-002	AUS-0A2D-002-SS-0X	0-0.5 ft	Arsenic	120	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2D-083, 0A2D-084, 0A2D-085, and 0A2D-86. Sample proposed monitoring well 0A2D-W11 to determine if groundwater has been impacted by Arsenic.
				Benzo(a)pyrene	300	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	448.77	ug/kg	H			2.1E+02			
				Mammal TEQ	1.68	ng/kg	E		8.1E-01	1.6E+01			
				Bird TEQ	1.12	ng/kg	E		8.1E-01	1.6E+01			
		AUS-0A2D-002-SS-01	1 ft										
	0A2D-003	AUS-0A2D-003-SS-0X	0-0.5 ft	Arsenic	25.5	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2D-089, 0A2D-090, and 0A2D-091.
				Benzo(a)pyrene	260	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	576.35	ug/kg	H			2.1E+02			
				Bis(2-Ethylhexyl) Phthalate	11000	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	8.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	0.62	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
		AUS-0A2D-003-SS-01	1 ft										
	0A2D-004	AUS-0A2D-004-SS-0X	0-0.5 ft	Benzo(a)pyrene	480	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A2D-092, 0A2D-093, and 0A2D-094. EPF stated no quantitative evaluation of Benzyl Butyl Phthalate necessary.
				cPAHs	831.13	ug/kg	H			2.1E+02			
				Benzyl Butyl Phthalate	1500	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				Cadmium	0.71	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
		AUS-0A2D-004-SS-01	1 ft										
	0A2D-005	AUS-0A2D-005-SS-0X	0-0.5 ft	cPAHs	458.099	ug/kg	H			2.1E+02			Proposed soil boring 0A2D-152 to verify cPAH exceedance.
		AUS-0A2D-005-SS-01	1 ft										
		AUS-0A2D-006-SS-01	1 ft	Arsenic	17.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(a)pyrene	470	mg/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	841.4	ug/kg	H			2.1E+02			
				Benzyl Butyl Phthalate	480	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				Boron	57.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	2.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	194	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				HMX	6000	ug/kg	W2		2.5E+04	3.1E+06		5.7E+03	
				Naphthalene	2800	ug/kg	H		4.6E+04	1.8E+03	8.4E+04	1.2E+04	
				RDX	76000	ug/kg	HW2		1.0E+05	1.6E+04		3.6E+02	
				Zinc	173	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2D (continued)	0A2D-007	AUS-0A2D-007-SS-0X	0-0.5 ft	Aluminum	10100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A2D-006. Proposed soil borings 0A2D-061, 0A2D-095, and 0A2D-096. EPF stated no quantitative evaluation of Benzyl Butyl Phthalate necessary. Proposed soil boring 0A2D-153 to verify cPAH exceedance.
				Benzyl Butyl Phthalate	380	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				cPAHs	477.24	ug/kg	H			2.1E+02			
				Cadmium	0.37	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	45.4	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
		AUS-0A2D-007-SS-01	1 ft										
	0A2D-008	AUS-0A2D-008-SS-0X	0-0.5 ft	Aluminum	10100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil boringns 0A2D-135, 0A2D-136, and 0A2D-138. Proposed soil boring 0A2D-154 to verify cPAH exceedance.
				cPAHs	375.557	ug/kg	H			2.1E+02			
				Arsenic	14.5	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Chromium, Total	14.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A2D-008-SS-01	1 ft										
	0A2D-009	AUS-0A2D-009-SS-0X	0-0.5 ft	Arsenic	17.6	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil boringns 0A2D-097, 0A2D-135, and 0A2D-136.
				Benzo(a)pyrene	650	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	955.63	ug/kg	H			2.1E+02			
				Iron	22600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2D-009-SS-01	1 ft										
	0A2D-010	AUS-0A2D-010-SS-0X	0-0.5 ft	Benzyl Butyl Phthalate	250	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	Existing PA/SI soil sample 0A2D-W01. Proposed soil borings 0A2D-056 and 0A2D-128.
				cPAHs	529.1	ug/kg	H			2.1E+02			
				Boron	7.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	2.2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	32.1	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Zinc	422	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-010-SS-01	1 ft										
	0A2D-011	AUS-0A2D-011-SS-0X	0-0.5 ft	Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A2D-W03. Proposed soil borings 0A2D-056, 0A2D-108, and 0A2D-109.
				Copper	35.7	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Zinc	572	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-011-SS-01	1 ft										
	0A2D-012	AUS-0A2D-012-SS-0X	0-0.5 ft	Arsenic	14.8	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil sample 0A2D-W03. Proposed soil borings 0A2D-109, 0A2D-110, and 0A2D-111. Sample proposed monitoring well 0A2D-W07 to determine if Silver detected in soil samples above the STG criteria has impacted groundwater. Proposed soil boring 0A2D-077 to verify cPAH exceedance.
				Boron	5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	612.21	ug/kg	H			2.1E+02			
				Chromium, Total	33	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Silver	40.3	mg/kg	EW1W2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	491	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-012-SS-01	1 ft										
	0A2D-013	AUS-0A2D-013-SD-0X	0-0.5 ft	Silver	4	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	Proposed soil borings 0A2D-112, 0A2D-113, 0A2D-114, and 0A2D-115.
				Zinc	163	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-013-SD-01	1 ft										
	0A2D-014	AUS-0A2D-014-SD-0X	0-0.5 ft	cPAHs	419.92	ug/kg	H			2.1E+02			Proposed soil borings 0A2D-114 and 0A2D-140. Proposed sediment/surface water sample 0A02-023. Proposed soil boring 0A2D-079 to verify cPAH exceedance.
				Arsenic	16.6	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
		AUS-0A2D-014-SD-01	1 ft										
	0A2D-015	AUS-0A2D-015-SD-0X	0-0.5 ft	Arsenic	14.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Exising PA/SI soil sample 0A2D-016. Proposed soil boring 0A2D-141, 0A2D-142, and 0A2D-143.
				Chromium, Total	14.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A2D-015-SD-01	1 ft										
	0A2D-016	AUS-0A2D-016-SD-0X	0-0.5 ft	Cadmium	0.39	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A2D-015. Proposed soil sample 0A2D-143. Proposed soil boring 0A2D-155 to verify cPAH exceedance.
				cPAHs	373.29	ug/kg	H			2.1E+02			
				Zinc	131	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-016-SD-01	1 ft										
	0A2D-017	AUS-0A2D-017-SS-0X	0-0.5 ft	2,3,7,8 - TCDD	0.0511	ng/kg	EH		8.1E-07	1.6E-05			Proposed soil borings 0A2D-087, 0A2D-088, 0A2D-098, and 0A2D-099. Sample proposed monitoring well 0A2D-W12 to determine if groundwater has been impacted by Arsenic detected in soil sample exceeding STG criteria.
				Arsenic	48.9	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
		AUS-0A2D-017-SS-01	1 ft										
	0A2D-018	AUS-0A2D-018-SS-0X	0-0.5 ft	Mammal TEQ	1.75	ng/kg	E		8.1E-01	1.6E+01			Proposed soil borings 0A2D-144, 0A2D-145, 0A2D-146, and 0A2D-147.
				Bird TEQ	1.22	ng/kg	E		8.1E-01	1.6E+01			
		AUS-0A2D-018-SS-01	1 ft										
	0A2D-019	AUS-0A2D-019-SS-0X	0-0.5 ft										
		AUS-0A2D-019-SS-01	1 ft										
	0A2D-020	AUS-0A2D-020-SS-0X	0-0.5 ft										
		AUS-0A2D-020-SS-01	1 ft										
	0A2D-021	AUS-0A2D-021-SD-0X	0-0.5 ft	Benzo(a)pyrene	220	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Existing PA/SI 0A2D-W04. Proposed soil borings 0A2D-101, 0A2D-106, and 0A2D-134.
				cPAHs	556.42	ug/kg	H			2.1E+02			
				Boron	74.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
		AUS-0A2D-021-SD-01	1 ft										
	0A2D-022	AUS-0A2D-022-SS-0X	0-0.5 ft	Aluminum	19100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A2D-100, 0A2D-102, 0A2D-132, 0A2D-133, and 0A2D-134. Sample proposed monitoring well 0A2D-W10 to determine if constituents exceeding STG criteria in soil samples have impacted groundwater.
				Arsenic	30.3	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(a)anthracene	4800	ug/kg	EHW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	4800	ug/kg	EH		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	5200	ug/kg	EHW1W2		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				cPAHs	7219.5	ug/kg	H			2.1E+02			
				Bis(2-Ethylhexyl) Phthalate	1600	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	2460	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	2.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Carbazole	620	ug/kg	W1W2		1.3E+04	8.6E+04	6.0E+02	6.0E+02	
				Chromium, Total	26	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Chrysene	5500	ug/kg	E		4.7E+03	2.1E+05	1.6E+05	1.6E+05	
				Copper	377	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Dibenz(a,h)anthracene	1200	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Nitroglycerin	5300	ug/kg	W2			9.2E+04		2.0E+01	
				Zinc	543	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-022-SS-01	1 ft										
	0A2D-023	AUS-0A2D-023-SS-0X	0-0.5 ft	cPAHs	405.68	ug/kg	H			2.1E+02			Proposed soil boring 0A2D-156 to verify cPAH exceedance.
		AUS-0A2D-023-SS-01	1 ft										

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2D (continued)	0A2D-024	AUS-0A2D-024-SS-0X	0-0.5 ft	cPAHs	318.065	ug/kg	H			2.1E+02			EPF stated no quantitative evaluation of Benzyl Butyl Phthalate necessary. Proposed soil boring 0A2D-157 to verify cPAH exceedance.
				Benzyl Butyl Phthalate	620	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
		AUS-0A2D-024-SS-01	1 ft										
	0A2D-025	AUS-0A2D-025-SS-0X	0-0.5 ft	Benzyl Butyl Phthalate	5900	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	Existing PA/SI soil samples 0A2D-024 and 0A2D-034. Sample proposed monitoring well 0A2D-W08 to determine if constituents exceeding STG criteria in soil samples have impacted groundwater. Collect soil sample from 0A2D-W08 to verify cPAH exceedance.
				Boron	126	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	325.06	ug/kg	H			2.1E+02			
				Cadmium	0.95	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	51.8	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Pentachlorophenol	92	ug/kg	W1W2		1.2E+02	9.0E+03	3.0E+01	4.0E+01	
				Zinc	375	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-025-SS-01	1 ft										
	0A2D-026	AUS-0A2D-026-SS-0X	0-0.5 ft	cPAHs	344.88	ug/kg	H			2.1E+02			Proposed soil boring 0A2D-158 to verify cPAH exceedance.
	0A2D-026	AUS-0A2D-026-SS-01	1 ft										
	0A2D-027	AUS-0A2D-027-SS-0X	0-0.5 ft	Arsenic	34.9	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2D-103, 0A2D-104, and 0A2D-105.
				Boron	15	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	0.47	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	44.3	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Zinc	1060	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A2D-027	AUS-0A2D-027-SS-01	1 ft										
	0A2D-028	AUS-0A2D-028-SS-0X	0-0.5 ft	2,3,7,8 - TCDD	0.595	ng/kg	EH		8.1E-07	1.6E-05			Existing PA/SI soil sample 0A2D-035. Proposed soil borings 0A2D-116, 0A2D-117, 0A2D-118, and 0A2D-119. Sample proposed monitoring well 0A2D-W13 to determine if constituents exceeding STG criteria in soil samples have impacted groundwater.
				Aluminum	13600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Antimony	5.3	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Boron	326	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.9	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	48.3	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	937	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Mammal TEQ	27.9	ng/kg	EH		8.1E-01	1.6E+01			
				Bird TEQ	50.4	ng/kg	EH		8.1E-01	1.6E+01			
				Zinc	912	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-028-SS-01	1 ft										
	0A2D-029	AUS-0A2D-029-SD-0X	0-0.5 ft										
		AUS-0A2D-029-SD-01	1 ft										
	0A2D-030	AUS-0A2D-030-SD-0X	0-0.5 ft	Arsenic	14.3	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil sample 0A2D-042. Proposed soil samples 0A2D-130 and 0A2D-131.
				Benzo(a)pyrene	210	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Chromium, Total	14.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				cPAHs	619.56	ug/kg	H			2.1E+02			
				Iron	22000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	172	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-030-SD-01	1 ft										
	0A2D-031	AUS-0A2D-031-SS-0X	0-0.5 ft	cPAHs	352.7	ug/kg	H			2.1E+02			Proposed soil boring 0A2D-159 to verify cPAH exceedance.
		AUS-0A2D-031-SS-01	1 ft										
	0A2D-032	AUS-0A2D-032-SD-0X	0-0.5 ft										
		AUS-0A2D-032-SD-01	1 ft										
	0A2D-033	AUS-0A2D-033-SS-0X	0-0.5 ft	Benzo(a)anthracene	2700	ug/kg	HW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	Existing PA/SI soil sample 0A2D-021 and 0A2D-024. Proposed soil borings 0A2D-100, 0A2D-101, 0A2D-102, and 0A2D-134. Proposed soil boring 0A2D-150 for STG exceedance.
				Benzo(a)pyrene	3100	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	4200	ug/kg	EH		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				cPAHs	5018.2	ug/kg	H			2.1E+02			
				Boron	165	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	0.57	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Dibenz(a,h)anthracene	980	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
		AUS-0A2D-033-SS-01	1 ft										
	0A2D-034	AUS-0A2D-034-SS-0X	0-0.5 ft	Aluminum	11400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0A2D-025 and 0A2D-W06. Proposed soil boring 0A2D-148.
				Boron	9.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
		AUS-0A2D-034-SS-01	1 ft										
	0A2D-035	AUS-0A2D-035-SS-0X	0-0.5 ft	2,3,7,8 - TCDD	0.189	ng/kg	EH		8.1E-07	1.6E-05			Existing PA/SI soil sample 0A2D-028. Proposed soil borings 0A2D-116, 0A2D-117, 0A2D-118, and 0A2D-119.
				Boron	103	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium, Total	15.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	36.7	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Mamal TEQ	2.09	ng/kg	E		8.1E-01	1.6E+01			
				Bird TEQ	2.34	ng/kg	E		8.1E-01	1.6E+01			
				Zinc	269	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-035-SS-01	1 ft										
	0A2D-036	AUS-0A2D-036-SS-0X	0-0.5 ft	Chromium, Total	96.8	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Proposed soil borings 0A2D-116, 0A2D-120, 0A2D-121, and 0A2D-122. Sample monitoring well 0A2D-W09 to determine if chromium detected in soil samples has impacted groundwater.
		AUS-0A2D-036-SS-01	1 ft										
	0A2D-037	AUS-0A2D-037-SD-0X	0-0.5 ft	cPAHs	273.411	ug/kg	H			2.1E+02			Proposed soil boring 0A2D-160 to verify cPAH exceedance.
		AUS-0A2D-037-SD-01	1 ft										
	0A2D-038	AUS-0A2D-038-SD-0X	0-0.5 ft										
		AUS-0A2D-038-SD-01	1 ft										
	0A2D-039	AUS-0A2D-039-SD-0X	0-0.5 ft	Chromium, Total	32.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Proposed soil borings 0A2D-123, 0A2D-124, 0A2D-125, and 0A2D-126.
		AUS-0A2D-039-SD-01	1 ft										
	0A2D-040	AUS-0A2D-040-SD-0X	0-0.5 ft										
		AUS-0A2D-040-SD-01	1 ft										
	0A2D-041	AUS-0A2D-041-SD-0X	0-0.5 ft	Arsenic	15.5	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil samples 0A2D-029, 0A2D-042, and 0A2D-W05.
				Cadmium	0.51	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	13.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Vanadium	46.3	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
				Zinc	140	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2D-041-SD-01	1 ft										
	0A2D-042	AUS-0A2D-042-SD-0X	0-0.5 ft										
		AUS-0A2D-042-SD-01	1 ft										
	0A2D-043	AUS-A2D-043-SD-0X	0-0.5 ft										
		AUS-0A2D-043-SD-01	1 ft										

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-02AD (continued)	0A2D-045	AUS-0A2D-045-SS-0X	0-0.5 ft	Benzo(a)pyrene	220	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Existing PA/SI soil sample 0A2D-W03. Proposed soil borings 0A2D-059, 0A2D-107, and 0A2D-108.
				cPAHs	509.3	ug/kg	H			2.1E+02			
		AUS-0A2D-045-SS-01	1 ft										
	0A2D-W01	AUS-0A2D-W01-SS-0X	0-0.5 ft										
		AUS-0A2D-W01-SS-01	1 ft										
		AUS-0A2D-W01-SS-05	5 ft	Trichlorethylene (TCE)	120	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	TCE exceedances in soil samples will be investigated as part of groundwater investigation.
		AUS-0A2D-W01-SS-08	8 ft	Trichlorethylene (TCE)	73	ug/kg	W1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	TCE exceedances in soil samples will be investigated as part of groundwater investigation.
	0A2D-W02	AUS-0A2D-W02-SS-0X	0-0.5 ft	Aluminum	11800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI 0A2D-009. Proposed soil borings 0A2D-097, 0A2D-127, and 0A2D-128. Proposed soil boring 0A2D-161 to verify cPAH exceedance.
				cPAHs	299.242	ug/kg	H			2.1E+02			
				Chromium, Total	14.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Silver	4	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
		AUS-0A2D-W02-SS-01	1 ft										
		AUS-0A2D-W02-SS-05	5 ft										
		AUS-0A2D-W02-SS-12	12 ft										
	0A2D-W03	AUS-0A2D-W03-SS-0X	0-0.5 ft										
		AUS-0A2D-W03-SS-05	5 ft										
		AUS-0A2D-W03-SS-10	10 ft	Tetrachloroethylene (PCE)	810	ug/kg	W1W2		1.3E+04	1.3E+03	6.0E+01	6.0E+01	TCE exceedances in soil samples will be investigated as part of groundwater investigation.
				Trichlorethylene (TCE)	920	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
	0A2D-W04	AUS-0A2D-W04-SS-0X	0-0.5 ft										
		AUS-0A2D-W04-SS-01	1 ft										
		AUS-0A2D-W04-SS-06	6 ft										
		AUS-0A2D-W04-SS-16	16 ft										
	0A2D-W05	AUS-0A2D-W05-SS-0X	0-0.5 ft										
		AUS-0A2D-W05-SS-01	1 ft										
		AUS-0A2D-W05-SS-05	5 ft										
		AUS-0A2D-W05-SS-10	10 ft										
	0A2D-W06	AUS-0A2D-W06-SS-0X	0-0.5 ft										
		AUS-0A2D-W06-SS-01	1 ft										
		AUS-0A2D-W06-SS-05	5 ft										
		AUS-0A2D-W06-SS-15	15 ft										
AUS-0A2F	0A2F-001	AUS-0A2F-001-SS-0X	0-0.5 ft	Cadmium	0.53	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+01	Proposed soil borings 0A2F-053 and 0A2F-055.
				Chromium, Total	14.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01		
		AUS-0A2F-001-SS-01	1 ft										
	0A2F-002	AUS-0A2F-002-SS-0X	0-0.5 ft	4-Methylphenol (P-Cresol)	870	ug/kg	W2		1.6E+05	3.1E+05		2.4E+02	Proposed soil boring 0A2F-064 to verify cPAH and 2-Methylphenol exceedances.
				cPAHs	301.117	ug/kg	H			2.1E+02			
		AUS-0A2F-002-SS-01	1 ft										
	0A2F-003	AUS-0A2F-003-SS-0X	0-0.5 ft	Boron	6.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil sample 0A2F-W02. Proposed soil borings 0A2F-043 and 0A2F-051.
				Cadmium	0.97	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+01	
		AUS-0A2F-003-SS-01	1 ft										
	0A2F-004	AUS-0A2F-004-SS-0X	0-0.5 ft	Aluminum	9500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A2F-045, 0A2F-046, and 0A2F-047.
				Arsenic	15.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	1.1E+02	
				Boron	14.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	0.77	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+01	
				Chromium, Total	20.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01		
				Copper	57.1	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	29200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2F-004-SS-01	1 ft										
	0A2F-005	AUS-0A2F-005-SS-0X	0-0.5 ft	Boron	7.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil sample 0A2F-006. Proposed soil boring 0A2F-042 and sediment/surface water sample 0A02-030.
				Iron	39600	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2F-005-SS-01	1 ft										
	0A2F-006	AUS-0A2F-006-SD-0X	0-0.5 ft	Boron	4.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil sample 0A2F-005. Proposed soil borings 0A2F-040.
				Iron	23000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2F-006-SD-01	1 ft										
	0A2F-007	AUS-0A2F-007-SD-0X	0-0.5 ft										
	0A2F-008	AUS-0A2F-008-SD-0X	0-0.5 ft										
	0A2F-009	AUS-0A2F-009-SD-0X	0-0.5 ft	Boron	5.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil boringns 0A2F-048, 0A2F-049, and 0A2F-050.
				Cadmium	1.8	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+01	
				Chromium, Total	18.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01		
				Iron	19900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	231	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	1.0E+04	
		AUS-0A2F-009-SD-01	1 ft										
	0A2F-010	AUS-0A2F-010-SD-0X	0-0.5 ft	Cadmium	0.4	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+01	Proposed soil boringns 0A2F-048, 0A2F-050, and 0A2F-056.
				Zinc	178	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	1.0E+04	
		AUS-0A2F-010-SD-01	1 ft										
	0A2F-011	AUS-0A2F-011-SD-0X	0-0.5 ft	Aluminum	13400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A2F-012. Proposed soil borings 0A2F-015 and 0A2F-057.
				Chromium, Total	18.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01		
				Iron	21000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2F-011-SD-02	2 ft										
	0A2F-012	AUS-0A2F-012-SD-0X	0-0.5 ft	Aluminum	11600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A2F-011. Proposed soil borings 0A2F-058 and 0A2F-059.
				Chromium, Total	16.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01		
		AUS-0A2F-012-SD-02	2 ft										
	0A2F-013	AUS-0A2F-013-SD-03	3 ft	Aluminum	15800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 3 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium, Total	18.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01		
				Iron	21300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2F (continued)	0A2F-W01	AUS-0A2F-W01-SS-0X	0-0.5 ft	Chromium, Total	15.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01		Proposed soil borings 0A2F-041 and 0A2F-060.
		AUS-0A2F-W01-SS-01	1 ft										
		AUS-0A2F-W01-SS-05	5 ft										
		AUS-0A2F-W01-SS-10	10 ft										
	0A2F-W02	AUS-0A2F-W02-SS-0X	0-0.5 ft										
		AUS-0A2F-W02-SS-01	1 ft										
		AUS-0A2F-W02-SS-05	5 ft										
		AUS-0A2F-W02-SS-15	15 ft	Trichlorethylene (TCE)	96	ug/kg	W1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	TCE exceedances in soil samples will be investigated as part of groundwater investigation.
	0A2F-W03	AUS-0A2F-W03-SS-0X	0-0.5 ft	Boron	9.1		E	4.6E+00	5.0E-01	1.8E+04			Proposed soil boringns 0A2F-029, 0A2F-032, and 0A2F-061.
				Cadmium	0.73		E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+01	
				Chromium, Total	15.9		E						
				Iron	28200		E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2F-W03-SS-01	1 ft										
		AUS-0A2F-W03-SS-05	5 ft										
		AUS-0A2F-W03-SS-15	15 ft										
AUS-0A2P	0A2P-001	AUS-0A2P-001-SD-0X	0-0.5 ft	Aluminum	11700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A2P-003. Proposed soil boring 0A2P-089.
				Arsenic	13.9	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Chromium, Total	15.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	25200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2P-001-SD-01	1 ft										
	0A2P-002	AUS-0A2P-002-SD-0X	0-0.5 ft	Zinc	192	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Existing PA/SI soil samples 0A2P-003 and 0A2P-W01. Proposed soil boring locations 0A2P-039 and 0A2P-048.
		AUS-0A2P-002-SD-01	1 ft										
	0A2P-003	AUS-0A2P-003-SS-0X	0-0.5 ft										
		AUS-0A2P-003-SS-01	1 ft										
	0A2P-004	AUS-0A2P-004-SD-0X	0-0.5 ft	Arsenic	21.4	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2P-048, 0A2P-049, and 0A2P-050.
		AUS-0A2P-004-SD-01	1 ft										
	0A2P-005	AUS-0A2P-005-SD-0X	0-0.5 ft										
		AUS-0A2P-005-SD-01	1 ft										
	0A2P-006	AUS-0A2P-006-SD-0X	0-0.5 ft	Aluminum	11800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A2P-073, 0A2P-074, and 0A2P-076.
				Arsenic	18	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Chromium, Total	15.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	25700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Silver	29.3	mg/kg	EW2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
		AUS-0A2P-006-SD-01	1 ft										
	0A2P-007	AUS-0A2P-007-SD-0X	0-0.5 ft	Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A2P-031, 0A2P-077, and 0A2P-078.
				Chromium, Total	28.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Zinc	122	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2P-007-SD-01	1 ft										
	0A2P-008	AUS-0A2P-008-SD-0X	0-0.5 ft	Arsenic	26.1	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil samples 0A2P-015 and 0A2P-W04. Proposed soil borings 0A2P-081, 0A2P-082, and 0A2P-088.
				Benzyl Butyl Phthalate	6300	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
		AUS-0A2P-008-SD-01	1 ft										
	0A2P-009	AUS-0A2P-009-SD-0X	0-0.5 ft										
		AUS-0A2P-009-SD-01	1 ft										
	0A2P-010	AUS-0A2P-010-SD-0X	0-0.5 ft	Arsenic	87.5	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2P-034, 0A2P-066, 0A2P-067, and 0A2P-068. Sample groundwater from monitoring well 0A2P-W07 to determine if Arsenic has impacted groundwater.
	0A2P-011	AUS-0A2P-011-SD-0X	0-0.5 ft	Arsenic	15.7	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2P-079, 0A2P-080, and 0A2P-081. Proposed soil boring 0A2P-090 to verify cPAH exceedance.
				cPAHs	554.463	ug/kg	H			2.1E+02			
				Cadmium	0.96	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	14.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	186	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	21600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Silver	20.6	mg/kg	EW2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	612	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2P-011-SD-01	1 ft										
	0A2P-012	AUS-0A2P-012-SD-0X	0-0.5 ft	Aluminum	9530	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A2P-051, 0A2P-052, 0A2P-053, and 0A29-086.
				Arsenic	32	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Chromium, Total	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Silver	22.9	mg/kg	EW2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
		AUS-0A2P-012-SD-01	1 ft										
	0A2P-013	AUS-0A2P-013-SS-0X	0-0.5 ft										
		AUS-0A2P-013-SS-01	1 ft										
	0A2P-014	AUS-0A2P-014-SD-0X	0-0.5 ft	Arsenic	75.9	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2P-069, 0A2P-070, and 0A2P-071.
				Copper	32.1	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Silver	2.2	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	213	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2P-014-SD-01	1 ft										
	0A2P-015	AUS-0A2P-015-SD-0X	0-0.5 ft	Benzo(a)pyrene	280	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Existing PA/SI soil sample 0A2P-011. Proposed soil borings 0A2P-080, 0A2P-081, and 0A2P-082.
				cPAHs	554.65	ug/kg	H			2.1E+02			
		AUS-0A2P-015-SD-01	1 ft										
	0A2P-016	AUS-0A2P-016-SD-0X	0-0.5 ft										
		AUS-0A2P-016-SD-01	1 ft										

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2P (continued)	0A2P-017	AUS-0A2P-017-SD-0X	0-0.5 ft	Aluminum	10100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A2P-W06. Proposed soil borings 0A2P-054, 0A2P-055, 0A2P-056, and 0A29-087.
				Benzo(a)pyrene	480	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	747.53	ug/kg	H			2.1E+02			
				Chromium, Total	15.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	36.8	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Zinc	124	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2P-017-SD-01	1 ft										
	0A2P-018	AUS-0A2P-018-SD-0X	0-0.5 ft	Silver	3.1	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	Proposed soil borings 0A2P-055, 0A2P-057, 0A2P-058, 0A29-061, and 0A2P-087.
		AUS-0A2P-018-SD-01	1 ft										
	0A2P-019	AUS-0A2P-019-SD-0X	0-0.5 ft	Arsenic	19.7	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2P-058, 0A2P-059, and 0A2P-060.
				Benzo(a)pyrene	390	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	749.5	ug/kg	H			2.1E+02			
				Benzyl Butyl Phthalate	250	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				Iron	20300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Selenium	3.7	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Silver	3.5	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
	0A2P-020	AUS-0A2P-020-SD-0X	0-0.5 ft										
	0A2P-021	AUS-0A2P-021-SD-0X	0-0.5 ft	Acenaphthylene	3700	ug/kg	H		8.3E+03	1.8E+03	8.4E+04	1.2E+04	Proposed soil borings 0A2P-041, 0A2P-042, 0A2P-043, and 0A29-044.
				Aluminum	12000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Chromium, Total	15.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A2P-021-SD-02	2 ft										
	0A2P-022	AUS-0A2P-022-SD-0X	0-0.5 ft	Arsenic	23.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2P-041, 0A2P-045, 0A2P-046, and 0A29-047.
				Boron	7.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
		AUS-0A2P-022-SD-02	2 ft										
	0A2P-023	AUS-0A2P-023-SD-0X	0-0.5 ft	Cadmium	0.72	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A2P-062, 0A2P-063, 0A2P-064, and 0A29-065.
		AUS-0A2P-023-SD-02	2 ft										
	0A2P-W01	AUS-0A2P-W01-SD-0X	0-0.5 ft										
		AUS-0A2P-W01-SD-01	1 ft										
		AUS-0A2P-W01-SD-05	5 ft										
		AUS-0A2P-W01-SD-17	17 ft										
	0A2P-W02	AUS-0A2P-W02-SS-0X	0-0.5 ft	Silver	237	mg/kg	EW1W2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	Proposed soil borings 0A2P-074 and 0A2P-075.
		AUS-0A2P-W02-SS-01	1 ft										
		AUS-0A2P-W02-SS-05	5 ft										
		AUS-0A2P-W02-SS-15	15 ft										
	0A2P-W03	AUS-0A2P-W03-SD-0X	0-0.5 ft	Arsenic	13.7	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A2P-081, 0A2P-084, and 0A2P-085.
		AUS-0A2P-W03-SD-01	1 ft										
		AUS-0A2P-W03-SD-05	5 ft	Tricholoethylene (TCE)	190	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	TCE exceedances in soil samples will be investigated as part of groundwater investigation.
		AUS-0A2P-W03-SD-18	18 ft	Tricholoethylene (TCE)	240	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	TCE exceedances in soil samples will be investigated as part of groundwater investigation.
	0A2P-W04	AUS-0A2P-W04-SS-0X	0-0.5 ft	cPAHs	447.6	ug/kg	H			2.1E+02			Proposed soil boring 0A2P-091.
				Benzyl Butyl Phthalate	840	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
		AUS-0A2P-W04-SS-01	1 ft										
		AUS-0A2P-W04-SS-05	5 ft										
		AUS-0A2P-W04-SS-20	20 ft										
	0A2P-W05	AUS-0A2P-W05-SS-1.5	1.5 ft	Chromium, Total	16.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil sample 0A2P-013. Proposed soil borings 0A2P-037 and 0A2P-071.
				Iron	20700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A2P-W05-SS-02	2 ft										
		AUS-0A2P-W05-SS-05	5 ft										
		AUS-0A2P-W05-SS-16	16 ft										
	0A2P-W06	AUS-0A2P-W06-SD-0X	0-0.5 ft	Arsenic	18.4	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil boring 0A2P-017. Proposed soil borings 0A2P-054, 0A2P-056, and 0A2P-072.
				Benzyl Butyl Phthalate	430	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				Cadmium	1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Mercury	0.32	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Zinc	162	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A2P-W06-SD-01	1 ft										
		AUS-0A2P-W06-SD-05	5 ft										
		AUS-0A2P-W06-SD-10	10 ft										
AUS-0A2R	0A2R-001	AUS-0A2R-001-SS-05	5 ft	Cadmium	0.71	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium, Total	15.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Nickel	30.7	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
	0A2R-001	AUS-0A2R-001-SS-10	10 ft	Cadmium	0.62	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Sample collected at depth of 10 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Cobalt	29.5	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Iron	21400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A2R-002	AUS-0A2R-002-SS-0X	0-0.5 ft	Benzo(a)pyrene	460	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil boring locations 0A2R-008, 0A2R-009, 0A2R-022, and 0A2R-023.
				Boron	10.4	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	660.7	ug/kg	H			2.1E+02			
				Cadmium	0.8	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	17.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	83.2	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	33800	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Zinc	150	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2R (continued)	0A2R-003	AUS-0A2R-003-SS-0X	0-0.5 ft	Boron	59.6	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.6	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil boring locations 0A2R-009, 0A2R-012, 0A2R-021, 0A2R-025, and 0A2R-026.
				Chromium, Total	15.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	33900	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Zinc	634	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A2R-004	AUS-0A2R-004-SS-0X	0-0.5 ft	Acenaphthylene	4500	ug/kg	H		8.3E+03	1.8E+03	8.4E+04	1.2E+04	Proposed soil boring locations 0A2R-007, 0A2R-019, 0A2R-022, 0A2R-024, and 0A02-033.
				Benzo(a)pyrene	2600	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	3500	ug/kg	EH		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				cPAHs	3649.2	ug/kg	H			2.1E+02			
				Boron	13.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	19	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	156	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Dibenz(a,h)anthracene	320	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Iron	24700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Naphthalene	3600	ug/kg	H		4.6E+04	1.8E+03	8.4E+04	1.2E+04	
				Zinc	583	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A2R-005	AUS-0A2R-005-SS-0X	0-0.5 ft	Aluminum	10700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil boring locations 0A2R-010, 0A2R-018, 0A2R-020, and 0A2R-021.
				Benzo(a)pyrene	1200	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	1800	ug/kg	E		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				cPAHs	1794.4	ug/kg	H			2.1E+02			
				Cadmium	0.74	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	15.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
AUS-0A4E	0A4E-001	AUS-0A4E-001-SS-0X	0-0.5 ft										
		AUS-0A4E-001-SS-02	2 ft										
	0A4E-002	AUS-0A4E-002-SS-0X	0-0.5 ft	Cadmium	1.9	mg/kg	E		9.3E+02	1.2E+05		3.6E+06	Existing PA/SI soil sample 0A4E-W01. Proposed soil borings 0A4E-023, 0A4E-025, 0A4E-026.
				Zinc	150	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4E-002-SS-02	2 ft										
	0A4E-003	AUS-0A4E-003-SS-0X	0-0.5 ft	Cadmium	3.5	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A4E-W01 and 0A4E-004. Proposed soil borings 0A4E-028, 0A4E-037, and 0A4E-047.
				Chromium, Total	19.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Zinc	189	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4E-003-SS-02	2 ft										
	0A4E-004	AUS-0A4E-004-SS-0X	0-0.5 ft	cPAHs	470.8	ug/kg	H			2.1E+02			Proposed soil boring 0A4E-058 to verify cPAH exceedance.
		AUS-0A4E-004-SS-02	2 ft										
	0A4E-005	AUS-0A4E-005-SS-0X	0-0.5 ft	cPAHs	507.35	ug/kg	H			2.1E+02			Proposed soil boring 0A4E-059 to verify cPAH exceedance.
		AUS-0A4E-005-SS-02	2 ft										
	0A4E-006	AUS-0A4E-006-SS-0X	0-0.5 ft	Cadmium	1.4	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A4E-004. Proposed soil borings 0A4E-026, 0A4E-027, and 0A4E-037. Proposed soil boring 0A4E-060 to verify cPAH exceedance.
				cPAHs	490.92	ug/kg	H			2.1E+02			
				Bis (2-Ethylhexyl) Phthalate	1700	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Chromium, Total	15	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A4E-006-SS-02	2 ft										
	0A4E-007	AUS-0A4E-007-SD-02	2 ft										
	0A4E-009	AUS-0A4E-009-SD-02	2 ft										
	0A4E-010	AUS-0A4E-010-SD-02	2 ft										
	0A4E-011	AUS-0A4E-011-SS-0X	0-0.5 ft	Cadmium	0.95	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A4E-029, 0A4E-030, and 0A4E-031.
				Zinc	262	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4E-011-SS-02	2 ft										
	0A4E-012	AUS-0A4E-012-SD-02	2 ft										
	0A4E-013	AUS-0A4E-013-SD-02	2 ft										
	0A4E-014	AUS-0A4E-014-SS-0X	0-0.5 ft	Boron	4.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Barely exceeded the 95% UTL of background.
			2 ft										
	0A4E-015	AUS-0A4E-015-SS-0X	0-0.5 ft	Cadmium	0.61	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A4E-032, 0A4E-034, and 0A4E-035.
				Chromium, Total	13.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Zinc	147	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4E-015-SS-02	2 ft										
	0A4E-016	AUS-0A4E-016-SS-0X	0-0.5 ft	Chromium, Total	14.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil sample 0A4E-020. Proposed soil borings 0A4E-33 and 0A4E-45.
		AUS-0A4E-016-SS-02	2 ft										
	0A4E-017	AUS-0A4E-017-SS-0X	0-0.5 ft										
		AUS-0A4E-017-SS-02	2 ft										
		AUS-0A4E-017-SS-06	6 ft	Xylenes	830	ug/kg	E		6.0E+02	9.0E+04	2.1E+05	1.5E+05	Sample collected at depth of 6 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
	0A4E-018	AUS-0A4E-018-SS-0X	0-0.5 ft	Cadmium	0.51	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A4E-021, 0A4E-022, 0A4E-024, and 0A4E-046.
		AUS-0A4E-018-SS-02	2 ft										
	0A4E-019	AUS-0A4E-019-SS-0X	0-0.5 ft	Boron	14.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings 0A4E-049, 0A4E-050, 0A4E-051, and 0A4E-052. Proposed soil boring 0A4E-062 to verify cPAH exceedance.
				Arsenic	15.4	mg/kg	EH						
				cPAHs	473.2	ug/kg	H			2.1E+02			
				Cadmium	1.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	816	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	22900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	321	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4E-019-SS-02	2 ft										
	0A4E-020	AUS-0A4E-020-SS-0X	0-0.5 ft	cPAHs	311,343	ug/kg	H			2.1E+02			Existing PA/SI soil sample 0A4E-016. Proposed soil borings 0A4E-032, 0A4E-033, and 0A4E-036. Proposed soil boring 0A4E-044 to verify cPAH exceedance.
				Cadmium	0.63	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
	0A4E-020	AUS-0A4E-020-SS-02	2 ft										

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A4E (continued)	0A4E-W01	AUS-0A4E-W01-SS-0X	0-0.5 ft										
	0A4E-W01	AUS-0A4E-W01-SS-02	2 ft										
	0A4E-W01	AUS-0A4E-W01-SS-05	5 ft										
	0A4E-W01	AUS-0A4E-W01-SS-15	15 ft										
	0A4E-W02	AUS-0A4E-W02-SS-0X	0-0.5 ft										
	0A4E-W02	AUS-0A4E-W02-SS-02	2 ft										
	0A4E-W02	AUS-0A4E-W02-SS-05	5 ft										
	0A4E-W02	AUS-0A4E-W02-SS-10	10 ft										
	0A4E-W03	AUS-0A4E-W03-SS-12	12 ft										
	0A4E-W03	AUS-0A4E-W03-SS-18	18 ft	Aluminum	9340	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 18 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium, Total	19.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0A4E-W03	AUS-0A4E-W03-SS-24	24 ft	Chromium, Total	14.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 24 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Iron	19900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
AUS-0A4W	0A4W-001	AUS-0A4W-001-SS-02	2 ft	Aluminum	16500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A4W-057 abd 0A4W-058.
				Iron	24800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Chromium, Total	16.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A4W-001-SS-05	5 ft	Chromium, Total	14.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
	0A4W-002	AUS-0A4W-002-SS-0X	0-0.5 ft										
	0A4W-002	AUS-0A4W-002-SS-02	2 ft										
	0A4W-003	AUS-0A4W-003-SS-0X	0-0.5 ft	Cadmium	4520	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A4W-004, 0A4W-005, 0A4W-006, 0A4W-009, and 0A4W-010. Proposed soil borings 0A4W-041, 0A4W-042, 0A4W-056, and 0A4W-W01. Sample groundwater from proposed monitoring well 0A4W-W01 to see if groundwater has been impacted by constituents detected in soil exceeding the STG criteria.
				Boron	34.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium, Total	234	mg/kg	EHW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	32.8	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Copper	178	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Arsenic	60.1	mg/kg	EHW1W2	9.1E+03	5.0E+01	9.2E+04			
				Iron	21600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Mercury	0.72	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	77.8	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	4	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Thallium	1.2	mg/kg	E	5.1E-01	1.0E+00	6.7E+00		2.6E+00	
				Zinc	780	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4W-003-SS-02	2 ft										
	0A4W-004	AUS-0A4W-004-SS-0X	0-0.5 ft	Boron	5.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil sample 0A4W-005, 0A4W-006 and 0A4W-011. Proposed soil borings 0A4W-041, 0A4W-056, 0A4W-W01, and proposed sediment sample 0A4W-053. Sample groundwater from monitoring well 0A4W-W01 to see if higher metals concentrations detected at 0A4W-003 have impacted groundwater.
				Cadmium	45.8	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	298	mg/kg	EHW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	88.8	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	27000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Nickel	77.3	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	728	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4W-004-SS-02	2 ft										
	0A4W-005	AUS-0A4W-005-SS-0X	0-0.5 ft	Cadmium	167	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A4W-004, 0A4W-006 and 0A4W-011. Proposed soil borings 0A4W-055, 0A4W-056, 0A4W-W01, and proposed sediment sample 0A4W-053. Sample groundwater from monitoring well 0A4W-W01 to see if higher metals concentrations detected at 0A4W-003 have impacted groundwater.
				Chromium, Total	229	mg/kg	EHW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	42.6	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Nickel	114	mg/kg	EW2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	173	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4W-005-SS-02	2 ft										
	0A4W-006	AUS-0A4W-006-SS-0X	0-0.5 ft	Cadmium	132	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A4W-003 and 0A4W-005. Proposed soil borings 0A4W-042, 0A4W-043, 0A4W-055, and 0A4W-W01. Sample groundwater from monitoring well 0A4W-W01 to see if higher metals concentrations detected at 0A4W-003 have impacted groundwater.
				Chromium, Total	144	mg/kg	EHW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Zinc	209	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
				Nickel	32.7	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
		AUS-0A4W-006-SS-02	2 ft										
	0A4W-007	AUS-0A4W-007-SS-0X	0-0.5 ft	Aluminum	10500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A4W-008. Proposed soil borings 0A4W-046, 0A4W-047, and 0A4W-048. Sample groundwater from monitoring well 0A4W-W01 to see if higher metals concentrations detected at 0A4W-003 have impacted groundwater.
				Cadmium	8.3	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	21.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	2100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A4W-007-SS-02	2 ft										

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A4W (continued)	0A4W-008	AUS-0A4W-008-SS-0X	0-0.5 ft	Aluminum	9590	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
		AUS-0A4W-008-SS-02	2 ft										
	0A4W-009	AUS-0A4W-009-SD-0X	0-0.5 ft	Cadmium	12.6	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A4W-010. Proposed soil borings 0A4W-038 and 0A4W-039. Sample groundwater from monitoring well 0A4W-W01 to see if higher metals concentrations detected at 0A4W-003 have impacted groundwater.
				Chromium, Total	18.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A4W-009-SD-02	2 ft										
	0A4W-010	AUS-0A4W-010-SD-0X	0-0.5 ft	Aluminum	9560	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0A4W-003 and 0A4W-009. Proposed soil borings 0A4W-039, 0A4W-040, 0A4W-041, and 0A4W-W01. Sample groundwater from monitoring well 0A4W-W01 to see if higher metals concentrations detected at 0A4W-003 have impacted groundwater.
				Cadmium	8.4	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	17.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A4W-010-SD-02	2 ft										
	0A4W-011	AUS-0A4W-011-SS-0X	0-0.5 ft	Cadmium	1.9	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil samples 0A4W-005 and 0A4W-006. Proposed soil borings 0A4W-044 and 0A4W-045.
				Chromium, Total	32.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A4W-011-SS-02	2 ft										
	0A4W-012	AUS-0A4W-012-SS-0X	0-0.5 ft	cPAHs	446	ug/kg	H			2.1E+02			Proposed soil borings 0A4W-032, 0A4W-035, 0A4W-036, and 0A4W-037. Proposed soil boring 0A4W-059 to verify cPAH exceedance.
				Cadmium	5		E	3.5E-01	2.7E-01	4.5E+01	8.0E+00		
				Zinc	503		E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A4W-012-SS-02	2 ft										
	0A4W-013	AUS-0A4W-013-SS-06	6 ft										
AUS-0A06	0A06-001	AUS-0A06-001-SS-0X	0-0.5 ft										
	0A06-002	AUS-0A06-002-SS-0X	0-0.5 ft	cPAHs	427.409	ug/kg	H			2.1E+02			Proposed soil boring 0A06-146.
	0A06-003	AUS-0A06-003-SS-0X	0-0.5 ft	cPAHs	467.57	ug/kg	H			2.1E+02			Proposed soil boring 0A06-147.
	0A06-004	AUS-0A06-004-SS-0X	0-0.5 ft	cPAHs	923.58	ug/kg	H			2.1E+02			Proposed soil borings 0A06-027, 0A06-028, and 0A06-029.
				Benzo(a)pyrene	570	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
	0A06-005	AUS-0A06-005-SS-0X	0-0.5 ft	N-Nitrosodiphenylamine	41	ug/kg	W1W2		5.4E+02	2.5E+02	5.0E-02	5.0E-02	Sample groundwater from proposed monitoring well 0A06-W02 to see if constituents detected at concentrations exceeding STG criteria have impacted groundwater. Collect soil samples during advancement of monitoring well for SVOC analysis to confirm detection of SVOC constituents.
				Pentachlorophenol	47	ug/kg	W1W2		1.2E+02	9.0E+03	3.0E+01	4.0E+01	
	0A06-006	AUS-0A06-006-SS-0X	0-0.5 ft	cPAHs	392.724	ug/kg	H			2.1E+02			Proposed soil boring 0A06-148 to verify CPAH exceedance.
	0A06-007	AUS-0A06-007-SS-0X	0-0.5 ft	cPAHs	336.2	ug/kg	H			2.1E+02			Proposed soil borings 0A06-084, 0A06-085, and 0A06-149.
				Chromium	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0A06-008	AUS-0A06-008-SS-0X	0-0.5 ft	Aluminum	17300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A06-086, 0A06-087, and 0A06-088.
				Boron	5.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium	18.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A06-009	AUS-0A06-009-SS-0X	0-0.5 ft	Mercury	0.48	mg/kg	E	2.8E-01	1.5E-01	3.1E+01			Proposed soil borings 0A06-054, 0A06-055, and 0A06-056. Proposed soil boring 0A06-150 to verify cPAH exceedance.
				cPAHs	416.3	ug/kg	H			2.1E+02			
	0A06-010	AUS-0A06-010-SS-0X	0-0.5 ft	cPAHs	454.255	ug/kg	H			2.1E+02			Boron slightly exceed soil background and will be addressed in Phase II RI. Proposed soil boring 0A06-151 to verify cPAH exceedance.
				Boron	6.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
	0A06-011	AUS-0A06-011-SS-0X	0-0.5 ft	Benzo(a)pyrene	310	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A06-051, 0A06-052, and 0A06-053.
				Boron	5.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	457.41	ug/kg	H			2.1E+02			
				Cadmium	0.53	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
	0A06-012	AUS-0A06-012-SS-0X	0-0.5 ft	cPAHs	365.35	ug/kg	H			2.1E+02			Proposed soil boring 0A06-152 to verify cPAH exceedance.
	0A06-013	AUS-0A06-013-SS-0X	0-0.5 ft	cPAHs	582.01	ug/kg	H			2.1E+02			Proposed soil borings 0A06-078, 0A06-079, and 0A06-080.
				Benzo(a)pyrene	270	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
	0A06-014	AUS-0A06-014-SS-0X	0-0.5 ft	Aluminum	9440	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
	0A06-015	AUS-0A06-015-SS-0X	0-0.5 ft										
	0A06-016	AUS-0A06-016-SS-0X	0-0.5 ft	Benzo(a)anthracene	8700	ug/kg	EHW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	Proposed soil borings 0A06-048, 0A06-049, and 0A06-050. Sample groundwater from proposed monitoring well 0A06-W01 to see if constituents detected at concentrations exceeding STG criteria have impacted groundwater.
				Benzo(a)pyrene	8400	ug/kg	EHW1W2		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	10000	ug/kg	EHW1W2		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				Chrysene	11000	ug/kg	E		4.7E+03	2.1E+05	1.6E+05	1.6E+05	
				cPAHs	13074	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	2300	ug/kg	HW1W2		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Indeno(1,2,3-c,d)pyrene	4200	ug/kg	H		9.0E+04	2.1E+03	1.4E+04	1.4E+04	
	0A06-017	AUS-0A06-017-SS-0X	0-0.5 ft	Benzo(a)anthracene	2700	ug/kg	HW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	Proposed soil borings 0A06-033, 0A06-034, and 0A06-035. Sample groundwater from proposed monitoring well 0A06-W03 to see if constituents detected at concentrations exceeding STG criteria have impacted groundwater.
				Benzo(a)pyrene	2200	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	2800	ug/kg	EH		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				Carbazole	660	ug/kg	W1W2		1.3E+04	8.6E+04	6.0E+02	6.0E+02	
				cPAHs	3502.3	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	620	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
	0A06-018	AUS-0A06-018-SS-0X	0-0.5 ft	cPAHs	483.06	ug/kg	H			2.1E+02			Proposed soil borings 0A06-030, 0A06-031, and 0A06-032.
				Benzo(a)pyrene	310	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
	0A06-019	AUS-0A06-019-SS-0X	0-0.5 ft										
	0A06-020	AUS-0A06-020-SS-0X	0-0.5 ft	Benzo(a)pyrene	220	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A06-081, 0A06-082, and 0A06-083.
				cPAHs	506.33	ug/kg	H			2.1E+02			
				Copper	32.4	mg/kg	E	9.4E+00	3.1E+01	4.1E+03			
	0A06-021	AUS-0A06-021-SS-0X	0-0.5 ft	Cadmium	0.39	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A06-057, 0A06-058, and 0A06-059. Proposed soil boring 0A06-153 to verify cPAH exceedance.
				cPAHs	462.041	ug/kg	H			2.1E+02			
	0A06-022	AUS-0A06-022-SS-0X	0-0.5 ft	cPAHs	319.66	ug/kg	H			2.1E+02			Proposed soil boring 0A06-154 to verify cPAH exceedance.
	0A06-023	AUS-0A06-023-SS-0X	0-0.5 ft	cPAHs	936.58	ug/kg	H			2.1E+02			Proposed soil borings 0A06-036, 0A06-037, and 0A06-038.
				Benzo(a)pyrene	490	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
	0A06-024	AUS-0A06-024-SS-0X	0-0.5 ft	Benzo(a)pyrene	790	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A06-039, 0A06-040, and 0A06-041. Sample groundwater from proposed monitoring well 0A06-W05 to see if constituents detected at concentrations exceeding STG criteria have impacted groundwater.
				Cadmium	0.43		E	3.5E-01	2.7E-01	4.5E+01	8.0E+00		
				cPAHs	1237.2	ug/kg	H			2.1E+02			
				Nitrobenzene	550	ug/kg	W1W2		4.0E+04	9.4E+03	1.0E+02	1.0E+02	

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A06 (continued)	0A06-025	AUS-0A06-025-SS-0X	0-0.5 ft	Benzo(a)anthracene	3500	ug/kg	EHW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	Proposed soil borings 0A06-042, 0A06-043, and 0A06-044. Sample groundwater from proposed monitoring well 0A06-W04 to see if constituents detected at concentrations exceeding STG criteria have impacted groundwater.
				Benzo(a)pyrene	3400	ug/kg	EH		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	4400	ug/kg	EH		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				Cadmium	0.45	ug/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	5406.5	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	1000	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
	0A06-026	AUS-0A06-026-SS-0X	0-0.5 ft	Benzo(a)pyrene	460	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A06-045, 0A06-046, and 0A06-047.
				Bis(2-ethylhexyl)phthalate	6600	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				cPAHs	703.57	ug/kg	H			2.1E+02			
				Cadmium	0.37	ug/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
AUS-0A07	0A07-001	AUS-0A07-001-SS-0X	0-0.5 ft	4,4'-DDT	41	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to see if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	48000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	55000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	1000	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Heptachlor	6.1	ug/kg	E		6.0E+00	3.8E+02	2.3E+04	2.3E+04	
				Isodrin	2800	ug/kg	E		3.3E+00				
		AUS-0A07-001-SS-02	2 ft	Aldrin	1600	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to see if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	460	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Isodrin	49	ug/kg	E		3.3E+00				
		AUS-0A07-001-SS-04	4 ft	Aldrin	59	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to see if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	81	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
	0A07-002	AUS-0A07-002-SS-0X	0-0.5 ft	Aldrin	520000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 proposed to delineate this area. Proposed soil samples 0A07-259, 0A07-260, and 0A07-261 for TEQ exceedance. Sample groundwater from monitoring well 0A07-W02 to see if pesticides detected in soil have impacted groundwater.
				Beta BHC (Beta Hexachlorocyclohexane)	8.4	ug/kg	EW1		9.3E+02	1.2E+05		3.6E+06	
				Dieldrin	240000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Heptachlor	69	ug/kg	E		6.0E+00	3.8E+02	2.3E+04	2.3E+04	
				Isodrin	60000	ug/kg	E		3.3E+00				
				Mammal TEQ	3.36	ng/kg	E		8.1E-01	1.6E+01			
				Bird TEQ	8.74	ng/kg	E		8.1E-01	1.6E+01			
		AUS-0A07-002-SS-02	2 ft	Aldrin	1300	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to see if pesticides detected in soil have impacted groundwater.
				Dieldrin	810	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	11	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Isodrin	130	ug/kg	E		3.3E+00				
		AUS-0A07-002-SS-03	3 ft	4,4'-DDD	8600	ug/kg	E		7.6E+02	1.0E+04	1.6E+04	1.6E+04	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to see if pesticides detected in soil have impacted groundwater.
				Aldrin	470000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	170000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	1600	ug/kg	EW1W2		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	9000	ug/kg	EW1W2		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	20000	ug/kg	HW1W2			1.8E+04	1.0E+03	1.0E+03	
				Isodrin	46000	ug/kg	E		3.3E+00				
		AUS-0A07-002-SS-04	4 ft	Aldrin	150000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to see if pesticides detected in soil have impacted groundwater.
				Dieldrin	40000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin Ketone	4200	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
				Isodrin	19000	ug/kg	E		3.3E+00				
		AUS-0A07-002-SS-05	5 ft	Aldrin	21000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to see if pesticides detected in soil have impacted groundwater.
				Dieldrin	13000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin Aldehyde	770	ug/kg	E		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	1700	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
				Isodrin	2300	ug/kg	E		3.3E+00				

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)	0A07-003	AUS-0A07-003-SS-0X	0-0.5 ft	Dieldrin	180	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Soil sample from lowest sampled interval in this location did not have STG exceedances.
		AUS-0A07-003-SS-02	2 ft	Aldrin	8.7	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Soil sample from lowest sampled interval in this location did not have STG exceedances.
				Dieldrin	24	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-003-SS-04	4 ft										
	0A07-004	AUS-0A07-004-SS-0X	0-0.5 ft	4,4'-DDT	37	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil Borings 0A07-201 through 0A07-217 are proposed to delineate this area. Soil boring 0A07-257 proposed to determine vertical extent of pesticides in this area. Sample groundwater from monitoring well 0A07-W08 to determine if pesticides detected in soil as concentrations exceeding the STG criteria have impacted groundwater.
				Aldrin	350000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	290000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	1100	ug/kg	EW1W2		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Gamma-Chlordane	310	ug/kg	E		2.2E+02	1.6E+03	1.0E+04	1.0E+04	
				Heptachlor	63	ug/kg	E		6.0E+00	3.8E+02	2.3E+04	2.3E+04	
				Isodrin	310	ug/kg	E		3.3E+00				
		AUS-0A07-004-SS-02	2 ft	4,4'-DDT	13	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil Borings 0A07-201 through 0A07-217 are proposed to delineate this area. Soil boring 0A07-257 proposed to determine vertical extent of pesticides in this area. Sample groundwater from monitoring well 0A07-W08 to determine if pesticides detected in soil as concentrations exceeding the STG criteria have impacted groundwater.
				Aldrin	2300	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	120000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	840	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	26	ug/kg	E		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Heptachlor	52	ug/kg	E		6.0E+00	3.8E+02	2.3E+04	2.3E+04	
				Isodrin	5.7	ug/kg	E		3.3E+00				
				Methoxychlor	26	ug/kg	E		2.0E+01	3.1E+05	1.6E+05	1.6E+05	
	0A07-005	AUS-0A07-005-SS-0X	0-0.5 ft	4,4'-DDD	1400	ug/kg	E		7.6E+02	1.0E+04	1.6E+04	1.6E+04	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. 0A07-201 through 0A07-217 proposed to delineate this area. Soil sampling from 0A07-W01 is proposed to determine vertical extent of pesticides exceeding representative screening criteria. Sample groundwater from monitoring well 0A07-W01 to determine if pesticides detected in soil as concentrations exceeding the STG criteria have impacted groundwater.
				4,4'-DDT	630	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	360	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	2900	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endosulfan Sulfate	44	ug/kg	E		3.6E+01	3.7E+05	1.8E+04	1.8E+04	
				Endrin	290	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	15	ug/kg	E		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Gamma BHC (Lindane)	5.6	ug/kg	E		5.0E+00	1.7E+03	9.0E+00	9.0E+00	
				Isodrin	9	ug/kg	E		3.3E+00				
		AUS-0A07-005-SS-02	2 ft	4,4'-DDT	15	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. 0A07-201 through 0A07-217 proposed to delineate this area. Soil sampling from 0A07-W01 is proposed to determine vertical extent of pesticides exceeding representative screening criteria. Sample groundwater from monitoring well 0A07-W01 to determine if pesticides detected in soil as concentrations exceeding the STG criteria have impacted groundwater.
				Aldrin	110	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	410	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	19	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
		AUS-0A07-005-SS-04	4 ft	Aldrin	130	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	This soil sample is within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. 0A07-201 through 0A07-217 proposed to delineate this area. Soil sampling from 0A07-W01 is proposed to determine vertical extent of pesticides exceeding representative screening criteria. Sample groundwater from monitoring well 0A07-W01 to determine if pesticides detected in soil as concentrations exceeding the STG criteria have impacted groundwater.
				Dieldrin	55	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
	0A07-006	AUS-0A07-006-SS-0X	0-0.5 ft	Aluminum	16100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Boring within area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. 0A07-201 through 0A07-217 proposed to delineate pesticide exceedances in this area will also be sampled for metals.
				Chromium, Total	20.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A07-006-SS-02	2 ft										
	0A07-007	AUS-0A07-007-SS-0X	0-0.5 ft	PCB-1260 (Arochlor 1260)	140	ug/kg	E		3.4E+01	7.4E+02			This soil sample is located relatively near 3 transformers. 0A07-254 is proposed to be placed adjacent to these transformers.

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)	0A07-008	AUS-0A07-008-SD-0X	0-0.5 ft	Aluminum	9160	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Bis (2-Ethylhexyl) Phthalate	2000	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	Chromium and Aluminum slightly exceede soil background. Proposed soil samples 0A07-212, 0A07-243, and 0A07-262. EPF notes that toxicity-based screening criteria for other phthalates are in hundreds of ppm range and that Bis (2-ethylhexyl)phthalate should be retained as an uncertainty, but no quantitative evaluation as a COPEC. Proposed soil boring 0A07-291 to verify cPAH exceedance.
				cPAHs	473.594	ug/kg	H			2.1E+02			
				Chromium, Total	14.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-008-SD-02	2 ft										
	0A07-009	AUS-0A07-009-SS-0X	0-0.5 ft	Aluminum	17500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0A07-008 and 0A07-010. Proposed soil samples 0A07-212, 0A07-243, and 0A07-262. EPF notes that toxicity-based screening criteria for other phthalates are in hundreds of ppm range and that Bis (2-ethylhexyl)phthalate should be retained as an uncertainty, but no quantitative evaluation as a COPEC.
				Bis (2-Ethylhexyl) Phthalate	3100	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Chromium, Total	23.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A07-009-SS-02	2 ft										
	0A07-010	AUS-0A07-010-SS-0X	0-0.5 ft	Aluminum	16400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A07-009. Proposed soil samples 0A07-218, 0A07-219, and 0A07-243. Sample groundwater from monitoring well 0A07-W03 to determine if groundwater has been impacted by cadmium. EPF notes that toxicity-based screening criteria for other phthalates are in hundreds of ppm range and that Bis (2-ethylhexyl)phthalate should be retained as an uncertainty, but no quantitative evaluation as a COPEC. Proposed soil boring 0A07-292 to verify cPAH exceedance.
				Bis (2-Ethylhexyl) Phthalate	10000	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				cPAHs	479.263	ug/kg	H			2.1E+02			
				Cadmium	9	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Chromium, Total	24	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-010-SS-02	2 ft										
	0A07-011	AUS-0A07-011-SD-0X	0-0.5 ft	Aluminum	11200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0A07-162, 0A07-165, and 0A07-167. Proposed soil boring 0A07-265.
				Chromium, Total	15.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-011-SD-02	2 ft										
	0A07-012	AUS-0A07-012-SS-0X	0-0.5 ft	cPAHs	285.292	ug/kg	H			2.1E+02			Proposed soil boring 0A07-293 to verify cPAH exceedance.
		AUS-0A07-012-SS-02	2 ft										
	0A07-013	AUS-0A07-013-SS-0X	0-0.5 ft	cPAHs	322.796	ug/kg	H			2.1E+02			Proposed soil boring 0A07-294 to verify cPAH exceedance.
		AUS-0A07-013-SS-02	2 ft										
	0A07-014	AUS-0A07-014-SD-0X	0-0.5 ft										
		AUS-0A07-014-SD-02	2 ft										
	0A07-015	AUS-0A07-015-SD-0X	0-0.5 ft										
		AUS-0A07-015-SD-02	2 ft										
	0A07-016	AUS-0A07-016-SS-0X	0-0.5 ft	Isodrin	4.2	ug/kg	E		3.3E+00				Proposed soil borings 0A07-220, 0A07-221, and 0A07-222.
		AUS-0A07-016-SS-02	2 ft										
	0A07-017	AUS-0A07-017-SD-0X	0-0.5 ft	Aluminum	16300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-221, 0A07-223, 0A07-224, and 0A07-225.
				Benzo(a)pyrene	2400	ug/kg	E		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	3200	ug/kg	EH		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				cPAHs	3550.1	ug/kg	H			2.1E+02			
				Chromium, Total	22.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Dibenz(a,h)anthracene	550	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
		AUS-0A07-017-SD-02	2 ft										
	0A07-018	AUS-0A07-018-SS-0X	0-0.5 ft	Aluminum	16200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil samples 0A07-232, 0A07-233, and 0A07-234.
				Chromium, Total	23.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	28800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Nickel	42.2	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
		AUS-0A07-018-SS-02	2 ft										
	0A07-019	AUS-0A07-019-SS-0X	0-0.5 ft	Benzo(a)pyrene	1400	ug/kg	H						Proposed soil borings 0A07-226, 0A07-227, and 0A07-228.
				cPAHs	1912.9	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	320	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
		AUS-0A07-019-SS-02	2 ft										
	0A07-020	AUS-0A07-020-SS-0X	0-0.5 ft	Aluminum	20200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-229, 0A07-230, and 0A07-231.
				Benzo(a)pyrene	350	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	547.7	ug/kg	H			2.1E+02			
				Chromium, Total	23	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	26700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A07-020-SS-02	2 ft										
	0A07-021	AUS-0A07-021-SS-0X	0-0.5 ft	Aluminum	14900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-231, 0A07-263, and 0A07-264.
				Chromium, Total	20.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-021-SS-02	2 ft										
	0A07-022	AUS-0A07-022-SD-02	2 ft										
	0A07-023	AUS-0A07-023-SS-0X	0-0.5 ft	Aluminum	17200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-266, 0A07-267, and 0A07-268.
				Chromium, Total	21.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A07-023-SS-02	2 ft										
	0A07-024	AUS-0A07-024-SD-02	2 ft										
	0A07-025	AUS-0A07-025-SD-02	2 ft	4,4'-DDD	1400	ug/kg	E		7.6E+02	1.0E+04	1.6E+04	1.6E+04	Soil sample is located in a drainage. Upgradient sample (0A07-068) did not have detectable pesticides. Proposed sediment/surface water 0A07-245 is proposed downgradient.
				4.4'-DDT	22	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	35	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
		AUS-0A07-025-SD-04	4 ft	Aldrin	8.8	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Sample groundwater from monitoring well 0A07-W02 to see if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	16	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)	0A07-026	AUS-0A07-026-SS-0X	0-0.5 ft	Aluminum	13100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-269, 0A07-270, and 0A07-271.
				Arsenic	16.9	ug/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Cadmium	0.68	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Chromium, Total	18.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-026-SS-02	2 ft										
	0A07-027	AUS-0A07-027-SS-0X	0-0.5 ft	Aluminum	11500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-240, 0A07-241, and 0A07-242.
				Benzo(a)pyrene	440	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	715.84	ug/kg	H			2.1E+02			
				Chromium, Total	16.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-027-SS-02	2 ft										
	0A07-028	AUS-0A07-028-SS-0X	0-0.5 ft	Aluminum	13400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-272, 0A07-273, 0A07-274, and 0A07-289.
				cPAHs	307.38	ug/kg	H			2.1E+02			
				Chromium, Total	20.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-028-SS-02	2 ft										
	0A07-029	AUS-0A07-029-SS-0X	0-0.5 ft	Aluminum	11300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A07-030. Proposed soil boring 0A07-275.
				Chromium, Total	14.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A07-029-SS-01	1 ft										
		AUS-0A07-029-SS-05	5 ft										
		AUS-0A07-029-SS-10	10 ft										
	0A07-030	AUS-0A07-030-SS-0X	0-0.5 ft	Aluminum	9930	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
		AUS-0A07-030-SS-02	2 ft										
		AUS-0A07-030-SS-05	5 ft										
		AUS-0A07-030-SS-06	6 ft	Aluminum	9120	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 6 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium, Total	19	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	19600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A07-031	AUS-0A07-031-SS-0X	0-0.5 ft	Aldrin	5.6	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to see if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	80	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
	0A07-032	AUS-0A07-032-SS-0X	0-0.5 ft										
		AUS-0A07-032-SS-02	2 ft	Aldrin	4.4	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area.
	0A07-033	AUS-0A07-033-SS-0X	0-0.5 ft	Aldrin	160000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	22000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Isodrin	4700	ug/kg	E		3.3E+00				
		AUS-0A07-033-SS-02	2 ft	Aldrin	220	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	2000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
	0A07-034	AUS-0A07-034-SS-0X	0-0.5 ft	Aldrin	240	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if pesticide concentrations detected in this area have impacted groundwater.
				Dieldrin	1500	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Isodrin	34	ug/kg	E		3.3E+00				
	0A07-035	AUS-0A07-035-SS-0X	0-0.5 ft	Aldrin	84	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if pesticide concentrations detected in this area have impacted groundwater.
				Dieldrin	560	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-035-SS-02	2 ft	Aldrin	240	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if pesticide concentrations detected in this area have impacted groundwater.
				Dieldrin	940	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin Aldehyde	15	ug/kg	E		1.1E+01	1.8E+04	1.0E+03	1.0E+03	

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)		AUS-0A07-035-SS-02	2 ft	Isodrin	15	ug/kg	E		3.3E+00				
	0A07-036	AUS-0A07-036-SS-0X	0-0.5 ft	Dieldrin	13000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
	0A07-036	AUS-0A07-036-SS-02	2 ft	Aldrin	12000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	48000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	450	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Isodrin	320	ug/kg	E		3.3E+00				
	0A07-037	AUS-0A07-037-SS-0X	0-0.5 ft	Aldrin	29	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	150	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-037-SS-02	2 ft	Aldrin	1400	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	750	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Isodrin	170	ug/kg	E		3.3E+00				
	0A07-038	AUS-0A07-038-SS-0X	0-0.5 ft	4,4'-DDT	220	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater. Proposed soil boring 0A07-295 to verify cPAH exceedance.
				Aldrin	54000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Aluminum	17900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Chromium, Total	25.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				cPAHs	1502.15	ug/kg	H			2.1E+02			
				Dieldrin	2100	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	920	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	1200	ug/kg	EW1W2		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	1600	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
				Iron	31300	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Isodrin	1600	ug/kg	E		3.3E+00				
		AUS-0A07-038-SS-02	2 ft	4,4'-DDD	2300	ug/kg	E		7.6E+02	1.0E+04	1.6E+04	1.6E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				4,4'-DDT	1800	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	43000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	190000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	12000	ug/kg	EW1W2		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	7000	ug/kg	EW1W2		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	9000	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
				Hexachlorobenzene	1600	ug/kg	H		1.0E+06	1.1E+03	2.0E+03	2.0E+03	
				Isodrin	1500	ug/kg	E		3.3E+00				
	0A07-039	AUS-0A07-039-SS-0X	0-0.5 ft	4,4'-DDT	180	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	3200	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	49000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	5400	ug/kg	EW1W2		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	1700	ug/kg	EW1W2		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	8000	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
				Isodrin	150	ug/kg	E		3.3E+00				
		AUS-0A07-039-SS-02	2 ft	Aldrin	240	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	4300	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	380	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)	0A07-040	AUS-0A07-040-SS-0X	0-0.5 ft	Aldrin	170	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	920	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-040-SS-02	2 ft	Dieldrin	140	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
	0A07-041	AUS-0A07-041-SS-0X	0-0.5 ft	Aldrin	26	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	50	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
	0A07-042	AUS-0A07-042-SS-0X	0-0.5 ft	4,4'-DDT	23	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	220	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	740	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-042-SS-02	2 ft	Aldrin	8	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	91	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-042-SS-04	4 ft	Chromium, Total	20.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area.
				Dieldrin	2.6	ug/kg	E		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Iron	34000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
	0A07-043	AUS-0A07-043-SS-0X	0-0.5 ft	4,4'-DDT	77	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater. Proposed soil boring 0A07-296 to verify cPAH exceedance.
				Aldrin	200	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Aluminum	12500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Chromium, Total	16.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				cPAHs	1271.05	ug/kg	H			2.1E+02			
				Dieldrin	1400	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	77	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Iron	20000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A07-043-SS-02	2 ft	1,2-Dichloropropane	150	ug/kg	W1W2		7.0E+05	5.0E+02	3.0E+01	3.0E+01	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				4,4'-DDT	78	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	230	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	2200	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	2300	ug/kg	EW1W2		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	110	ug/kg	E		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Isodrin	72	ug/kg	E		3.3E+00				
		AUS-0A07-043-SS-04	4 ft	Dieldrin	2.7	ug/kg	E		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area.
	0A07-044	AUS-0A07-044-SS-0X	0-0.5 ft	4,4'-DDT	4.4	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	81	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-044-SS-02	2 ft	Dieldrin	1600	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
		AUS-0A07-044-SS-04	4 ft	Dieldrin	9.3	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)	0A07-045	AUS-0A07-045-SS-0X	0-0.5 ft	Boron	6.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater. Proposed soil samples 0A07-257, 0A07-276, and 0A07-277 for TEQ exceedance. Proposed soil boring 0A07-297 to verify cPAH exceedance.
				Cadmium	0.39	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00		
				cPAHs	1733.25	ug/kg	H			2.1E+02			
				Dieldrin	36	mg/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Mammal TEQ	2.16	ng/kg	E		8.1E-01	1.6E+01			
				Bird TEQ	1.92	ng/kg	E		8.1E-01	1.6E+01			
		AUS-0A07-045-SS-02	2 ft	Aldrin	5.6	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	4.2	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-045-SS-03	3 ft	4,4'-DDT	39	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	350	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	580	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	180	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
		AUS-0A07-045-SS-04	4 ft	Aluminum	12800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum and Iron are essential nutrients and have limited toxicity data. EPF indicates no additional delineation necessary at this location. EPF notes that toxicity-based screening criteria for other phthalates are in hundreds of ppm range and that Bis (2-ethylhexyl)phthalate should be retained as an uncertainty, but no quantitative evaluation as a COPEC. Proposed soil boring 0A07-297 to verify cPAH exceedance.
				Bis (2-Ethylhexyl) Phthalate	2500	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				cPAHs	1271.05	ug/kg	H			2.1E+02			
				Iron	20200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A07-045-SS-05	5 ft										
	0A07-046	AUS-0A07-046-SS-0X	0-0.5 ft	Isodrin	7.1	ug/kg	E		3.3E+00				Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
		AUS-0A07-046-SS-02	2 ft	4,4'-DDT	6.5	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area.
				Aldrin	17	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	13	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
	0A07-047	AUS-0A07-047-SS-0X	0-0.5 ft	4,4'-DDD	12000	ug/kg	EH		7.6E+02	1.0E+04	1.6E+04	1.6E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-2001 through 0A07-217 are proposed to delineate this area. Soil sampling from 0A07-W01 is proposed to determine vertical extent of pesticides exceeding representative screening criteria. Sample groundwater from monitoring well 0A07-W01 to determine if pesticides detected in soil have impacted groundwater.
				4,4'-DDE	2000	ug/kg	E		6.0E+02	7.0E+03	5.4E+04	5.4E+04	
				4,4'-DDT	14000	ug/kg	EH		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	88000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Alpha-Chlordane	490	ug/kg	E		2.2E+02	1.6E+03	1.0E+04	1.0E+04	
				Dieldrin	140000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	1200	ug/kg	EW1W2		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	2100	ug/kg	EW1W2		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	4900	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
				Gamma-Chlordane	1600	ug/kg	E		2.2E+02	1.6E+03	1.0E+04	1.0E+04	
				Hexachlorobenzene	2700	ug/kg	HW1W2		1.0E+06	1.1E+03	2.0E+03	2.0E+03	
				Isodrin	920	ug/kg	E		3.3E+00				
		AUS-0A07-047-SS-02	2 ft	Aldrin	1300000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-2001 through 0A07-217 are proposed to delineate this area. Soil sampling from 0A07-W01 is proposed to determine vertical extent of pesticides exceeding representative screening criteria. Sample groundwater from monitoring well 0A07-W01 to determine if pesticides detected in soil have impacted groundwater.
				Dieldrin	99000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Isodrin	49000	ug/kg	E		3.3E+00				
		AUS-0A07-047-SS-03	3 ft	1,2-Dichloropropane	660	ug/kg	HW1W2		7.0E+05	5.0E+02	3.0E+01	3.0E+01	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-2001 through 0A07-217 are proposed to delineate this area. Soil sampling from 0A07-W01 is proposed to determine vertical extent of pesticides exceeding representative screening criteria. Sample groundwater from monitoring well 0A07-W01 to determine if pesticides detected in soil have impacted groundwater.
				4,4'-DDT	3900	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	120000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Chromium, Total	17.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Dieldrin	15000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Iron	19800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)		AUS-0A07-047-SS-03	3 ft	Isodrin	4600	ug/kg	E		3.3E+00				
				Xylenes, Total	4500	ug/kg	E		6.0E+02	9.0E+04	2.1E+05	1.5E+05	
		AUS-0A07-047-SS-04	4 ft	1,2-Dichloropropane	480	ug/kg	W1W2		7.0E+05	5.0E+02	3.0E+01	3.0E+01	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-2001 through 0A07-217 are proposed to delineate this area. Soil sampling from 0A07-W01 is proposed to determine vertical extent of pesticides exceeding representative screening criteria. Sample groundwater from monitoring well 0A07-W01 to determine if pesticides detected in soil have impacted groundwater.
				4,4'-DDT	1700	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	13000	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Aluminum	9710	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Chromium, Total	17.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Dieldrin	3500	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Gamma-Chlordane	400	ug/kg	E		2.2E+02	1.6E+03	1.0E+04	1.0E+04	
				Iron	23500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Isodrin	480	ug/kg	E		3.3E+00				
				Xylenes, Total	2500	ug/kg	E		6.0E+02	9.0E+04	2.1E+05	1.5E+05	
		AUS-0A07-047-SS-05	5 ft	1,2-Dichloropropane	380	ug/kg	W1W2		7.0E+05	5.0E+02	3.0E+01	3.0E+01	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-2001 through 0A07-217 are proposed to delineate this area. Soil sampling from 0A07-W01 is proposed to determine vertical extent of pesticides exceeding representative screening criteria. Sample groundwater from monitoring well 0A07-W01 to determine if pesticides detected in soil have impacted groundwater.
				4,4'-DDD	1100	ug/kg	E		7.6E+02	1.0E+04	1.6E+04	1.6E+04	
				4,4'-DDT	4400	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	2400	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Aluminum	9360	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Chromium, Total	17.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Dieldrin	6700	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Gamma-Chlordane	920	ug/kg	E		2.2E+02	1.6E+03	1.0E+04	1.0E+04	
				Iron	27800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A07-048	AUS-0A07-048-SS-0X	0-0.5 ft	Dieldrin	200	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
		AUS-0A07-048-SS-02	2 ft	4,4'-DDD	2200	ug/kg	E		7.6E+02	1.0E+04	1.6E+04	1.6E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				4,4'-DDE	2900	ug/kg	E		6.0E+02	7.0E+03	5.4E+04	5.4E+04	
				4,4'-DDT	9300	ug/kg	EH		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Dieldrin	4900	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	330	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
	0A07-049	AUS-0A07-049-SS-0X	0-0.5 ft	4,4'-DDT	110	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	290	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	550	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-049-SS-02	2 ft	4,4'-DDT	260	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	76	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	810	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	42	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
	0A07-050	AUS-0A07-050-SS-0X	0-0.5 ft	4,4'-DDD	250	ug/kg	E		7.6E+02	1.0E+04	1.6E+04	1.6E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	57	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	510	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	44	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
		AUS-0A07-050-SS-02	2 ft	Aldrin	5.1	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	19	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
	0A07-051	AUS-0A07-051-SS-0X	0-0.5 ft	4,4'-DDE	890	ug/kg	E		6.0E+02	7.0E+03	5.4E+04	5.4E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W10 to determine if pesticides have impacted groundwater.
				4,4'-DDT	2100	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	39	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	1300	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	1300	ug/kg	EW1W2		1.0E+01	1.8E+04	1.0E+03	1.0E+03	

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)	0A07-051	AUS-0A07-051-SS-02	2 ft	4,4'-DDD	12000	ug/kg	EH		7.6E+02	1.0E+04	1.6E+04	1.6E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				4,4'-DDE	4800	ug/kg	E		6.0E+02	7.0E+03	5.4E+04	5.4E+04	
				4,4'-DDT	100000	ug/kg	EHW1W2		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Dieldrin	13000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	1800	ug/kg	EW1W2		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
	0A07-052	AUS-0A07-052-SS-0X	0-0.5 ft	Dieldrin	28	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
		AUS-0A07-052-SS-02	2 ft										
	0A07-053	AUS-0A07-053-SS-0X	0-0.5 ft	Aldrin	27	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater. Proposed soil boring 0A07-298 to verify cPAH exceedance.
				Aluminum	10700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				cPAHs	1271.05	ug/kg	H			2.1E+02			
				Chromium, Total	17.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Dieldrin	41	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-053-SS-02	2 ft	Dieldrin	19	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
	0A07-054	AUS-0A07-054-SS-0X	0-0.5 ft	Dieldrin	140	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
		AUS-0A07-054-SS-02	2 ft	Dieldrin	5.9	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
	0A07-055	AUS-0A07-055-SS-0X	0-0.5 ft	4,4'-DDT	44	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	440	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-055-SS-02	2 ft										
	0A07-056	AUS-0A07-056-SS-0X	0-0.5 ft	4,4'-DDT	4.8	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	57	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	580	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-056-SS-02	2 ft	Aldrin	110	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	10	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Isodrin	3.9	ug/kg	E		3.3E+00				
	0A07-057	AUS-0A07-057-SS-0X	0-0.5 ft	4,4'-DDT	410	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater. Proposed soil boring 0A07-299 to verify cPAH exceedance.
				Aldrin	26	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Boron	5.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	1155.5	ug/kg	H			2.1E+02			
				Dieldrin	3800	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	97	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)	0A07-057	AUS-0A07-057-SS-02	2 ft	4,4'-DDT	230	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Aldrin	390	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	7200	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	800	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	1100	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
	0A07-058	AUS-0A07-058-SS-0X	0-0.5 ft	4,4'-DDE	710	ug/kg	E		6.0E+02	7.0E+03	5.4E+04	5.4E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				4,4'-DDT	2100	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	650	ug/kg	EHW1W2		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Dieldrin	7400	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	90	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Isodrin	95	ug/kg	E		3.3E+00				
	0A07-059	AUS-0A07-059-SS-0X	0-0.5 ft	4,4'-DDT	4.4	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater. Proposed soil boring 0A07-300 to verify cPAH exceedance.
				Aluminum	11800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				cPAHs	1386.6	ug/kg	H			2.1E+02			
				Chromium, Total	16.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Dieldrin	20	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-059-SS-02	2 ft	Dieldrin	8.2	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
	0A07-060	AUS-0A07-060-SS-0X	0-0.5 ft	4,4'-DDD	1800	ug/kg	E		7.6E+02	1.0E+04	1.6E+04	1.6E+04	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater. Proposed soil boring 0A07-301 to verify cPAH exceedance.
				4,4'-DDT	91	ug/kg	E		3.5E+00	7.0E+03	3.2E+04	3.2E+04	
				Aldrin	240	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	
				Aluminum	11700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				cPAHs	1271.05	ug/kg	H			2.1E+02			
				Chromium, Total	17.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Dieldrin	4100	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-060-SS-02	2 ft	Aldrin	15	ug/kg	E		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Dieldrin	61	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
		AUS-0A07-060-SS-04	4 ft	Aluminum	11800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater. Proposed soil boring 0A07-301 to verify cPAH exceedance.
				cPAHs	1386.6	ug/kg	H			2.1E+02			
				Chromium, Total	17	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Dieldrin	39	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
	0A07-061	AUS-0A07-061-SS-0X	0-0.5 ft	Dieldrin	13000	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
				Endrin Aldehyde	4700	ug/kg	EW1W2		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
		AUS-0A07-061-SS-02	2 ft	Dieldrin	44	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Soil sample is within an area of pesticide exceedances adjacent to Buildings IN-1-4, IN-1-5, and IN1-1-6. Soil borings 0A07-201 through 0A07-217 are proposed to delineate this area. Sample groundwater from monitoring well 0A07-W02 to determine if higher pesticide concentrations detected at 0A07-002 have impacted groundwater.
	0A07-062	AUS-0A07-062-SS-0X	0-0.5 ft										
		AUS-0A07-062-SS-02	2 ft										

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A07 (continued)	0A07-065	AUS-0A07-065-SD-02	2 ft										
	0A07-067	AUS-0A07-067-SD-02	2 ft										
	0A07-068	AUS-0A07-068-SD-02	2 ft										
	0A07-071	AUS-0A07-071-SS-0X	0-0.5 ft	Aluminum	14300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-244 and 0A07-278. Proposed soil boring 0A07-302 to verify cPAH exceedance.
				cPAHs	1271.05	ug/kg	H			2.1E+02			
				Chromium, Total	18.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-071-SS-02	2 ft										
	0A07-073	AUS-0A07-073-SS-0X	0-0.5 ft	Dieldrin	96	ug/kg	EH		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Proposed soil borings 0A07-235, 0A07-236, and 0A07-237. Sample groundwater from monitoring well 0A07-W09 to pesticide detected in soil have impacted groundwater. Proposed soil boring 0A07-303 to verify cPAH exceedance.
				cPAHs	1271.05	ug/kg	H			2.1E+02			
				Endrin	100	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	320	ug/kg	E		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	2600	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
		AUS-0A07-073-SS-02	2 ft	Aldrin	140	ug/kg	EH		3.3E+00	1.0E+02	5.0E+02	5.0E+02	Proposed soil borings 0A07-235, 0A07-236, and 0A07-237. Sample groundwater from monitoring well 0A07-W09 to pesticide detected in soil have impacted groundwater.
				Dieldrin	430	ug/kg	EHW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	
				Endrin	310	ug/kg	E		1.0E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Aldehyde	140	ug/kg	E		1.1E+01	1.8E+04	1.0E+03	1.0E+03	
				Endrin Ketone	1700	ug/kg	W1W2			1.8E+04	1.0E+03	1.0E+03	
				Isodrin	58	ug/kg	E		3.3E+00				
	0A07-076	AUS-0A07-076-SS-0X	0-0.5 ft	Aluminum	12400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A07-238, 0A07-239, and 0A07-244. Proposed soil boring 0A07-304 to verify cPAH exceedance.
				cPAHs	1386.6	ug/kg	H			2.1E+02			
				Chromium, Total	20.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A07-076-SS-02	2 ft	Dieldrin	9.7	ug/kg	EW1W2		2.4E+00	1.1E+02	4.0E+00	4.0E+00	Proposed soil borings 0A07-238, 0A07-239, and 0A07-244. Sample groundwater from monitoring well 0A07-W09 to determine if higher pesticide concentrations detected at 0A07-073 have impacted groundwater.
	0A07-081	AUS-0A07-081-SD-02	2 ft										
	0A07-162	AUS-0A07-162-SS-0X	0-0.5 ft	Aluminum	11000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Chromium detected at 95% UTL of background. Existing PA/SI soil sample 0A07-011. Proposed soil boring 0A07-265.
				cPAHs	462.14	ug/kg	H			2.1E+02			
				Chromium, Total	14	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0A07-163	AUS-0A07-163-SS-02	2 ft										
	0A07-164	AUS-0A07-164-SS-06	6 ft										
	0A07-165	AUS-0A07-165-SS-0X	0-0.5 ft	Aluminum	10000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Chromium detected at 95% UTL of background. Existing PA/SI soil sample 0A07-011. Proposed soil boring 0A07-265. Proposed soil boring 0A07-290 to verify cPAH exceedance.
				Chromium, Total	14	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0A07-166	AUS-0A07-166-SS-03	3 ft										
	0A07-167	AUS-0A07-167-SS-0X	0-0.5 ft	Aluminum	12000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Chromium detected slightly exceeding the 95% UTL of background. Existing PA/SI soil sample 0A07-011. Proposed soil boring 0A07-265.
				Chromium, Total	15	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0A07-168	AUS-0A07-168-SS-03	3 ft										
	0A07-169	AUS-0A07-169-SS-02	2 ft										
	0A07-170	AUS-0A07-170-SS-02	2 ft										
AUS-0A8S	0A8S-004	AUS-0A8S-004-SD-0X	0-0.5 ft										
	0A8S-005	AUS-0A8S-005-SS-0X	0-0.5 ft										
		AUS-0A8S-005-SS-02	2 ft										
	0A8S-007	AUS-0A8S-007-SD-0X	0-0.5 ft										
		AUS-0A8S-007-SD-02	2 ft										
	0A8S-008	AUS-0A8S-008-SS-0X	0-0.5 ft										
		AUS-0A8S-008-SS-02	2 ft										
	0A8S-009	AUS-0A8S-009-SS-0X	0-0.5 ft										
		AUS-0A8S-009-SS-02	2 ft										
	0A8S-010	AUS-0A8S-010-SS-0X	0-0.5 ft										
		AUS-0A8S-010-SS-02	2 ft										
		AUS-0A8S-010-SS-05	5 ft										
	0A8S-013	AUS-0A8S-013-SS-0X	0-0.5 ft										
		AUS-0A8S-013-SS-02	2 ft										
	0A8S-014	AUS-0A8S-014-SS-0X	0-0.5 ft										
		AUS-0A8S-014-SS-02	2 ft										
	0A8S-015	AUS-0A8S-015-SD-0X	0-0.5 ft										
		AUS-0A8S-015-SD-03	3 ft										
	0A8S-016	AUS-0A8S-016-SS-0X	0-0.5 ft										
		AUS-0A8S-016-SS-02	2 ft										
	0A8S-017	AUS-0A8S-017-SD-0X	0-0.5 ft	Aluminum	9910	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location. EPF states that the direct exposure screening criteria for phthalates is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC. Sample groundwater from monitoring well 0A8S-W07 to detemine if the groundwater has been impacted by explosives. Proposed soil boring 0A8S-072 to verify cPAH exceedance.
				2,4-Dinitrotoluene	610	ug/kg	EW1W2		3.3E+01	2.5E+03	7.0E-01	7.0E-01	
				cPAHs	340.754	ug/kg	H			2.1E+02			
				Di-n-butyl phthalate	750	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
	0A8S-018	AUS-0A8S-018-SS-0X	0-0.5 ft										
		AUS-0A8S-018-SS-02	2 ft										
	0A8S-019	AUS-0A8S-019-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	1400	ug/kg	EW1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A8S-040, 0A8S-044, and 0A83-047. Sample groundwater from monitoring well 0A8S-W08 to detemine if the groundwater has been impacted by explosives. Soil samples collected from the 0-0.5 and 0.5-2 foot depth intervals during advancement of monitoring well 0A8S-W08 will be analyzed for SVOCs to confirm the Di-n-butyl phthalate results.
				2,6-Dinitrotoluene	100	ug/kg	EW1W2		3.3E+01	2.5E+03	7.0E-01	7.0E-01	
				Copper	33.2	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Di-n-butyl phthalate	2200	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A8S (continued)	0A8S-019	AUS-0A8S-019-SS-02	2 ft										
	0A8S-020	AUS-0A8S-020-SS-0X	0-0.5 ft										
	0A8S-021	AUS-0A8S-021-SS-0X	0-0.5 ft	Aluminum	9780	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
		AUS-0A8S-021-SS-02	2 ft										
	0A8S-022	AUS-0A8S-022-SD-0X	0-0.5 ft										
	0A8S-025	AUS-0A8S-025-SS-0X	0-0.5 ft										
		AUS-0A8S-025-SS-02	2 ft										
	0A8S-026	AUS-0A8S-026-SS-0X	0-0.5 ft	Benzyl Butyl Phthalate	290	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	EPF states that the direct exposure screening criteria for phthalates is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.
		AUS-0A8S-026-SS-02	2 ft										
	0A8S-027	AUS-0A8S-027-SS-0X	0-0.5 ft	Thallium	1.9	mg/kg	E	5.1E-01	1.0E+00	6.7E+00		2.6E+00	Existing PA/SI soil samples 0A8S-025, 0A8S-026, and 0A8S-W02.
		AUS-0A8S-027-SS-02	2 ft										
	0A8S-028	AUS-0A8S-028-SD-0X	0-0.5 ft	Cadmium	1.2	ug/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A8S-044, 0A8S-045, 0A83-046, and 0A8S-047.
	0A8S-029	AUS-0A8S-029-SS-0X	0-0.5 ft										
		AUS-0A8S-029-SS-02	2 ft										
	0A8S-031	AUS-0A8S-031-SS-05	5 ft										
		AUS-0A8S-031-SS-08	8 ft										
	0A8S-W01	AUS-0A8S-W01-SS-0X	0-0.5 ft										
		AUS-0A8S-W01-SS-05	5 ft										
		AUS-0A8S-W01-SS-18	18 ft										
	0A8S-W02	AUS-0A8S-W02-SS-0X	0-0.5 ft	Aluminum	10600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
		AUS-0A8S-W02-SS-05	5 ft										
		AUS-0A8S-W02-SS-23	23 ft										
	0A8S-W03	AUS-0A8S-W03-SS-0X	0-0.5 ft	Cadmium	0.45	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A8S-041, 0A8S-042, and 0A83-043.
				Cobalt	20.4	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Manganese	6940	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
				Selenium	3.8	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Zinc	175	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A8S-W03-SS-05	5 ft										
		AUS-0A8S-W03-SS-21	21 ft										
	0A8S-W04	AUS-0A8S-W04-SS-0X	0-0.5 ft	Boron	5.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings 0A8S-059, 0A8S-064, and 0A8S-065.
		AUS-0A8S-W04-SS-05	5 ft										
		AUS-0A8S-W04-SS-19	19 ft										
	0A8S-W05	AUS-0A8S-W05-SS-0X	0-0.5 ft										
		AUS-0A8S-W05-SS-05	5 ft										
		AUS-0A8S-W05-SS-29	29 ft										
	0A8S-W06	AUS-0A8S-W06-SS-12	12 ft										
		AUS-0A8S-W06-SS-18	18 ft										
		AUS-0A8S-W06-SS-24	24 ft										
AUS-0A09	0A09-001	AUS-0A09-001-SS-0X	0-0.5 ft										
		AUS-0A09-001-SS-02	2 ft										
	0A09-002	AUS-0A09-002-SS-0X	0-0.5 ft										
		AUS-0A09-002-SS-02	2 ft										
	0A09-003	AUS-0A09-003-SS-0X	0-0.5 ft	Cadmium	0.48	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil boringns 0A09-022 and 0A09-050.
				Zinc	253	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A09-003-SS-02	2 ft										
	0A09-005	AUS-0A09-005-SS-0X	0-0.5 ft	Cadmium	2.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A09-024, 0A09-025, and 0A09-026.
				Zinc	175	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
				Benzyl Butyl Phthalate	2000	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				Bis (2-Ethylhexyl) Phthalate	1600	ug/kg	E		9.3E+02	1.2E+05	0.0E+00	3.6E+06	
		AUS-0A09-005-SS-02	2 ft										
	0A09-006	AUS-0A09-006-SD-0X	0-0.5 ft	Aluminum	12000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A09-023 and 0A09-025. Sample groundwater from monitoring well 0A09-W04 to determine if groundwater has been impacted by metals with soil concentrations exceeding the STG screening criteria. EPF states that toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC
				Arsenic	15	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzyl Butyl Phthalate	1400	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				Cadmium	1.2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	15.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	51.6	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Mercury	0.54	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Silver	59.4	mg/kg	EW1W2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	806	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A09-006-SD-02	2 ft										
	0A09-007	AUS-0A09-007-SD-0X	0-0.5 ft										
		AUS-0A09-007-SD-02	2 ft										
	0A09-008	AUS-0A09-008-SS-0X	0-0.5 ft	Boron	18.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil sample 0A09-009. Proposed soil borinngs 0A09-040 and 0A09-041.
				Chromium, Total	14	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A09-008-SS-02	2 ft										
		AUS-0A09-008-SS-05	5 ft										
	0A09-009	AUS-0A09-009-SS-0X	0-0.5 ft	Boron	5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Boron concentration only slightly exceeds the 95% UTL soil background value. Exceedance will be addressed in Phase II investigation.
		AUS-0A09-009-SS-02	2 ft										
	0A09-010	AUS-0A09-010-SS-0X	0-0.5 ft										
		AUS-0A09-010-SS-02	2 ft										

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A09 (continued)	0A09-011	AUS-0A09-011-SS-0X	0-0.5 ft	Cadmium	2.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A09-029, 0A09-030, and 0A09-031.
				Copper	71.1	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
		AUS-0A09-011-SS-02	2 ft										
	0A09-012	AUS-0A09-012-SD-0X	0-0.5 ft	2,4-Dinitrotoluene	2100	ug/kg	EW1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A09-032, 0A09-033, and 0A09-034. Sample groundwater from monitoring well 0A09-W02 to determine if groundwater has been impacted by explosives.
				Arsenic	25.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Cadmium	1.4	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	37.9	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Manganese	2470	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
				Zinc	131	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A09-012-SD-02	2 ft										
	0A09-013	AUS-0A09-013-SS-0X	0-0.5 ft										
		AUS-0A09-013-SS-02	2 ft										
	0A09-014	AUS-0A09-014-SS-0X	0-0.5 ft										
		AUS-0A09-014-SS-02	2 ft										
	0A09-015	AUS-0A09-015-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	860	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A09-035, 0A09-036, and 0A09-037. Sample groundwater from monitoring well 0A09-W03 to dermine if groundwater has been impacted by explosives.
				Aluminum	11300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Cadmium	3.8	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	25.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	296	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Mercury	0.41	mg/kg	E	2.6E-01	1.5E-01	3.1E+01		8.9E-01	
				Zinc	1330	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A09-015-SS-02	2 ft										
	0A09-016	AUS-0A09-016-SD-0X	0-0.5 ft	Cadmium	0.36	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A09-017. Proposed soil borings 0A09-038 and 0A09-039.
				Zinc	147	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A09-016-SD-02	2 ft										
	0A09-017	AUS-0A09-017-SD-0X	0-0.5 ft	Aluminum	14300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0A09-016 and 0A09-018. Proposed soil borings 0A09-038, 0A09-039, 0A09-054, and 0A09-056.
				Chromium, Total	19.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	19900	mg/kg	E						
				Zinc	198	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A09-017-SD-02	2 ft										
	0A09-018	AUS-0A09-018-SD-0X	0-0.5 ft	Aluminum	13800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A09-017. Proposed soil borings 0A09-054, 0A09-055, and 0A09-056.
				Chromium, Total	18.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A09-018-SD-02	2 ft										
	0A09-019	AUS-0A09-019-SD-0X	0-0.5 ft	Aluminum	14500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A09-060, 0A09-061, and 0A09-062.
				Chromium, Total	18.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A09-019-SD-02	2 ft										
	0A09-020	AUS-0A09-020-SD-0X	0-0.5 ft	Aluminum	9850	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A09-057, 0A09-058, and 0A09-059.
				Chromium, Total	14	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A09-020-SD-02	2 ft										
	0A09-021	AUS-0A09-021-SD-02	2 ft										
	0A09-W01	AUS-0A09-W01-SS-0X	0-0.5 ft	Chromium, Total	54.1	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil sample 0A09-002. Proposed soil borings 0A09-027 and 0A09-028. A groundwater samples was collected from 0A09-W01 during the PA/SI was reported to contain low concentrations of metals below the groundwater screening values. Therefore, if does not appear that Chromium reported in soils exceeding the STG criteria have impacted groundwater.
				Silver	3	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
		AUS-0A09-W01-SS-05	5 ft										
		AUS-0A09-W01-SS-22.5	22.5 ft										
AUS-0A10	0A10-001	AUS-0A10-001-SS-0X	0-0.5 ft	Barium	14100	mg/kg	EHW1W2	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	Proposed soil borings 0A10-015, 0A10-016, 0A10-017, and 0A10-018. The soil sample collected at a depth of 6 feet had Barium and Silver concentrations below STG criteria; therefore, it does not appear that groundwater has been impacted by these constituents.
				Boron	513	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium	31.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	107	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Nickel	81	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Silver	39.5	mg/kg	EW1W2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
		AUS-0A10-001-SS-02	2 ft										
		AUS-0A10-001-SS-05	5 ft										
		AUS-0A10-001-SS-06	6 ft	Chromium	14.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 6 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
	0A10-002	AUS-0A10-002-SS-0X	0-0.5 ft	Barium	1780	mg/kg	EW1W2	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	Proposed soil borings 0A10-016, 0A10-019, 0A10-020, and 0A10-021. Sample groundwater from proposed monitoring well 0A10-W01 to determine if constituents detected in soil exceeding the STG criteria have impacted groundwater.
				Boron	192	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.9	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	30.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	517	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Silver	8.8	mg/kg	EW2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	362	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A10-002	AUS-0A10-002-SD-02	2 ft										
	0A10-002	AUS-0A10-002-SS-05	5 ft	Trichloroethene (TCE)	230	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	Proposed soil borings 0A10-016, 0A10-019, 0A10-020, and 0A10-021. Sample groundwater from proposed monitoring well 0A10-W01 to determine if constituents detected in soil exceeding the STG criteria have impacted groundwater.

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A10 (continued)	0A10-002	AUS-0A10-002-SS-07	7 ft	Aluminum	9210	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 7 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium, Total	16.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0A10-003	AUS-0A10-003-SD-0X	0-0.5 ft				E						
AUS-A11A	A11A-009	AUS-A11A-009-SD-02	2 ft										
	A11A-012	AUS-A11A-012-SS-02	2 ft										
	A11A-013	AUS-A11A-013-SL	0-0.5 ft	cPAHs	508.266	ug/kg	H			2.1E+02			Existing soil sample A11A-012 and sediment samples A11A-011, A11A-014, and A11A-035. Proposed soil boring A11A-069.
				Zinc	198	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11A-015	AUS-A11A-015-SS-0X	0-0.5 ft	Boron	9.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil samples A11A-012 and A11A-018. Proposed soil boring A11A-068.
				Cadmium	0.46	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	13.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11A-018	AUS-A11A-018-SS-0X	0-0.5 ft	Aluminum	10300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples A11A-015 , A11H-059, and A11H-060. Proposed soil boring A11A-063.
				Cadmium	0.37	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	14.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-A11A-018-SS-02	2 ft										
	A11A-019	AUS-A11A-019-SS-0X	0-0.5 ft	Cadmium	0.4	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample A11A-020. Proposed soil borings A11A-051, A11A-052, and A11A-053.
	A11A-020	AUS-A11A-020-SS-02	2 ft	Cadmium	1.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample A11A-019. Proposed soil borings A11A-050, A11A-054, and A11A-055. Sample groundwater from monitoring well A11A-W03 to see if higher Chromium concentrations detected at A11A-030 have impacted groundwater. Surface water sample A11A-032 is located approximately 100 feet downgradient of A11A-020 did not contain detectable Chromium.
				Chromium, Total	68.1	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Zinc	362	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-A11A-020-SS-05	5 ft	Aluminum	11800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations. Sample groundwater from monitoring well A11A-W03 to see if higher Chromium concentrations detected at A11A-030 have impacted groundwater. Surface water sample A11A-032 is located approximately 100 feet downgradient of A11A-020 did not contain detectable Chromium.
				Chromium, Total	38.8	mg/kg	EW1	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Zinc	153	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11A-025	AUS-A11A-025-SS-0X	0-0.5 ft	Aluminum	14900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11A-W02. Proposed soil borings A11A-046 and A11A-061.
				Chromium, Total	18.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	19900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11A-025-SS-02	2 ft										
	A11A-027	AUS-A11A-027-SS-0X	0-0.5 ft	Chromium, Total	15	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Chromium concentration only slightly exceeds the soil 95% UTL of background value. Proposed soil borings A11A-043 and A11A-058.
		AUS-A11A-027-SS-02	2 ft										
	A11A-030	AUS-A11A-030-SS-0X	0-0.5 ft	Chromium, Total	79.2	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Proposed soil borings A11A-043, A11A-056, A11A-057, and A11A-058. Sample groundwater from monitoring well A11A-W03 to determine if chromium detected in soil has impacted groundwater.
	A11A-036	AUS-A11A-036-SD-02	2 ft										
	A11A-037	AUS-A11A-037-SD-02	2 ft										
	A11A-W01	AUS-A11A-W01-SS-OX	0-0.5 ft										
		AUS-A11A-W01-SS-02	2 ft										
		AUS-A11A-W01-SS-05	5 ft	Aluminum	10500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location. Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
		AUS-A11A-W01-SS-20	20 ft	Chromium, Total	15.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 20 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Iron	23500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11A-W02	AUS-A11A-W02-SS-02	2 ft										
		AUS-A11A-W02-SS-05	5 ft										
		AUS-A11A-W02-SS-19	19 ft										
AUS-A11H	A11H-001	AUS-A11H-001-SS-0X	0-0.5 ft										
		AUS-A11H-001-SS-02	2 ft										
	A11H-004	AUS-A11H-004-SS-0X	0-0.5 ft										

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11H (continued)	A11H-004	AUS-A11H-004-SS-02	2 ft										
	A11H-006	AUS-A11H-006-SS-0X	0-0.5 ft	Chromium, Total	15.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil sample A11H-053. Proposed soil borings A11H--098 and A11H-111.
	A11H-013	AUS-A11H-013-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	500	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil boring A11H-081. Sample groundwater from monitoring well A11H-W02 to determine if explosives detected in the soil sample exceeding the STG criteria have impacted groundwater.
				cPAH	438.714	ug/kg	H		2.1E+02				
				Nitroglycerin	16000	ug/kg	W2			9.2E+04		2.0E+01	
				Di-n-butyl phthalate	2100	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
	A11H-015	AUS-A11H-015-SS-0X	0-0.5 ft	Aluminum	10100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11H-081, A11H-106, and A11H-107.
				Chromium, Total	15.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11H-016	AUS-A11H-016-SS-02	2 ft	Aluminum	11000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11H-107 and A11H-108.
				Chromium, Total	15.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11H-016-SS-05	5 ft										
	A11H-021	AUS-A11H-021-SS-05	5 ft	Aluminum	9310	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Arsenic	14.6	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Iron	25100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11H-021-SS-07	7 ft	Aluminum	9460	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 7 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Arsenic	13.8	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Chromium, Total	15.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	35000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
	A11H-023	AUS-A11H-023-SD-01	1 ft										
	A11H-024	AUS-A11H-024-SD-0X	0-0.5 ft	Nitroglycerin	11000	ug/kg	W2			9.2E+04		2.0E+01	Sample groundwater from monitoring well A11H-W09 to determine if explosive concentrations detected at concentrations greater than the STG criteria have impacted groundwater.
				RDX	1300	ug/kg	W2		1.0E+05	1.6E+04		3.6E+02	
	A11H-027	AUS-A11H-027-SS-0X	0-0.5 ft	Aluminum	9360	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11H-028. Proposed soil borings A11H-083, A11H-084, and A11H-085.
				Boron	8.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium, Total	13.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Zinc	374	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-A11H-027-SS-01	1 ft				E						
	A11H-028	AUS-A11H-028-SS-0X	0-0.5 ft	Aluminum	9080	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11H-027. Proposed soil borings A11H-083, A11H-085, and A11H-086. Proposed soil boring A11H-082 to reverify pentachlorphenol detection and cPAH exceedance. Sample groundwater from monitoring well A11H-W04 to determine if constituents detected in soil at concentrations exceeding STG criteria have impacted groundwater.
				Antimony	5.8	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				cPAH	322.347	ug/kg	H		2.1E+02				
				Chromium, Total	15.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Pentachlorophenol	130	ug/kg	EW1W2		1.2E+02	9.0E+03	3.0E+01	4.0E+01	
				Zinc	228	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-A11H-028-SS-02	2 ft	Tetrachloroethylene	150	ug/kg	W1W2		1.3E+04	1.3E+03	6.0E+01	6.0E+01	Sample groundwater from monitoring well A11H-W04 to determine if constituents detected in soil at concentrations exceeding STG criteria have impacted groundwater.
		AUS-A11H-028-SS-05	5 ft	Tetrachloroethylene	530	ug/kg	W1W2		1.3E+04	1.3E+03	6.0E+01	6.0E+01	Sample groundwater from monitoring well A11H-W04 to determine if constituents detected in soil at concentrations exceeding STG criteria have impacted groundwater.
				Trichloroethylene	92	ug/kg	W1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
	A11H-032	AUS-A11H-032-SS-02	2 ft	Aluminum	12500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment samples A11H-031 and A11H-033. Proposed soil borings A11H-075 and A11N-109.
				Chromium, Total	17.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	19600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11H-032-SS-05	5 ft	Aluminum	9480	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Iron	21800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11H-034	AUS-A11H-034-SS-02	2 ft										
		AUS-A11H-034-SS-05	5 ft										
	A11H-037	AUS-A11H-037-SS-02	2 ft										
		AUS-A11H-037-SS-05	5 ft										
	A11H-039	AUS-A11H-039-SS-02	2 ft	Aluminum	12000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample A11H-040. Proposed soil borings A11H-071 and A11H-110.
				Chromium, Total	18.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	21	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Iron	20300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Manganese	3450	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
		AUS-A11H-039-SS-05	5 ft	Aluminum	12100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample A11H-040. Proposed soil borings A11H-071 and A11H-110.
				Chromium, Total	18.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	20.1	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Iron	26700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Manganese	3030	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
	A11H-044	AUS-A11H-044-SS-02	2 ft										
		AUS-A11H-044-SS-05	5 ft										
	A11H-047	AUS-A11H-047-SS-02	2 ft	Aluminum	16500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11H-087, A11H-088, A11H-089, and A11H-090.
				Chromium, Total	22.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11H-047-SS-05	5 ft	Aluminum	15900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium, Total	22.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	25100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11H (continued)	A11H-049	AUS-A11H-049-SS-0X	0-0.5 ft	Aluminum	10600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment samples A11H-046, A11H-048, and A11H-050.
				Chromium, Total	15.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-A11H-049-SS-01	1 ft										
	A11H-052	AUS-A11H-052-SS-0X	0-0.5 ft	Aluminum	10100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment samples A11H-051 and A11N-009. Proposed soil boring A11N-055.
				Chromium, Total	15.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11H-053	AUS-A11H-053-SS-02	2 ft	4-Chloroaniline	1300	ug/kg	EW1W2		1.0E+03	2.5E+05	7.0E+02	7.0E+02	Proposed soil borings A11H-091, A11H-092, A11H-098, and A11H-099. Sample groundwater from monitoring well A11H-W03 to determine if groundwater has been impacted by constituents detected in the soil sample at concentrations exceedancing the STG critiera.
				Aluminum	12500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Antimony	6	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Benzo(a)pyrene	260	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Bis(2-ethylhexyl)phthalate	2000	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	5.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAH	602.6	ug/kg	H		2.1E+02				
				Cadmium	204	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	585	mg/kg	EHW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	123	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	29300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Mercury	2	mg/kg	EW2	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	35.6	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Silver	53.5	mg/kg	EW1W2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	345	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-056	AUS-A11H-056-SD-0X	0-0.5 ft										
	A11H-059	AUS-A11H-059-SS-0X	0-0.5 ft	Aluminum	15500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment samples A11H-057 and A11H-058. Proposed soil borings A11H-100 and A11H-112.
				Chromium, Total	18.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11H-060	AUS-A11H-060-SS-0X	0-0.5 ft	Aluminum	11300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11H-059 and sediment sample A11A-037. Proposed soil boring A11H-104.
				Chromium, Total	15.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-A11H-060-SS-01	1 ft										
	A11H-061	AUS-A11H-061-SS-0X	0-0.5 ft	Aluminum	9420	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
		AUS-A11H-061-SS-02	2 ft										
		AUS-A11H-061-SS-05	5 ft	Benzo(a)pyrene	380	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings A11H-100, A11H-101, A11H-104, and A11H-105.
				cPAH	675.6	ug/kg	H		2.1E+02				
				Cadmium	0.43	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
		AUS-A11H-061-SS-07	7 ft										
	A11H-063	AUS-A11H-063-SD-01	1 ft										
	A11H-065	AUS-A11H-065-SS-0X	0-0.5 ft	Aluminum	14600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample A11H-063. Proposed soil borings A11H-105 and A11H-113. Proposed soil boring A11H-131 to verify cPAH exceedance.
				cPAH	491.452	ug/kg	H		2.1E+02				
				Chromium, Total	18.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-A11H-065-SS-01	1 ft										
	A11H-066	AUS-A11H-066-SS-0X	0-0.5 ft										
		AUS-A11H-066-SS-02	2 ft										
	A11H-067	AUS-A11H-067-SS-0X	0-0.5 ft	Aluminum	13400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample A11H-005. Proposed soil boring A11H-114.
				Chromium, Total	16.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11H-068	AUS-A11H-068-SS-0X	0-0.5 ft	Aluminum	12700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
	A11H-W01	AUS-A11H-W01-SS-0X	0-0.5 ft										
		AUS-A11H-W01-SS-02	2 ft										
		AUS-A11H-W01-SS-05	5 ft	Aluminum	13000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
		AUS-A11H-W01-SS-18	18 ft										
AUS-A11N	A11N-002	AUS-A11N-002-SD-0X	0-0.5 ft	Aluminum	9640	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11N-035, A11N-036, A11N-037, and A11N-038.
				Cadmium	0.55	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
	A11N-004	AUS-A11N-004-SD-01	1 ft										
	A11N-007	AUS-A11N-007-SS-08	8 ft	Aluminum	9440	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 8 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Cadmium	0.57	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Iron	20000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11N-008	AUS-A11N-008-SS-0X	0-0.5 ft	Cadmium	0.36	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil samples A11N-005 and A11N-012 are located adjacent. Cadmium only slightly exceeds background.
	A11N-011	AUS-A11N-011-SS-08	8 ft										
	A11N-013	AUS-A11N-013-SS-0X	0-0.5 ft	Cadmium	0.93	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings A11N-039, A11N-040, A11N-041, and A11N-042.
				Chromium	17.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	23600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11N-016	AUS-A11N-016-SS-05	5 ft	Cadmium	0.62	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
	A11N-017	AUS-A11N-017-SS-03	3 ft	Cadmium	0.43	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00		Sample collected at depth of 3 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
	A11N-018	AUS-A11N-018-SS-0X	0-0.5 ft										
		AUS-A11N-018-SS-01	1 ft										

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11N (continued)	A11N-020	AUS-A11N-020-SS-02	2 ft	Cadmium	0.38	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample A11N-021 and sediment sample A11N-019. Proposed soil boring A11N-034 and sediment/surface water sample A011-019.
		AUS-A11N-020-SS-05	5 ft	Cadmium	0.37	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11N-021	AUS-A11N-021-SS-0X	0-0.5 ft	Cadmium	0.43	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil samples A11N-020. Proposed soil borings A11N-033 and A11N-060 and sediment/surface water sample A011-019.
		AUS-A11N-021-SS-01	1 ft										
	A11N-022	AUS-A11N-022-SS-0X	0-0.5 ft										
	A11N-023	AUS-A11N-023-SS-0X	0-0.5 ft										
	A11N-024	AUS-A11N-024-SD-0X	0-0.5 ft	Cadmium	0.37	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing sediment sample A11N-025. Proposed soil borings A11N-033, A11N-052, and A11N-060.
	A11N-026	AUS-A11N-026-SS-02	2 ft	Cadmium	0.45	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings A11N-048 and A11N-061.
	A11N-026	AUS-A11N-026-SS-03	3 ft	Cadmium	0.55	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Sample collected at depth of 3 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	16.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	41.5	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
	A11N-027	AUS-A11N-027-SS-0X	0-0.5 ft	Cadmium	0.6	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings A11N-045, A11N-046, A11N-047, and A11N-048.
	A11N-028	AUS-A11N-028-SS-0X	0-0.5 ft	Aluminum	14300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11N-049, A11N-050, A11N-051, and A11N-052.
				Cadmium	0.58	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	17	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11N-029	AUS-A11N-029-SS-0X	0-0.5 ft	Cadmium	0.43	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings A11N-062, A11N-063, and A11N-064.
	A11N-030	AUS-A11N-030-SS-05	5 ft	Chromium	14.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
		AUS-A11N-030-SS-10	10 ft										
	A11N-031	AUS-A11N-031-SS-03	3 ft										
		AUS-A11N-031-SS-08	8 ft										
AUS-A11P	A11A-002	AUS-A11A-002-SS-0X	0-0.5 ft	Bis (2-Ethylhexyl) Phthalate	1400	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	Proposed soil borings A11A-049, A11A-064, and A11A-065. EPF states that the direct exposure screening criteria for phthalates is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range.
				Boron	6	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	0.89	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
		AUS-A11A-002-SS-02	2 ft										
	A11A-004	AUS-A11A-004-SL	0-0.5 ft	Aluminum	24200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing sediment sample A11A-003. Proposed soil boring A11A-049.
				Benzo(a)pyrene	600	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzyl Butyl Phthalate	1700	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				Boron	7.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	1058.99	ug/kg	H			2.1E+02			
				Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	27.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	70.5	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Dibenz(A,H)Anthracene	260	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Iron	43300	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Zinc	147	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11P-001	AUS-A11P-001-SD-0X	0-0.5 ft	Aluminum	9390	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11P-043, A11P-061, A11P-062, A11P-063, and A11P-064.
				Benzo(a)pyrene	230	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	558.26	ug/kg	H			2.1E+02			
				Bis(2-ethylhexyl)Phthalate	4400	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	7.6	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Mercury	0.8	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
		AUS-A11P-001-SD-01	1 ft										
	A11P-002	AUS-A11P-002-SS-02	2 ft	Aluminum	16400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11P-041. Proposed soil samples A11P-071, A11P-072, A11P-073, and A11P-W03.
				Chromium	20.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11P-002-SS-05	5 ft	Aluminum	18000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	24.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	29000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11P-003	AUS-A11P-003-SS-0X	0-0.5 ft	Aluminum	15800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11P-041. Proposed soil samples A11P-071, A11P-072, A11P-073, and A11P-W03.
				Chromium	18.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11P-006	AUS-A11P-006-SD-0X	0-0.5 ft	Aluminum	13500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil samples A11P-044, A11P-045, A11P-046, and A11P-047.
				Arsenic	30.8	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Chromium	17.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	858	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11P-007	AUS-A11P-007-SS-0X	0-0.5 ft	Aluminum	19000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil samples A11P-047, A11P-048, and A11P-049.
				Arsenic	14	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Chromium	23.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	31400	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
	A11P-008	AUS-A11P-008-SS-0X	0-0.5 ft	Aluminum	14600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples A11P-009 and A11P-011. Proposed soil samples A11P-048 and A11P-049.
				Chromium	18.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11P-008-SS-01	1 ft										
	A11P-009	AUS-A11P-009-SS-0X	0-0.5 ft	Aluminum	13000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples A11P-008, A11P-011, and A11P-012. Proposed soil boring A11P-052.
				Chromium	15.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-009	AUS-A11P-009-SS-01	1 ft										
	A11P-011	AUS-A11P-011-SS-0X	0-0.5 ft	Aluminum	14400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples A11P-008, A11P-009, A11P-012, and A11P-W01. Existing sediment sample A11P-010.
				Chromium	18.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	23500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11P-012	AUS-A11P-012-SS-0X	0-0.5 ft	Aluminum	14500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples A11P-011 and A11P-018. Existing sediment sample A11P-010. Proposed soil boring A11P-066.
				Chromium	21.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11P-013	AUS-A11P-013-SD-0X	0-0.5 ft	Aluminum	12400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soiil sample A11P-014. Proposed soil borings A11P-050, A11P-051, and A11P-074.
				Chromium	16.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-014	AUS-A11P-014-SS-0X	0-0.5 ft	Aluminum	14200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11P-013. Proposed soil borings A11P-050, A11P-051, A11P-052, and A11P-069.
				Iron	24400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Chromium	24.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-015	AUS-A11P-015-SS-0X	0-0.5 ft	Aluminum	12200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11P-017. Proposed soil borings A11P-052, A11P-066, and A11P-075.
				Chromium	16.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-016	AUS-A11P-016-SS-0X	0-0.5 ft	Aluminum	10900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11P-017 and sediment sample A11P-019. Proposed soil borings A11P-065 and A11P-082.
				Chromium	14.9	mg/kg	E						

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11P (continued)	A11P-017	AUS-A11P-017-SS-0X	0-0.5 ft	Aluminum	11000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples A11P-015, A11P-016, A11P-018, and A11P-019.
				Chromium	15.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-018	AUS-A11P-018-SS-0X	0-0.5 ft	Aluminum	9750	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples A11P-012, A11P-017, and sediment sample A11P-019. Proposed soil borings A11P-081 and A11P-086.
				cPAHs	450.493	ug/kg	H			2.1E+02			
				Boron	5.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium	14.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-022	AUS-A11P-022-SS-0X	0-0.5 ft	Aluminum	16200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples A11P-015 and A11P-017 and sediment sample A11P-023. Proposed soil borings A11P-065 and A11P-075.
				Chromium	19.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11P-024	AUS-A11P-024-SS-0X	0-0.5 ft	Aluminum	12600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample A11P-026. Proposed soil borings A11P-076 and A11P-077. Proposed sediment sample 0A11-017.
				Chromium	18	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-028	AUS-A11P-028-SS-0X	0-0.5 ft	Aluminum	16400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11P-067, A11P-068, and A11P-078.
				Chromium	21.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11P-031	AUS-A11P-031-SS-0X	0-0.5 ft	Aluminum	14400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11P-053, A11P-054, A11P-055, and A11P-056. The concentration of mercury detected in the soil sample does not exceed the IEPA Class II aquifer classification standard. Therefore, this exceedance will be addressed in the Phase II investigation after the aquifer classification is determined in the event that the aquifer cannot be classified as an IEPA Class II aquifer.
				Chromium	17.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Mercury	1.3	mg/kg	EW2	2.8E-01	1.5E-01	3.1E+01	0.0E+00	8.9E-01	
	A11P-033	AUS-A11P-033-SS-0X	0-0.5 ft	Benzo(a)pyrene	760	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings A11P-057, A11P-058, A11P-059, and A11P-060.
				Benzo(B)Fluoranthene	1600	ug/kg	E		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				Dibenz(A,H)Anthracene	230	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				cPAHs	1283.2	ug/kg	H			2.1E+02			
				Mammal TEQ	0.96	ng/kg	E		8.1E-01	1.6E+01			
				Bird TEQ	1.28	ng/kg	E		8.1E-01	1.6E+01			
	A11P-034	AUS-A11P-034-SS-0X	0-0.5 ft										
	A11P-035	AUS-A11P-035-SS-04	4 ft	Aluminum	12300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	15.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-037	AUS-A11P-037-SS-0X	0-0.5 ft	Aluminum	11100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings A11P-078, A11P-079, A11P-080, and A11P-089.
				cPAHs	435.545	ug/kg	H			2.1E+02			
				Chromium	15.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-A11P-037-SS-01	1 ft										
	A11P-040	AUS-A11P-040-SD-0X	0-0.5 ft	Aluminum	20200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI samples A11P-002, A11P-003, A11P-005, and A11P-041. Proposed soil samples A11P-070 and A11P-044.
				Chromium	29.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	29800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Vanadium	51.2	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
	A11P-041	AUS-A11P-041-SD-0X	0-0.5 ft	Aluminum	12700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11P-002 and A11P-003. Proposed soil samples A11P-071, A11P-072, A11P-073, and A11P-W03.
				Arsenic	14.6	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Chromium	16.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11P-W01	AUS-A11P-W01-SS-0X	0-0.5 ft										
		AUS-A11P-W01-SS-01	1 ft										
		AUS-A11P-W01-SS-05	5 ft										
		AUS-A11P-W01-SS-13	13 ft	Iron	20000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Sample collected at depth of 13 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
AUS-A11S	A11S-004	AUS-A11S-004-SS-0X	0-0.5 ft	Boron	7.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil sample A11S-005. Proposed soil samples A11S-053, A11S-054, and A11S-058. Sample groundwater from monitoring well A11S-W07 to determine if constituents detected in soil at concentrations exceeding STG criteria have impacted groundwater.
				Cadmium	26.8	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	16.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Mercury	0.63	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Zinc	262	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
				Aluminum	9890	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
	A11S-005	AUS-A11S-005-SS-02	2 ft	Arsenic	19.1	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil sample A11S-004. Proposed soil borings A11S-055, A11S-056, and A11S-057. The concentration of thallium detected in the soil sample does not exceed the IEPA Class II aquifer classification standard. Therefore, this exceedance will be addressed in the Phase II investigation after the aquifer classification is determined in the event that the aquifer cannot be classified as an IEPA Class II aquifer.
				Cobalt	48.3	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Iron	22000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Manganese	8930	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
				Thallium	2.9	mg/kg	EW2	5.1E-01	1.0E+00	6.7E+00		2.6E+00	
				Vanadium	57.4	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
				Aluminum	9490	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
	A11S-014	AUS-A11S-014-SS-0X	0-0.5 ft	Cadmium	1.6	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil samples A11S-015, A11S-034, and A11S-W02. Proposed soil boring A11S-051.
				Chromium	26.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	32300	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Nickel	37.9	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	220	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-A11S-014-SS-02	2 ft										
	A11S-015	AUS-A11S-015-SS-02	2 ft	Boron	6	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil samples A11S-014, A11S-W02, and sediment sample A11S-016. Proposed soil boring A11S-083.
	A11S-017	AUS-A11S-017-SS-0X	0-0.5 ft	Arsenic	13.4	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil samples A11S-018 and sediment sample A11S-016. Proposed soil boring A11S-091.
				Chromium	19.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	23900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Aluminum	13400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
		AUS-A11S-017-SS-02	2 ft										
	A11S-018	AUS-A11S-018-SS-0X	0-0.5 ft	Chromium	26	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil samples A11S-017, A11S-033, A11S-038, and sediment sample A11S-019. Proposed soil boring A11S-082.
				Iron	25400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Aluminum	17500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
		AUS-A11S-018-SS-02	2 ft										
	A11S-020	AUS-A11S-020-SS-0X	0-0.5 ft	Chromium	26.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil samples A11S-021 and A11S-033. Existing PA/SI sediment sample A11S-006.
				Iron	22900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Aluminum	14600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
		AUS-A11S-020-SS-02	2 ft	Chromium	26.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil samples A11S-021 and A11S-033. Existing PA/SI sediment sample A11S-006.
				Iron	22900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11S (continued)	A11S-021	AUS-A11S-021-SS-0X	0-0.5 ft	Benzo(B)Fluoranthene	2100	ug/kg	E		1.2E+03	2.1E+03	5.0E+03	5.0E+03	Existing PA/SI soil samples A11S-020 and A11S-033. Proposed soil borings A11S-077, A11S-078, A11S-081, and A11S-082. Sample groundwater from proposed monitoring well A11S-W25 to determine if constituents detected in soil at concentrations exceeding STG criteria have impacted groundwater.
				cPAHs	1869.24	ug/kg	H			2.1E+02			
				Dibenz(A,H)Anthracene	280	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Mercury	5.1	mg/kg	EW2	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Benzo(a)pyrene	1200	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
		AUS-A11S-021-SS-02	2 ft										
	A11S-027	AUS-A11S-027-SS-0X	0-0.5 ft	Boron	41.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil sample A11S-037. Proposed soil borings A11S-064, A11S-065, A11S-066, and A11S-080. Sample groundwater from proposed monitoring well A11S-W11 to determine if constituents detected in soil at concentrations exceeding STG criteria have impacted groundwater. Proposed soil boring A11S-107 to verify cPAH exceedance.
				cPAHs	402.18	ug/kg	H			2.1E+02			
				Cadmium	1.5	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Iron	24700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Mercury	1.1	mg/kg	EW2	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	47	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	5.2	mg/kg	EW1	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Zinc	223	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
				2-Methylnaphthalene	2400	ug/kg	H		4.6E+04	1.9E+04	8.4E+04	7.7E+03	
				Arsenic	27.4	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
		AUS-A11S-027-SS-02	2 ft										
	A11S-031	AUS-A11S-031-SD-0X	0-0.5 ft	Boron	14.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI sediment sample A11S-022. Proposed soil borings A11S-049, A11S-059, A11S-063, and A11S-108.
				Cadmium	1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	366.844	ug/kg	H			2.1E+02			
				Chromium	17.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Mercury	0.85	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Zinc	263	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
				Aluminum	12100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
		AUS-A11S-031-SD-02	2 ft										
	A11S-032	AUS-A11S-032-SS-02	2 ft	Aluminum	20900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment samples A11S-009, A11S-010, and A11S-012 and soil sample A11S-048. Proposed sediment/surface water sample 0A11-031. Proposed soil boring A11S-109 to verify cPAH exceedance.
				Bis(2-ethylhexyl)Phthalate	1700	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	7.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	331.06	ug/kg	H			2.1E+02			
				Chromium	28.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	33000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Vanadium	47.5	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
				Zinc	129	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
				Aluminum	20900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
	A11S-033	AUS-A11S-033-SS-02	2 ft	Iron	23700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Existing PA/SI soil samples A11S-018, A11S-020, and A11S-021. Proposed soil boring A11S-082.
				Aluminum	13000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Boron	6.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium	20.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	A11S-034	AUS-A11S-034-SD-0X	0-0.5 ft	Iron	20200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Existing PA/SI soil samples A11S-014 and A11S-W02. Proposed soil borings A11S-051, A11S-075, and A11S-076.
				Zinc	442	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
				Boron	24.4	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	2.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
		AUS-A11S-034-SD-02	2 ft	Total 1,2-Dichloroethene	790	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	Existing PA/SI soil samples A11S-014 and A11S-W02. Proposed soil borings A11S-051, A11S-075, and A11S-076. VOCs were detected at high concentrations in soil and groundwater samples collected from the nearby monitoring well A11S-W02; therefore, exceedances of STG values for VOCs in this area will be investigated as part of groundwater investigation program.
				Trichloroethylene	580	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
				Cis-1,2-dichloroethylene	750	ug/kg	W1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	
	A11S-035	AUS-A11S-035-SS-0X	0-0.5 ft	Cobalt	110	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			Existing PA/SI sediment sample A11S-026. Proposed soil borings A11S-066, A11S-067, and A11S-068. Sample groundwater from proposed monitoring well A11S-W10 to determine if constituents detected in soil at concentrations exceeding STG criteria have impacted groundwater.
				Copper	39.5	mg/kg	E	9.4E+00	3.1E+01	4.1E+03			
				Iron	35900	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Manganese	2650	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
				Nickel	151	mg/kg	EW1W2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	685	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
				Aluminum	18800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Cadmium	16.5	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	21.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-A11S-035-SS-02	2 ft										
	A11S-036	AUS-A11S-036-SS-0X	0-0.5 ft	Napthalene	6200	ug/kg	H		4.6E+04	1.8E+03	8.4E+04	1.2E+04	Proposed soil borings A11S-066, A11S-069, and A11S-070. Exceedance of STG standard will be addressed in Phase II.
				2-Methylnaphthalene	11000	ug/kg	W2		4.6E+04	1.9E+04	8.4E+04	7.7E+03	
				Benzo(a)pyrene	350	ug/kg	H		3.3E+03	2.1E+02	8.0E+03		
				Boron	18.6	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	0.56	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00		
				cPAHs	627.91	ug/kg	H			2.1E+02			
	A11S-037	AUS-A11S-037-SS-0X	0-0.5 ft	Iron	20500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Proposed soil borings A11S-066, A11S-080, and A11S-093.
				Aluminum	14300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Chromium	22.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-A11S-037-SS-02	2 ft										
	A11S-038	AUS-A11S-038-SS-01	1 ft	Aluminum	11600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
	A11S-039	AUS-A11S-039-SS-01	1 ft	Benzo(a)pyrene	1300	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Existing PA/SI sediment sample A11S-022. Proposed soil borings A11S-060, A11S-061, and A11S-062.
				Benzo(B)Fluoranthene	2000	ug/kg	E		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				Boron	5.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	2115.4	ug/kg	H			2.1E+02			
				Dibenz(A,H)Anthracene	430	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
		AUS-A11S-039-SS-02	2 ft										
	A11S-040	AUS-A11S-040-SD-0X	0-0.5 ft	Aluminum	11200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample A11S-W04. Proposed soil borings A11S-052, A11S-074, A11S-075, and A11S-110.
				Arsenic	13.8	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Barium	513	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				cPAHs	282.002	ug/kg	H			2.1E+02			
				Cobalt	20.6	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Iron	23200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Manganese	5230	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
				Thallium	1.7	mg/kg	E	5.1E-01	1.0E+00	6.7E+00		2.6E+00	
				Chromium	18.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-A11S-040-SD-02	2 ft										
	A11S-045	AUS-A11S-045-SD-0X	0-0.5 ft	Aluminum	12300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample A11S-046. Proposed soil borings A11S-094, A11S-095, and A11S-113.
				cPAHs	398.28	ug/kg	H			2.1E+02			
				Chromium	16.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
AUS-A11S (continued)	A11S-045	AUS-A11S-045-SD-02	2 ft										
	A11S-047	AUS-A11S-047-SD-0X	0-0.5 ft	Boron	8.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings A11S-084, A11S-085, A11S-086, and A11S-114.
				Cadmium	3.5	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	299.828	ug/kg	H			2.1E+02			
				Di-n-butyl phthalate	1600	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
	A11S-048	AUS-A11S-048-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	74	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Existing PA/SI sediment sample A11S-011. Proposed soil borings A11S-075 and A11S-099. Sample groundwater from proposed monitoring well A11S-W05 to determine if explosives detected in the soil sample at concentrations exceeding the STG criteria have impacted groundwater.
				Boron	5.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Iron	25600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11S-048-SS-02	2 ft										
		AUS-A11S-W01-SS-0X	0-0.5 ft	Cadmium	0.47	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings A11S-058, A11S--96, A11S-097, and A11S-098.

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
	A11S-W01	AUS-A11S-W01-SS-02	2 ft										
		AUS-A11S-W01-SS-10	10 ft										
		AUS-A11S-W01-SS-20	20 ft	Aluminum	9640	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 20 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Boron	5.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium	14.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	38.2	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Nickel	32.4	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Iron	27800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	A11S-W02	AUS-A11S-W02-SS-0X	0-0.5 ft										
		AUS-A11S-W02-SS-02	2 ft	Cis-1,2-dichloroethylene	1100	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	VOCs were detected in the soil samples exceeded ecological, human health, and STG screening values. These constituents were also detected at high concentrations in the groundwater sample from the monitoring well at this location and will be investigated as part of the groundwater investigation.
				Total 1,2-Dichloroethene	1100	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	
				Trichloroethylene	11000	ug/kg	EHW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
		AUS-A11S-W02-SS-05	5 ft	1,1,2-Trichloroethane	53	ug/kg	W1W2		2.9E+04	1.6E+03	2.0E+01	2.0E+01	VOCs were detected in the soil samples exceeded ecological, human health, and STG screening values. These constituents were also detected at high concentrations in the groundwater sample from the monitoring well at this location and will be investigated as part of the groundwater investigation.
				Cis-1,2-dichloroethylene	1100	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	
				Total 1,2-Dichloroethene	1100	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	
				Trichloroethylene	21000	ug/kg	EHW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
		AUS-A11S-W02-SS-18	18 ft	Cis-1,2-dichloroethylene	1300	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	VOCs were detected in the soil samples exceeded ecological, human health, and STG screening values. These constituents were also detected at high concentrations in the groundwater sample from the monitoring well at this location and will be investigated as part of the groundwater investigation.
				Iron	20800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Total 1,2-Dichloroethene	1300	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	
				Trichloroethylene	20000	ug/kg	EHW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
	A11S-W03	AUS-A11S-W03-SS-12	12 ft										
		AUS-A11S-W03-SS-18	18 ft										
	A11S-W04	AUS-A11S-W04-SS-0X	0-0.5 ft	Boron	7.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings A11S-071, A11S-072, A11S-073, and A11S-074.
				Cadmium	3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	459.49	ug/kg	H			2.1E+02			
				Benzo(a)pyrene	280	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
		AUS-A11S-W04-SS-02	2 ft										
		AUS-A11S-W04-SS-05	5 ft	Aluminum	11100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Iron	21100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-A11S-W04-SS-16	16 ft	Iron	21200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Sample collected at depth of 16 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
AUS-0A12	0A12-002	AUS-0A12-002-SS-0X	0-0.5 ft	Boron	66.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI sediment samples 0A12-001 and 0A12-003. Proposed soil borings 0A12-103 and 0A12-104.
				Cadmium	0.97	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	13.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	266	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	508.9	ug/kg	H		2.1E+02				
				Iron	39000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Zinc	487	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-002-SS-02	2 ft	Tetrachloroethylene (PCE)	100	ug/kg	W1W2		1.3E+04	1.3E+03	6.0E+01	6.0E+01	Sample groundwater from monitoring well 0A12-W06 to determine if PCE detected in the soil sample at concentrations exceeding the STG critiera has impacted groundwater.
	0A12-004	AUS-0A12-004-SS-0X	0-0.5 ft	Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A12-135 and 0A12-156.
				Zinc	469	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-004-SS-02	2 ft										

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Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A12 (continued)	0A12-008	AUS-0A12-008-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	130	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A12-106, 0A12-109, and 0A12-147. Sample groundwater from monitoring well 0A12-W04 to determine if constituents detected in the soil sample at concentrations exceeding the STG critiera has impacted groundwater
				Arsenic	14.3	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(a)pyrene	370	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Boron	7.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	546.44	ug/kg	H		2.1E+02				
				Cadmium	0.52	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	22.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	53	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	29000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Di-n-butyl phthalate	1100	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Mercury	0.39	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				RDX	1600	ug/kg	W2		1.0E+05	1.6E+04		3.6E+02	
				Zinc	548	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-008-SS-02	2 ft	Cis-1,2-dichloroethylene	490	ug/kg	W1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02	Sample groundwater from monitoring well 0A12-W04 to determine if constituents detected in the soil sample at concentrations exceeding the STG critiera has impacted groundwater
				Tetrachloroethylene (PCE)	2200	mg/kg	W1W2		1.3E+04	1.3E+03	6.0E+01	6.0E+01	
		AUS-0A12-008-SS-03	3 ft	Boron	10.4	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings 0A12-106, 0A12-109, and 0A12-147. Sample groundwater from monitoring well 0A12-W04 to determine if constituents detected in the soil sample at concentrations exceeding the STG critiera has impacted groundwater .
				Tetrachloroethylene (PCE)	780	ug/kg	W1W2		1.3E+04	1.3E+03	6.0E+01	6.0E+01	
		AUS-0A12-008-SS-05	5 ft	Boron	11.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings 0A12-106, 0A12-109, and 0A12-147. Sample groundwater from monitoring well 0A12-W04 to determine if constituents detected in the soil sample at concentrations exceeding the STG critiera has impacted groundwater. Collect soil sample from 0A12-W04 to verify cPAH exceedance.
				Copper	107	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	480.165	ug/kg	H		2.1E+02				
				Tetrachloroethylene (PCE)	240	ug/kg	W1W2		1.3E+04	1.3E+03	6.0E+01	6.0E+01	
				Zinc	232	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-010	AUS-0A12-010-SS-0X	0-0.5 ft	Aluminum	9950	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A12-106, 0A12-107, and 0A12-108.
				Boron	12.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.9	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	176	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	267	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Silver	2.8	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	348	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-010-SS-02	2 ft										
		AUS-0A12-010-SS-03	3 ft										
	0A12-011	AUS-0A12-011-SS-03	3 ft	Antimony	76.4	mg/kg	EHW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	Proposed soil borings 0A12-147, 0A12-148, and 0A12-149. Sample groundwater from monitoring well 0A12-W03 to determine if constituents detected in the soil sample at concentrations exceeding the STG critiera has impacted groundwater. For the bis(2-ethylhexyl)phthalate exceedance, the EPF states that toxicity-based SCs for other phthalates are in hundreds of ppm range; retain as an uncertainty, but no quantitative evaluation as a COPEC.
				Benzo(a)pyrene	310	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Bis(2-ethylhexyl)Phthalate	9100	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Cadmium	1.2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	609.166	ug/kg	H		2.1E+02				
				Chromium	4010	mg/kg	EHW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	76	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Di-n-butyl phthalate	830	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Iron	33400	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	7270	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Nickel	53.3	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	330	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-013	AUS-0A12-013-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	490	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A12-110, 0A12-111, 0A12-149, 0A12-150, and 0A12-151. Explosive concentrations in soil exceeds STG standard; however, samples from lower depths were non-detect for explosives. Additionally, none of the explosives exceeding the STG criteria in the soil sample were detected in the groundwater sample collected from the trench at this location AUS-0A12-013-GW with the exception of RDX; therefore, this exceedance will be addressed in Phase II. Proposed soil boring 0A12-215 to verify cPAH exceedance.
				2,6-Dinitrotoluene	92	ug/kg	EW1W2		3.3E+01	2.5E+03	7.0E-01	7.0E-01	
				Barium	658	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				cPAHs	471.386	ug/kg	H		2.1E+02				
				Cadmium	1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	65.2	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Di-n-butyl phthalate	940	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Lead	3330	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				RDX	6000	ug/kg	W2		1.0E+05	1.6E+04		3.6E+02	
				Zinc	312	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-013-SS-02	2 ft										
		AUS-0A12-013-SS-03	3 ft										
		AUS-0A12-013-SS-05	5 ft	Aluminum	9150	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A12-110, 0A12-111, 0A12-149, 0A12-150, and 0A12-151.
				Cobalt	21.1	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Manganese	4080	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
	0A12-015	AUS-0A12-015-SS-0X	0-0.5 ft	2,4,6-Trinitrotoluene	930	ug/kg	W2		3.0E+04	5.7E+04		7.7E+01	Proposed soil borings 0A112-116, 0A12-117, 0A12-118, and 0A12-119. Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location. Explosive concentrations in soil exceeds STG standard; however, samples from lower depths were non-detect for explosives. Additionally, none of the explosives exceeding the STG criteria in the soil sample were detected in the groundwater sample collected from the trench at this location AUS-0A12-015-GW at concentrations exceeding the groundwater screening criteria with the exception of RDX which will be addressed in Phase II.
				Aluminum	9890	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				HMX	39000	ug/kg	EW2		2.5E+04	3.1E+06		5.7E+03	
				RDX	17000	ug/kg	HW2		1.0E+05	1.6E+04		3.6E+02	
		AUS-0A12-015-SS-01	1 ft										

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A12 (continued)		AUS-0A12-015-SS-05	5 ft	Aluminum	14000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	16.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Thallium	1.8	mg/kg	E	5.1E-01	1.0E+00	6.7E+00		2.6E+00	
		AUS-0A12-015-SS-11	11 ft										
	0A12-018	AUS-0A12-018-SS-0X	0-0.5 ft	Aluminum	10500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A12-204, 0A12-205, 0A12-206, and 0A12-207. Aluminum is an essential nutrient and has limited toxicity data.
				Naphthalene	2500	ug/kg	H		4.6E+04	1.8E+03	8.4E+04	1.2E+04	
		AUS-0A12-018-SS-01	1 ft										
		AUS-0A12-018-SS-05	5 ft										
		AUS-0A12-018-SS-08	8 ft										
	0A12-019	AUS-0A12-019-SD-0X	0-0.5 ft	Boron	8.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings 0A12-157 and 0A12-158.
				Cadmium	0.59	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
	0A12-019	AUS-0A12-019-SD-02	2 ft										
	0A12-022	AUS-0A12-022-SS-0X	0-0.5 ft										
	0A12-023	AUS-0A12-023-SS-0X	0-0.5 ft	Cadmium	0.38	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A12-165 and 0A12-166.
	0A12-023	AUS-0A12-023-SS-02	2 ft										
	0A12-026	AUS-0A12-026-SD-0X	0-0.5 ft	cPAHs	352.14	ug/kg	H		2.1E+02				Existing PA/SI soil sample 0A12-033. Proposed soil borings 0A12-159 and 0A12-160.
				Cadmium	0.88	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil boring 0A12-216 to verify cPAH exceedance.
	0A12-026	AUS-0A12-026-SD-02	2 ft										
	0A12-027	AUS-0A12-027-SS-0X	0-0.5 ft	Cadmium	0.38	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A12-028. Proposed soil borings 0A12-133 and 0A12-159.
	0A12-027	AUS-0A12-027-SS-02	2 ft										
	0A12-028	AUS-0A12-028-SS-0X	0-0.5 ft	cPAHs	517.395	ug/kg	H		2.1E+02				Existing PA/SI samples 0A12-027, 0A12-029, and 0A12-030. Proposed soil boring 0A12-159. Proposed soil boring 0A12-218 to verify cPAH exceedance.
				Cadmium	1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
	0A12-028	AUS-0A12-028-SS-02	2 ft										
	0A12-029	AUS-0A12-029-SS-0X	0-0.5 ft	Benzo(a)pyrene	230	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Existing PA/SI samples 0A12-028, 0A12-030, and 0A12-031.
				cPAHs	504.23	ug/kg	H		2.1E+02				
				Boron	8.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	0.78	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Zinc	196	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-029-SS-02	2 ft										
		AUS-0A12-029-SS-05	5 ft	Aluminum	9270	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	15	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A12-029-SS-12	12 ft	Iron	27000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Sample collected at depth of 12 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
	0A12-031	AUS-0A12-031-SS-0X	0-0.5 ft	Cadmium	0.78	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI samples 0A12-029 and 0A12-030. Proposed soil borings 0A12-132, 0A12-133, and 0A12-W05. Sample groundwater from proposed monitoring well 0A12-W05 to determine if pentachlorophenol detected in the soil sample at a concentration exceeding the STG critiera has impacted groundwater. Proposed soil boring 0A12-218 to verify cPAH exceedance.
				cPAHs	473.591	ug/kg	H		2.1E+02				
				Pentachlorophenol	1500	ug/kg	EW1W2		1.2E+02	9.0E+03	3.0E+01	4.0E+01	
		AUS-0A12-031-SS-02	2 ft										
	0A12-032	AUS-0A12-032-SS-0X	0-0.5 ft	2,4,6-Trinitrotoluene	1500	ug/kg	W2		3.0E+04	5.7E+04		7.7E+01	Proposed soil borings 0A12-120, 0A12-121, and 0A12-136. Sample groundwater from proposed monitoring well 0A12-W13 to determine if explosives detected in the soil sample at a concentration exceeding the STG critiera has impacted groundwater.
				4-Amino-4,6-Dinitrotolune	4600	ug/kg	W2		8.0E+04	1.2E+04		3.1E+01	
				2-Methylnaphthalene	8900	ug/kg	W2		4.6E+04	1.9E+04	8.4E+04	7.7E+03	
				4-Nitrotoluene	6100	ug/kg	W2			3.0E+04		9.2E+02	
				Arsenic	21.9	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(a)pyrene	590	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	843.9	ug/kg	H		2.1E+02				
				Boron	50.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	4.4	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				HMX	7000	ug/kg	W2						
				Naphthalene	3900	ug/kg	H		4.6E+04	1.8E+03	8.4E+04	1.2E+04	
				RDX	3500	ug/kg	W2		1.0E+05	1.6E+04		3.6E+02	
				Zinc	754	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-032-SS-02	2 ft										
	0A12-033	AUS-0A12-033-SS-0X	0-0.5 ft	Cadmium	0.74	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil samples 0A12-026 and 0A12-032. Proposed soil borings 0A12-121 and 0A12-136. Proposed soil boring 0A12-219 to verify cPAH exceedance.
				cPAHs	330.13	ug/kg	H		2.1E+02				
				Zinc	149	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-033-SS-02	2 ft										
	0A12-034	AUS-0A12-034-SS-02	2 ft										
		AUS-0A12-034-SS-05	5 ft	Aluminum	22900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	25.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A12 (continued)	0A12-035	AUS-0A12-035-SS-0X	0-0.5 ft	Aluminum	9500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI samples 0A12-034, 0A12-037, and 0A12-046. Proposed soil boring 0A12-220 to verify cPAH exceedance.
				cPAHs	457.302	ug/kg	H		2.1E+02				
				Iron	19700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A12-035-SS-02	2 ft										
		AUS-0A12-035-SS-05	5 ft	Aluminum	9650	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
		AUS-0A12-035-SS-13	13 ft	Chromium	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 13 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Iron	30000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A12-036	AUS-0A12-036-SS-0X	0-0.5 ft	Cadmium	0.5	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A12-034. Proposed soil borings 0A12-120 annd 0A12-162.
	0A12-037	AUS-0A12-037-SS-0X	0-0.5 ft	Aluminum	11800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0A12-035, 0A12-038, and 0A12-046. Proposed sediment/surface water sample 0A12-201.
				Cadmium	0.44	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	14.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A12-037-SS-02	2 ft										
	0A12-038	AUS-0A12-038-SD-0X	0-0.5 ft	Arsenic	13.3	mg/kg	E	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil sample 0A12-037. Proposed soil borings 0A12-152 and 0A12-161. Deeper boring 0A12-164 proposed adjacent to 0A2B-002 to determine vertical extent of explosives exceeding STG criteria. Proposed soil boring 0A12-164 to verify cPAH exceedance.
				Boron	14.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	2.7	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	354.61	ug/kg	H		2.1E+02				
				RDX	4900	ug/kg	W2		1.0E+05	1.6E+04		3.6E+02	
				Zinc	267	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-039	AUS-0A12-039-SS-0X	0-0.5 ft	Arsenic	26.1	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A12-137, 0A12-138, 0A12-152, and 0A12-153.
				Boron	20.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	3.4	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Iron	36300	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Zinc	345	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-040	AUS-0A12-040-SS-0X	0-0.5 ft	Aluminum	11400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A12-138 and 0A12-167.
				Boron	34.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Iron	21900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	203	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-041	AUS-0A12-041-SS-02	2 ft	Cadmium	0.39	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI sample 0A12-042. Proposed soil boring 0A12-172.
	0A12-042	AUS-0A12-042-SS-0X	0-0.5 ft										
	0A12-043	AUS-0A12-043-SD-0X	0-0.5 ft										
	0A12-044	AUS-0A12-044-SD-0X	0-0.5 ft										
	0A12-045	AUS-0A12-045-SS-0X	0-0.5 ft	Cadmium	2.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A12-127, 0A12-168, and 0A12-169.
				Zinc	263	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-050	AUS-0A12-050-SD-0X	0-0.5 ft	Cadmium	2.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A12-124, 0A12-125, 0A12-126, and 0A12-127.
				Zinc	590	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-051	AUS-0A12-051-SS-0X	0-0.5 ft	Cadmium	0.53	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI samples 0A12-055, 0A12-060, and 0A12-098. Proposed soil boring 0A12-221 to verify cPAH exceedance.
				cPAHs	408.29	ug/kg	H		2.1E+02				
				Chromium	14.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A12-051-SS-02	2 ft										
	0A12-052	AUS-0A12-052-SS-02	2 ft	Arsenic	19.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI 0A12-054 and 0A12-098. Proposed soil borings 0A12-122 and 0A12-123. Sample groundwater from proposed monitoring well 0A12-W15 to determine if metals detected in the soil sample at a concentration exceeding the STG critiera has impacted groundwater.
				Boron	8.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	15.2	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	40.4	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	846	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	25800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Nickel	53.8	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	1970	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-053	AUS-0A12-053-SS-0X	0-0.5 ft	Boron	14.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings 0A12-161, 0A12-162, and 0A12-170. Proposed sediment/surface water sample 0A12-202.
				Cadmium	1.7	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Iron	25600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	324	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-054	AUS-0A12-054-SS-0X	0-0.5 ft	Cadmium	0.57	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI samples 0A12-052 and 0A12-055. Proposed soil boring 0A12-170 and sediment/surface water sample 0A12-202.
		AUS-0A12-054-SS-02	2 ft										
	0A12-056	AUS-0A12-056-SS-0X	0-0.5 ft	Barium	1430	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	Proposed soil borings 0A12-128, 0A12-129, 0A12-130, and 0A12-131. Sample groundwater from proposed monitoring well 0A12-W17 to determine if metals detected in the soil sample at a concentration exceeding the STG critiera has impacted groundwater. Proposed soil boring 0A12-171 to verify cPAH exceedance.
				Boron	19.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	482.301	ug/kg	H		2.1E+02				
				Cadmium	1.8	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Cobalt	30.9	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Iron	19700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Manganese	20400	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
				Selenium	7.7	mg/kg	EW1W2	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Silver	4	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	144	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-058	AUS-0A12-058-SS-0X	0-0.5 ft	Cadmium	4.6	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0A12-146, 0A12-173, and 0A12-174.
				Zinc	426	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-059	AUS-0A12-059-SS-02	2 ft	Aluminum	17100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0A12-060 and sediment sample 0A12-061. Proposed soil boring 0A12-175.
				Cadmium	0.42	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	18.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A12-059-SS-05	5 ft	Cadmium	0.91	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Zinc	187	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-060	AUS-0A12-060-SD-0X	0-0.5 ft	Aluminum	18600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0A12-142 and 0A12-175, and sediment/surface water 0A12-199.
				Cadmium	0.48	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	19.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A12-062	AUS-0A12-062-SD-0X	0-0.5 ft	cPAHs	506.099	ug/kg	H		2.1E+02				Proposed soil borings 0A12-175 and 0A12-176. Proposed soil boring 0A12-222 to verify cPAH exceedance.
				Cadmium	0.45	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A12 (continued)		AUS-0A12-064-SS-0X	0-0.5 ft										
		AUS-0A12-064-SS-01	1 ft										
	0A12-064	AUS-0A12-064-SS-05	5 ft	Aluminum	9560	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	14.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0A12-064-SS-12	12 ft										
	0A12-066	AUS-0A12-066-SD-0X	0-0.5 ft	Cadmium	0.46	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil sample 0A12-067. Proposed soil boring 0A12-172.
	0A12-067	AUS-0A12-067-SS-0X	0-0.5 ft	Cadmium	0.37	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Cadmium only slightly exceeds background. No additional investigation proposed for this exceedance at this time. This sample will be addressed in Phase II investigation.
	0A12-071	AUS-0A12-071-SS-0X	0-0.5 ft	Chromium	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Existing PA/SI soil samples 0A12-069, 0A12-070, and 0A12-072.
		AUS-0A12-071-SS-05	5 ft										
		AUS-0A12-071-SS-12	12 ft	Chromium	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 12 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Iron	21000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A12-072	AUS-0A12-072-SD-0X	0-0.5 ft	Cadmium	0.43	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI samples 0A12-071 and 0A12-073. Proposed soil boring 0A12-178 and sediment/surface water sample 0A12-197.
	0A12-076	AUS-0A12-076-SS-0X	0-0.5 ft	Aluminum	16800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sample 0A12-077. Proposed soil boring 0A12-145.
				Cadmium	0.44	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	17.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	25000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A12-076-SS-02	2 ft										
	0A12-081	AUS-0A12-081-SS-02	2 ft	cPAHs	481.495	ug/kg	H		2.1E+02				Cadmium only slightly exceeds background. No additional investigation proposed for this exceedance at this time. This sample will be addressed in Phase II investigation. Proposed soil boring 0A12-134 to verify cPAH exceedance.
				Cadmium	0.36	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
	0A12-082	AUS-0A12-082-SS-0X	0-0.5 ft	Aluminum	14500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sample 0A12-080. Proposed soil borings 0A12-179 and 0A12-209.
				Cadmium	0.41	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	16.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Di-n-butyl phthalate	1700	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Iron	23300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0A12-082-SS-02	2 ft										
	0A12-083	AUS-0A12-083-SS-0X	0-0.5 ft										
	0A12-084	AUS-0A12-084-SS-0X	0-0.5 ft										
	0A12-085	AUS-0A12-085-SS-0X	0-0.5 ft										
		AUS-0A12-085-SS-02	2 ft										
	0A12-086	AUS-0A12-086-SS-0X	0-0.5 ft	Bis(2-ethylhexyl)ohthalate	1100	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	EPF notes that toxicity-based screening criteria for other phthalates are in hundreds of ppm range and that Bis (2-ethylhexyl) Phthalate should be retained as an uncertainty, but no quantitative evaluation as a COPEC.
		AUS-0A12-086-SS-02	2 ft										
	0A12-087	AUS-0A12-087-SS-0X	0-0.5 ft										
		AUS-0A12-087-SS-02	2 ft										
	0A12-088	AUS-0A12-088-SD-02	2 ft										
	0A12-089	AUS-0A12-089-SS-0X	0-0.5 ft	cPAHs	447.315	ug/kg	H		2.1E+02				Proposed soil boring 0A12-223 to verify cPAH exceedance.
		AUS-0A12-089-SS-02	2 ft										
	0A12-091	AUS-0A12-091-SS-0X	0-0.5 ft										
		AUS-0A12-091-SS-02	2 ft										
	0A12-093	AUS-0A12-093-SS-0X	0-0.5 ft	1-Methylnaphthalene	3900	ug/kg	H		4.6E+04	1.8E+03	8.4E+04	7.2E+03	Existing PA/SI samples 0A12-007 and 0A12-009. Proposed soil boring 0A112-105. Explosive concentrations in soil exceeds STG standard; however, samples from lower depths were non-detect for explosives.
				2-Methylnaphthalene	91000	ug/kg	HW2		4.6E+04	1.9E+04	8.4E+04	7.7E+03	
				Acenaphthylene	2400	ug/kg	H		8.3E+03	1.8E+03	8.4E+04	1.2E+04	
				Arsenic	14.9	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(a)pyrene	260	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	321.59	ug/kg	H		2.1E+02				
				Boron	10.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Copper	32.7	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				RDX	2700	mg/kg	W2		1.0E+05	1.6E+04		3.6E+02	
				Zinc	199	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-093-SS-02	2 ft										
		AUS-0A12-093-SS-03	3 ft										
		AUS-0A12-093-SS-05	5 ft										
	0A12-094	AUS-0A12-094-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	48	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A12-182, 0A12-183, 0A12-184, and 0A12-185. Concentrations of explosives exceeding the STG criteria will addressed once the IEPA groundwater classification is determined.
				Cadmium	0.88	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Zinc	286	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-094-SS-0X	0-0.5 ft										
		AUS-0A12-094-SS-02	2 ft										
	0A12-095	AUS-0A12-095-SS-0X	0-0.5 ft										
	0A12-096	AUS-0A12-096-SS-0X	0-0.5 ft										
	0A12-097	AUS-0A12-097-SS-0X	0-0.5 ft										
		AUS-0A12-097-SS-01	1 ft										
	0A12-098	AUS-0A12-098-SS-0X	0-0.5 ft	Aluminum	10100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sample 0A12-051. Proposed soil boring 0A12-143.
				Cadmium	1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	389.28	ug/kg	H		2.1E+02				
				Zinc	190	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-098-SS-01	1 ft										
		AUS-0A12-099-SS-0X	0-0.5 ft	Aluminum	10200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sample 0A12-064. Proposed soil borings 0A12-145 and 0A12-177.
				Chromium	14.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0A12-099	AUS-0A12-099-SS-01	1 ft										
		AUS-0A12-099-SS-02	2 ft	Mammal TEQ	5.2	ng/kg	E		8.1E-01	1.6E+01			Proposed soil borings 0A12-210, 0A12-211, 0A12-212, and 0A12-213.
				Bird TEQ	6.22	ng/kg	E		8.1E-01	1.6E+01			

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A12 (continued)	0A12-099	AUS-0A12-099-SS-05	5 ft	Chromium	13.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 5 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
		AUS-0A12-099-SS-11	11 ft										
	0A12-100	AUS-0A12-100-SS-0X	0-0.5 ft	Arsenic	19.1	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil borings 0A12-112, 0A12-113, 0A12-114, and 0A12-115.
				Boron	10.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium	32.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	180	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	69000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Nickel	45.1	mg/kg	E						
		AUS-0A12-100-SS-01	1 ft										
		AUS-0A12-100-SS-05	5 ft										
		AUS-0A12-100-SS-14	14 ft	Carbon Tetrachloride	360	ug/kg	W1W2		1.0E+06	5.5E+02	7.0E+01	7.0E+01	Sample groundwater from proposed monitoring well 0A12-W08 for exceedances of STG critiera for VOCs. Sample collected at depth of 14 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations. The selenium exceedance of the Ecological Screening Criteria will be addressed in Phase II investigation.
				Methylene Chloride	34	ug/kg	W1W2		4.1E+03	2.1E+04	2.0E+01	2.0E+01	
				Selenium	3.4	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
	0A12-W01	AUS-0A12-W01-SS-0X	0-0.5 ft	Boron	16.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Proposed soil borings 0A12-186, 0A12-187, 0A12-188, and 0A12-189. Proposed soil boring 0A12-244 to verify cPAH exceedance.
				cPAHs	344.285	ug/kg	H		2.1E+02				
				Cadmium	1.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Zinc	124	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0A12-W01-SS-02	2 ft										
		AUS-0A12-W01-SS-17	17 ft	Chromium	14.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 17 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
	0A12-W02	AUS-0A12-W02-SS-0X	0-0.5 ft	Boron	5.6	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI sample 0A12-089. Proposed soil boring 0A12-193.
		AUS-0A12-W02-SS-02	2 ft										
		AUS-0A12-W02-SS-05	5 ft	Iron	20700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Iron is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
		AUS-0A12-W02-SS-20	20 ft										
AUS-0A13	0A13-001	AUS-0A13-001-SS-0X	0-0.5 ft										
	0A13-002	AUS-0A13-002-SS-0X	0-0.5 ft	cPAHs	304.33	ug/kg	H		2.1E+02				Proposed soil boring 0A13-148 to verify cPAH exceedance.
	0A13-003	AUS-0A13-003-SS-0X	0-0.5 ft	cPAHs	496.695	ug/kg	H		2.1E+02				Proposed soil boring 0A13-149 to verify cPAH exceedance.
	0A13-004	AUS-0A13-004-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	64000	ug/kg	EHW1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A13-032, 0A13-042, and 0A13-043; Sample groundwater from monitoring well 0A13-W01 to dertermine if groundwater has been impacted by SVOCs and/or explosives detected at soil concentrations exceeding the STG criteria.
				2,6-Dinitrotoluene	2900	ug/kg	EHW1W2		3.3E+01	2.5E+03	7.0E-01	7.0E-01	
				Benzo(a)pyrene	570	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Butyl Benzyl Phthalate	390	ug/kg	E		2.4E+02	9.3E+05	9.3E+05	9.3E+05	
				Cadmium	0.54	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	117	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	878.1	ug/kg	H			2.1E+02			
				Di-n-butyl phthalate	230000	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Mercury	0.83	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nitroglycerin	300000	ug/kg	HW2			9.2E+04		2.0E+01	
				N-Nitrosodiphenylamine	52000	ug/kg	EW1W2		2.0E+04	3.5E+05	1.0E+03	1.0E+03	
				Zinc	207	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A13-005	AUS-0A13-005-SS-0X	0-0.5 ft	Benzo(a)pyrene	640	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A13-042, 0A13-044, and 0A13-045.
				Cadmium	0.53	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Copper	109	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	1126.6	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	280	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Zinc	236	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A13-006	AUS-0A13-006-SS-0X	0-0.5 ft										
	0A13-007	AUS-0A13-007-SS-0X	0-0.5 ft	cPAHs	700.25	ug/kg	H			2.1E+02			Proposed soil borings 0A13-049, 0A13-050, and 0A13-051.
				Benzo(a)pyrene	420	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
	0A13-008	AUS-0A13-008-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	170	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil boring 0A13-046, 0A13-047, and 0A13-048; Sample groundwater from monitoring well 0A13-W01 to see if signficantly higher explosive concentrations detected at 0A13-004 have impacted groundwater.
				cPAHs	777.72	ug/kg	H			2.1E+02			
				Benzo(a)pyrene	440	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
	0A13-009	AUS-0A13-009-SS-0X	0-0.5 ft										
	0A13-010	AUS-0A13-010-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	1000	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A13-122, 0A13-123, and 0A13-124. Sample groundwater from monitoring well 0A13-W02 to determine if groundwater has been impacted by explosives detected at soil concentrations exceeding the STG criteria. Collect soil sample from 0A13-W02 to verify cPAH exceedance.
				2,6-Dinitrotoluene	70	ug/kg	EW1W2		3.3E+01	2.5E+03	7.0E-01	7.0E-01	
				cPAHs	315.19	ug/kg	H			2.1E+02			
				Di-n-butyl phthalate	1600	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
	0A13-011	AUS-0A13-011-SS-0X	0-0.5 ft	2,4-Dinitrotoluene	250	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil borings 0A13-125, 0A13-126, and 0A13-127. Sample groundwater from monitoring well 0A13-W01 to see if signficantly higher SVOC and explosive concentrations detected at 0A13-004 have impacted groundwater. Also review groundwater concentrations from monitoring well 0A13-W02 to see if higher 2,4-dinitrotoluene concentratoins detected at 0A13-010 have impacted groundwater.
				Di-n-butyl phthalate	2400	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Nitroglycerin	3200	ug/kg	W2			9.2E+04		2.0E+01	
				N-Nitrosodiphenylamine	1100	ug/kg	W1W2		2.0E+04	3.5E+05	1.0E+03	1.0E+03	
	0A13-012	AUS-0A13-012-SS-0X	0-0.5 ft	cPAHs	415.861	ug/kg	H		2.1E+02				Proposed soil boring 0A13-150 to verify cPAH exceedance.
	0A13-013	AUS-0A13-013-SS-0X	0-0.5 ft	Chromium	15.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Proposed soil borings 0A13-128, 0A13-129, and 0A13-130.

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A13 (continued)	0A13-014	AUS-0A13-014-SS-0X	0-0.5 ft	Benzo(a)pyrene	480	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A13-039, 0A13-040, and 0A13-041; Sample groundwater from monitoring well 0A13-W04 to determine if groundwater has been impacted by chromium.
				Boron	5.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium	155	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				cPAHs	781.63	ug/kg	H			2.1E+02			
				Iron	25200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A13-015	AUS-0A13-015-SS-0X	0-0.5 ft	cPAHs	335.94	ug/kg	H		2.1E+02				Proposed soil boring 0A13-155 to verify cPAH exceedance.
	0A13-016	AUS-0A13-016-SS-0X	0-0.5 ft	cPAHs	463.87	ug/kg	H			2.1E+02			Proposed soil borings 0A13-055, 0A13-056, 0A13-057, and 0A13-058.
				Benzo(a)pyrene	360	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
	0A13-017	AUS-0A13-017-SS-0X	0-0.5 ft	Di-n-butyl phthalate	850	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	Proposed soil borings 0A13-131, 0A13-132, and 0A13-133.
	0A13-018	AUS-0A13-018-SS-0X	0-0.5 ft	Benzo(a)pyrene	310	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A13-036, 0A13-037, and 0A13-038. EPF notes that toxicity-based screening criteria for other phthalates are in hundreds of ppm range and that Bis (2-ethylhexyl)phthalate should be retained as an uncertainty, but no quantitative evaluation as a COPEC. Sample groundwater from monitoring well 0A13-W01 to see if signficantly higher explosive concentrations detected at 0A13-004 have impacted groundwater.
				Bis(2-ethylhexyl) Phthalate	2300	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				cPAHs	617.69	ug/kg	H			2.1E+02			
				Nitroglycerin	2300	ug/kg	W2			9.2E+04		2.0E+01	
	0A13-019	AUS-0A13-019-SS-0X	0-0.5 ft										
	0A13-020	AUS-0A13-020-SS-0X	0-0.5 ft	cPAHs	336.456	ug/kg	H		2.1E+02				Proposed soil boring 0A13-151 to verify cPAH exceedance.
	0A13-021	AUS-0A13-021-SS-0X	0-0.5 ft	cPAHs	480.065	ug/kg	H		2.1E+02				Iron is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location. Proposed soil boring 0A12-152 to verify cPAH exceedance.
				Iron	22200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0A13-022	AUS-0A13-022-SS-0X	0-0.5 ft										
	0A13-023	AUS-0A13-023-SS-0X	0-0.5 ft	cPAHs	385.96	ug/kg	H		2.1E+02				Proposed soil boring 0A13-1531 to verify cPAH exceedance.
	0A13-024	AUS-0A13-024-SS-0X	0-0.5 ft	cPAHs	312.231	ug/kg	H		2.1E+02				Proposed soil boring 0A13-154 to verify cPAH exceedance.
	0A13-025	AUS-0A13-025-SS-0X	0-0.5 ft										
	0A13-026	AUS-0A13-026-SS-0X	0-0.5 ft	cPAHs	436.99	ug/kg	H		2.1E+02				Proposed soil boring 0A13-155 to verify cPAH exceedance.
	0A13-027	AUS-0A13-027-SS-0X	0-0.5 ft	Benzo(a)pyrene	670	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0A13-052, 0A13-053, and 0A13-054.
				cPAHs	1081.4	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	220	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
	0A13-028	AUS-0A13-028-SS-0X	0-0.5 ft										
	0A13-029	AUS-0A13-029-SS-0X	0-0.5 ft	Benzo(A)anthracene	5500	ug/kg	EHW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	Proposed soil borings 0A13-033, 0A13-034, and 0A13-035. Sample groundwater from monitoring well 0A13-W03 to determine if groundwater has been impacted by PAHs detected at concentrations exceeding the STG criteria.
				Benzo(a)pyrene	5300	ug/kg	EH		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	6700	ug/kg	EHW1W2		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				Carbazole	960	ug/kg	W1W2		1.3E+04	8.6E+04	6.0E+02	6.0E+02	
				Chrysene	7800	ug/kg	E		4.7E+03	2.1E+05	1.6E+05	1.6E+05	
				cPAHs	8866.8	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	1900	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Indeno(1,2,3-c,d)pyrene	3800	ug/kg	H		9.0E+04	2.1E+03	1.4E+04	1.4E+04	
	0A13-030	AUS-0A13-030-SS-0X	0-0.5 ft	Bis(2-ethylhexyl) Phthalate	11000	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	EPF notes that toxicity-based screening criteria for other phthalates are in hundreds of ppm range and that Bis (2-ethylhexyl)phthalate should be retained as an uncertainty, but no quantitative evaluation as a COPEC. All of the PAHs detected were qualified as estimated values. The cPAHs only slightly exceeded the human health criteria; therefore, no additional delineation is proposed at this time.
				cPAHs	464.03	ug/kg	H			2.1E+02			
	0A13-031	AUS-0A13-031-SS-0X	0-0.5 ft	Selenium	4.2	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	Proposed soil borings 0A13-134, 0A13-135, and 0A13-136.
AUS-0062	0062-001	AUS-0062-001-SS-0X	0-0.5 ft	Aluminum	12700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample 0062-005. Proposed soil borings 0062-020, 0062-021, and 0062-022.
				Chromium	18.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0062-001-SS-02	2 ft										
		AUS-0062-001-SS-04	4 ft	Aluminum	12300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 4 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	19.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0062-002	AUS-0062-002-SS-0X	0-0.5 ft	Aluminum	15000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil boring 0062-019, 0062-022, and 0062-023.
				Chromium	20.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0062-002-SS-02	2 ft										
	0062-003	AUS-0062-003-SS-0X	0-0.5 ft	Aluminum	11100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0062-009, 0062-010, 0062-011, and 0062-019.
				Cadmium	0.63	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	21.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0062-003-SS-02	2 ft										
	0062-006	AUS-0062-006-SS-0X	0-0.5 ft	Aluminum	13500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample 0062-007. Proposed soil borings 0062-012, 0062-013, 0062-014, and 0062-015.
				Cadmium	0.78	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	21.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	26100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0062-006-SS-02	2 ft										
	0062-008	AUS-0062-008-SD-02	2 ft										
		AUS-0062-008-SD-04	4 ft	Aluminum	28000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Sample collected at depth of 4 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
				Chromium	29.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
AUS-0065	0065-001	AUS-0065-001-SS-0X	0-0.5 ft	Aluminum	10700	mg/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03	Existing PA/SI 0065-005. Proposed soil boringns 0065-011, 0065-012, 0065-013, and 0065-014.
				Benzo(a)pyrene	220	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				cPAHs	548.57	ug/kg	H			2.1E+02			
				Boron	5.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Chromium, Total	20.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0065 (continued)	0065-002	AUS-0065-002-SS-0X	0-0.5 ft	2,4-Dimethylphenol	1100	ug/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03	Existing PA/SI soil samples 0065-005, 0065-006, and 0065-009. Proposed soil borings 0065-011, 0065-012, 0065-013, 0065-014, and 0065--W01. Sample groundwater from proposed monitoring well 0065-W01 to determine if constituents detected in the soil sample exceeding the STG critiera has impacted groundwater.
				2-Methylnaphthalene	3500	ug/kg	H		4.6E+04	1.9E+04	8.4E+04	7.7E+03	
				4-Nitrotoluene	1700	ug/kg	W2			3.0E+04		9.2E+02	
				Acenaphthylene	7200	ug/kg	H		8.3E+03	1.8E+03	8.4E+04	2.4E+04	
				Aluminum	11700	mg/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03	
				Benzo(a)anthracene	11000	ug/kg	EHW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	12000	ug/kg	EHW1W2		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	11000	ug/kg	EHW1W2		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Carbazole	5600	ug/kg	W1W2		1.3E+04	8.6E+04	6.0E+02	6.0E+02	
				Chromium, Total	20.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Chrysene	14000	ug/kg	E		4.7E+03	2.1E+05	1.6E+05	1.6E+05	
				Copper	33.4	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	19996	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	4700	ug/kg	HW1W2		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Indeno(1,2,3-c,d)Pyrene	9900	ug/kg	H		9.0E+04	2.1E+03	1.4E+04	1.4E+04	
				Mercury	0.48	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Naphthalene	4700	ug/kg	H		4.6E+04	1.8E+03	8.4E+04	1.2E+04	
				Phenol	27000	ug/kg	E		1.8E+04	1.8E+07	4.2E+06	4.2E+06	
				Zinc	316	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0065-003	AUS-0065-003-SS-0X	0-0.5 ft	Aluminum	10100	mg/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03	Existing PA/SI soil sample 0065-004. Proposed soil borings 0065-015, 0065-016, and 0065-017.
				Benzo(a)pyrene	250	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Boron	8.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	0.69	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAHs	427.15	ug/kg	H			2.1E+02			
				Zinc	257	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0065-004	AUS-0065-004-SS-0X	0-0.5 ft	Bis(2-ethylhexyl) phthalate	1400	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	Existing PA/SI soil samples 0065-003, 0065-007, and 0065-008. Additionally, the EPF does not indicate that Bis(2-ethylhexyl) phthalate is a COPEC in this area. Proposed soil boring 0065-19 to verify cPAH exceedance.
				cPAHs	457.82	ug/kg	H			2.1E+02			
	0065-004	AUS-0065-004-SS-04	4 ft	Chromium, Total	14.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	Sample collected at depth of 4 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations.
	0065-005	AUS-0065-005-SS-0X	0-0.5 ft	Aluminum	10400	mg/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03	Existing PA/SI soil samples 0065-001 and 0065-002. Proposed soil borings 0065-011, 0065-012, 0065-013, and 0065-014.
				Benzo(a)pyrene	560	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Boron	7.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	15.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	33.3	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	952.53	ug/kg	H			2.1E+02			
				Dibenz(a,h)anthracene	220	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Zinc	351	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0065-006	AUS-0065-006-SS-0X	0-0.5 ft	Aluminum	12700	mg/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03	Existing PA/SI soil sample 0065-002. Proposed soil borings 0065-010, 0065-011, and 0065-018. Proposed soil boring 0065-020 to verify cPAH exceedance.
				cPAHs	638.233	ug/kg	H			2.1E+02			
				Chromium, Total	16.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0065-007	AUS-0065-007-SS-0X	0-0.5 ft	Aluminum	10900	mg/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03	Existing PA/SI soil samples 0065-003, 0065-004, 0065-008, and 0065-009. Proposed soil borings 0065-010 and 0065-015.
				Chromium, Total	14.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0065-008	AUS-0065-008-SS-0X	0-0.5 ft	Boron	4.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil samples 0065-004, 0065-007, and 0065-009. Proposed soil boring 0065-014. Proposed soil boring 0065-021 to verify cPAH exceedance.
				cPAHs	450.507	ug/kg	H			2.1E+02			
	0065-008	AUS-0065-008-SS-03	3 ft	Boron	5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Sample collected at depth of 3 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations. Proposed soil sample 0065-021 to verify cPAH exceedance.
				cPAHs	401.786	ug/kg	H			2.1E+02			
	0065-009	AUS-0065-009-SS-0X	0-0.5 ft	Boron	11.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil samples 0065-005, 0065-006, and 0065-008. Proposed soil borings 0065-010 and 0065-014. Proposed soil boring 0065-022 to verify cPAH exceedance.
				cPAHs	311.241	ug/kg	H			2.1E+02			
				Cadmium	0.73	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Zinc	233	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0065-009	AUS-0065-009-SS-03	3 ft	Aluminum	9160	mg/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03	Sample collected at depth of 3 feet. These concentrations will be addressed, if warranted, in Phase II or subsequent investigations. Proposed soil sample 0065-022 to verify cPAH exceedance.
				cPAHs	328.198	ug/kg	H			2.1E+02			
				Boron	5.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
AUS-0066	0066-001	AUS-0066-001-SS-0X	0-0.5 ft										
		AUS-0066-001-SS-02	2 ft										
		AUS-0066-001-SS-04	4 ft										
	0066-002	AUS-0066-002-SS-0X	0-0.5 ft	Aluminum	14400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed PA/SI soil and sediment samples 0066-001, 0066-003, 0066-004, and 00666-008. Proposed soil borings 0066-011, 0066-012, and 0066-016. Proposed sediment/surface water sample 0066-013.
				Chromium, Total	20.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	22.8	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Iron	21800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0066-002-SS-02	2 ft										
		AUS-0066-002-SS-04	4 ft										
	0066-005	AUS-0066-005-SS-0X	0-0.5 ft	Cadmium	0.59	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI sediment samples 0066-003, 0066-004, and 0066-006. Proposed soil borings 0066-014, 0066-015, and 0066-016. Proposed sediment/surface water sample 0066-013.
		AUS-0066-005-SS-02	2 ft										
	0066-008	AUS-0066-008-SS-0X	0-0.5 ft	Aluminum	10100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0066-001. Proposed soil borings 0066-009, 0066-010, and 0066-011.
				Chromium, Total	18.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	19700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0066-008-SS-02	2 ft										
AUS-0067	0067-001	AUS-0067-001-SS-0X	0-0.5 ft	Aluminum	12900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0067-004, 0067-005, 0067-006, 0067-007, and 0067-012.
				Arsenic	14.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Boron	7.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.5	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	22.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	36.1	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	451.26	ug/kg	H			2.1E+02			
				Iron	30700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	355	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0067 (continued)	0067-001	AUS-0067-001-SS-02	2 ft	Aluminum	14900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0067-004, 0067-005, 0067-006, 0067-007, and 0067-012.
				Cadmium	0.77	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	21.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				cPAHs	324.798	ug/kg	H			2.1E+02			
				Iron	35100	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Zinc	171	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0067-003	AUS-0067-003-SS-0X	0-0.5 ft	Aluminum	17700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0067-004, 0067-005, 0067-008, and 0067-009.
				Chromium	20.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0067-003-SS-02	2 ft										
AUS-0069	0069-001	AUS-0069-001-SS-0X	0-0.5 ft	Iron	20000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			Existing PA/SI soil sample 0069-002. Proposed soil borings 0069-055 and 0069-056.
				Zinc	151	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0069-001-SS-05	5 ft										
		AUS-0069-001-SS-12	12 ft										
	0069-002	AUS-0069-002-SS-0X	0-0.5 ft	cPAHs	464.24	ug/kg	H			2.1E+02			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location. Proposed soil boring 0069-064 to verify cPAH exceedance.
				Aluminum	10000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
		AUS-0069-002-SS-02	2 ft										
	0069-003	AUS-0069-003-SS-0X	0-0.5 ft										
		AUS-0069-003-SS-02	2 ft										
	0069-004	AUS-0069-004-SS-0X	0-0.5 ft	Aluminum	12300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-026, 0069-027, 0069-028, 0069-029, 0069-035, 0069-036, 0069-037, 0069-038, 0069-039, and 0069-040. Sample groundwater from monitoring well 0069-W01 to determine if higher concentrations of metals detected at 0069-012 exceeding the STG critieria have impacted groundwater. Proposed soil boring 0069-063 to verify cPAH exceedance.
				Arsenic	33.9	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Cadmium	0.72	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	67.1	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				cPAHs	503.898	ug/kg	H			2.1E+02			
				Iron	52800	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Vanadium	89.5	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
				Zinc	161	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0069-004-SS-02	2 ft										
	0069-005	AUS-0069-005-SS-0X	0-0.5 ft	Aluminum	12100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-026, 0069-027, 0069-028, 0069-029, 0069-035, 0069-036, 0069-037, 0069-038, 0069-039, and 0069-040.
				Boron	6.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	19.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0069-005-SS-02	2 ft										
	0069-006	AUS-0069-006-SS-0X	0-0.5 ft	Aluminum	11600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-026, 0069-027, 0069-028, 0069-029, 0069-035, 0069-036, 0069-037, 0069-038, 0069-039, and 0069-040. Sample groundwater from monitoring well 0069-W01 to determine if higher concentrations of metals detected at 0069-012 exceeding the STG critieria have impacted groundwater.
				Antimony	28.8	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Arsenic	31.9	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Barium	3470	mg/kg	EW1W2	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Boron	74.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	22.6	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	183	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	1910	mg/kg	E	9.4E+00	3.1E+01	4.1E+03			
				Iron	159000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	2820	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Mercury	0.52	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	119	mg/kg	EW2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Silver	15.3	mg/kg	EW2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	5020	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0069-006-SS-02	2 ft										
	0069-007	AUS-0069-007-SS-0X	0-0.5 ft	Aluminum	10000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-026, 0069-027, 0069-028, 0069-029, 0069-035, 0069-036, 0069-037, 0069-038, 0069-039, and 0069-040. Sample groundwater from monitoring well 0069-W01 to determine if higher concentrations of metals detected at 0069-012 exceeding the STG critieria have impacted groundwater. EPF states that di-n-butyl phthalate is sufficiently characterized for this chemical based on proximity of other sample locations. Proposed soil boring 0069-060 to verify cPAH exceedance.
				Antimony	9.6	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Arsenic	48.1	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Barium	677	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Boron	24.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	8.5	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	59.6	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	206	mg/kg	E	9.4E+00	3.1E+01	4.1E+03			
				cPAHs	460.355	ug/kg	H			2.1E+02			
				Di-n-butyl phthalate	720	mg/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Iron	44600	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	547	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Mercury	0.38	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	42.7	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Silver	6.6	mg/kg	EW2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	1740	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0069-007-SS-02	2 ft										
	0069-008	AUS-0069-008-SS-0X	0-0.5 ft	2,4,6-Trinitrotoluene	680	ug/kg	W2		3.0E+04	5.7E+04		7.7E+01	Proposed soil borings 0069-026, 0069-027, 0069-028, 0069-029, 0069-035, 0069-036, 0069-037, 0069-038, 0069-039, and 0069-040. Sample groundwater from monitoring well 0069-W01 to determine if constituents detected in the soil sample at concentrations exceeding the STG critieria have impacted groundwater.
				2-Amino-4,6-Dinitrotolune	370	ug/kg	W2		8.0E+04	1.2E+04		3.1E+01	
				4-Amino-4,6-Dinitrotolune	250	ug/kg	W2		8.0E+04	1.2E+04		3.1E+01	
				Aluminum	12100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Chromium	15.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0069-008-SS-02	2 ft										

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0069 (continued)	0069-009	AUS-0069-009-SS-0X	0-0.5 ft	Aluminum	9370	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-026, 0069-027, 0069-028, 0069-029, 0069-035, 0069-036, 0069-037, 0069-038, 0069-039, and 0069-040. Sample groundwater from monitoring well 0069-W01 to determine if higher concentrations of metals detected at 0069-012 exceeding the STG critieria have impacted groundwater.
				Antimony	11.6	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Arsenic	19.8	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Boron	71.4	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	12	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	104	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	2120	mg/kg	E	9.4E+00	3.1E+01	4.1E+03			
				Iron	37400	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	51000	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Nickel	60.6	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	4.,1	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Silver	3.7	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	3750	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0069-009-SS-02	2 ft										
	0069-012	AUS-0069-012-SS-0X	0-0.5 ft	Aluminum	12800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-026, 0069-027, 0069-028, 0069-029, 0069-035, 0069-036, 0069-037, 0069-038, 0069-039, and 0069-040. Sample groundwater from monitoring well 0069-W01 to determine if constituents detected in the soil sample at concentrations exceeding the STG critieria have impacted groundwater. Proposed soil boring 0069-062 to verify cPAH exceedance.
				Antimony	173	mg/kg	EHW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Arsenic	36.6	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Barium	4940	mg/kg	EW1W2	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Boron	84.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	28	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	266	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	28.6	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Copper	7060	mg/kg	EH	9.4E+00	3.1E+01	4.1E+03			
				Iron	308000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				cPAHs	390.448	ug/kg	H			2.1E+02			
				Lead	3880	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Mercury	0.48	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	130	mg/kg	EW2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Silver	12.6	mg/kg	EW2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	16400	mg/kg	EW1W2	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0069-012-SS-03	3 ft										
		AUS-0069-012-SS-05	5 ft										
	0069-013	AUS-0069-013-SS-0X	0-0.5 ft										
		AUS-0069-013-SS-03	3 ft										
		AUS-0069-013-SS-12	12 ft										
	0069-015	AUS-0069-015-SS-0X	0-0.5 ft	Aluminum	13700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-057, 0069-058, and 0069-059.
				Chromium	19.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0069-015-SS-02	2 ft										
	0069-016	AUS-0069-016-SS-0X	0-0.5 ft	Aluminum	10500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-030, 0069-031, 0069-032, and 0069-041.
				Benzo(a)pyrene	2200	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)Fluoranthene	2600	ug/kg	EH		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				cPAHs	3448.8	ug/kg	H			2.1E+02			
				Cadmium	0.96	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	24.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	47	mg/kg	E	9.4E+00	3.1E+01	4.1E+03			
				Dibenz(A,H)Anthracene	630	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Iron	26100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	129	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0069-016-SS-02	2 ft										
	0069-017	AUS-0069-017-SS-0X	0-0.5 ft	Aluminum	10700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Aluminum is an essential nutrient and has limited toxicity data. EPF indicates no additional delineation necessary at this location.
		AUS-0069-017-SS-02	2 ft										
	0069-018	AUS-0069-018-SS-0X	0-0.5 ft	Aluminum	14800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0069-020, 0069-033, 0069-034, and sediment/surface water sample 0069-051. Sample groundwater from monitoring well 0069-W01 to determine if higher concentrations of metals detected at 0069-012 exceeding the STG critieria have impacted groundwater.
				Cadmium	5.5	mg/kg	EW2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	19	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0069-018-SS-02	2 ft										
AUS-0001	0001-001	AUS-0001-001-SS-0X	0-0.5 ft	Aluminum	13200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0001-011, 0001-012, 0001-013, and 0001-014.
				Cadmium	2.7	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	23	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	37.2	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	24800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Zinc	1410	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
		AUS-0001-001-SS-02	2 ft										
	0001-002	AUS-0001-002-SS-0X	0-0.5 ft										
		AUS-0001-002-SS-01	1 ft										
	0001-003	AUS-0001-003-SS-0X	0-0.5 ft	Cadmium	1.2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil samples 0001-002 and 0001-004. Proposed soil borings 0001-007, 0001-008, 0001-009, and 0001-010.
				Chromium, Total	22.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
				Lead	1050	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
		AUS-0001-003-SS-02	2 ft										
	0001-004	AUS-0001-004-SS-0X	0-0.5 ft	Arsenic	535	mg/kg	EHW1W2	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil samples 0001-002 and 0001-003. Proposed soil borings 0001-007, 0001-008, 0001-009, and 0001-010. Arsenic and Selenium concentrations in soil exceeded STG standards; however, groundwater samples collected from 0001-W01 (located 25 feet from 0001-004) were reported to have no detections of these constituents. Proposed soil boring 0001-015 to verify cPAH exceedance.
				Benzo(a)pyrene	330	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	1700	ug/kg	E		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				Boron	36.8	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	27	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	94	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	826	mg/kg	H			2.1E+02			
				Selenium	12.9	mg/kg	EW1W2	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Silver	3.4	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Thallium	2.4	mg/kg	E	5.1E-01	1.0E+00	6.7E+00		2.6E+00	
				Vanadium	55.7	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
				Zinc	195	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

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Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0001 (continued)	0001-004	AUS-0001-004-SS-02	2 ft										
	0001-005	AUS-0001-005-SD-02	2 ft										
	0001-W01	AUS-0001-W01-SS-05	5 ft										
		AUS-0001-W01-SS-23	23 ft										
AUS-0002	0002-001	AUS-0002-001-SS-0X	0-0.5 ft	Aluminum	12300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment samples 0002-001 and 0002-002. Proposed soil borings 0002-008, 0002-009, 0002-010, and 0002-011.
				Cadmium	2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	18.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0002-001	AUS-0002-001-SS-02	2 ft										
	0002-004	AUS-0002-004-SD-0X	0-0.5 ft	Aluminum	10700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0002-015, 0002-016, and 0002-017.
				Chromium, Total	16.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
AUS-0018	0018-001	AUS-0018-001-SS-0X	0-0.5 ft	Aluminum	16800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0018-002 and 0018-003. Proposed soil samples 0018-017, 0018-018, 0018-019, and 0018-020.
				Chromium, Total	20.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	25800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0018-001-SS-02	2 ft										
	0018-002	AUS-0018-002-SS-0X	0-0.5 ft	Aluminum	14900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0018-001 and 0018-003. Proposed soil samples 0018-017, 0018-018, 0018-019, and 0018-020.
				Chromium, Total	20.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	21500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0018-002-SS-02	2 ft										
	0018-003	AUS-0018-003-SS-0X	0-0.5 ft	Aluminum	11100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil samples 0018-001 and 0018-002. Proposed soil samples 0018-017, 0018-018, 0018-019, and 0018-020.
				Chromium, Total	15.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0018-003-SS-02	2 ft										
	0018-004	AUS-0018-004-SS-0X	0-0.5 ft	Aluminum	13600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0018-024, 0018-025, 0018-026, and 0018-027.
				Chromium, Total	15.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0018-004-SS-02	2 ft										
	0018-005	AUS-0018-005-SS-0X	0-0.5 ft	Aluminum	11100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0018-024, 0018-028, 0018-029, and 0018-030.
				Chromium, Total	14.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0018-005-SS-02	2 ft										
	0018-010	AUS-0018-010-SS-0X	0-0.5 ft	Cadmium	0.82	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0018-012, 0018-015, 0018-022, and 0018-023.
	0018-011	AUS-0018-011-SS-0X	0-0.5 ft	Cadmium	0.81	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0018-012, 0018-015, 0018-022, and 0018-023.
AUS-0021	0021-001	AUS-0021-001-SS-0X	0-0.5 ft	Aluminum	15700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample 0021-002. Proposed soil borings 0A07-281, 0A07-282, and 0A07-283.
				Chromium, Total	20.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0021-003	AUS-0021-003-SS-0X	0-0.5 ft	Aluminum	11000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI sediment sample 0021-002. Proposed soil borings 0A07-280 and 0A07-281.
				Chromium, Total	13.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	23.2	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
				Manganese	3030	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
	0021-004	AUS-0021-004-SS-0X	0-0.5 ft	Aluminum	12600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0021-005. Proposed soil borings 0A07-284, 0A07-285 and 0A07-286.
				Chromium, Total	21	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0021-005	AUS-0021-005-SS-0X	0-0.5 ft	Aluminum	20500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0021-004. Proposed soil borings 0A07-284, 0A07-285 and 0A07-286.
				Chromium, Total	23.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	28700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
AUS-0043	0043-001	AUS-0043-001-SS-0X	0-0.5 ft	Benzo(a)pyrene	1200	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil borings 0043-006, 0043-007, 0043-013, and 0043-014.
				Benzo(b)Fluoranthene	3000	ug/kg	EH		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				cPAHs	2691.6	mg/kg	H			2.1E+02			
				Boron	7.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Lead	1110	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Zinc	211	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0043-002	AUS-0043-002-SS-0X	0-0.5 ft	2,6-Dinitrotoluene	950	ug/kg	EW1W2		3.3E+01	2.5E+03	7.0E-01	7.0E-01	Existing PA/SI soil sample 0043-005. Proposed soil borings 0043-008, 0043-009, and 0043-012. Sample groundwater from monitoring well 0043-W01 to determine if exceedances of STG critieria for explosives have impacted groundwater.
				Aluminum	13800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
				Cadmium	0.62	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	19.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Zinc	156	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0043-004	AUS-0043-004-SD-0X	0-0.5 ft	Aluminum	13100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0043-015 and 0043-017. Proposed sediment/surface water sample 0043-011.
				Chromium	17.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0043-004-SD-02	2 ft										
	0043-005	AUS-0043-005-SD-0X	0-0.5 ft	Aluminum	12200	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0043-002. Proposed soil borings 0043-009, 0043-015 and 0043-016.
				Chromium	16.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0043-005-SD-02	2 ft										
AUS-0060	0060-002	AUS-0060-002-SD-0X	0-0.5 ft	Aluminum	12700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0060-010, 0060-012, 0060-013, and 0060-014.
				Chromium, Total	17.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	20100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
		AUS-0060-002-SD-01	1 ft										
	0060-003	AUS-0060-003-SD-01	1 ft										
	0060-004	AUS-0060-004-SD-0X	0-0.5 ft	Aluminum	13100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0060-008, 0060-015, 0060-016, and 0060-017.
				Chromium, Total	19.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	22600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
	0060-005	AUS-0060-005-SD-0X	0-0.5 ft	Aluminum	15100		E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 0060-020, 0060-021, 0060-022, and 0060-023.
				Chromium, Total	17.5		E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
		AUS-0060-005-SD-02	1 ft										

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0061	0061-001	AUS-0061-001-SS-0X	0-0.5 ft	Antimony	7.3	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	Proposed soil borings 0061-016, 0061-019, 0061-020, and 0061-022. Sample groundwater from monitoring well 0061-W02 to determine if constituents detected in the soil sample at concentrations exceeding the STG critieria have impacted groundwater.
				Arsenic	13.6	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(A)Anthracene	3000	ug/kg	HW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	3300	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(B)fluoranthene	5400	ug/kg	EHW1W2		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				bis(2-ethylhexyl) phthalate	1100	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Cadmium	90.9	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	23.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	69.9	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	5279.6	ug/kg	H			2.1E+02			
				Dibenz(A,H)Anthracene	850	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				Indeno(1,2,3-C,D)Pyrene	2400	ug/kg	H		9.0E+04	2.1E+03	1.4E+04	1.4E+04	
				Iron	70400	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	544	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Mercury	0.7	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	44.6	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	5.8	mg/kg	EW1	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Zinc	893	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0061-002	AUS-0061-002-SS-0X	0-0.5 ft	Benzo(A)Anthracene	2300	ug/kg	HW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	Proposed soil borings 0061-017, 0061-018, 0061-021, and 0061-022. Sample groundwater from monitoring well 0061-W01 to determine if constituents detected in the soil sample at concentrations exceeding the STG critieria have impacted groundwater.
				Benzo(a)pyrene	2800	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
				Benzo(A)fluoranthene	4800	ug/kg	EH		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
				bis(2-ethylhexyl) phthalate	980	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	34.9	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	31.2	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	15.7	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				cPAHs	4521.7	ug/kg	H			2.1E+02			
				Dibenz(A,H)Anthracene	750	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
				indeno(1,2,3-C,D)Pyrene	2200	ug/kg	H		9.0E+04	2.1E+03	1.4E+04	1.4E+04	
				Mercury	1.1	mg/kg	EW2	2.8E-01	1.5E-01	3.1E+01			
				Zinc	272	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0061-003	AUS-0061-003-SD-0X	0-0.5 ft	Boron	6.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Existing PA/SI soil sample 0061-002. Proposed soil borings 0061-018, 0061-019, and 0061-022.
				Cadmium	1.3	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
	0061-004	AUS-0061-004-SD-0X	0-0.5 ft	Aluminum	12800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Existing PA/SI soil sample 0061-002. Proposed soil borings 0061-017, 0061-018, and 0061-021.
				Cadmium	2.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium	14.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
	0061-005	AUS-0061-005-SD-0X	0-0.5 ft	Cadmium	61.3	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0061-016, 0061-019, 0061-020, 0061-022, and 0061-041. Sample groundwater from monitoring well 0061-W02 to determine if constituents detected in the soil sample at concentrations exceeding the STG critieria have impacted groundwater. Proposed soil boring 0061-041 to verify cPAH exceedance.
				Copper	54.7	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				cPAHs	404.25	ug/kg	H			2.1E+02			
				Iron	34700	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Mercury	0.46	mg/kg	E	2.8E-01	1.5E-01	3.1E+01			
				Zinc	245	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0061-006	AUS-0061-006-SD-0X	0-0.5 ft	Cadmium	4.8	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil borings 0061-016, 0061-019, 0061-020, and 0061-022.
				Mercury	0.3	mg/kg	E	2.8E-01	1.5E-01	3.1E+01			
AUS-106A	106A-001	AUS-106A-001-SS-02	2 ft	Aluminum	14900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021. Sample groundwater from monitoring wells 106A-W01 and 106A-W02 to determine if metals and VOCs detected in soil samples at concentrations exceeding the STG criteria have impacted groundwater.
				Arsenic	16.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Barium	516	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Bis(2-Ethylhexyl) Phthalate	2000	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				cPAHs	324.36	ug/kg	H			2.1E+02			
				Boron	16.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				Cadmium	34.9	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	54	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	661	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	58400	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	442	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Nickel	77.5	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Tricholoethylene (TCE)	94	ug/kg	W1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
				Zinc	1660	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	106A-002	AUS-106A-002-SS-02	2 ft	Aluminum	40100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021. Sample groundwater from monitoring wells 106A-W01 and 106A-W02 to determine if metals and VOCs detected in soil samples at concentrations exceeding the STG criteria have impacted groundwater.
				Arsenic	22.6	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Barium	1730	mg/kg	EW1W2	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Bis(2-Ethylhexyl) Phthalate	2400	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	43.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	552.58	ug/kg	H			2.1E+02			
				Cadmium	58.9	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	239	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	3300	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Di-N-Butyl Phthalate	1700	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Iron	43600	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	583	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Mercury	0.32	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	370	mg/kg	EW1W2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	5.6	mg/kg	EW1	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Silver	5.3	mg/kg	EW2	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Tricholoethylene (TCE)	13000	ug/kg	EHW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
				Zinc	3160	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	106A-003	AUS-106A-003-SS-02	2 ft	Aluminum	36600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021. Sample groundwater from monitoring wells 106A-W01 and 106A-W02 to determine if metals and VOCs detected in soil samples at concentrations exceeding the STG criteria have impacted groundwater.
				Arsenic	21.6	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Boron	43.4	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	566.01	ug/kg	H			2.1E+02			
				Cadmium	203	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	1790	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	56300	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	416	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	87.4	mg/kg	H	2.6E+01	4.3E+02	4.0E+02			
				Nickel	4.1	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	140	ug/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Tricholoethylene (TCE)	2510	mg/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
				Zinc			E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

Table 5 - 251
Method for Addressing Soil Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-106A (continued)	106A-004	AUS-106A-004-SS-02	2 ft	Aluminum	30100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021. Sample groundwater from monitoring wells 106A-W01 and 106A-W02 to determine if metals and VOCs detected in soil samples at concentrations exceeding the STG criteria have impacted groundwater.
				Barium	519	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Bis(2-Ethylhexyl) Phthalate	6600	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	19.5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	327.91	ug/kg	H			2.1E+02			
				Cadmium	48.1	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	99	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	1570	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Iron	46100	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	434	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Nickel	143	mg/kg	EW1W2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Tricholoethylene (TCE)	2500	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
				Zinc	1590	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	106A-005	AUS-106A-005-SS-02	2 ft	Aluminum	51500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021. Sample groundwater from monitoring wells 106A-W01 and 106A-W02 to determine if metals and VOCs detected in soil samples at concentrations exceeding the STG criteria have impacted groundwater.
				Antimony	6.2	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Arsenic	13.7	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Bis(2-Ethylhexyl) Phthalate	4800	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	14.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	514.17	ug/kg	H			2.1E+02			
				Cadmium	28	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	103	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	1800	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Di-N-Butyl Phthalate	1000	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Iron	95600	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	2470	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Mercury	1.1	mg/kg	EW2	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
				Nickel	124	mg/kg	EW2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Tricholoethylene (TCE)	110	ug/kg	W1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
				Zinc	1140	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	106A-006	AUS-106A-006-SS-02	2 ft	Aluminum	49500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021. Sample groundwater from monitoring wells 106A-W01 and 106A-W02 to determine if metals and VOCs detected in soil samples at concentrations exceeding the STG criteria have impacted groundwater.
				Barium	1130	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Bis(2-Ethylhexyl) Phthalate	18000	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	30.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	577.559	ug/kg	H			2.1E+02			
				Cadmium	50.4	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	137	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	2370	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Di-N-Butyl Phthalate	11000	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Iron	43300	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	514	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Nickel	149	mg/kg	EW1W2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	7.7	mg/kg	EW1W2	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Silver	2.2	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	2110	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	106A-007	AUS-106A-007-SS-02	2 ft	Aluminum	47300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021. Sample groundwater from monitoring wells 106A-W01 and 106A-W02 to determine if metals and VOCs detected in soil samples at concentrations exceeding the STG criteria have impacted groundwater.
				Antimony	5.2	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Arsenic	15.2	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
				Barium	783	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
				Bis(2-Ethylhexyl) Phthalate	1600	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
				Boron	24.1	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
				cPAHs	623.81	ug/kg	H			2.1E+02			
				Cadmium	150	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	222	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	2530	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
				Di-N-Butyl Phthalate	5300	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
				Iron	63000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
				Lead	1260	mg/kg	EH	2.6E+01	4.3E+02	4.0E+02			
				Nickel	171	mg/kg	EW1W2	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	21.8	mg/kg	EW1W2	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Tricholoethylene (TCE)	260	ug/kg	HW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
				Vanadium	49.1	mg/kg	E	3.1E+01	4.6E+01	1.0E+02	6.0E+03	9.8E+02	
				Zinc	2100	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	106A-011	AUS-106A-011-SS-0X	0-0.5 ft	Aluminum	11500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021.
				Cadmium	2.2	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	24.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Copper	47.3	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
	106A-012	AUS-106A-012-SS-0X	0-0.5 ft	Aluminum	12300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil borings 106A-014 through 106A-021.
				Cadmium	1.6	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, Total	33.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
				Iron	24600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			

Table 5-252
List of USEPA 1998 Samples That Will Be Reverified

USEPA 1998 Soil Sample	AUS OU Area	Requires Verification?	Human Health or Ecological Screening Criteria	Proposed RI/FS Verification Soil Sample	Comments
1-1	Area 0001	No	Metals		At same location as 0001-004 which had similar metal concentrations.
18-01	Area 0018	Yes	Metals, PAHs	0018-012	
43-01	Area 0043	No	Metals		At same location as 0043-002 which had similar metal concentrations.
60-01	Area 0060	Yes	Metals	0060-007	
61-1	Area 0061	Yes	Metals, SVOCs	0061-016	
61-2	Area 0061	No	Metals, PAHs		No location provided in PA/SI or in USEPA sample sheets.
61-3	Area 0061	No	Metals, PAHs		No location provided in PA/SI or in USEPA sample sheets.
61-4	Area 0061	No	Metals, PAHs		No location provided in PA/SI or in USEPA sample sheets.
61-5	Area 0061	No	Metals		No location provided in PA/SI or in USEPA sample sheets.
61-6	Area 0061	No	Metals, PAHs		No location provided in PA/SI or in USEPA sample sheets.
61-7	Area 0061	No	No exceedances		No location provided in PA/SI or in USEPA sample sheets.
62-01C	Area 0062	No	Metals		At same location as 0062-002 which had lower Chromium and Nickel concentrations.
62-02C	Area 0062	No	Metals		At same location as 0062-001 which had lower Chromium and significantly lowere Nickel concentrations.
63-01	Area 0063	No	Metals		No longer in AUS OU RI/FS
64-01	Area 0064	No	Metals		No longer in AUS OU RI/FS
65-01	Area 0065	No	No exceedances		
65-02	Area 0065	Yes	Metals, PAHs	0065-010	
66-01	Area 0066	No	Metals		Slight Chromium exceedance. Proximal to proposed samples 0066-006 and 0066-007.
41-01	Area 10	Yes	Metals	0A10-022	
42-01	Area 10	No	Metals		Adjacent 0A10-002 which had similar metal concentrations. Additional soil samples proposed surrounding these samples.
42-02	Area 10	No	Metals		Adjacent 0A10-001 which had similar metal concentrations. Additional soil samples proposed surrounding these samples.
49-02	Area 11A	Yes	Metals	A11A-055.	
47-01C	Area 11H	Yes	Metals	A11H-126	
47-02C	Area 11H	Yes	Metals	A11H-127	Slight Zinc exceedance of ecological screening criteria. Adjacent to A11H-065 which has no metal exceedances.
49-03	Area 11P	Yes	Metals	A11P-084	
50-01	Area 11P	Yes	Metals	A11P-085	
44-01	Area 11S	No	PAHs		Adjacent to A11S-W03 which had no detections of PAHs.
44-02	Area 11S	Yes	Metals	A11S-070.	
44-03	Area 11S	No	No exceedances		The B qualifier adjacent to Bis(2-Ethylhexyl)phthalate is assumed to indicated blank contamination.
46-01C	Area 11S	Yes	Metals	A11S-102	
46-02	Area 11S	Yes	Metals	A11S-050	
46-03	Area 11S	Yes	Metals, PAHs	A11S-051	
46-04C	Area 11S	Yes	Metals	A11S-052	
49-01	Area 11S	Yes	Metals	A11S-103	
51-01	Area 12	No	Metals		Adjacent to 0A12-023 which had no exceedances.
51-02	Area 12	No	Metals		Adjacent to 0A12-048 which had no exceedances.

Table 5-252
List of USEPA 1998 Samples That Will Be Reverified

USEPA 1998 Soil Sample	AUS OU Area	Requires Verification?	Human Health or Ecological Screening Criteria	Proposed RI/FS Verification Soil Sample	Comments
52-01	Area 12	Yes	Metals	0A12-103	
52-02	Area 12	No	Metals		No location provided in PA/SI or in USEPA sample sheets.
58-01	Area 12	Yes	Metals, PAHs	0A12-208	Adjacent to 0A12-076 which had no PAH exceedances. However, Agencies have requested further confirmation.
59-01	Area 13	No	Metals		No location provided in PA/SI or in USEPA sample sheets.
6-01	Area 2B	Yes	Metals, PAHs	0A2B-045	
6-02	Area 2B	Yes	Metals	0A2B-046	
6-03	Area 2B	Yes	Metals	0A2B-047	
6-04	Area 2B	Yes	Metals, PAHs	0A2B-048	
6-05	Area 2B	Yes	Metals	0A2B-048	
6-06	Area 2B	Yes	Metals	0A2B-087	
6-07	Area 2B	Yes	Metals	0A2B-049	
5-01	Area 2D	Yes	Metals, PAHs	0A2B-137	
5-02	Area 2D	Yes	Metals	0A2D-151	
7-01	Area 2D	Yes	Metals, PAHs	0A2D-085	
7-02	Area 2D	Yes	Metals, PAHs	0A2D-086	
7-03	Area 2D	Yes	Metals, PAHs	0A2D-087	
7-04	Area 2D	Yes	Metals	0A2D-088	
7-05	Area 2D	Yes	Metals, SVOCs	0A2D-072	
3-01	Area 2F	Yes	Metals	0A2F-042	
3-02	Area 2F	Yes	Metals	0A2F-042	
8-01	Area 2F	No			No analytical results reported.
8-02	Area 2F	No	Zinc		Adjacent to 0A2F-W01 which has no metal exceedances.
8-03	Area 2F	Yes	PAHs	0A2F-043	
8-04	Area 2F	Yes	Metals	0A2F-062	
8-05	Area 2F	Yes	Metals, PAHs	0A2F-044	
8-06	Area 2F	Yes	Chromium	0A2F-063	
9-01	Area 2F	No	Metals, PAHs		Adjacent to 0A2F-002 which has no exceedances.
10-01	Area 2P	Yes	Metals	0A2F-046	
83-01	Area 2R	No	2-Methylnaphthlane		Adjacent to 0A2R-004 which had numerous PAH exceedances.
83-02	Area 2R	Yes	Metals, PAHs	0A2R-019	
15-01	Area 4W	No	Metals		Adjacent to 0A4W-008 which has no exceedances.
17-01	Area 4E	Yes	Metals	0A4E-057	
13-01C	Area 4W	Yes	Metals	0A4W-033	
13-02C	Area 4W	Yes	Metals	0A4W-034	
13-03C	Area 4W	Yes	Metals	0A4W-033	
20-1	Area 6	No	Chromium		No location provided in PA/SI or in USEPA sample sheets.
20-2	Area 6	No	Metals, PAHs		No location provided in PA/SI or in USEPA sample sheets.
26-01	Area 8S	Yes	Metals	0A8S-068	
29-01	Area 8S	No	Metals, SVOCs		Adjacent to PA/SI sample 0A8S-019 which had no chromium exceedances. 2,4-DNT and di-n-butyl phthalate were detected in 0A8S-019. Therefore the results of this sample have been verified.

Table 5-252
List of USEPA 1998 Samples That Will Be Reverified

USEPA 1998 Soil Sample	AUS OU Area	Requires Verification?	Human Health or Ecological Screening Criteria	Proposed RI/FS Verification Soil Sample	Comments
29-02	Area 8S	No	Chromium		Adjacent to PA/SI sample 0A8S-W03 which had no chromium exceedances.
32-01C	Area 8S	No	Bis(2-ethylhexyl) phthalate		The EPF states that the direct exposure SC for this constituentn is based on Region V EDQL: rationale unknown. Toxicity-based SCs for other phthalates are in hundreds of ppm range. Retain as an uncertainty, but no quantitative evaluation as a COPEC.

Table 5 - 253
Method for Addressing Drum and Sewer Line Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2B	0A2B-002	AUS-0A2B-002-DRUM	Aluminum	9180	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Soil samples were collected at depths of 0-0.5 feet and 1 foot at the location of this drum. Based on the results of these soil samples, soil borings 0A2B-048,0A2B-049,0A2B-063,0A2B-064 were proposed. Additionally, a deeper boring is proposed adjacent to 0A2B-002 to determine vertical extent of Chromium exceeding STG criteria in the soil samples.
			Antimony	5.4	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
			Barium	1500	mg/kg	E	2.4E+02	5.0E+02	6.7E+03	1.6E+03	1.5E+03	
			Boron	143	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
			Chromium, Total	191	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
			Copper	17.5	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
			Iron	34300	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
			Silver	4	mg/kg	E	6.9E-01	2.0E+00	5.1E+02	3.4E+01	4.4E+00	
			Zinc	166	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
AUS-0A8S	0A8S-005	AUS-0A8S-005-DRUM										
	0A8S-030	AUS-0A8S-030-SL	Arsenic	17.3	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	This appears to be an active sewer line. No additional sampling is proposed in this area.
			Benzo(a)pyrene	1100	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
			Benzo(b)fluoranthene	1400	ug/kg	E		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
			Cadmium	0.39	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
			Chromium, Total	14.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
			cPAHs	593.27	ug/kg	H			2.1E+02			
			Dibenz(a,h)anthracene	240	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
			Iron	35700	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
			Manganese	2380	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
	0A8S-034	AUS-0A8S-034-SL										
AUS-0A09	0A09-004	AUS-0A09-004-SL										
AUS-A11H	A11H-025	AUS-A11H-025-SL	Aluminum	14700	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil boring A11H-122.
			Chromium, Total	20.1	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
			Zinc	121	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-029	AUS-A11H-029-SL										
	A11H-064	AUS-A11H-064-SL	Benzo(a)pyrene	1800	ug/kg	H		3.3E+03	2.1E+02	8.0E+03	8.0E+03	Proposed soil boring A11H-080.
			Benzo(b)fluoranthene	2500	ug/kg	E		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
			4-Amino-4,6-Dinitrotolune	280	ug/kg	W2		8.0E+04	1.2E+04		3.1E+01	
			Boron	28.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
			Cadmium	0.63	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
			Chromium, Total	14.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
			Dibenz(a,h)anthracene	340	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
			cPAHs	2662.9	ug/kg	H			2.1E+02			
			Iron	20500	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
			Mercury	0.38	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
			Zinc	176	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
AUS-A11P	A11P-027	AUS-A11P-027-SL	2,4-Dinitrotolune	530	ug/kg	W1W2		1.3E+03	2.5E+03	8.0E-01	8.0E-01	Proposed soil boring A11P-042. Collect groundwater samples from proposed monitoring well AUS-A11P-W05 to determine if constituents exceeding STG criteria have impacted groundwater.
			Aluminum	28400	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			
			Arsenic	26.8	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
			Bis (2-ethylhexyl) phthalate	57000	ug/kg	E		9.3E+02	1.2E+05		3.6E+06	
			Boron	32	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
			cPAHs	470.84	ug/kg	H			2.1E+02			
			Cadmium	3.1	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
			Chromium, Total	61.2	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
			Cobalt	70.8	mg/kg	E	9.3E+00	2.0E+01	1.9E+03			
			Copper	187	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
			Di-n-butyl Phthalate	5900	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
			Iron	42600	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
			Manganese	15200	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03			
			Nickel	74.6	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
			Selenium	22.5	mg/kg	EW1W2	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00	
			Vanadium	47.4	mg/kg	E	3.1E+01	4.6E+01	7.2E+02	6.0E+03	9.8E+02	
			Zinc	1100	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
AUS-A11S	A11S-030	AUS-A11S-030-SL	Aluminum	16600	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Proposed soil boring A11S-049. Collect groundwater samples from proposed monitoring well AUS-A11P-W09 to determine if constituents exceeding STG criteria have impacted groundwater.
			Benzo(a)anthracene	3700	ug/kg	EHW1W2		3.0E+03	2.1E+03	2.0E+03	2.0E+03	
			Benzo(a)pyrene	4200	ug/kg	EH		3.3E+03	2.1E+02	8.0E+03	8.0E+03	
			Benzo(b)fluoranthene	6700	ug/kg	EHW1W2		1.2E+03	2.1E+03	5.0E+03	5.0E+03	
			Cadmium	0.81	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
			Carbazole	630	ug/kg	W1W2		1.3E+04	8.6E+04	6.0E+02	6.0E+02	
			cPAHs	6336	ug/kg	H			2.1E+02			
			Chromium, Total	23.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
			Dibenz(a,h)anthracene	790	ug/kg	H		1.8E+04	2.1E+02	2.0E+03	2.0E+03	
			Indeno(1,2,3-c,d)pyrene	2800	ug/kg	H		9.0E+04	2.1E+03	1.4E+04	1.4E+04	
			Iron	21600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04			
			Mercury	0.29	mg/kg	E	2.8E-01	1.5E-01	3.1E+01		8.9E-01	
			Zinc	147	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
AUS-0A12	0A12-002	AUS-0A12-023-SS-0X	Cadmium	0.63	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil samples collected at this location (0A12-023) at depths of 0-0.5 feet and 1 foot. Slight exceedance of Ecological Screening Criteria for Cadmium was reported in the soil sample collected from 0-0.5 feet.

Table 5 - 253
Method for Addressing Drum and Sewer Line Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-106A	106A-008	AUS-106A-008-DRUM	Boron	33.6	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			Adjacent to numerous existing PA/SI soil samples. Delineated by several proposed soil boring locations. Exceedance of STG criteria will be investigated by collecting groundwater samples from proposed monitoring well AUS-106A-W01.
			cPAHs	623.81	ug/kg	H			2.1E+02			
			Zinc	530	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	106A-009	AUS-106A-009-DRUM	Aluminum	12500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Adjacent to numerous existing PA/SI soil samples. Delineated by several proposed soil boring locations. Exceedance of STG criteria will be investigated by collecting groundwater samples from proposed monitoring well AUS-106A-W03 to determine if groundwater has been impacted.
			Antimony	6.5	mg/kg	EW1W2	4.2E-01	5.0E+00	4.1E+01	5.0E+00	5.0E+00	
			Arsenic	14.1	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01	
			Boron	5.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
			Cadmium	45.8	mg/kg	EHW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
			cPAHs	476.92	ug/kg	H			2.1E+02			
			Chromium, Total	23.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
			Copper	319	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
			Di-n-butyl Phthalate	1400	ug/kg	E		7.1E+02	2.3E+06	2.3E+06	2.3E+06	
			Iron	36500	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
			Zinc	10700	mg/kg	EW2	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	106A-010	AUS-106A-010-DRUM	Aluminum	9690	mg/kg	E	9.1E+03	5.0E+01	9.2E+04			Adjacent to numerous existing PA/SI soil samples. Delineated by several proposed soil boring locations. Exceedance of STG criteria will be investigated by collecting groundwater samples from proposed monitoring well AUS-106A-W02.
			Boron	4.7	mg/kg	E	4.6E+00	5.0E-01	1.8E+04			
			cPAHs	389.73	ug/kg	H			2.1E+02			
			Cadmium	12.3	mg/kg	EW1W2	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00	
			Chromium, Total	57.1	mg/kg	EW1W2	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01	
			Copper	410	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04	
			Iron	101000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04			
			Nickel	76	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02	
			Trichloroethylene (TCE)	62	ug/kg	W1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01	
			Zinc	734	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

Table 5- 254
Method for Addressing Sediment Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A2D	0A2D-044	AUS-A2D-044-SD-0X	0-0.5 ft										
AUS-0A4E	0A4E-007	AUS-0A4E-007-SD-0X	0-0.5 ft	2-Methylnaphthalene	300	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	
				Acenaphthylene	320	ug/kg	E		4.4E+01	1.8E+03	8.4E+04	2.4E+04	
				Arsenic	14.6	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI samples 0A4E-006 and 0A4E-008; Proposed soil boring location 0A4E-026.
				Benzo(b)fluoranthene	75	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	100	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Cadmium	1.7	mg/kg	E	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				Chrysene	380	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Copper	33.1	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				Indeno(1,2,3-c,d)pyrene	44	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	79.2	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Manganese	5410	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
				Nickel	26.7	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Pyrene	390	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	163	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A4E-008	AUS-0A4E-008-SD-0X	0-0.5 ft	Benzo(g,h,i)perylene	19	ug/kg	E		1.6E+01				Existing PA/SI sample 0A4E-007; Proposed soil boring location 0A4E-048.
	0A4E-009	AUS-0A4E-009-SD-0X	0-0.5 ft	Arsenic	23.6	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sample 0A4E-013; Proposed soil boring location 0A4E-038 and proposed sediment sample 0A4E-039.
				Lead	79	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
	0A4E-010	AUS-0A4E-010-SD-0X	0-0.5 ft	2-Methylnaphthalene	300	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	
				Acenaphthylene	150	ug/kg	E		4.4E+01	1.8E+03	8.4E+04	2.4E+04	
				Benzo(g,h,i)perylene	20	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	Proposed soil boring locations 0A4E-053 and 0A4E-054.
				Lead	54.2	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Zinc	143	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A4E-012	AUS-0A4E-012-SD-0X	0-0.5 ft	2-Methylnaphthalene	130	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	
				cPAH	554.457	ug/kg	H			2.1E+03			Proposed soil boring locations 0A4E-055 and 0A4E-056. Proposed soil boring 0A4E-061 to verify cPAH exceedance.
				Lead	91	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Zinc	123	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A4E-013	AUS-0A4E-013-SD-0X	0-0.5 ft	Arsenic	12	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI samples 0A4E-006 and 0A4E-009; Proposed soil boring location 0A4E-056.
AUS-0A07	0A07-022	AUS-0A07-022-SD-0X	0-0.5 ft										
	0A07-024	AUS-0A07-024-SD-0X	0-0.5 ft										
	0A07-025	AUS-0A07-025-SD-0X	0-0.5 ft	4,4'-DDD	19	ug/kg	E		4.9E+00	1.0E+04	1.6E+04	1.6E+04	
				Aldrin	14	mg/kg	E		2.0E+00	1.0E+02	5.0E+02	5.0E+02	
				Arsenic	25.2	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI samples 0A07-006, 0A07-060, 0A07-062, and 0A07-071. Proposed sediment sample 0A07-245. Proposed soil boring 0A07-288 to verfiy cPAH exceedance.
				cPAH	1502.15	ug/kg	H			2.1E+03			
				Manganese	1180	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			
				Zinc	144	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A07-063	AUS-0A07-063-SD-0X	0-0.5 ft	4,4'-DDD	39	ug/kg	E		4.9E+00	1.0E+04	1.6E+04	1.6E+04	Existing PA/SI samples 0A07-064 and 0A07-079.
				4,4'-DDT	48	ug/kg	E		4.2E+00	7.0E+03	3.2E+04	3.2E+04	
	0A07-064	AUS-0A07-064-SD-0X	0-0.5 ft										
	0A07-065	AUS-0A07-065-SD-0X	0-0.5 ft										
	0A07-066	AUS-0A07-066-SD-0X	0-0.5 ft										
	0A07-067	AUS-0A07-067-SD-0X	0-0.5 ft	4,4'-DDT	4.7	ug/kg	E		4.2E+00	7.0E+03	3.2E+04	3.2E+04	Existing PA/SI samples 0A07-066. Proposed sediment samples 0A07-245 and 0A07-246.
	0A07-068	AUS-0A07-068-SD-0X	0-0.5 ft										
	0A07-069	AUS-0A07-069-SD-0X	0-0.5 ft										
	0A07-079	AUS-0A07-079-SD-0X	0-0.5 ft										
	0A07-080	AUS-0A07-080-SD-0X	0-0.5 ft										
	0A07-081	AUS-0A07-081-SD-0X	0-0.5 ft										
AUS-0A8S	0A8S-001	AUS-0A8S-001-SD-0X	0-0.5 ft	Mammal TEQ	0.16	ng/kg			3.3E+00	1.6E+01			
				Bird TEQ	0.09	ng/kg			3.3E+00	1.6E+01			Proposed sediment samples 0A8S-055 and 0A8S-057. TEQ values do not exceed current screening values; however, dioxins/furans will be carried forward as a COPEC in sediment samples. Further investigation will be conducted in Phase II based on risk evaluation.
				Manganese	1150	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			
				Zinc	176	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A8S-002	AUS-0A8S-002-SD-0X	0-0.5 ft	Mammal TEQ	0.42	ng/kg			3.3E+00	1.6E+01			TEQ values do not exceed current screening values; however, dioxins/furans will be carried forward as a COPEC in sediment samples.
				Bird TEQ	0.21	ng/kg			3.3E+00	1.6E+01			Further investigation will be conducted in Phase II based on risk evaluation.
	0A8S-003	AUS-0A8S-003-SD-0X	0-0.5 ft										
	0A8S-006	AUS-0A8S-006-SD-0X	0-0.5 ft	Mammal TEQ	0.77	ng/kg			3.3E+00	1.6E+01			TEQ values do not exceed current screening values; however, dioxins/furans will be carried forward as a COPEC in sediment samples.
				Bird TEQ	0.88	ng/kg			3.3E+00	1.6E+01			Further investigation will be conducted in Phase II based on risk evaluation.
	0A8S-011	AUS-0A8S-011-SD-0X	0-0.5 ft										
	0A8S-012	AUS-0A8S-012-SD-0X	0-0.5 ft	Benzo(b)fluoranthene	100	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				cPAH	355.71	ug/kg	H			2.1E+03			Proposed soil boring locations 0A8S-067 and 0A8S-068. Proposed soil boring 0A8S-071 to verify cPAH exceedance.
				Benzo(k)anthracene	61	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
	0A8S-023	AUS-0A8S-023-SD-0X	0-0.5 ft	2-Methylnaphthalene	110	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	
				Aluminum	27900	mg/kg	E	1.1E+04	2.6E+04	1.0E+05			
				Antimony	3.8	mg/kg	E	1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00	
				Arsenic	63.2	mg/kg	EHW1W2	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(a)anthracene	170	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	260	ug/kg	EH		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	340	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	300	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	280	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	757.09	ug/kg	H			2.1E+03			Proposed soil sample locations 0A8S-059,0A8S-060,0A83-061, and 0A8S-066. Proposed sediment sample 0A8S-051. Sample proposed monitoring well AUS-0A8S-W110 to determine if groundwater has been impacted by metals.
				Cadmium	5.5	mg/kg	EW2	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, total	59.7	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Chrysene	290	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Copper	3330	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				Indeno(1,2,3-c,d)pyrene	180	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Iron	103000	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Lead	665	mg/kg	EH	2.4E+01	3.6E+01	4.0E+02			
				Manganese	1180	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			
				Nickel	58.9	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Pyrene	340	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	1800	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A8S-024	AUS-0A8S-024-SD-0X	0-0.5 ft										
	0A8S-032	AUS-0A8S-032-SD-0X	0-0.5 ft	2,6-Dinitrotoluene	540	ug/kg	EW1W2		8.6E+01	2.5E+03	7.0E-01	7.0E-01	
				2-Methylnaphthalene	3700	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	
				Anthracene	140	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Arsenic	15	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(a)anthracene	210	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(b)fluoranthene	130	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	Proposed soil sample locations 0A8S-069 and 0A8S-070. Proposed sediment sample 0A8S-058. Sample proposed monitoring well AUS-0A8S-W10 to determine if groundwater has been impacted by explosives.
				cPAH	420.59	ug/kg	H			2.1E+03			
				Chrysene	190	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Naphthalene	1700	ug/kg	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
				Phenanthrene	1400	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	370	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
	0A8S-033	AUS-0A8S-033-SD-0X	0-0.5 ft						1.0E+01	3.1E+06		5.7E+03	

Table 5- 254
Method for Addressing Sediment Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A09	0A09-021	AUS-0A09-021-SD-0X	0-0.5 ft	2-Methylnaphthalene	2100	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Proposed soil sample locations 0A09-051, 0A09-052, and 0A09-053. The STG exceedance will be addressed in Phase II.
				4-Amino-4,6-Dinitrotolune	1300	ug/kg	W2			1.2E+04		3.1E+01	
				Acenaphthylene	82	ug/kg	E		4.4E+01	1.8E+03	8.4E+04	2.4E+04	
				Anthracene	130	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(a)anthracene	290	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	320	ug/kg	EH		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	330	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	200	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	340	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	604.83	ug/kg	H			2.1E+03			
				Chrysene	430	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				HMX	850	ug/kg	E		1.0E+01	3.1E+06		5.7E+03	
				Indeno(1,2,3-c,d)pyrene	140	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	63.9	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Naphthalene	1000	ug/kg	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
				Phenanthrene	1100	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	440	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
AUS-0A10	0A10-003	AUS-0A10-003-SD-0X	0-0.5 ft										
	0A10-004	AUS-0A10-004-SD-0X	0-0.5 ft	Zinc	122	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Zinc only slightly exceeds screening standard. This exceedance will be addressed in subsequent investigations.
AUS-A11A	A11A-001	AUS-A11A-001-SD-0X	0-0.5 ft	Manganese	1140	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			Existing PA/SI sediment sample A11P-032. Proposed soil boring location A11A-066.
				Mercury	0.24	mg/kg	E	1.5E-01	1.8E-01	3.1E+01		8.9E-01	
	A11A-005	AUS-A11A-005-SD-0X	0-0.5 ft										
	A11A-006	AUS-A11A-006-SD-0X	0-0.5 ft	2,4-Dinitrotoluene	63	ug/kg	W1W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01	Proposed soil boring locations A11A-067 and A11A-068. Proposed sediment sample 0A11-024. Explosives were not detected in the surface water sample collected at same location a sediment sample; therefore, it does not appear that 2,4-Dinitrotoluene detected in the sediment sample at concentrations exceeding the STG has impacted groundwater or surface water in this area. The surface water at this location will be resampled. If the additional soil and sediment samples proposed in this area indicate constituent concentrations exceeding the STG criteria in this area, additional investigation will be conducted during the Phase II investigation. Proposed soil boring A11A-070 to verify cPAH exceedance.
				Benzo(b)fluoranthene	100	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				cPAH	562.559	ug/kg	H			2.1E+03			
				Iron	36100	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Manganese	1480	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			
				N-Nitrosodiphenylamine	710	mg/kg	E		7.0E+02	3.5E+05	1.0E+03	1.0E+03	
	A11A-007	AUS-A11A-007-SD-0X	0-0.5 ft										
	A11A-008	AUS-A11A-008-SD-0X	0-0.5 ft	Arsenic	53.5	mg/kg	EHW1W2	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil boring locations 0A11-023, A11A-059, and A11A-060. Sample proposed monitoring well AUS-A11A-W08 to determine if groundwater has been impacted by metals exceeding the STG criteria in the soil samples.
				Chromium, total	40.5	mg/kg	W1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Cobalt	61.4	mg/kg	E	9.1E+00	5.0E+01	1.9E+03			
				Iron	65700	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Lead	92	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Manganese	8960	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			
				Nickel	32.7	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	5.2	mg/kg	W1	6.4E-01		5.1E+02	5.0E+00	6.3E+00	
				Vanadium	138	mg/kg	H	2.8E+01		1.0E+02	6.0E+03	9.8E+02	
				Zinc	240	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11A-009	AUS-A11A-009-SD-0X	0-0.5 ft	2-Methylnaphthalene	130	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Proposed sediment sample locations 0A11-025 and 0A11-026.
				Arsenic	25.7	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(b)fluoranthene	95	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	51	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	36	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				Indeno(1,2,3-c,d)pyrene	32	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Iron	35600	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Lead	40.1	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Zinc	137	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11A-010	AUS-A11A-010-SD-0X	0-0.5 ft	Arsenic	16.1	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Proposed sediment samples locations 0A11-025 and 0A11-007.
	A11A-011	AUS-A11A-011-SD-0X	0-0.5 ft	Lead	37.6	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			Proposed sediment samples location 0A11-027 and soil boring location A11A-069.
				Zinc	261	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11A-014	AUS-A11A-014-SD-0X	0-0.5 ft	Zinc	326	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Existing PA/SI soil sample A11P-015. Proposed soil boring location A11A-069.
	A11A-016	AUS-A11A-016-SD-0X	0-0.5 ft										
	A11A-017	AUS-A11A-017-SD-0X	0-0.5 ft										
	A11A-021	AUS-A11A-021-SD-0X	0-0.5 ft										
	A11A-022	AUS-A11A-022-SD-0X	0-0.5 ft										
	A11A-023	AUS-A11A-023-SD-0X	0-0.5 ft	Nickel	23.2	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	Existing PA/SI sediment sample A11A-022. Proposed soil boring locations A11A-044 and A11A-047.
				Zinc	155	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11A-024	AUS-A11A-024-SD-0X	0-0.5 ft	2-Methylnaphthalene	86	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI soil sample A11A-018 and sediment samples A11A-022, A11A-035, and A11A-036. Proposed soil boring A11A-071 to verify cPAH exceedance.
				cPAH	430.1	ug/kg	H			2.1E+03			
				Benzo(b)fluoranthene	110	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(k)anthracene	98	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
	A11A-026	AUS-A11A-026-SD-0X	0-0.5 ft	Arsenic	10.5	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment samples A11A-028 and A11A-032. Proposed soil boring locations A11A-050 and A11A-055. Sample proposed monitoring well AUS-A11A-W10 to determine if groundwater has been impacted by Chromium and/or pentachlorophenol exceeding the STG criteria in the soil samples. Proposed soil boring A11A-072 to verify cPAH exceedance.
				Benzo(b)fluoranthene	180	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	61	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	63	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	348.04	ug/kg	H			2.1E+03			
				Chromium, total	102	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Pentachlorophenol	65	ug/kg	W1W2		7.4E+01	9.0E+03	3.0E+01	4.0E+01	
				Zinc	143	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11A-028	AUS-A11A-028-SD-0X	0-0.5 ft	Chromium, total	60.3	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	Proposed soil boring locations A11A-042, A11A-054, and A11A-055.
	A11A-031	AUS-A11A-031-SD-0X	0-0.5 ft										
	A11A-032	AUS-A11A-032-SD-0X	0-0.5 ft										
	A11A-033	AUS-A11A-033-SD-0X	0-0.5 ft										
	A11A-034	AUS-A11A-034-SD-0X	0-0.5 ft	2-Methylnaphthalene	260	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI sediment samples A11A-032 and A11A-033. Proposed sediment/surface water samples 0A11-007 and 0A11-008. Groundwater samples collected from the proposed monitoring well A11A-W04 located downngradient of the Acid Magazine Pond will be used to determine if constituents detected in the soil sample exceeding the STG criteria have impacted groundwater. Proposed soil boring A11A-073 to verify cPAH exceedance.
				Benzo(b)fluoranthene	150	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	56	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	55	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	360.96	ug/kg	H			2.1E+03			
				Chromium, total	98.3	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Indeno(1,2,3-c,d)pyrene	60	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Mercury	0.21	mg/kg	E	1.5E-01	1.8E-01	3.1E+01		8.9E-01	
				Pentachlorophenol	170	ug/kg	EW1W2		7.4E+01	9.0E+03	3.0E+01	4.0E+01	
				Pyrene	210	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
	A11A-035	AUS-A11A-035-SD-0X	0-0.5 ft	2-Methylnaphthalene	300	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI sediment samples A11A-11, A11A-14, A11A-22, and A11A-24. Proposed soil boring A11A-074 to verify cPAH exceedance.
				Benzo(b)fluoranthene	110	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(k)anthracene	100	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	335.35	ug/kg	H			2.1E+03			
				Zinc	162	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

Table 5- 254
Method for Addressing Sediment Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11A (continued)	A11A-036	AUS-A11A-036-SD-0X	0-0.5 ft	2-Methylnaphthalene	280	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Proposed soil boring locations A11A-061, A11A-062, and A11A-063. Sample proposed monitoring well AUS-A11A-W09 to determine if groundwater has been impacted by PAHs exceeding the STG criteria in the soil samples.
				Acenaphtene	44	ug/kg	E		1.6E+01	2.9E+06	5.7E+05	5.7E+05	
				Anthracene	260	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(a)anthracene	2600	ug/kg	EHW1W2		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	2700	ug/kg	EH		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	2200	ug/kg	EH		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	1800	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	2600	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	4488.6	ug/kg	H			2.1E+03			
				Chrysene	2600	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Dibenz(a,h)anthracene	1100	ug/kg	EH		3.3E+01	2.1E+02	2.0E+03	2.0E+03	
				Fluoranthene	3800	ug/kg	E		4.2E+02	2.2E+06	4.3E+06	4.3E+06	
				Indeno(1,2,3-c,d)pyrene	1800	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Phenanthrene	690	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	3800	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
	A11A-037	AUS-A11A-037-SD-0X	0-0.5 ft										
AUS-A11H	A11H-002	AUS-A11H-002-SD-0X	0-0.5 ft	Zinc	124	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Zinc only slightly exceeds screening standard. This exceedance will be addressed in subsequent investigations.
	A11H-003	AUS-A11H-003-SD-0X	0-0.5 ft										
		AUS-A11H-003-SD-02	2 ft										
	A11H-005	AUS-A11H-005-SD-0X	0-0.5 ft	2-Methylnaphthalene	110	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Proposed soil boring location A11H-115.
		AUS-A11H-005-SD-02	2 ft										
	A11H-007	AUS-A11H-007-SD-0X	0-0.5 ft	Cadmium	30.9	mg/kg	EW1W2	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	Proposed soil boring locations A11H-116, A11H-117, and A11H-118. Sample proposed monitoring well AUS-A11A-W11 to determine if groundwater has been impacted by PAHs exceeding the STG criteria in the soil samples.
				Lead	52.3	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Nickel	29.2	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	386	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-008	AUS-A11H-008-SD-0X	0-0.5 ft	1,3,5-Trinitrobenzene	490	ug/kg	E		4.1E+01	1.8E+06		9.7E+02	Proposed soil boring locations A11H-116, A11H-117, and A11H-118. Sample proposed monitoring well AUS-A11A-W12 to determine if groundwater has been impacted by Explosives exceeding the STG criteria in the soil samples.
				1,3-Dinitrobenzene	460	ug/kg	EW2		5.0E+00	6.2E+03		3.6E+00	
				2,4-Dinitrotoluene	510	ug/kg	W1W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01	
				Cadmium	5.1	mg/kg	E	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				Nitrobenzene	540	ug/kg	W1W2		5.9E+02	9.4E+03	1.0E+02	1.0E+02	
		AUS-A11H-008-SD-01	1 ft										
	A11H-009	AUS-A11H-009-SD-0X	0-0.5 ft	Lead	46.5	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			Proposed soil boring locations A11H-119 and A11H-120.
	A11H-010	AUS-A11H-010-SD-0X	0-0.5 ft	Zinc	132	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Existing PA/SI sediment sample A11H-012. Proposed soil boring location A11H-079.
	A11H-011	AUS-A11H-011-SD-0X	0-0.5 ft										
	A11H-012	AUS-A11H-012-SD-0X	0-0.5 ft	2,4-Dinitrotoluene	140	ug/kg	W1W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01	Existing PA/SI soil samples A11H-015 and A11H-068. Existing PA/SI sediment sample A11H-010. Proposed soil boring A11H-132 to verify cPAH exceedance.
				cPAH	716.41	ug/kg	H			2.1E+03			
				N-Nitrosodiphenylamine	2300	ug/kg	EW1W2		7.0E+02	3.5E+05	1.0E+03	1.0E+03	
				Zinc	378	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-014	AUS-A11H-014-SD-0X	0-0.5 ft										
	A11H-017	AUS-A11H-017-SD-0X	0-0.5 ft										
	A11H-018	AUS-A11H-018-SD-0X	0-0.5 ft	cPAH	517.751	ug/kg	H			2.1E+03			Proposed sediment/surface water samples 0A11-028 and 0A11-029. Proposed soil boring A11H-128 to verify cPAH exceedance.
				Benzo(b)fluoranthene	94	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
	A11H-019	AUS-A11H-019-SD-0X	0-0.5 ft	2-Methylnaphthalene	180	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI sediment sample A11H-020. Proposed soil boring locations A11H-121.
				Benzo(g,h,i)perylene	18	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Zinc	288	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-020	AUS-A11H-020-SD-0X	0-0.5 ft	2,4,6-Trinitrotoluene	1800	ug/kg	EW2						Existing PA/SI sediment samples A11H-019 and A11H-022. Proposed soil boring locations A11H-074 and sediment sample location A11H-029. Collect groundwater samples from proposed monitoring well AUS-A11H-W10 to determine if constituents exceeding STG criteria have impacted groundwater. Proposes soil boring A11H-133 to verify cPAH exceedance.
				2,4-Dinitrotoluene	5900	ug/kg	EHW1W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01	
				2,6-Dinitrotoluene	430	ug/kg	EW1W2		8.6E+01	2.5E+03	7.0E-01	7.0E-01	
				Cadmium	6.8	mg/kg	EW2	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAH	693.3	ug/kg	H			2.1E+03			
				Di-n-butyl Phthalate	13000	ug/kg	E		1.1E+04	2.3E+06	2.3E+06	2.3E+06	
				HMX	10000	ug/kg	EW2		1.0E+01	3.1E+06		5.7E+03	
				Nitroglycerin	13000	ug/kg	EW2		3.3E+02	1.0E+05		2.0E+01	
				N-Nitrosodiphenylamine	2200	ug/kg	EW1W2		7.0E+02	3.5E+05	1.0E+03	1.0E+03	
				Zinc	437	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-020	AUS-A11H-020-SD-01	1 ft										
	A11H-022	AUS-A11H-022-SD-0X	0-0.5 ft	2,4-Dinitrotoluene	210000	ug/kg	EHW1W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01	Existing PA/SI sediment samples A11H-019, A11H-020, and A11H-026. Collect groundwater samples from proposed monitoring well AUS-A11H-W07 to determine if constituents exceeding STG criteria have impacted groundwater.
				2,6-Dinitrotoluene	15000	ug/kg	EHW1W2		8.6E+01	2.5E+03	7.0E-01	7.0E-01	
				Di-n-butyl Phthalate	53000	ug/kg	E		1.1E+04	2.3E+06	2.3E+06	2.3E+06	
				N-Nitrosodiphenylamine	7800	ug/kg	EW1W2		7.0E+02	3.5E+05	1.0E+03	1.0E+03	
				Zinc	215	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-022	AUS-A11H-022-SD-01	1 ft										
	A11H-023	AUS-A11H-023-SD-0X	0-0.5 ft										
	A11H-026	AUS-A11H-026-SD-0X	0-0.5 ft										
	A11H-030	AUS-A11H-030-SD-0X	0-0.5 ft	Arsenic	13.2	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil boring locations A11H-085, A11H-086, and A11H-123.
				Lead	37.9	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Zinc	224	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-031	AUS-A11H-031-SD-0X	0-0.5 ft	cPAH	704.855	ug/kg	H			2.1E+03			Proposed soil boring A11H-134 to verify cPAH exceedance.
	A11H-033	AUS-A11H-033-SD-0X	0-0.5 ft										
	A11H-035	AUS-A11H-035-SD-0X	0-0.5 ft	cPAH	727.965	ug/kg	H			2.1E+03			Proposed soil boring A11H-135 to verify cPAH exceedance.
	A11H-036	AUS-A11H-036-SD-0X	0-0.5 ft	Lead	287	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			Existing PA/SI sediment sammple A11H--35. Proposed soil boring location A11H-124.
	A11H-038	AUS-A11H-038-SD-0X	0-0.5 ft										
	A11H-040	AUS-A11H-040-SD-0X	0-0.5 ft										
	A11H-041	AUS-A11H-041-SD-0X	0-0.5 ft	Arsenic	25	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil boring locations A11H-094, A11H-095, A11H-096, and A11H-097. Collect groundwater samples from proposed monitoring well AUS-A11H-W13 to determine if constituents exceeding STG criteria have impacted groundwater.
				Chromium, total	57	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Iron	63400	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Lead	85.5	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Nickel	23.2	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
	A11H-042	AUS-A11H-042-SD-0X	0-0.5 ft										
	A11H-043	AUS-A11H-043-SD-0X	0-0.5 ft										
	A11H-045	AUS-A11H-045-SD-0X	0-0.5 ft	Benzo(b)fluoranthene	58	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	Existing soil sample A11H-044. Proposed soil boring location A11H-078. Proposed soil boring A11H-129 to verify cPAH exceedance.
				Benzo(g,h,i)perylene	320	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	46	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	344.439	ug/kg	H			2.1E+03			
				Copper	32.9	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				Indeno(1,2,3-c,d)pyrene	91	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	354	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Nickel	22.9	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	

Table 5- 254
Method for Addressing Sediment Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11H (continued)	A11H-046	AUS-A11H-046-SD-0X	0-0.5 ft	Lead	63.6	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			Existing sediment sample A11H-051. Proposed soil boring location A11H-125.
	A11H-048	AUS-A11H-048-SD-0X	0-0.5 ft										
	A11H-050	AUS-A11H-050-SD-0X	0-0.5 ft	Arsenic	10.8	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing soil sample A11H-049.
				Zinc	139	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-051	AUS-A11H-051-SD-0X	0-0.5 ft										
	A11H-054	AUS-A11H-054-SD-0X	0-0.5 ft	Copper	37.7	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	Existing sediment and soil samples A11H-051, A11H-052, and A11H-055. Proposed soil boring location A11N-055.
				Lead	44.7	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Zinc	151	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11H-055	AUS-A11H-055-SD-0X	0-0.5 ft										
	A11H-057	AUS-A11H-057-SD-0X	0-0.5 ft										
	A11H-058	AUS-A11H-058-SD-0X	0-0.5 ft	Nickel	23.6	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	Existing sediment and soil samples A11A-015, A11A-018, A11H-057, and A11H-059.
	A11H-062	AUS-A11H-062-SD-0X	0-0.5 ft	Benzo(b)fluoranthene	93	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	Existing sediment and soil samples A11H-021, A11H-061, and A11H-063. Proposed soil boring location A11H-103. Proposed soil boring A11H-130 to verify cPAH exceedance.
				cPAH	318.709	ug/kg	H			2.1E+03			
				Benzo(k)anthracene	93	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
	A11H-063	AUS-A11H-063-SD-0X	0-0.5 ft	2-Methylnaphthalene	1800	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI soil sample A11H-065. Proposed soil boring locations A11H-080, A11H-102, and A11H-103.
				Acenaphthylene	120	ug/kg	E		4.4E+01	1.8E+03	8.4E+04	2.4E+04	
				Anthracene	97	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(a)anthracene	360	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	350	ug/kg	EH		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	540	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	170	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	490	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				Chrysene	520	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				cPAH	549.42	ug/kg	H			2.1E+03			
				Dibenz(a,h)anthracene	87	ug/kg	EH		3.3E+01	2.1E+02	2.0E+03	2.0E+03	
				Fluoranthene	480	ug/kg	E		4.2E+02	2.2E+06	4.3E+06	4.3E+06	
				Indeno(1,2,3-c,d)pyrene	170	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	41.8	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Naphthalene	810	ug/kg	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
				Phenanthrene	750	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	640	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	218	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
AUS-A11N	A11N-001	AUS-A11N-001-SD-0X	0-0.5 ft										
	A11N-003	AUS-A11N-003-SD-0X	0-0.5 ft										
	A11N-004	AUS-A11N-004-SD-0X	0-0.5 ft	Arsenic	23.9	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil boring locations A11N-053, A11N-054, and A11N-055. Proposed soil boring A11N-065 to verify cPAH exceedance.
				Benzo(a)anthracene	120	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(b)fluoranthene	190	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	140	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	70	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	430.32	ug/kg	H			2.1E+03			
				Iron	34500	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Lead	106	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Manganese	2250	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
				Nickel	24.4	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
	A11N-005	AUS-A11N-005-SD-0X	0-0.5 ft										
	A11N-006	AUS-A11N-006-SD-0X	0-0.5 ft										
	A11N-009	AUS-A11N-009-SD-0X	0-0.5 ft										
	A11N-010	AUS-A11N-010-SD-0X	0-0.5 ft	Lead	67.6	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			Existing PA/SI samples A11N-009, A11N-011, and A11N-014.
	A11N-012	AUS-A11N-012-SD-0X	0-0.5 ft	Benzo(a)anthracene	180	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	Existing PA/SI samples A11N-005 and A11N-007. Proposed soil boring location A11N-039 and sediment/surface water sample 0A11-020. Proposed soil boring A11N-066 to verify cPAH exceedance.
				Benzo(a)pyrene	160	ug/kg	E		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	130	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	70	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	170	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	450.38	ug/kg	H			2.1E+03			
				Chrysene	180	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Indeno(1,2,3-c,d)pyrene	75	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Pyrene	250	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
	A11N-014	AUS-A11N-014-SD-0X	0-0.5 ft										
	A11N-015	AUS-A11N-015-SD-0X	0-0.5 ft										
	A11N-019	AUS-A11N-019-SD-0X	0-0.5 ft	Copper	36.8	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	Existing PA/SI soil samples A11N-018 and A11N-020. Proposed soil borinng locations A11N-043, A11N-044, and A11N-056.
				Lead	568	mg/kg	EH	2.4E+01	3.6E+01	4.0E+02			
	A11N-025	AUS-A11N-025-SD-0X	0-0.5 ft										
AUS-A11P	A11A-003	AUS-A11A-003-SD-0X	0-0.5 ft										
	A11P-005	AUS-A11P-005-SD-0X	0-0.5 ft	Mercury	1.6	mg/kg	EW2	1.5E-01	1.8E-01	3.1E+01		8.9E-01	Proposed soil boring locations A11P-045 and A11P-073. The concentration of mercury detected in the soil sample does not exceed the IEPA Class II aquifer classification standard. Therefore, this exceedance will be addressed as part of the Phase II investigation after the aquifer classification is determined in the event that the aquifer cannot be classified as an IEPA Class II aquifer.
	A11P-010	AUS-A11P-010-SD-0X	0-0.5 ft										
	A11P-019	AUS-A11P-019-SD-0X	0-0.5 ft										
	A11P-020	AUS-A11P-020-SD-0X	0-0.5 ft	Benzo(g,h,i)perylene	130	ug/kg	E		1.6E+01				Existing PA/SI soil samples A11P-019. Proposed soil borinng locations A11P-081, A11P-082, and A11P-087.
				cPAH	600.644	ug/kg	H			2.1E+03			
				Zinc	236	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11P-021	AUS-A11P-021-SD-0X	0-0.5 ft										
	A11P-023	AUS-A11P-023-SD-0X	0-0.5 ft										
	A11P-025	AUS-A11P-025-SD-0X	0-0.5 ft	Arsenic	16.7	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment sample A11P-026. Proposed soil borinng location A11P-056 and sediment/surface water sample A011-017. The concentration of thallium detected in the soil sample does not exceed the IEPA Class II aquifer classification standard. Therefore, this exceedance will be addressed in Phase II after the aquifer classification is determined in the event that the aquifer cannot be classified as an IEPA Class II aquifer.
				Cobalt	50.4	mg/kg	E	9.1E+00	5.0E+01	1.9E+03			
				Manganese	8560	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
				Nickel	64.5	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Thallium	3.2	mg/kg	W2	3.1E-01		6.7E+00		2.6E+00	
	A11P-026	AUS-A11P-026-SD-0X	0-0.5 ft										
	A11P-029	AUS-A11P-029-SD-0X	0-0.5 ft	cPAH	501.1	ug/kg	H			2.1E+03			Existing PA/SI sediment samples A11P-030 and A11P-038. Proposed soil boring location A11P-067 and A11P-088.
				Benzo(b)fluoranthene	94	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
	A11P-030	AUS-A11P-030-SD-0X	0-0.5 ft	Iron	33200	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			Existing PA/SI sediment samples A11P-029 and A11P-038. Proposed soil boring location A11P-082.
				Zinc	229	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11P-032	AUS-A11P-032-SD-0X	0-0.5 ft	Mercury	0.36	mg/kg	E	1.5E-01	1.8E-01	3.1E+01		8.9E-01	Existing PA/SI soil sample A11P-031 and sediment sample A11A-001. Proposed soil boring location A11P-054
	A11P-036	AUS-A11P-036-SD-0X	0-0.5 ft										
	A11P-038	AUS-A11P-038-SD-0X	0-0.5 ft	Bis(2-ethylhexyl) Phthalate	840	ug/kg	E		7.5E+02	1.2E+05		3.6E+06	Existing PA/SI sediment samples A11P-029 and A11P-030. Proposed soil boring locations A11P-079 and A11P-083.
				Copper	66.8	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				Lead	48.1	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
	A11P-039	AUS-A11P-039-SD-0X	0-0.5 ft	Arsenic	12.8	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment sample A11A-007. Proposed soil boring locations A11P-079, A11P-080, and A11P-083.
				Bis(2-ethylhexyl) Phthalate	910	ug/kg	E		7.5E+02	1.2E+05		3.6E+06	
				Lead	42.9	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			

Table 5- 254
Method for Addressing Sediment Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11S	A11S-001	AUS-A11S-001-SD-0X	0-0.5 ft	Manganese	2770	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			Existing PA/SI sediment samples A11S-008 and A11S-011.
				Zinc	156	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11S-002	AUS-A11S-002-SD-0X	0-0.5 ft	Nickel	24.8	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	Proposed soil boring locations A11S-051 and A11S-076.
	A11S-002	AUS-A11S-002-SD-02	2 ft										
	A11S-003	AUS-A11S-003-SD-0X	0-0.5 ft										
	A11S-006	AUS-A11S-006-SD-0X	0-0.5 ft	Copper	35	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	Existing PA/SI soil sample A11S-020. Proposed soil boring locations A11S-056, A11S-057, and A11S-098.
				Nickel	24.9	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
	A11S-007	AUS-A11S-007-SD-0X	0-0.5 ft										
	A11S-008	AUS-A11S-008-SD-0X	0-0.5 ft	2-Methylnaphthalene	77	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI sediment sample A11S-001 and proposed sediment/surface water sample 0A11-014. Proposed soil boirng A11S-104 to verify cPAH exceedance.
				cPAH	716.162	ug/kg	H			2.1E+03			
				Benzo(b)fluoranthene	62	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(k)anthracene	69	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
	A11S-009	AUS-A11S-009-SD-0X	0-0.5 ft	Arsenic	12.2	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment sample A11S-010 and soil sample A11S-032. Proposed sediment/surface water sample 0A11-014.
				Manganese	1340	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
	A11S-010	AUS-A11S-010-SD-0X	0-0.5 ft	Benzo(a)anthracene	110	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	Proposed sediment/surface water samples 0A11-030 and 0A11-031. Proposed soil boirng A11S-1054 to verify cPAH exceedance.
				Benzo(b)fluoranthene	190	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	77	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	200	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	453.96	ug/kg	H			2.1E+03			
				Indeno(1,2,3-c,d)pyrene	68	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Pyrene	200	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
	A11S-011	AUS-A11S-011-SD-0X	0-0.5 ft										
	A11S-012	AUS-A11S-012-SD-0X	0-0.5 ft	Arsenic	15.2	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil sample A11S-032. Proposed soil boring locations A11S-071, A11S-073, and A11S-100.
				2-Methylnaphthalene	150	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	
				Benzo(a)anthracene	130	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	170	ug/kg	E		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	210	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	84	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	240	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	455.06	ug/kg	H			2.1E+03			
				Indeno(1,2,3-c,d)pyrene	85	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Pyrene	200	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	150	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11S-013	AUS-A11S-013-SD-0X	0-0.5 ft	Zinc	190	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Proposed soil boring A11S-071.
	A11S-016	AUS-A11S-016-SD-0X	0-0.5 ft	Manganese	1220	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			Existing PA/SI soil sample locations A11S-014, A11S-015, and A11S-017. Proposed soil boring location A11S-091.
				Zinc	153	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11S-016	AUS-A11S-016-SD-02	2 ft										
	A11S-019	AUS-A11S-019-SD-0X	0-0.5 ft	Arsenic	13.4	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil sample location A11S-038 and sediment sample location A11S-025. Proposed soil boring location A11S-019.
	A11S-022	AUS-A11S-022-SD-0X	0-0.5 ft	cPAH	774.185	ug/kg	H			2.1E+03			Existing samples A11S-031 and A11S-039. Proposed soil borings A11S-059 and A11S-060. Proposed soil boring A11S-115 to verify cPAH exceedance.
				2-Methylnaphthalene	100	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	
	A11S-023	AUS-A11S-023-SD-0X	0-0.5 ft	Arsenic	11	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment sample A11S-007. Proposed soil borings A11S-060 and A11S-061.
	A11S-024	AUS-A11S-024-SD-0X	0-0.5 ft	HMX	2900	ug/kg	E		1.0E+01	3.1E+06		5.7E+03	Existing PA/SI soil samples A11N-002 and A11H-056. Existing PA/SI sediment samples A11N-003. Proposed sediment/surface water sample 0A11-015.
	A11S-025	AUS-A11S-025-SD-0X	0-0.5 ft	2-Methylnaphthalene	11000	ug/kg	EW2		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI soil samples A11S-035 and A11S-038. Proposed soil samples A11S-067 and A11S-068. Exceedance of STG criteria will be addressed in Phase II.
				Anthracene	370	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(a)anthracene	560	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	430	ug/kg	EH		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	450	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(k)anthracene	140	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	791.47	ug/kg	H			2.1E+03			
				Chrysene	570	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Dibenzofuran	3100	ug/kg	E		2.0E+03	3.1E+05			
				Fluoranthene	550	ug/kg	E		4.2E+02	2.2E+06	4.3E+06	4.3E+06	
				Naphthalene	5600	ug/kg	EH		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
				Phenanthrene	3700	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	1300	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
	A11S-026	AUS-A11S-026-SD-0X	0-0.5 ft	2-Methylnaphthalene	3400	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI soil samples A11S-027, A11S-035, and A11S-038. Proposed soil samples A11S-064 and A11S-106.
				Anthracene	98	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(a)anthracene	140	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(b)fluoranthene	130	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				cPAH	374.92	ug/kg	H			2.1E+03			
				Chrysene	170	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Mercury	0.31	mg/kg	E	1.5E-01	1.8E-01	3.1E+01		8.9E-01	
				Phenanthrene	1000	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	360	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
	A11S-028	AUS-A11S-028-SD-0X	0-0.5 ft										
	A11S-029	AUS-A11S-029-SD-0X	0-0.5 ft	2-Methylnaphthalene	2500	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Proposed soil samples A11S-087, A11S-088, A11S-089, and A11S-090. The concentration of cadmium detected in the soil sample does not exceed the IEPA Class II aquifer classification standard. Therefore, this exceedance will be addressed in the Phase II investigation after the aquifer classification is determined in the event that the aquifer cannot be classified as an IEPA Class II aquifer.
				Acenaphthylene	250	ug/kg	E		4.4E+01	1.8E+03	8.4E+04	2.4E+04	
				Anthracene	230	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(a)anthracene	630	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	1000	ug/kg	EH		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	2600	ug/kg	EH		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	1500	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	750	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	1821.7	ug/kg	H			2.1E+03			
				Cadmium	6.3	mg/kg	EW2	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				Chrysene	1200	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Dibenz(a,h)anthracene	340	ug/kg	EH		3.3E+01	2.1E+02	2.0E+03	2.0E+03	
				Fluoranthene	500	ug/kg	E		4.2E+02	2.2E+06	4.3E+06	4.3E+06	
				Indeno(1,2,3-c,d)pyrene	1500	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	90.9	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Naphthalene	1200	ug/kg	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
				Phenanthrene	820	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	980	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	195	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11S-029	AUS-A11S-029-SD-02	2 ft										
	A11S-041	AUS-A11S-041-SD-0X	0-0.5 ft	2-Methylnaphthalene	210	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI sediment samples A11S-001 and A11S-042.
	A11S-041	AUS-A11S-041-SD-02	2 ft										
	A11S-042	AUS-A11S-042-SD-0X	0-0.5 ft	Arsenic	13.1	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment samples A11S-041 and A11S-043. Proposed soil boring A11S-111 to verify cPAH exceedance.
				Benzo(a)anthracene	120	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(b)fluoranthene	260	ug/kg	EH		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	72	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	91	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	442.16	ug/kg	H			2.1E+03			
				Chromium, total	146	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Indeno(1,2,3-c,d)pyrene	81	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	38.1	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Manganese	1560	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
				Pyrene	220	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	221	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

Table 5- 254
Method for Addressing Sediment Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-A11S (continued)	A11S-043	AUS-A11S-043-SD-0X	0-0.5 ft	Benzo(b)fluoranthene	110	ug/kg	EH		2.7E+01	2.1E+03	5.0E+03	5.0E+03	Existing PA/SI sediment samples A11S-042 and A11S-044. Proposed soil boring A11S-112 to verify cPAH exceedance.
				Bis(2-ethylhexyl) Phthalate	2600	ug/kg	E		7.5E+02	1.2E+05		3.6E+06	
				cPAH	563.561	ug/kg	H			2.1E+03			
				Chromium, total	163	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Zinc	133	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11S-044	AUS-A11S-044-SD-0X	0-0.5 ft	Antimony	6.4	mg/kg	EW1W2	1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00	Existing PA/SI sediment sample A11S-043. Proposed sediment/surface water sample 0A11-012. Sample groundwater from proposed monitoring well A11S-W08 to determine if constituents detected in soil at concentrations exceeding STG criteria have impacted groundwater.
				Chromium, total	634	mg/kg	EHW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
	A11S-044	AUS-A11S-044-SD-02	2 ft										
	A11S-046	AUS-A11S-046-SD-0X	0-0.5 ft	2-Methylnaphthalene	230	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Proposed soil sample locations A11S-095 and A11S-101.
				Anthracene	63	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(a)anthracene	150	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	200	ug/kg	E		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	480	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	300	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	170	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	555.01	ug/kg	H			2.1E+03			
				Chrysene	310	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Indeno(1,2,3-c,d)pyrene	250	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	187	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Phenanthrene	210	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	340	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	158	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	A11S-046	AUS-A11S-046-SD-02	2 ft										
AUS-0A12	0A12-001	AUS-0A12-001-SD-0X	0-0.5 ft	2,4-Dinitrotoluene	630	ug/kg	W1W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01	Existing PA/SI soil sample 0A12-002 and sediment sample 0A12-003. Proposed sediment/surface water sample 0A12-200. 2,4-Dintrotolune was not detected in the surface water sample collected at this location; therefore, it does not appear that this constiutent has leached from soil into surface water or groundwater. Proposed soil boring 0A12-214 to verify cPAH exceedance.
				2-Methylnaphthalene	180	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	
				Benzo(a)anthracene	120	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(b)fluoranthene	200	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	110	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	79	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	459.93	ug/kg	H			2.1E+03			
				Copper	88.8	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				Lead	86	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Zinc	309	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-003	AUS-0A12-003-SD-0X	0-0.5 ft										
	0A12-005	AUS-0A12-005-SD-0X	0-0.5 ft	Manganese	1720	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			Existing PA/SI soil samples 0A12-004. Proposed soil boring locations 0A12-103, 0A12-109, 0A12-135, and 0A12-W09.
				Zinc	185	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-006	AUS-0A12-006-SD-0X	0-0.5 ft	2,4-Dinitrotoluene	1300	ug/kg	W1W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01	Existing PA/SI soil samples 0A12-002 and 0A12-093 and sediment samples 0A12-005 and 0A12-007. Proposed soil boring location 0A12-191. Sample groundwater from monitoring well 0A12-W16 to determine if explosives detected in the soil sample at concentrations exceeding the STG critiera has impacted groundwater
				RDX	2400	ug/kg	EW2		2.0E+02	1.6E+04		3.6E+02	
				Zinc	281	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-007	AUS-0A12-007-SD-0X	0-0.5 ft	2-Methylnaphthalene	1900	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI soil sample 0A12-093 and sediment samples 0A12-006 and 0A12-009. Proposed soil boring location 0A12-191.
				Acenaphtene	120	ug/kg	E		1.6E+01	2.9E+06	5.7E+05	5.7E+05	
				Anthracene	94	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(b)fluoranthene	110	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	47	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Chrysene	290	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Copper	34.1	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				Lead	43.8	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Naphthalene	730	ug/kg	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
				Phenanthrene	410	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	218	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-009	AUS-0A12-009-SD-0X	0-0.5 ft	2-Methylnaphthalene	1900	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI soil samples 0A12-010 and 0A12-093 and sediment sample 0A12-007. Proposed soil boring locations 0A12-107 and 0A12-191.
				Anthracene	67	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Benzo(a)anthracene	110	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(b)fluoranthene	200	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	110	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)fluoranthene	72	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				Chrysene	340	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Copper	76.7	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				Indeno(1,2,3-c,d)pyrene	61	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	124	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Mercury	0.19	mg/kg	E	1.5E-01	1.8E-01	3.1E+01		8.9E-01	
				Naphthalene	700	ug/kg	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
				Phenanthrene	460	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	210	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				RDX	1600	ug/kg	EW2		2.0E+02	1.6E+04		3.6E+02	
				Zinc	384	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-012	AUS-0A12-012-SD-0X	0-0.5 ft	2-Methylnaphthalene	150	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI sediment sample 0A12-016. Proposed soil samples 0A12-108 and 0A12-111.
				Naphthalene	230	ug/kg	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
	0A12-014	AUS-0A12-014-SD-0X	0-0.5 ft										
	0A12-016	AUS-0A12-016-SD-0X	0-0.5 ft										
	0A12-017	AUS-0A12-017-SD-0X	0-0.5 ft	Lead	98.8	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			Existing PA/SI sediment sample 0A12-025 and soil sample 0A12-023. Proposed soil boring locations 0A12-166 and 0A12-192.
				Zinc	243	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-021	AUS-0A12-021-SD-0X	0-0.5 ft	Zinc	141	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Existing PA/SI soil sample 0A12-019 and sediment sample 0A12-024. Proposed soil boring locations 0A12-158 and 0A12-160.
	0A12-024	AUS-0A12-024-SD-0X	0-0.5 ft										
	0A12-025	AUS-0A12-025-SD-0X	0-0.5 ft										
	0A12-030	AUS-0A12-030-SD-0X	0-0.5 ft	Cadmium	1.8	mg/kg	E	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	Existing PA/SI soil samples 0A12-028, 0A12-029, and 0A12-031. Proposed soil boring location 0A12-159 and sediment/surface water location 0A12-201. The concentration of mercury detected in the soil sample does not exceed the IEPA Class II aquifer classification standard. Therefore, this exceedance will be addressed in the Phase II investigation after the aquifer classification is determined in the event that the aquifer cannot be classified as an IEPA Class II aquifer. Proposed soil boring 0A12-225 to verify cPAH exceedance.
				cPAH	1155.5	ug/kg	H			2.1E+03			
				Mercury	1.6	mg/kg	EW2	1.5E-01	1.8E-01	3.1E+01		8.9E-01	
				Zinc	306	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	

Table 5- 254
Method for Addressing Sediment Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0A12 (continued)	0A12-046	AUS-0A12-046-SD-0X	0-0.5 ft	2-Methylnaphthalene	1100	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI soil sample 0A12-053 and sediment sample 0A12-047. Proposed sediment/surface water sample 0A12-202.
				Anthracene	69	ug/kg	E		5.7E+01	2.4E+07	1.2E+07	1.2E+07	
				Arsenic	13.5	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	
				Benzo(a)anthracene	200	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(a)pyrene	200	ug/kg	E		1.5E+02	2.1E+02	8.0E+03	8.0E+03	
				Benzo(b)fluoranthene	360	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(k)anthracene	86	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				cPAH	510.09	ug/kg	H			2.1E+03			
				Cadmium	1.8	mg/kg	E	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				Chrysene	230	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				Naphthalene	430	ug/kg	E		1.8E+02	1.8E+03	8.4E+04	1.2E+04	
				Phenanthrene	590	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Pyrene	310	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	315	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-047	AUS-0A12-047-SD-0X	0-0.5 ft	Zinc	139	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Proposed soil borinng locations 0A12-128, 0A12-152, and 0A12-153.
	0A12-048	AUS-0A12-048-SD-0X	0-0.5 ft										
	0A12-049	AUS-0A12-049-SD-0X	0-0.5 ft	HMX	780	ug/kg	E		1.0E+01	3.1E+06		5.7E+03	Existing PA/SI soil samples 0A12-050 and 0A12-097. Proposed sediment/surface water sample location 0A12-203. The STG exceedance will be addressed in Phase II.
				4-Amino-4,6-Dinitrotolune	1100	ug/kg	W2			1.2E+04		3.1E+01	
				Zinc	139	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-055	AUS-0A12-055-SD-0X	0-0.5 ft	Copper	101	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	Existing PA/SI soil samples 0A12-051 and 0A12-054 and sediment sample location 0A12-068.
				Lead	119	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Manganese	1970	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
				Nickel	29.5	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	695	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-057	AUS-0A12-057-SD-0X	0-0.5 ft										
	0A12-061	AUS-0A12-061-SD-0X	0-0.5 ft										
	0A12-063	AUS-0A12-063-SD-0X	0-0.5 ft										
	0A12-065	AUS-0A12-065-SD-0X	0-0.5 ft	Lead	40.7	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			Existing PA/SI soil samples 0A12-067 and 0A12-068 Proposed soil sample locations 0A12-173 and 0A12-174.
				Zinc	187	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-068	AUS-0A12-068-SD-0X	0-0.5 ft	Zinc	243	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Existing PA/SI sediment samples 0A12-055 and 0A12-069.
	0A12-069	AUS-0A12-069-SD-0X	0-0.5 ft	Arsenic	32.6	mg/kg	EHW1W2	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment samples 0A12-068 and 0A12-070. Proposed soil boring locations 0A12-154 and 0A12-155. Sample groundwater from proposed monitoring well 0A12-W14 to determine if metals detected in the soil sample at a concentration exceeding the STG critiera has impacted groundwater.
				Cobalt	60.5	mg/kg	E	9.1E+00	5.0E+01	1.9E+03			
				Iron	51400	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Lead	56.2	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Manganese	9280	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
				Nickel	24.2	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Selenium	5.1	mg/kg	W1	6.4E-01	0.0E+00	5.1E+02	5.0E+00	6.3E+00	
				Zinc	204	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0A12-070	AUS-0A12-070-SD-0X	0-0.5 ft										
	0A12-073	AUS-0A12-073-SD-0X	0-0.5 ft	Zinc	174	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Existing PA/SI soil sample 0A12-072 and sediment samples 0A12-074 and 0A12-075. Proposed sediment/surface water sample 0A12-137. Proposed soil boring location 0A12-144.
	0A12-074	AUS-0A12-074-SD-0X	0-0.5 ft	Manganese	2000	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			Existing PA/SI sediment samples 0A12-075 and 0A12-077. Proposed sediment/surface water sample 0A12-137.
	0A12-075	AUS-0A12-075-SD-0X	0-0.5 ft	Zinc	187	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	Existing PA/SI sediment samples 0A12-073 and 0A12-074 and soil sample 0A12-076. Proposed soil boring location 0A12-145.
	0A12-077	AUS-0A12-077-SD-0X	0-0.5 ft	Arsenic	18.1	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment sample 0A12-074. Proposed sediment/surface water sample 0A12-194.
				Cobalt	68.3	mg/kg	E	9.1E+00	5.0E+01	1.9E+03			
				Lead	50.4	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Manganese	10400	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
	0A12-078	AUS-0A12-078-SD-0X	0-0.5 ft										
	0A12-080	AUS-0A12-080-SD-0X	0-0.5 ft	2,4-Dinitrotoluene	3200	ug/kg	EHW1W2		6.5E+02	2.5E+03	8.0E-01	8.0E-01	Existing PA/SI sample 0A12-082. Proposed soil boring locations 0A12-180 and 0A12-181. The surface water sample collected from this location did not contain detectable concentrations of 2,4-Dinitrotolune; therefore, it is not likely that this constituent has leached into the surface water and groundwater in this area. A monitoring well 0A12-W07 is proposed near this sample location and will be sampled for explosives.
				RDX	750	ug/kg	EW2		2.0E+02	1.6E+04		3.6E+02	
	0A12-088	AUS-0A12-088-SD-0X	0-0.5 ft	RDX	640	ug/kg	EW2		2.0E+02	1.6E+04		3.6E+02	Existing soil sample 0A12-W02 and sediment sample 0A12-090. Proposed soil boring location 0A12-193. Exceedance of STG criteria will be addressed after IEPA aquifer classification is determined.
	0A12-090	AUS-0A12-090-SD-0X	0-0.5 ft										
	0A12-092	AUS-0A12-092-SD-0X	0-0.5 ft	Arsenic	14.4	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment sample 0A12-090. Proposed sediment/surface water samples 0A12-196.
AUS-0062	0062-004	AUS-0062-004-SD-0X	0-0.5 ft	Copper	32.7	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	Existing PA/SI sediment samples 0062-007 and 0062-008. Proposed sediment/surface water sample 0062-016. Proposed soil sample location 0062-009.
				Nickel	26.4	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
	0062-005	AUS-0062-005-SD-0X	0-0.5 ft										
	0062-007	AUS-0062-007-SD-0X	0-0.5 ft	Arsenic	15.8	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Proposed soil boring locations 0062-012, 0062-013, 0062-014, and 0062-015.
				Iron	39700	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Nickel	47.7	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	133	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0062-008	AUS-0062-008-SD-0X	0-0.5 ft										
AUS-0066	0066-003	AUS-0066-003-SD-0X	0-0.5 ft	2-Methylnaphthalene	370	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI sediment sample 0066-004. Proposed sediment/surface water sample 0066-017. Proposed soil boring 0066-022 to verify cPAH exceedance.
				Cadmium	3.8	mg/kg	E	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAH	739.52	ug/kg	H			2.1E+03			
				Iron	86300	mg/kg	H	2.1E+04	1.9E+05	3.1E+04			
				Nickel	65.6	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	325	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0066-004	AUS-0066-004-SD-0X	0-0.5 ft	2-Methylnaphthalene	210	ug/kg	E		7.0E+01	1.9E+04	8.4E+04	7.7E+03	Existing PA/SI sediment sample 0066-003. Proposed sediment/surface water sample 0066-013. Sample groundwater from proposed monitoring well 0066-W01 to determine if metals detected in the sediment sample at a concentration exceeding the STG critiera has impacted groundwater. Proposed soil sample 0066-021 to verify cPAH exceedance.
				Benzo(a)anthracene	160	ug/kg	E		1.1E+02	2.1E+03	2.0E+03	2.0E+03	
				Benzo(b)fluoranthene	220	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	71	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				Benzo(k)anthracene	73	ug/kg	E		2.7E+01	2.1E+04	4.9E+04	4.9E+04	
				Cadmium	35.7	mg/kg	EW1W2	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				Chrysene	180	ug/kg	E		1.7E+02	2.1E+05	1.6E+05	1.6E+05	
				cPAH	451.51	ug/kg	H			2.1E+03			
				Indeno(1,2,3-c,d)pyrene	76	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Nickel	27.9	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	447	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0066-006	AUS-0066-006-SD-0X	0-0.5 ft										
	0066-007	AUS-0066-007-SD-0X	0-0.5 ft										

Table 5- 254
Method for Addressing Sediment Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Sediment Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I	Proposed Method to Address Exceedance/Comments
AUS-0069	0069-010	AUS-0069-010-SD-0X	0-0.5 ft	Antimony	8.8	mg/kg	EW1W2	1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00	Existing PA/SI sediment sample 0069-011. Proposed soil boring locations 0069-028, 0069-037, and 0069-054. Sample groundwater from monitoring well 0069-W02 to determine if constituents detected in the soil sample at concentrations exceeding the STG critieria have impacted groundwater. Proposed soil boring 0069-065 to verify cPAH exceedance.
				Cadmium	9.4	mg/kg	EW1W2	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				Chromium, total	44.9	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Copper	157	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				cPAH	670.19	ug/kg	H			2.1E+03			
				Lead	610	mg/kg	EH	2.4E+01	3.6E+01	4.0E+02			
				Manganese	1180	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			
				Mercury	0.6	mg/kg	E	1.5E-01	1.8E-01	3.1E+01		8.9E-01	
				Nickel	31.8	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Zinc	1110	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0069-011	AUS-0069-011-SD-0X	0-0.5 ft	Benzo(b)fluoranthene	120	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	Existing PA/SI sediment sample 0069-010. Proposed sediment/surface water sample 0069-051. Proposed soil boring 0069-061.
				Cadmium	7.1	mg/kg	EW2	1.6E+00	9.9E-01	4.5E+01	8.0E+00	5.2E+00	
				cPAH	344.732	ug/kg	H			2.1E+03			
				Copper	83.9	mg/kg	E	1.7E+01	3.2E+01	4.1E+03		5.9E+04	
				Lead	196	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Manganese	1190	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			
				Mercury	0.81	mg/kg	E	1.5E-01	1.8E-01	3.1E+01		8.9E-01	
				Nickel	24	mg/kg	E	1.7E+01	2.3E+01	2.0E+03	1.3E+02	1.0E+02	
				Phenanthrene	220	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	368	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
AUS-0001	0001-005	AUS-0001-005-SD-0X	0-0.5 ft	Arsenic	16.8	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Proposed sediment sample locations 0001-015 and 0001-017 and soil sample 0001-015.
				Benzo(b)fluoranthene	170	ug/kg	E		2.7E+01	2.1E+03	5.0E+03	5.0E+03	
				Benzo(g,h,i)perylene	70	ug/kg	E		1.6E+01	6.1E+07		3.2E+07	
				cPAH	333.4	ug/kg	H			2.1E+03			
				Indeno(1,2,3-c,d)pyrene	77	ug/kg	E		1.7E+01	2.1E+03	1.4E+04	1.4E+04	
				Lead	94.9	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Phenanthrene	250	ug/kg	E		2.0E+02	2.9E+06	4.2E+06	4.2E+06	
				Zinc	122	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
AUS-0002	0002-002	AUS-0002-002-SD-0X	0-0.5 ft	Chromium, total	191	mg/kg	EW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	Proposed soil boring locations 0002-008, 0002-009, 0002-010, and 0002-011. Monitoring wells AUS-0002-W01 is proposed to be installed downgradient of this area. Groundwater samples from this well will be used to determine if constituents detected in concentrations exceeding the STG criteria have impacted groundwater.
				Lead	69.5	mg/kg	EH	2.4E+01	3.6E+01	4.0E+02			
				Silver	87	mg/kg	EW1W2	3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00	
	0002-003	AUS-0002-003-SD-0X	0-0.5 ft	Antimony	7.7	mg/kg	EW1W2	1.9E+00	3.0E+00	4.1E+01	5.0E+00	5.0E+00	Proposed soil boring locations 0002-008, 0002-009, 0002-010, and 0002-011. Sample groundwater from monitoring well 0002-W02 to determine if constituents detected in the soil sample at concentrations exceeding the STG critieria have impacted groundwater.
				Chromium, total	737	mg/kg	EHW1W2	1.7E+01	4.3E+01	4.2E+02	3.8E+01	4.0E+01	
				Copper	35.8	mg/kg	E	1.7E+01	3.2E+01	4.1E+03			
				Lead	70.8	mg/kg	E	2.4E+01	3.6E+01	4.0E+02			
				Mercury	0.37	mg/kg	E	1.5E-01	1.8E-01	3.1E+01		8.9E-01	
				Silver	98.7	mg/kg	EW1W2	3.0E+00	1.0E+00	5.1E+02	3.4E+01	4.4E+00	
				Zinc	226	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0002-005	AUS-0002-005-SD-0X	0-0.5 ft										
AUS-0021	0021-002	AUS-0021-002-SD-0X	0-0.5 ft	Arsenic	11.5	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI soil samples 0021-001 and 0021-003. Proposed soil boring 0A07-287.
				Manganese	1440	mg/kg	E	1.0E+03	6.3E+02	1.9E+03			
AUS-0060	0060-001	AUS-0060-001-SD-0X	0-0.5 ft	Arsenic	13.5	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment samples 0060-003 and 0060-006 and soil sample 0060-002. Proposed sediment/surface water samples 0060-018 and 0060-019.
				Zinc	149	mg/kg	E	5.7E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03	
	0060-003	AUS-0060-003-SD-0X	0-0.5 ft	Arsenic	11.2	mg/kg	EH	1.0E+01	9.8E+00	1.6E+00	2.9E+01	2.9E+01	Existing PA/SI sediment samples 0060-001 and 0060-006. Proposed sediments/surface water sample 0060-018 and soil boring location 0060-024.
				Manganese	3170	mg/kg	EH	1.0E+03	6.3E+02	1.9E+03			
	0060-006	AUS-0060-006-SD-0X	0-0.5 ft										

Table 5 - 255
Method for Addressing Surface Water Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Exceeding Analyte	Concentration	Units	Exceedance Flag	SW Bkg 95UTL	SW Eco Std	SW HH Std	Proposed Method to Address Exceedance/Comments
AUS-0A2B	0A2B-015	AUS-0A2B-015-SW	Aluminum	28400	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	23300	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	22.9	ug/l	BE	2.0E+00	2.0E+01		
			Manganese	1450	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
AUS-0A2D	0A2D-044	AUS-0A2D-044-SW	Aluminum	2720	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	2290	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
AUS-0A2F	0A2F-007	AUS-0A2F-007-SW	Aluminum	981	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	1090	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	0A2B-008	AUS-0A2D-008-SW	Aluminum	2540	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	3650	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
AUS-0A2P	0A2P-019	AUS-0A2P-015-SW	Aluminum	1320	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	1260	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
AUS-0A4E	0A4E-008	AUS-0A4E-008-SW	Aluminum	367	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
AUS-0A07	0A07-025	AUS-0A07-025-SW	Aluminum	625	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
AUS-0A8S	0A8S-002	AUS-0A8S-002-SW	Aluminum	437	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Bis(2-ethylhexyl)phthalate	3.1	ug/l	E		3.0E+00		
	0A8S-023	AUS-0A8S-023-SW	Copper	21.4	ug/l	BE	1.0E+01	1.2E+01		Location will be resampled.
			Iron	1190	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	0A8S-024	AUS-0A8S-024-SW	Aluminum	1300	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Iron	5290	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Selenium	4.4	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
AUS-0A10	0A10-004	AUS-0A10-004-SW	Aluminum	13300	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	13100	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
AUS-A11A	A11A-006	AUS-A11A-006-SW	Aluminum	518	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	2990	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	2330	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Mercury	0.22	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
	A11A-007	AUS-A11A-007-SW	Iron	1460	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Selenium	2	ug/l		2.7E+00	1.0E+03	1.0E+03	
	A11A-008	AUS-A11A-008-SW	Aluminum	28000	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Bis(2-ethylhexyl)phthalate	410	ug/l	E		3.0E+00		
			Copper	29.1	ug/l	BE	1.0E+01	1.2E+01		
			Iron	34100	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	28.3	ug/l	BE	2.0E+00	2.0E+01		
			Manganese	6720	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Vanadium	54.7	ug/l	BE	5.0E+01	1.9E+01		
	A11A-010	AUS-A11A-010-SW	Aluminum	69000	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Calcium	172000	ug/l	BE	7.2E+03	1.2E+05		
			Cobalt	63	ug/l	BE	5.0E+01	2.3E+00		
			Copper	89.3	ug/l	BE	1.0E+01	1.2E+01		
			Iron	98000	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	95.1	ug/l	BE	2.0E+00	2.0E+01		
			Magnesium	89700	ug/l	BE	2.5E+03	8.2E+04		
			Manganese	3580	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Mercury	0.66	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
			Selenium	7.9	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
			Total Dissolved solids	1038	ug/l	BH	7.2E+01		1.0E+03	
			Vanadium	158	ug/l	BE	5.0E+01	1.9E+01		
	A11A-014	AUS-A11A-014-SW	Aluminum	1840	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Calcium	159000	ug/l	BE	7.2E+03	1.2E+05		
			Iron	3660	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Magnesium	23400	ug/l	BE	2.5E+03	8.2E+04		
			Manganese	2200	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Mercury	0.36	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
	A11A-022	AUS-A11A-022-SW	Iron	3150	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	1700	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Mercury	0.22	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
	A11A-023	AUS-A11A-023-SW	Aluminum	3950	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Copper	12.4	ug/l	BE	1.0E+01	1.2E+01		
			Iron	7180	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11A-024	AUS-A11A-024-SW	Iron	1610	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11A-026	AUS-A11A-026-SW	Aluminum	928	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	2040	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Mercury	0.21	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
	A11A-028	AUS-A11A-028-SW	Aluminum	2530	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	4390	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11A-032	AUS-A11A-032-SW	Aluminum	2530	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Calcium	145000	ug/l	BE	7.2E+03	1.2E+05		
			Selenium	3.4	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
	A11A-033	AUS-A11A-033-SW	Aluminum	415	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Mercury	0.26	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
AUS-A11H	A11H-002	AUS-A11H-002-SW								Location will be resampled.
	A11H-008	AUS-A11H-008-SW	Aluminum	430	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	2680	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Mercury	0.23	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
	A11H-010	AUS-A11H-010-SW								Location will be resampled.
	A11H-012	AUS-A11H-012-SW	Aluminum	583	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	2190	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11H-018	AUS-A11H-018-SW	Aluminum	1900	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	2190	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Mercury	0.33	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
	A11H-031	AUS-A11H-031-SW	Aluminum	6520	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	6410	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11H-040	AUS-A11H-040-SW	Aluminum	856	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	1310	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11H-041	AUS-A11H-041-SW	Aluminum	343	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	3610	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11H-051	AUS-A11H-051-SW	Aluminum	3990	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	4030	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11H-057	AUS-A11H-057-SW								Location will be resampled.
	A11H-058	AUS-A11H-058-SW	Aluminum	232	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	7440	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11H-062	AUS-A11H-062-SW								Location will be resampled.
AUS-A11N	A11N-001	AUS-A11N-001-SW	Aluminum	1780	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	1720	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11N-005	AUS-A11N-005-SW	Aluminum	2940	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	3120	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11N-012	AUS-A11H-012-SW	Aluminum	1110	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	2910	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	1260	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
	A11N-015	AUS-A11N-015-SW	Aluminum	5140	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	6850	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11N-019	AUS-A11N-019-SW	Aluminum	6220	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Copper	17.7	ug/l	BE	1.0E+01	1.2E+01		
			Iron	14100	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	93	ug/l	BE	2.0E+00	2.0E+01		
			Selenium	3.7	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
	A11N-024	AUS-A11N-024-SW	Aluminum	2290	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	3010	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
AUS-A11P	A11P-004	AUS-A11P-004-SW	Aluminum	6570	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Iron	11200	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	2410	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Selenium	4.2	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
	A11P-019	AUS-A11P-019-SW	Aluminum	695	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	1790	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11P-029	AUS-A11P-029-SW	Aluminum	662	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	3760	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11P-036	AUS-A11P-036-SW	Aluminum	2870	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	4120	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11P-038	AUS-A11P-038-SW	Aluminum	2030	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Copper	31.9	ug/l	BE	1.0E+01	1.2E+01		
			Iron	6490	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Selenium	3.2	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
	A11P-039	AUS-A11P-039-SW	Aluminum	669	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	2650	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	2250	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
AUS-A11S	A11S-001	AUS-A11S-001-SW	Aluminum	48700	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Beryllium	13.2	ug/l	BE	5.0E+00	5.3E-01		
			Calcium	132000	ug/l	BE	7.2E+03	1.2E+05		
			Cobalt	231	ug/l	BE	5.0E+01	2.3E+00		
			Copper	75.4	ug/l	BE	1.0E+01	1.2E+01		
			Iron	27400	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	104	ug/l	BE	2.0E+00	2.0E+01		
			Manganese	12600	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Mercury	0.87	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
			Vanadium	118	ug/l	BE	5.0E+01	1.9E+01		
	A11S-008	AUS-A11S-008-SW	Aluminum	68600	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Calcium	299000	ug/l	BE	7.2E+03	1.2E+05		
			Cobalt	116	ug/l	BE	5.0E+01	2.3E+00		
			Copper	119	ug/l	BE	1.0E+01	1.2E+01		
			Iron	87800	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	101	ug/l	BE	2.0E+00	2.0E+01		
			Magnesium	122000	ug/l	BE	2.5E+03	8.2E+04		
			Manganese	22200	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Mercury	0.43	ug/l	BH	2.0E-01	1.3E+00	1.2E-02	
			Selenium	16.1	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
			Sulfate (as S04)	520000	ug/l	H			5.0E+05	
			Vanadium	132	ug/l	BE	5.0E+01	1.9E+01		
			Zinc	1760	ug/l	BE	2.0E+01	1.0E+03	1.0E+03	
	A11S-009	AUS-A11S-009-SW								Location will be resampled.
	A11S-010	AUS-A11S-010-SW	Iron	1280	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	Location will be resampled.
	A11S-011	AUS-A11S-011-SW								Location will be resampled.
	A11S-012	AUS-A11S-012-SW								Location will be resampled.
	A11S-013	AUS-A11S-013-SW	Iron	2210	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	Location will be resampled.
	A11S-019	AUS-A11S-019-SW	Aluminum	4580	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	6580	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11S-022	AUS-A11S-022-SW	Aluminum	241	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	1360	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	A11S-024	AUS-A11S-024-SW	Aluminum	10300	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Copper	15	ug/l	BE	1.0E+01	1.2E+01		
			Iron	20900	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	3490	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Selenium	4.1	ug/l	B	2.7E+00	1.0E+03	1.0E+03	

Table 5 - 255
Method for Addressing Surface Water Samples with Exceedances of Screening Criteria

Area	Loc_ID	URS_ID	Exceeding Analyte	Concentration	Units	Exceedance Flag	SW Bkg 95UTL	SW Eco Std	SW HH Std	Proposed Method to Address Exceedance/Comments
AUS-A11S (cont.)	A11S-042	AUS-A11S-042-SW	Aluminum	28400	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Chromium	214	ug/l	BE	1.0E+01	2.1E+02		
			Copper	65.9	ug/l	BE	1.0E+01	1.2E+01		
			Iron	34700	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	52.7	ug/l	BE	2.0E+00	2.0E+01		
			Manganese	7420	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Selenium	6.1	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
			Vanadium	65.8	ug/l	BE	5.0E+01	1.9E+01		
	A11S-043	AUS-A11S-043-SW	Aluminum	26600	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Chromium	209	ug/l	BE	1.0E+01	2.1E+02		
			Copper	62.3	ug/l	BE	1.0E+01	1.2E+01		
			Iron	36100	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	48.3	ug/l	BE	2.0E+00	2.0E+01		
			Manganese	8780	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Selenium	5.9	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
			Vanadium	53.4	ug/l	BE	5.0E+01	1.9E+01		
AUS-0A12	0A12-001	AUS-0A12-001-SW	Aluminum	496	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
	0A12-007	AUS-0A12-007-SW	Aluminum	856	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
	0A12-012	AUS-0A12-012-SW	Aluminum	282	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Copper	135	ug/l	BE	1.0E+01	1.2E+01	1.0E+03	
			Selenium	31.3	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
	0A12-014	AUS-0A12-014-SW	Aluminum	2570	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Iron	5800	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Selenium	2.1	ug/l		2.7E+00	1.0E+03	1.0E+03	
	0A12-016	AUS-0A12-016-SW	Iron	1210	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	Location will be resampled.
	0A12-020	AUS-0A12-020-SW								Location will be resampled.
	0A12-021	AUS-0A12-021-SW	Aluminum	11600	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Copper	12.1	ug/l	BE	1.0E+01	1.2E+01		
			Iron	11200	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Selenium	3.5	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
	0A12-024	AUS-0A12-024-SW	Iron	1720	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Selenium	2.1	ug/l		2.7E+00	1.0E+03	1.0E+03	
	0A12-030	AUS-0A12-030-SW	Calcium	161000	ug/l	BE	7.2E+03	1.2E+05		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Iron	5620	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Selenium	2	ug/l		2.7E+00	1.0E+03	1.0E+03	
			Sulfate (as S04)	590000	ug/l	H			5.0E+05	
			Total Dissolved solids	1140	ug/l	BH	7.2E+01		1.0E+03	
	0A12-060	AUS-0A12-060-SW	Aluminum	411	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	1290	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	0A12-074	AUS-0A12-074-SW	Aluminum	3340	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Iron	4780	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Selenium	3.9	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
	0A12-077	AUS-0A12-077-SW	Aluminum	14400	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Copper	47	ug/l	BE	1.0E+01	1.2E+01		
			Iron	14000	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	2830	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Selenium	3.8	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
	0A12-078	AUS-0A12-078-SW	Aluminum	52000	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Beryllium	12.2	ug/l	BE	5.0E+00	5.3E-01		
			Calcium	214000	ug/l	BE	7.2E+03	1.2E+05		
			Cobalt	73	ug/l	BE	5.0E+01	2.3E+00		
			Copper	12.2	ug/l	BE	1.0E+01	1.2E+01		
			Iron	136000	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	45.9	ug/l	BE	2.0E+00	2.0E+01		
			Magnesium	93900	ug/l	BE	2.5E+03	8.2E+04		
			Manganese	4700	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Selenium	5.9	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
			Vanadium	234	ug/l	BE	5.0E+01	1.9E+01		
	0A12-079	AUS-0A12-079-SW	Copper	15.8	ug/l	BE	1.0E+01	1.2E+01	1.0E+03	Location will be resampled.
	0A12-080	AUS-0A12-080-SW	Aluminum	1910	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Iron	4510	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
	0A12-092	AUS-0A12-092-SW	Aluminum	469	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Calcium	153000	ug/l	BE	7.2E+03	1.2E+05		
			Magnesium	107000	ug/l	BE	2.5E+03	8.2E+04		
			Selenium	3.4	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
AUS-0062	0062-004	AUS-0062-004-SW	Aluminum	8230	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Cadmium	11	ug/l	BE	5.0E+00	1.1E+00		
			Calcium	146000	ug/l	BE	7.2E+03	1.2E+05		
			Cobalt	28.5	ug/l	BE	5.0E+01	2.3E+00		
			Iron	6540	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Magnesium	102000	ug/l	BE	2.5E+03	8.2E+04		
			Manganese	3410	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
	0062-007	AUS-0062-007-SW	Aluminum	7160	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Cadmium	5.3	ug/l	BE	5.0E+00	1.1E+00		
			Calcium	163000	ug/l	BE	7.2E+03	1.2E+05		
			Cobalt	240	ug/l	BE	5.0E+01	2.3E+00		
			Iron	28400	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	10800	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
AUS-0066	0066-003	AUS-0066-003-SW	Aluminum	55500	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Beryllium	16.5	ug/l	BE	5.0E+00	5.3E-01		
			Cadmium	33.9	ug/l	BE	5.0E+00	1.1E+00		
			Cobalt	278	ug/l	BE	5.0E+01	2.3E+00		
			Copper	40.1	ug/l	BE	1.0E+01	1.2E+01		
			Iron	346000	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Lead	48.4	ug/l	BE	2.0E+00	2.0E+01		
			Manganese	6850	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Selenium	7.6	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
			Vanadium	76.8	ug/l	BE	5.0E+01	1.9E+01		
			Zinc	2240	ug/l	BE	2.0E+01	1.0E+03	1.0E+03	
	0066-004	AUS-0066-004-SW	Aluminum	1490	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Cadmium	7.1	ug/l	BE	5.0E+00	1.1E+00		
			Cobalt	61.7	ug/l	BE	5.0E+01	2.3E+00		
			Iron	4060	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	4240	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
	0066-006	AUS-0066-006-SW	Aluminum	5580	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Copper	13.2	ug/l	BE	1.0E+01	1.2E+01		
			Iron	12700	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	2480	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
	0066-007	AUS-0066-007-SW	Aluminum	6030	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled.
			Copper	13.3	ug/l	BE	1.0E+01	1.2E+01		
			Iron	12000	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	3890	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
AUS-0002	0002-005	AUS-0002-005-SW	Aluminum	12500	ug/l	BE	2.0E+02	8.7E+01		Location will be resampled. Selenium does not exceed the screening values; however, it is being retained a an ingestion COPEC based on its bioaccumulation potential per the EPF.
			Iron	8260	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	
			Manganese	1810	ug/l	BEH	5.8E+02	1.0E+03	1.0E+03	
			Selenium	3.4	ug/l	B	2.7E+00	1.0E+03	1.0E+03	
AUS-0043	0043-003	AUS-0043-003-SW	Bis(2-ethylhexyl)phthalate	4.4	ug/l	E		3.0E+00		Location will be resampled.
			Iron	5100	ug/l	BEH	1.0E+02	1.0E+03	1.0E+03	

Table 5-256
Proposed Sediment and Surface Water Samples and Analytical Suites

RI/FS Location ID	Surface Water Sample Analysis	Sediment Sample Analysis
0001-015	SVOCs, Metals, TSS	SVOCs, Metals
0001-016	SVOCs, Metals, TSS	SVOCs, Metals
0001-017	SVOCs, Metals, TSS	SVOCs, Metals
0002-005	Metals, TSS	
0002-012	Metals, TSS	Metals
0002-013	Metals, TSS	Metals
0018-021	Metals, TSS	Metals
0043-003	SVOCs, Perchlorate, Metals, TSS	
0043-010	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0043-011	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0060-018	Metals, TSS	Metals
0060-019	Metals, TSS	Metals
0061-023	PAHs, Metals, TSS	PAHs, Metals
0061-024	PAHs, Metals, TSS	PAHs, Metals
0061-025	PAHs, Metals, TSS	PAHs, Metals
0062-004	Metals, Perchlorate, TSS	
0062-007	Metals, Perchlorate, TSS	
0062-016	Metals, TSS	Metals
0062-017	Metals, TSS	Metals
0065-018	SVOCs, Metals, TSS	SVOCs, Metals
0066-003	Metals, Perchlorate, TSS	
0066-004	Metals, Perchlorate, TSS	
0066-006	Metals, Perchlorate, TSS	
0066-007	Metals, Perchlorate, TSS	
0066-013	SVOCs, Metals, TSS	SVOCs, Metals
0066-017	SVOCs, Metals, TSS	SVOCs, Metals
0066-018	SVOCs, Metals, TSS	SVOCs, Metals
0066-019	SVOCs, Metals, TSS	SVOCs, Metals
0067-010	SVOCs, Metals, TSS	SVOCs, Metals
0067-011	SVOCs, Metals, TSS	SVOCs, Metals
0069-0042	SVOCs, Metals, TSS	SVOCs, Metals
0069-0043	SVOCs, Metals, TSS	SVOCs, Metals
0069-0044	SVOCs, Metals, TSS	SVOCs, Metals
0069-0045	SVOCs, Metals, TSS	SVOCs, Metals
0069-0046	SVOCs, Metals, TSS	SVOCs, Metals
0069-0047	SVOCs, Metals, TSS	SVOCs, Metals
0069-0048	SVOCs, Metals, TSS	SVOCs, Metals
0069-0049	SVOCs, Metals, TSS	SVOCs, Metals
0069-0050	SVOCs, Metals, TSS	SVOCs, Metals
0069-0051	SVOCs, Metals, TSS	SVOCs, Metals
0A02-001	SVOCs, Metals, TSS	SVOCs, Metals
0A02-002	SVOCs, Metals, TSS	SVOCs, Metals
0A02-003	SVOCs, Metals, TSS	SVOCs, Metals
0A02-004	SVOCs, Metals, TSS	SVOCs, Metals
0A02-005	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-006	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-007	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-008	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-009	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-010	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-011	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-012	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-014	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-015	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-016	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-017	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-018	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-019	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-020	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-021	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-022	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-023	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-024	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-025	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-026	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals

Table 5-256
Proposed Sediment and Surface Water Samples and Analytical Suites

RI/FS Location ID	Surface Water Sample Analysis	Sediment Sample Analysis
0A02-027	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-028	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-029	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-030	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-031	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-032	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-033	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-034	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-035	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-036	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A02-037	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A03-013	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-014	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-015	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-016	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-017	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-018	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-019	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-020	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-021	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-022	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-023	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-024	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-025	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A03-026	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A06-060	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-061	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-062	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-063	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-064	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-065	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-066	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-067	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-068	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-069	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-070	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-071	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-072	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-073	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-074	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-075	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-076	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A06-077	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A07-025	Metals, TSS	
0A07-245	SVOCs, Pesticides, Metals, TSS	SVOCs, Pesticides, Metals
0A07-246	SVOCs, Pesticides, Metals, TSS	SVOCs, Pesticides, Metals
0A07-247	SVOCs, Pesticides, Metals, TSS	SVOCs, Pesticides, Metals
0A07-248	SVOCs, Pesticides, Metals, TSS	SVOCs, Pesticides, Metals
0A07-249	SVOCs, Pesticides, Metals, TSS	SVOCs, Pesticides, Metals
0A07-250	SVOCs, Pesticides, Metals, TSS	SVOCs, Pesticides, Metals
0A07-251	SVOCs, Pesticides, Metals, TSS	SVOCs, Pesticides, Metals
0A07-252	SVOCs, Pesticides, Metals, TSS	SVOCs, Pesticides, Metals
0A09-042	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A09-043	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A09-044	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A09-045	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A09-046	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A09-047	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A09-048	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A09-065	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A10-004	Metals, Perchlorate, TSS	
0A10-023	Metals, Perchlorate, TSS	Metals
0A10-024	Metals, Perchlorate, TSS	Metals
0A10-025	Metals, Perchlorate, TSS	Metals
0A10-026	Metals, Perchlorate, TSS	Metals

Table 5-256
Proposed Sediment and Surface Water Samples and Analytical Suites

RI/FS Location ID	Surface Water Sample Analysis	Sediment Sample Analysis
0A10-027	Metals, Perchlorate, TSS	Metals
0A11-001	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-006	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-007	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-008	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-009	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-010	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-011	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-012	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-013	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-014	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-015	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-016	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-017	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-018	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-019	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-020	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-021	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-022	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-023	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-024	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-025	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-026	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A11-027	Metals, Perchlorate, TSS	Metals
0A11-028	PAHs, TSS	PAHs
0A11-029	PAHs, Explosives, TSS	PAHs, Explosives
0A11-030	PAHs, TSS	PAHs
0A11-031	PAHs, TSS	PAHs
0A12-001	Metals, Perchlorate, TSS	
0A12-007	Metals, Perchlorate, TSS	
0A12-012	Metals, Perchlorate, TSS	
0A12-014	Metals, Perchlorate, TSS	
0A12-016	Metals, Perchlorate, TSS	
0A12-020	Metals, Perchlorate, TSS	
0A12-021	Metals, Perchlorate, TSS	
0A12-024	Metals, Perchlorate, TSS	
0A12-030	Metals, Perchlorate, TSS, TDS, Sulfate (as SO4)	
0A12-060	Metals, Perchlorate, TSS	
0A12-074	Metals, Perchlorate, TSS	
0A12-079	Metals, Perchlorate, TSS	
0A12-080	Metals, Perchlorate, TSS	
0A12-092	Metals, Perchlorate, TSS	
0A12-194	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A12-195	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A12-196	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A12-197	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A12-198	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A12-199	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A12-200	PAHs, Explosives, Perchlorate, Metals, TSS	PAHs, Explosives, Metals
0A12-201	Metals, TSS	Metals
0A12-202	PAHs, Metals, TSS	PAHs, Metals
0A12-203	Explosives, Metals, TSS	Explosives, Metals
0A13-137	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-138	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-139	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-140	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-141	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-142	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-143	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-144	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-145	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A13-146	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals

Table 5-256
Proposed Sediment and Surface Water Samples and Analytical Suites

RI/FS Location ID	Surface Water Sample Analysis	Sediment Sample Analysis
0A13-147	SVOCs, Explosives, Perchlorate, Metals, TSS	SVOCs, Explosives, Metals
0A2B-015	Metals, Perchlorate, TSS	
0A2D-044	Metals, Perchlorate, TSS	
0A2F-007	Metals, Perchlorate, TSS	
0A2F-008	Metals, Perchlorate, TSS	
0A2P-019	Metals, Perchlorate, TSS	
0A4E-008	Metals, Perchlorate, TSS	
0A4E-039	SVOCs, Metals, TSS	SVOCs, Metals
0A4E-040	SVOCs, Metals, TSS	SVOCs, Metals
0A4E-041	SVOCs, Metals, TSS	SVOCs, Metals
0A4E-042	SVOCs, Metals, TSS	SVOCs, Metals
0A4W-049	Metals, TSS	Metals
0A4W-050	Metals, TSS	Metals
0A4W-051	Metals, TSS	Metals
0A4W-052	Metals, TSS	Metals
0A4W-053	Metals, TSS	Metals
0A8S-002	SVOCs, Perchlorate, Metals, TSS	
0A8S-023	SVOCs, Perchlorate, Metals, TSS	
0A8S-024	SVOCs, Perchlorate, Metals, TSS	
0A8S-048	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-049	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-050	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-051	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-052	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-053	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-054	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-055	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-056	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-057	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
0A8S-058	SVOCs, Perchlorate, Metals, TSS	SVOCs, Metals
106A-023	Metals, TSS	Metals
106A-024	Metals, TSS	Metals
106A-025	Metals, TSS	Metals
106A-026	Metals, TSS	Metals
A11A-006	Metals, Perchlorate, TSS	
A11A-007	Metals, Perchlorate, TSS	
A11A-008	SVOCs, Perchlorate, Metals, TSS	
A11A-010	Metals, Perchlorate, TSS, TDS	
A11A-014	Metals, Perchlorate, TSS	
A11A-022	Metals, Perchlorate, TSS	
A11A-023	Metals, Perchlorate, TSS	
A11A-024	Metals, Perchlorate, TSS	
A11A-026	SVOCs, Metals, Perchlorate, TSS	
A11A-028	Metals, Perchlorate, TSS	
A11A-032	Metals, Perchlorate, TSS	
A11A-033	Metals, Perchlorate, TSS	
A11H-008	Metals, Perchlorate, TSS	
A11H-010	Metals, Perchlorate, TSS	
A11H-012	Metals, Perchlorate, TSS	
A11H-018	Metals, Perchlorate, TSS	
A11H-031	Metals, Perchlorate, TSS	
A11H-040	Metals, Perchlorate, TSS	
A11H-041	Metals, Perchlorate, TSS	
A11H-051	Metals, Perchlorate, TSS	
A11H-057	Metals, Perchlorate, TSS	
A11H-058	Metals, Perchlorate, TSS	
A11H-062	Metals, Perchlorate, TSS	
A11N-001	Metals, Perchlorate, TSS	
A11N-005	Metals, Perchlorate, TSS	
A11N-012	Metals, Perchlorate, TSS	
A11N-015	Metals, Perchlorate, TSS	
A11N-024	Metals, Perchlorate, TSS	
A11P-004	Metals, Perchlorate, TSS	
A11P-019	Metals, Perchlorate, TSS	
A11P-029	Metals, Perchlorate, TSS	

Table 5-256
Proposed Sediment and Surface Water Samples and Analytical Suites

RI/FS Location ID	Surface Water Sample Analysis	Sediment Sample Analysis
A11P-036	Metals, Perchlorate, TSS	
A11P-038	Metals, Perchlorate, TSS	
A11P-039	Metals, Perchlorate, TSS	
A11S-001	Metals, Perchlorate, TSS	
A11S-008	Metals, Perchlorate, TSS, Sulfate (as SO4)	
A11S-009	Metals, Perchlorate, TSS	
A11S-010	Metals, Perchlorate, TSS	
A11S-011	Metals, Perchlorate, TSS	
A11S-012	Metals, Perchlorate, TSS	
A11S-013	Metals, Perchlorate, TSS	
A11S-019	Metals, Perchlorate, TSS	
A11S-022	Metals, Perchlorate, TSS	
A11S-024	Metals, Perchlorate, TSS	
A11S-042	Metals, Perchlorate, TSS	
A11S-043	Metals, Perchlorate, TSS	

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
0A2B	AUS-0A2B-W01	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation. Potential Perchlorate.
	AUS-0A2B-W02	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation Potential Perchlorate.
	AUS-0A2B-W03	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation. Potential Perchlorate
	AUS-0A2B-W04	MW	VOCs Perchlorate	*Proposed Monitoring Well*. Downgradient of B-2-2. Potential Perchlorate
	AUS-0A2B-W05	MW	VOCs Metals Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for VOCs and Metals at 0A2B-021. Adjacent to B-2-13. Potential Perchlorate
	AUS-0A2B-W06	MW	VOCs Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for VOCs at 0A2B-009. Potential Perchlorate.
	AUS-0A2B-W07	MW	VOCs SVOCs Metals Explosives Perchlorate	*Proposed Monitoring Well.* Adjacent to IOP Building B-2-9 Potential Perchlorate
	AUS-0A2B-W08	MW	VOCs Metals	*Proposed Monitoring Well.* *Adjacent to and Downgradient from Bldg B-2-6.* Exceedance of Soil to GW Screening Criteria for Metals at 0A2B-004.
	AUS-0A2B-W11	MW	VOCs Perchlorate	*Proposed Monitoring Well*. Downgradient of B-2-1. Potential Perchlorate
	AUS-0A2B-W09	MW	Metals	*Proposed Temporary Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Arsenic at 0A2B-008.
	AUS-0A2B-W10	MW	Metals	*Proposed Temporary Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Chromium at 0A2B-016.
	AUS-0A2B-W12	MW	VOCs	*Proposed Temporary Monitoring Well*. Evaluate horizontal extent of TCE, PCE and cis 1,2 DCE in sample from existing well AUS -0A2B-W02
	AUS-0A2B-W13	MW	VOCs	*Proposed Temporary Monitoring Well*. Evaluate horizontal extent of TCE, PCE and cis 1,2 DCE in sample from existing well AUS -0A2B-W02
	AUS-0A2B-W14	MW	VOCs	*Proposed Temporary Monitoring Well*. Evaluate horizontal extent of TCE, PCE and cis 1,2 DCE in sample from existing well AUS -0A2B-W02
	AUS-0A2B-W15	MW	VOCs	*Proposed Temporary Monitoring Well*. Evaluate horizontal extent of TCE, PCE and cis 1,2 DCE in sample from existing well AUS -0A2B-W02

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-0A2B-W16	MW	VOCs	*Proposed Temporary Monitoring Well*. Evaluate horizontal extent of TCE, PCE and cis 1,2 DCE in sample from existing well AUS -0A2B-W02
	AUS-0A2B-W17	MW	VOCs	*Proposed Temporary Monitoring Well*. Evaluate horizontal extent of TCE, PCE and cis 1,2 DCE in sample from existing well AUS -0A2B-W02
	AUS-0A2B-PZ01	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2B-PZ02	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
0A2D	AUS-0A2D-W01	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation Potential Perchlorate
	AUS-0A2D-W02	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation Potential Perchlorate
	AUS-0A2D-W03	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation Potential Perchlorate
	AUS-0A2D-W04	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation Potential Perchlorate
	AUS-0A2D-W05	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation Potential Perchlorate
	AUS-0A2D-W06	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation Potential Perchlorate
	AUS-0A2D-W07	MW	Metals VOCs Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Metals at 0A2D-012. Near PA/SI GSC exceedance for VOCs. Potential Perchlorate.
	AUS-0A2D-W08	MW	Metals SVOCs Explosives Perchlorate VOCs	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for SVOCs at 0A2D-025. Adjacent to D-1-43. Potential Perchlorate
	AUS-0A2D-W09	MW	Metals Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Metals at 0A2D-036 Potential Perchlorate.
	AUS-0A2D-W10	MW	Metals SVOCs Explosives Perchlorate VOCs	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for SVOCs at 0A2D-022. Adjacent to D-1-47. Potential Perchlorate.
	AUS-0A2D-W11	MW	Metals Perchlorate	*Proposed Monitoring Well*. Exceedance of Soil to GW Screening Criteria for Metals at 0A2D-002. Potential Perchlorate.
	AUS-0A2D-W12	MW	Metals Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Metals at 0A2D-017. Potential Perchlorate.

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-0A2D-W14	MW	Metals Perchlorate VOCs	*Proposed Monitoring Well.* Downgradient from D-1-7. Exceedance of Soil to GW Screening Criteria for Explosives at 0A2D-006. Potential Perchlorate.
	AUS-0A2D-W15	MW	Perchlorate VOCs	*Proposed Monitoring Well.* Downgradient from D-1-6. Potential Perchlorate
	AUS-0A2D-W16	MW	Perchlorate VOCs	*Proposed Monitoring Well.* Downgradient from D-1-35. Potential Perchlorate
	AUS-0A2D-W13	MW	Metals Perchlorate	*Proposed Temporary Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Metals at 0A2D-028. Potential Perchlorate.
	AUS-0A2D-W17	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W01
	AUS-0A2D-W18	MW	VOCs	*Proposed Monitoring Well.* Evaluate horizontal extent of TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W01
	AUS-0A2D-W19	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W01
	AUS-0A2D-W20	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W01
	AUS-0A2D-W21	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W01
	AUS-0A2D-W22	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of PCE, TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W03
	AUS-0A2D-W23	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of PCE, TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W03
	AUS-0A2D-W24	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of PCE, TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W03
	AUS-0A2D-W25	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of PCE, TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W03
	AUS-0A2D-W26	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of PCE, TCE, cis 1,2 DCE and VC in sample from existing well AUS-0A2D-W03
	AUS-0A2D-PZ01	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2D-PZ02	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-0A2D-PZ03	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2D-PZ04	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2D-PZ05	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
0A2F	AUS-0A2F-W01	MW	VOCs Perchlorate	*Existing Monitoring Well*. VOCs retained for evaluation Potential Perchlorate.
	AUS-0A2F-W02	MW	VOCs Perchlorate	*Existing Monitoring Well*. VOCs retained for evaluation Potential Perchlorate
	AUS-0A2F-W03	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation Potential Perchlorate
	AUS-0A2F-W04	MW	VOCs	*Proposed Monitoring Well*. Adjacent to Former ASTs
	AUS-0A2F-W05	MW	VOCs	*Proposed Monitoring Well.* Adjacent to F-6-45.
	AUS-0A2F-W06	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE and cis 1,2 DCE in sample from existing well AUS-0A2F-W02
	AUS-0A2F-W07	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE and cis 1,2 DCE in sample from existing well AUS-0A2F-W02
	AUS-0A2F-W08	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE and cis 1,2 DCE in sample from existing well AUS-0A2F-W02
	AUS-0A2F-W09	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE and cis 1,2 DCE in sample from existing well AUS-0A2F-W02
	AUS-0A2F-W10	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE and cis 1,2 DCE in sample from existing well AUS-0A2F-W02
	AUS-0A2F-W11	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE and cis 1,2 DCE in sample from existing well AUS-0A2F-W02
	AUS-0A2F-W12	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE and cis 1,2 DCE in sample from existing well AUS-0A2F-W02
	AUS-0A2F-W13	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE and cis 1,2 DCE in sample from existing well AUS-0A2F-W02
	AUS-0A2F-PZ01	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2F-PZ02	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2F-PZ03	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-0A2F-PZ04	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
0A2P	AUS-0A2P-W01	MW	VOCs Perchlorate Nitrogen, Nitrate-Nitrite[4]	*Existing Monitoring Well.* VOCs retained for evaluation. Possible Perchlorate.
	AUS-0A2P-W02	MW	VOCs Perchlorate Nitrogen, Nitrate-Nitrite	*Existing Monitoring Well.* VOCs retained for evaluation. Possible Perchlorate.
	AUS-0A2P-W03	MW	VOCs Perchlorate Nitrogen, Nitrate-Nitrite	*Existing Monitoring Well.* VOCs retained for evaluation. Possible Perchlorate.
	AUS-0A2P-W04	MW	VOCs Perchlorate Nitrogen, Nitrate-Nitrite	*Existing Monitoring Well.* VOCs retained for evaluation. Possible Perchlorate.
	AUS-0A2P-W05	MW	VOCs Perchlorate Nitrogen, Nitrate-Nitrite	*Existing Monitoring Well.* VOCs retained for evaluation. Possible Perchlorate.
	AUS-0A2P-W06	MW	VOCs Perchlorate Nitrogen, Nitrate-Nitrite	*Existing Monitoring Well.* VOCs retained for evaluation. Possible Perchlorate.
	AUS-0A2P-W07	MW	Metals Nitrogen, Nitrate-Nitrite	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Metals at 0A2P-010
	AUS-0A2P-W08	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (west) from Bldg 0A2P-1-3.
	AUS-0A2P-W09	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (west) from Bldg 0A2P-1-3.
	AUS-0A2P-W10	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (west) from Bldg 0A2P-1-3.
	AUS-0A2P-W11	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (west) from Bldg 0A2P-1-3.
	AUS-0A2P-W12	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (east) from Bldg 0A2P-1-3.
	AUS-0A2P-W13	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (east) from Bldg 0A2P-1-3.
	AUS-0A2P-W14	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (east) from Bldg 0A2P-1-3.

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-0A2P-W15	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (east) from Bldg 0A2P-1-3.
	AUS-0A2P-W16	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; downgradient (southwest) from Bldg 0A2P-1-3.
	AUS-0A2P-W17	MW	VOCs	*Proposed Temporary Monitoring Well.* Evaluate horizontal extent of TCE in samples from existing well AUS-0A2P-W02, -W03; upgradient (northeast) from Bldg 0A2P-1-3.
	AUS-0A2P-PZ01	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2P-PZ02	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2P-PZ03	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2P-PZ04	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-0A2P-PZ05	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
2R	AUS-0A2R-W01	MW	PAHs	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for PAHs at 0A2R-004
0A03	No Phase I RI/FS groundwater sampling proposed.			
4E	AUS-0A4E-W01	MW	VOCs	*Existing Monitoring Well.*
	AUS-0A4E-W02	MW	VOCs	*Existing Monitoring Well.*
	AUS-0A4E-W03	MW	VOCs	*Existing Monitoring Well.*
	AUS-0A4E-W04	MW	VOCs	*Proposed Monitoring Well*. Downgradient of Building S-4-4.
	AUS-0A4E-W05	MW	VOCs	*Proposed Monitoring Well.* Downgradient of Building S-4-5.
4W	AUS-0A4W-W01	MW	Metals	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals at 0A4W-003
	AUS-0A4W-W02	MW	VOCs	*Proposed Monitoring Well* Assumed downgradient from Buildings S-1-1 (diesel repair shop) based on topography
6	AUS-0A06-W01	MW	PAHs Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for PAHs at 0A06-016. Possible Perchlorate.
	AUS-0A06-W02	MW	SVOCs Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for SVOCs at 0A06-005. Possible Perchlorate.
	AUS-0A06-W03	MW	SVOCs Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for SVOCs at 0A06-025. Possible Perchlorate.

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-0A06-W04	MW	PAHs Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for PAHs at 0A06-017. Possible Perchlorate.
	AUS-0A06-W05	MW	Explosives Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives at 0A06-024. Possible Perchlorate.
7	AUS-0A07-W01	MW	VOCs Pesticides	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for VOCs and Pesticides at 0A07-047. VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W02	MW	VOCs Pesticides	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Pesticides at 0A07-002. VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W03	MW	VOCs Metals	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals at 0A07-010. Adjacent to IN-2-6. VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W04	MW	VOCs	*Proposed Monitoring Well* VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W05	MW	VOCs	*Proposed Monitoring Well* VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W06	MW	VOCs	*Proposed Monitoring Well* VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W07	MW	VOCs	*Proposed Monitoring Well* VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W08	MW	VOCs Pesticides	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Pesticides at 0A07-004. VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W09	MW	VOCs Pesticides	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Pesticides at 0A07-073. VOCs analysis in groundwater due to TCE detected in shallow soils.
	AUS-0A07-W10	MW	VOCs Pesticides	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Pesticides at 0A07-051. VOCs analysis in groundwater due to TCE detected in shallow soils.
8S	AUS-OA8S-W01	MW		*Existing Monitoring Well.*
	AUS-OA8S-W02	MW		*Existing Monitoring Well.*
	AUS-OA8S-W03	MW	Metals	*Existing Monitoring Well.* Metals analysis due to Mn detections.
	AUS-OA8S-W04	MW	Metals	*Existing Monitoring Well.* Metals analysis due to Mn detections.

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-OA8S-W05	MW	Metals	*Existing Monitoring Well.* Metals analysis due to Mn detections.
	AUS-OA8S-W06	MW	Metals	*Existing Monitoring Well.* Metals analysis due to Mn detections.
	AUS-OA8S-W07	MW	Explosives Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Explosives at 0A8S-017. Possible Perchlorate.
	AUS-OA8S-W08	MW	Explosives Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Explosives at 0A8S-019. Possible Perchlorate.
	AUS-OA8S-W09	MW	Nitrogen, Nitrate-Nitrite Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW Screening Criteria for Nitrogen, Nitrate-Nitrite at 0A8S-007. Possible Perchlorate.
	AUS-0A8S-W10	MW	Explosives Perchlorate	*Proposed Monitoring Well.* Exceedance of Soil to GW screening Criteria for Explosives at 0A8S-032. Possible Perchlorate.
	AUS-0A8S-W11	MW	Metals Perchlorate	*Proposed Temporary Monitoring Well.* Exceedance of Soil to GW screening Criteria for Metals at sediments sample 0A8S-023. Possible Perchlorate.
9	AUS-0A09-W01	MW	VOCs	*Existing Monitoring Well.* Exceedance of TCE[3]
	AUS-0A09-W02	MW	Metals Explosives Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives at 0A09-012. Possible Perchlorate.
	AUS-0A09-W03	MW	Metals Explosives Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals and Explosives at 0A09-015. Possible Perchlorate.
	AUS-0A09-W04	MW	Metals Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals at 0A09-006 Possible Perchlorate.
	AUS-0A09-W05	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate TCE exceedance at monitoring well 0A09-W01
	AUS-0A09-W06	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate TCE exceedance at monitoring well 0A09-W01
10	AUS-0A10-W01	MW	VOCs SVOCs Metals Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for VOCs at 0A10-002 Potential Perchlorate in area. Within burn pits as requested by Agencies
	AUS-0A10-W02	MW	Metals Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals at 0A10-001 Potential Perchlorate in area.
11A	AUS-A11A-W01	MW	Metals Sulfates	*Existing Monitoring Well*

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-A11A-W02	MW	Metals Nitrogen (Nitrate-Nitrite) Sulfates	*Existing Monitoring Well*
	AUS-A11A-W03	MW	Metals Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals at A11A-030. Possible Perchlorate.
	AUS-A11A-W04	MW	Explosives Metals Sulfates Perchlorate	*Proposed Monitoring Well* Downgradient of EMMA Site 5.
	AUS-A11A-W05	MW	VOCs Metals Perchlorate	*Proposed Monitoring Well* At location of Former ASTs at acid storage area.
	AUS-A11A-W06	MW	VOCs SVOCs Metals Perchlorate Explosives	*Proposed Monitoring Well* At location of Prill Tower and Wet End (Olin/US #40).
	AUS-A11A-W07	MW	VOCs SVOCs Metals Perchlorate	*Proposed Monitoring Well* At location of Spent Acid House (Olin/USP#38).
	AUS-A11A-W08	MW	Metals Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals at sediment sample A11A-008. Possible Perchlorate.
	AUS-A11A-W09	MW	PAHs VOCs Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for PAHs at sediment sample A11A-036. Adjacent to Olin Building 46. Possible Perchlorate.
	AUS-A11A-W10	MW	SVOCs Metals Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Chromium and Pentachlorophenol at sediment sample A11A-026. Possible Perchlorate.
	AUS-A11A-PZ01	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-A11A-SG01	SG	Hydraulic parameters only	*Proposed Surface Water Staff Gauge* Surface water elevation definition
11H	AUS-A11H-W01	MW	Metals Nitrate	*Existing Monitoring Well*
	AUS-A11H-W02	MW	Explosives Perchlorate Metals VOCs SVOCs	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in A11H-013. Adjacent to Buried Buildings Complex. Possible Perchlorate.
	AUS-A11H-W03	MW	Explosives Perchlorate Metals VOCs SVOCs	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for metals and SVOCs in A11H-053. Adjacent to Buried Buildings Complex. Possible Perchlorate.

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-A11H-W04	MW	VOCs Metals Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for metals and VOCs at A11H-028. Adjacent to Building 24-3 used for parts cleaning. Possible Perchlorate.
	AUS-A11H-W05	MW	Explosives Perchlorate Metals VOCs SVOCs	*Proposed Monitoring Well* Adjacent to Buried Buildings Complex. Possible Perchlorate.
	AUS-A11H-W06	MW	Explosives Perchlorate Metals VOCs SVOCs	*Proposed Monitoring Well* Adjacent to Buried Buildings Complex: Possible Perchlorate.
	AUS-A11H-W07	MW	Explosives Perchlorate VOCs Metals	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in sediment sample A11H-022. Possible Perchlorate.
	AUS-A11H-W08	MW	Explosives Perchlorate Metals VOCs SVOCs	*Proposed Temporary Monitoring Well* Adjacent to Melt Loading Building (II-1-6). Approximately 30 feet from proposed samples A11H-100 and A11H-101. Install adjacent to trench water sample A11H-061 to verify concentrations of constituents detected in the trench water sample. Possible Perchlorate.
	AUS-A11H-W09	MW	Explosives Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in sediment sample A11H-024. Possible Perchlorate.
	AUS-A11H-W10	MW	SVOCs Metals Explosives Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for SVOCs, Explosives, and metals in sediment sample A11H-020. Possible Perchlorate.
	AUS-A11H-W11	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Cadmium in sediment sample A11H-007.
	AUS-A11H-W12	MW	Explosives Perchlorate	*Temporary Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in sediment sample A11H-008. Possible Perchlorate.
	AUS-A11H-W13	MW	Metals	*Temporary Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Chromium in sediment sample A11H-041.
	AUS-A11H-SG01	SG	Hydraulic parameters only	*Proposed Surface Water Staff Gauge* Surface water elevation definition

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
11N	AUS-A11N-W01	MW	Explosives Perchlorate Metals Nitrates Sulfates VOCs SVOCs	*Proposed Monitoring Well* Adjacent and downgradient of former disposal trenches.
	AUS-A11N-W02	MW	Explosives Perchlorate Metals Nitrates Sulfates VOCs SVOCs	*Proposed Monitoring Well* Adjacent and downgradient of Building 9 (Nitrator).
	AUS-A11N-W03	MW	Explosives Perchlorate Metals Nitrates Sulfates VOCs SVOCs	*Proposed Monitoring Well* Adjacent and downgradient of Building 10 (Nitroglycerin storage) and 2 associated trenches.
	AUS-A11N-PZ01	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
11P	AUS-A11P-W01	MW	VOCs Perchlorate	*Existing Monitoring Well.* Low concentrations of VOCs detected during PA/SI sampling. Possible Perchlorate.
	AUS-A11P-W02	MW	Explosives Perchlorate	*Proposed Monitoring Well* Downgradient of Building 85.
	AUS-A11P-W03	MW	Explosives Perchlorate	*Proposed Monitoring Well* Near the Northwest boundary of Area 11P. Location will be selected based on results of Phase I RI soil sampling.
	AUS-A11P-W04	MW	Explosives Perchlorate	*Proposed Monitoring Well* Near the Northwest boundary of Area 11P. Location will be selected based on results of Phase I RI soil sampling.
	AUS-A11P-W05	MW	Explosives Metals Perchlorate	*Temporary Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in sewer line sample A11P-027. Possible Perchlorate.
11S	AUS-A11S-W01	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation. Potential Perchlorate
	AUS-A11S-W02	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation. Potential Perchlorate
	AUS-A11S-W03	MW	VOCs Perchlorate	*Existing Monitoring Well*. VOCs retained for evaluation. Potential Perchlorate
	AUS-A11S-W04	MW	VOCs Perchlorate	*Existing Monitoring Well.* VOCs retained for evaluation. Potential Perchlorate l
	AUS-A11S-W05	MW	Explosives Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in A11S-048. Possible Perchlorate.

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-A11S-W06	MW	VOCs Explosives Perchlorate	*Proposed Monitoring Well* Agency request for monitoring well downgradient from Area 11H and 11N to detect potential plumes from these areas.
	AUS-A11S-W07	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for cadmium in soil sample A11S-004.
	AUS-A11S-W08	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for metals in sediment sample A11S-044.
	AUS-A11S-W09	MW	SVOCs Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for SVOCs in sewer line sample A11S-030. Possible Perchlorate.
	AUS-A11S-W10	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for metals in soil sample A11S-035.
	AUS-A11S-W11	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for metals in soil sample A11S-027.
	AUS-A11S-W12	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04
	AUS-A11S-W13	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04
	AUS-A11S-W14	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04
	AUS-A11S-W15	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04
	AUS-A11S-W16	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04
	AUS-A11S-W17	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04
	AUS-A11S-W18	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04
	AUS-A11S-W19	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-A11S-W20	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W02, -W04
	AUS-A11S-W21	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W01
	AUS-A11S-W22	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W01
	AUS-A11S-W23	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W01
	AUS-A11S-W24	MW	VOCs	*Proposed Temporary Monitoring Well* Evaluate horizontal extent of TCE (and cis 1,2 DCE) in samples from existing wells AUS-A11S-W01
	AUS-A11S-W25	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for metals in soil sample A11S-021.
	AUS-A11S-PZ01	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
	AUS-A11S-PZ02	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition
12	AUS-0A12-COP4-4	MW	VOCs Explosives Perchlorate	*Existing Monitoring Well* Potentially useful for time series and groundwater constituent concentration data. Possible Perchlorate.
	AUS-COP4-COP4-2	MW	VOCs Explosives Perchlorate Sulfates Nitrates	*Existing Monitoring Well* Potentially useful for time series and groundwater constituent concentration data. Possible Perchlorate.
	AUS-0A12-W01	MW	Explosives Metals Perchlorate Sulfates Nitrates	*Existing Monitoring Well* Verify relatively high concentrations of Metals detected in PA/SI groundwater Sample
	AUS-0A12-W02	MW		*Existing Monitoring Well*
	AUS-0A12-W03	MW	Metals VOCs Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria Chromium in 0A12-011. Possible Perchlorate.
	AUS-0A12-W04	MW	VOCs PAHs Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Exceedance of groundwater screening criteria for VOCs and Chrysene in trench water sample from 0A12-008. Exceedance of Soil to GW Screening Criteria for VOCs in soil sample from 0A12-008. Possible Perchlorate.

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
	AUS-0A12-W05	MW	SVOCs Explosives Sulfates Nitrates	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for SVOCs in 0A12-031.
	AUS-0A12-W06	MW	VOCs Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for VOCs in 0A12-002. Possible Perchlorate.
	AUS-0A12-W07	MW	Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Downgradient of 0A12-080. Exceedance of Soil to GW Screening Criteria for 2,4-Dinitrotoluene at sediment sample 0A12-080. Possible Perchlorate.
	AUS-0A12-W08	MW	VOCs Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Exceedance of groundwater screening criteria for VOCs in trench water sample from 0A12-100. Possible Perchlorate.
	AUS-0A12-W09	MW	VOCs Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Downgradient of burning grounds. Possible Perchlorate.
	AUS-0A12-W10	MW	Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Adjacent to trench sample 0A12-035. Possible Perchlorate.
	AUS-0A12-W11	MW	VOCs Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Agency request for a monitoring well placed approximately 100 feet north/northwest of the former propellant ponds.
	AUS-0A12-W12	MW	VOCs Explosives Perchlorate Sulfates Nitrates	*Proposed Monitoring Well* Agency request for a monitoring well placed approximately 100 feet north/northwest of the former propellant ponds.
	AUS-0A12-W13	MW	Explosives Perchlorate SVOCs	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives and SVOCs in 0A12-032. Possible Perchlorate.
	AUS-0A12-W14	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals in 0A12-069.
	AUS-0A12-W15	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals in 0A12-052.
	AUS-0A12-W16	MW	Explosives Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in 0A12-006. Possible Perchlorate.
	AUS-0A12-W17	MW	Metals Perchlorate	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals in 0A12-056.
	AUS-0A12-PZ01	PZ	Hydraulic parameters only	*Proposed Piezometer* Groundwater flow definition

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
13	AUS-0A13-W01	MW	SVOCs Explosives Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives and SVOCs in 0A13-004. Potential Perchlorate in area.
	AUS-0A13-W02	MW	Explosives Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives and SVOCs in 0A13-010. Potential Perchlorate in area
	AUS-0A13-W03	MW	SVOCs Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for SVOCs in 0A13-029. Potential Perchlorate in area
	AUS-0A13-W04	MW	Metals Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals in 0A13-014. Potential Perchlorate in area
0001	AUS-0001-W01	MW	Metals	*Existing Monitoring Well*
0002	AUS-0002-W01	MW	VOCs SVOCs Metals	*Proposed Monitoring Well* Downgradient from former lagoons.
	AUS-0002-W02	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals in sediment sample 0002-003.
0018	No Phase I groundwater sampling.			
0043	AUS-0043-W01	MW	Explosives Perchlorate	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in 0042-002. Potential Perchlorate in area
0060	No Phase I groundwater sampling.			
0061	AUS-0061-W01	MW	Metals PAHs	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals and PAHs in 0061-002.
	AUS-0061-W02	MW	Metals PAHs	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals and PAHs in 0061-001.
	17-MWC-01	MW	VOCs SVOCs Explosives	*Existing monitoring well* [4] Adjacent to former trenches.
	17-MWC-02	MW	VOCs SVOCs Explosives	*Existing monitoring well* [4] Adjacent to former trenches.
	17-MWC-03	MW	VOCs SVOCs Explosives	*Existing monitoring well* [4] Adjacent to former trenches.
0062	No Phase I groundwater sampling.			
0065	AUS-0065-W01	MW	SVOCs	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for SVOCs in 0065-002.
0066	AUS-0066-W01	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals in 0066-004.

Table 5-257

RI/FS Existing and Proposed Groundwater Sampling Summary

Area	RI/FS Location ID	Type[1]	Analytes	Rationale
0067	AUS-0067-W01	MW	Explosives Perchlorate	*Proposed Monitoring Well* Verification of Explosive Exceedance in groundwater sample collected from cistern in PA/SI investigation. Potential Perchlorate in area.
0069	AUS-0069-W01	MW	Explosives Metals	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Explosives in 0069-008 and metals in 0069-012.
	AUS-0069-W02	MW	Metals	*Proposed Temporary Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals in sediment sample 0069-010.
106A	AUS-106A-W01	MW	Metals VOCs	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals and VOCs
	AUS-106A-W02	MW	Metals VOCs	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals and VOCs
	AUS-106A-W03	MW	Metals VOCs	*Proposed Monitoring Well* Exceedance of Soil to GW Screening Criteria for Metals and VOCs.

[1] MW - monitoring well; PZ – piezometer; SG – surface water staff gauge

[2] For all proposed sampling locations, nitrate-nitrate results between 1 and 10 mg/kg will be flagged as uncertainties if the groundwater at the sampled locations meets a Class 1 aquifer designation; for these conditions, further investigation during a future sampling effort will be performed.

[3] Well AUS-0A09-001 yielded exceedance values for TCE; adjacent area is being investigated for a TCE plume as part of the ongoing PCB OU. New wells AUS-0A09-W05, -W06 will be installed to evaluate this detection.

[4] Well installed for the Job Corps Landfill as part of the PCB OU.

Figure 5-258: AUS OU Areas IEPA Groundwater Classification Summary

AUS Area	Arithmetic Mean of Hydraulic Conductivity Results (cm/sec) from PA/SI Slug Tests	Proposed Groundwater Data Needs	Proposed Single Well Response Test Location ID	Comments
0A2B	2.17E-05	Single Well Response Tests and Review of PA/SI slug test interpretation.	AUS-0A2B-W04 AUS-0A2B-W05 AUS-0A2B-W06 AUS-0A2B-W07 AUS-0A2B-W08 AUS-0A2B-W11 AUS-0A2B-PZ01 AUS-0A2B-PZ02	Slug tests conducted on 3 MWs during PA/SI which will be retested.
0A2D	6.98E-06	Single Well Response Tests and Review of PA/SI slug test interpretation.	AUS-0A2D-W07 AUS-0A2D-W08 AUS-0A2D-W09 AUS-0A2D-W10 AUS-0A2D-W11 AUS-0A2D-W12 AUS-0A2D-W14 AUS-0A2D-W15 AUS-0A2D-W16 AUS-0A2D-PZ01 AUS-0A2D-PZ02 AUS-0A2D-PZ03 AUS-0A2D-PZ04 AUS-0A2D-PZ05	Slug tests conducted on 6 MWs in PA/SI which will be retested.
0A2F	1.19E-05	Single Well Response Tests and Review of PA/SI slug test interpretation.	AUS-0A2F-W04 AUS-0A2F-W05 AUS-0A2F-PZ01 AUS-0A2F-PZ02 AUS-0A2F-PZ03 AUS-0A2F-PZ04	Slug tests conducted on 3 MWs during PA/SI which will be retested.
0A2P	7.39E-05	Single Well Response Tests and Review of PA/SI slug test interpretation.	AUS-0A2P-W07 AUS-0A2P-PZ01 AUS-0A2P-PZ02 AUS-0A2P-PZ03 AUS-0A2P-PZ04 AUS-0A2P-PZ05	Slug tests conducted on 6 MWs during PA/SI which will be retested.
0A2R		Single Well Response Test	AUS-0A2R-W01	No previous hydrogeologic data collected.
0A03				No previous hydrogeologic data collected and none proposed during this RI phase.
0A4E	3.51E-05	Single Well Response Tests and reevaluation of slug test data from AUS-0A4E-W01 thorugh W03	AUS-0A4E-W01 AUS-0A4E-W02 AUS-0A4E-W03 AUS-0A4E-W04 AUS-0A4E-W05	Slug tests conducted on 3 MWs in PA/SI which will be retested.
0A4W		Single Well Response Tests	AUS-0A4W-W01 AUS-0A4W-W02	No previous hydrogeologic data collected. Slug tests conducted on 3 MWs during PASI in adjacent Area 0A4E which will be retested.

Figure 5-258: AUS OU Areas IEPA Groundwater Classification Summary

0A06		Single Well Response Tests	AUS-0A06-W01 AUS-0A06-W02 AUS-0A06-W03 AUS-0A06-W04 AUS-0A06-W05	No previous hydrogeologic data collected.
0A07		Single Well Response Tests	AUS-0A07-W01 AUS-0A07-W02 AUS-0A07-W03 AUS-0A07-W04 AUS-0A07-W05 AUS-0A07-W06 AUS-0A07-W07	No previous hydrogeologic data collected.
0A8S	3.32E-04	Single Well Response Tests and review of PA/SI slug test interpretation.	AUS-OA8S-W07 AUS-OA8S-W08 AUS-OA8S-W09 AUS-OA8S-W10	Slug tests conducted on 6 MWs in PA/SI.
0A09		Single Well Response Tests	AUS-0A09-W01 AUS-0A09-W02 AUS-0A09-W03 AUS0A09-W04	Currently a IEPA Class I aquifer Based on PCB OU hydrogeologic data in eastern portion of Area 9E.
0A10		Single Well Response Tests	AUS-0A10-W01 AUS-0A10-W02	No previous hydrogeologic data collected.
A11A	4.01E-05	Single Well Response Tests and Review of PA/SI interpretation	AUS-A11A-W03 AUS-A11A-W04 AUS-A11A-W05 AUS-A11A-W06 AUS-A11A-W07	Slug tests conducted on 2 MWs during PA/SI which will be retested.
A11H	8.73E-06	Single Well Response Tests and Review of PA/SI interpretation	AUS-A11H-W02 AUS-A11H-W03 AUS-A11H-W04 AUS-A11H-W05 AUS-A11H-W06 AUS-A11H-W07	Slug test conducted on 1 MW during PA/SI which will be retested.
A11N		Single Well Response Tests	AUS-A11N-W01 AUS-A11N-W02 AUS-A11N-W03 AUS-A11N-PZ01	No previous hydrogeologic data collected in this subarea.
A11P	3.18E-05	Single Well Response Tests and Review of PA/SI interpretation	AUS-A11P-W02 AUS-A11P-W03 AUS-A11P-W04	Slug test conducted on 1 MW during PA/SI which will be retested.
A11S	4.52E-05	Single Well Response Test and Review of PA/SI interpretation	AUS-A11S-W05 AUS-A11S-W06 AUS-A11S-PZ01 AUS-A11S-PZ02	Slug test conducted on 4 MWs during PA/SI which will be retested.
0A12	1.11E-04	Single Well Response Tests and reevaluation of slug test data from AUS-0A12-W02	AUS-0A12-W02 AUS-0A12-W03 AUS-0A12-W04 AUS-0A12-W05 AUS-0A12-W06 AUS-0A12-W07 AUS-0A12-W08 AUS-0A12-W09 AUS-0A12-W10 AUS-0A12-W11 AUS-0A12-W12 AUS-0A12-PZ01	Slug test conducted on 2 MWs during PA/SI which will be retested.

Figure 5-258: AUS OU Areas IEPA Groundwater Classification Summary

0A13		Single Well Response Tests	AUS-0A13-W01 AUS-0A13-W02 AUS-0A13-W03 AUS-0A13-W04	No previous hydrogeologic data collected.
0001	1.29E-03	Single Well Response Tests and reevaluation of slug test data from AUS-0001-W01	AUS-0001-W01	Slug test conducted on 1 MW during PA/SI which will be retested.
0002		Single Well Response Test	AUS-0002-W01	No previous hydrogeologic data collected.
0018				No previous hydrogeologic data collected and none proposed during this RI phase.
0043		Single Well Response Test	AUS-0043-W01	No previous hydrogeologic data collected
0060				No previous hydrogeologic data collected and none proposed during this RI phase.
0061		Single Well Response Tests	AUS-0061-W01 AUS-0061-W02 17-MWC-01 17-MWC-01 17-MWC-01	No previous hydrogeologic data collected.
0062				No previous hydrogeologic data collected and none proposed during this RI phase.
0065		Single Well Response Test	AUS-0065-W01	No previous hydrogeologic data collected
0066				No previous hydrogeologic data collected and none proposed during this RI phase.
0067		Single Well Response Test	AUS-0067-W01	No previous hydrogeologic data collected
0069		Single Well Response Test	AUS-0069-W01	No previous hydrogeologic data collected
106A		Single Well Response Tests	AUS-106A-W01 AUS-106A-W02 AUS-106A-W03	No previous hydrogeologic data collected

Table 5-259
Area 2 Groundwater Constituent Screening for Additional Investigation

Constituent	Groundwater Maximum	Units	USEPA MCL/IEPA CLASS I GW STD	Screening Comments
1,1,1-TRICHLOROETHANE	7	UG/L	200	< GSC
1,1,2-TRICHLOROETHANE	28	UG/L	5	
1,1-DICHLOROETHANE	2	UG/L	5	< GSC
1,1-DICHLOROETHENE	9	UG/L	7	
1,2-DICHLOROETHANE	2	UG/L	5	< GSC
ALKALINITY, TOTAL (AS CACO3)	670	MG/L		
ALUMINUM	111000	UG/L	3500	
ANTIMONY	2.3	UG/L	6	< GSC
ARSENIC	18.4	UG/L	50	Trench
BARIUM	2510	UG/L	2000	Trench
BERYLLIUM	10.9	UG/L	4	Trench
BIS(2-ETHYLHEXYL) PHTHALATE	9.4	UG/L	6	
BORON	119	UG/L	2000	< GSC
CADMIUM	4.9	UG/L	5	< GSC
CALCIUM	283000	UG/L		
CHLOROFORM	0.6	UG/L	0.2	
CHROMIUM, TOTAL	111	UG/L	100	Trench
CIS-1,2-DICHLOROETHYLENE	9700	UG/L	70	
COBALT	68.8	UG/L	1000	< GSC
COPPER	80.5	UG/L	650	< GSC
IRON	84200	UG/L	5000	Not credible threat
LEAD	99.4	UG/L	7.5	Trench
MAGNESIUM	107000	UG/L		
MANGANESE	4180	UG/L	150	Not credible threat
MERCURY	1	UG/L	2	< GSC
NICKEL	142	UG/L	100	Trench
NITROGEN, AMMONIA (AS N)	0.31	MG/L		
NITROGEN, NITRATE-NITRITE	4.6	MG/L	10	< GSC
PERCHLORATE	1200	UG/L	25	
PHOSPHORUS, TOTAL (AS P)	0.14	UG/L		
POTASSIUM	8630	UG/L		
SELENIUM	6.2	UG/L	50	< GSC
SODIUM	286000	UG/L		
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	84.5	MG/L		
TETRACHLOROETHYLENE(PCE)	2800	UG/L	5	
THALLIUM	3.4	UG/L	2	
TOLUENE	1	UG/L	1000	< GSC
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	2080	MG/L		
TRANS-1,2-DICHLOROETHENE	180	UG/L	100	
TRICHLOROETHYLENE (TCE)	120000	UG/L	5	
VANADIUM	169	UG/L	49	Trench
VINYL CHLORIDE	53	UG/L	2	
ZINC	432	UG/L	5000	< GSC

Legend:
Maximum above screening value or retained for evaluation.
"< GSC" Maximum concentration is not greater than the groundwater screening value
"Trench" Inorganic exceedance only in trench samples
"Not credible threat" COPC concentrations do not pose credible threat
Nitrate was used to screen Nitrate+Nitrate

Table 5-260
Area 4 Groundwater Constituent Screening for Additional Investigation

Constituent	Groundwater Maximum	Units	USEPA MCL/IEPA CLASS I GW STD	Screening Comments
1,3,5-TRINITROBENZENE	2.5	UG/L	210	< GSC
ALUMINUM	1320	UG/L	3500	< GSC
BARIUM	65.3	UG/L	2000	< GSC
CALCIUM	141000	UG/L		
IRON	805	UG/L	5000	< GSC
MAGNESIUM	58100	UG/L		
MANGANESE	811	UG/L	150	Not credible threat
NICKEL	1.8	UG/L	100	< GSC
POTASSIUM	1350	UG/L		
SODIUM	205000	UG/L		

Legend:
Maximum above screening value or retained for evaluation.
"< GSC" Maximum concentration is not greater than the groundwater screening value
"Trench" Inorganic exceedance only in trench samples
"Not credible threat" COPC concentrations do not pose credible threat

Table 5-261
Area 8 Groundwater Constituent Screening for Additional Investigation

Constituent	Groundwater Maximum	Units	USEPA MCL/IEPA CLASS I GW STD	Screening Comments
2-AMINO-4,6-DINITROTOLUENE	1.4	UG/L	5.6	< GSC
4-AMINO-2,6-DINITROTOLUENE	1.2	UG/L	5.6	< GSC
ALKALINITY, TOTAL (AS CACO3)	668	MG/L		
ALUMINUM	769	UG/L	3500	< GSC
BARIUM	73.4	UG/L	2000	< GSC
BORON	96.4	UG/L	2000	< GSC
CALCIUM	344000	UG/L		
CHLOROMETHANE	0.6	UG/L	28	< GSC
COPPER	1.4	UG/L	650	< GSC
IRON	879	UG/L	5000	< GSC
MAGNESIUM	165000	UG/L		
MANGANESE	259	UG/L	150	Not credible threat
NICKEL	2.1	UG/L	100	< GSC
POTASSIUM	1320	UG/L		
SELENIUM	12.7	UG/L	50	< GSC
SODIUM	190000	UG/L		
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	13	MG/L		
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	6530	MG/L		
VANADIUM	3.3	UG/L	49	< GSC

Legend:
Maximum above screening value or retained for evaluation.
"< GSC" Maximum concentration is not greater than the groundwater screening value
"Trench" Inorganic exceedance only in trench samples
"Not credible threat" COPC concentrations do not pose credible threat

Table 5-262
Area 9 Groundwater Constituent Screening for Additional Investigation

Constituent	Groundwater Maximum	Units	USEPA MCL/IEPA CLASS I GW STD	Screening Comments
1,4-DICHLOROBENZENE	1.4	UG/L	75	<GSC
BARIUM	11.3	UG/L	2000	<GSC
CALCIUM	243000	UG/L		
CHROMIUM, TOTAL	3.2	UG/L	100	<GSC
CIS-1,2-DICHLOROETHYLENE	3	UG/L	70	<GSC
MAGNESIUM	192000	UG/L		
MANGANESE	22	UG/L	150	<GSC
NICKEL	2.8	UG/L	100	<GSC
NITROGEN, NITRATE-NITRITE	0.058	MG/L	10	<GSC
SODIUM	572000	UG/L		
TRICHLOROETHYLENE (TCE)	11	UG/L	5	

Legend:
Maximum above screening value.
"< GSC" Maximum concentration is not greater than the groundwater screening value
"Trench" Inorganic exceedance only in trench samples
"Not credible threat" COPC concentrations do not pose credible threat
Nitrate was used to screen Nitrate+Nitrate

Table 5-263
Area 11 Groundwater Constituent Screening for Additional Investigation

Constituent	Groundwater Maximum	Units	USEPA MCL/IEPA CLASS I GW STD	Screening Comments
1-METHYLNAPHTHALENE	1.6	UG/L	28	< GSC
2,4,6-TRINITROTOLUENE	9.5	UG/L	14	< GSC
2,6-DINITROTOLUENE	1	UG/L	0.31	
2-AMINO-4,6-DINITROTOLUENE	0.93	UG/L	5.6	< GSC
2-METHYLNAPHTHALENE	7.9	UG/L	28	< GSC
4-AMINO-2,6-DINITROTOLUENE	17	UG/L	5.6	
ACENAPHTHYLENE	4.6	UG/L	210	< GSC
ALKALINITY, TOTAL (AS CACO3)	337	MG/L		
ALUMINUM	144000	UG/L	3500	
ANTIMONY	10	UG/L	6	Trench
ARSENIC	54.9	UG/L	50	Trench
BARIUM	1330	UG/L	2000	< GSC
BENZO(A)ANTHRACENE	1.9	UG/L	0.13	
BENZO(A)PYRENE	2	UG/L	0.2	
BENZO(B)FLUORANTHENE	2.6	UG/L	0.18	
BENZO(G,H,I)PERYLENE	1.3	UG/L	210	< GSC
BENZO(K)FLUORANTHENE	2.6	UG/L	0.17	
BIS(2-ETHYLHEXYL) PHTHALATE	1.2	UG/L	6	< GSC
BORON	283	UG/L	2000	< GSC
CADMIUM	1.7	UG/L	5	< GSC
CALCIUM	781000	UG/L		
CHROMIUM, TOTAL	131	UG/L	100	Trench
CHRYSENE	3.2	UG/L	1.5	
CIS-1,2-DICHLOROETHYLENE	10000	UG/L	70	
COPPER	122	UG/L	650	< GSC
FLUORANTHENE	2.4	UG/L	280	< GSC
INDENO(1,2,3-C,D)PYRENE	1.3	UG/L	0.43	
IRON	123000	UG/L	5000	Trench
LEAD	94.1	UG/L	7.5	Trench
MAGNESIUM	986000	UG/L		
MANGANESE	2570	UG/L	150	Not credible threat
MERCURY	0.52	UG/L	2	< GSC
NAPHTHALENE	59	UG/L	140	< GSC
NICKEL	128	UG/L	100	Trench
NITROGEN, AMMONIA (AS N)	5.3	MG/L		
NITROGEN, NITRATE-NITRITE	432	MG/L	10	
PHENANTHRENE	0.59	UG/L	210	< GSC
PHOSPHORUS, TOTAL (AS P)	0.21	MG/L		
POTASSIUM	11400	UG/L		
PYRENE	2.3	UG/L	210	< GSC
RDX	3	UG/L	84	< GSC
SELENIUM	29.5	UG/L	50	< GSC
SILVER	6.3	UG/L	50	< GSC
SODIUM	1220000	UG/L		
SULFATE (AS SO4)	6400000	UG/L	400000	
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	168	MG/L		
TETRACHLOROETHYLENE(PCE)	4	UG/L	5	< GSC
TETRYL	4.5	UG/L		
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	6170	MG/L		
TRICHLOROETHYLENE (TCE)	280000	UG/L	5	
VANADIUM	176	UG/L	49	Trench
ZINC	1210	UG/L	5000	< GSC

Legend:
Maximum above screening value or retained for evaluation.
"< GSC" Maximum concentration is not greater than the groundwater screening value
"Trench" Inorganic exceedance only in trench samples
"Not credible threat" COPC concentrations do not pose credible threat
Nitrate was used to screen Nitrate+Nitrate

Table 5-264
Area 12 Groundwater Constituent Screening for Additional Investigation

Constituent	Groundwater Maximum	Units	USEPA MCL/IEPA CLASS I GW STD	Screening Comments
1,2-DICHLOROETHANE	39	UG/L	5	
2,4,6-TRINITROTOLUENE	22	UG/L	14	
2-AMINO-4,6-DINITROTOLUENE	0.79	UG/L	5.6	< GSC
2-METHYLNAPHTHALENE	2.1	UG/L	28	< GSC
4-AMINO-2,6-DINITROTOLUENE	2.6	UG/L	5.6	< GSC
ALKALINITY, TOTAL (AS CACO3)	496	MG/L		< GSC
ALUMINUM	500000	UG/L	3500	
ANTIMONY	17.2	UG/L	6	Trench
ARSENIC	142	UG/L	50	
BARIUM	13300	UG/L	2000	Trench
BERYLLIUM	23.8	UG/L	4	
BIS(2-ETHYLHEXYL) PHTHALATE	1.1	UG/L	6	< GSC
BORON	896	UG/L	2000	< GSC
CADMIUM	20.5	UG/L	5	Trench
CALCIUM	275000	UG/L		
CARBON TETRACHLORIDE	1200	UG/L	5	
CHLOROFORM	630	UG/L	0.2	
CHLOROMETHANE	0.7	UG/L	28	< GSC
CHROMIUM, TOTAL	738	UG/L	100	
CHRYSENE	1.8	UG/L	1.5	
CIS-1,2-DICHLOROETHYLENE	130	UG/L	70	
COBALT	302	UG/L	1000	< GSC
COPPER	5150	UG/L	650	Trench
DIETHYL PHTHALATE	2	UG/L	5600	< GSC
DI-N-BUTYL PHTHALATE	1.1	UG/L	700	< GSC
FLUORANTHENE	2.1	UG/L	280	< GSC
HMX	54	UG/L		
IRON	417000	UG/L	5000	Not credible threat
LEAD	2880	UG/L	7.5	
MAGNESIUM	137000	UG/L		
MANGANESE	27400	UG/L	150	Not credible threat
MERCURY	36.9	UG/L	2	Trench
METHYL ETHYL KETONE (2-BUTANONE)	4	UG/L	4200	
METHYLENE CHLORIDE	220	UG/L	5	
NICKEL	515	UG/L	100	
NITROBENZENE	1	UG/L	3.5	< GSC
NITROGEN, AMMONIA (AS N)	0.38	MG/L		
NITROGEN, NITRATE-NITRITE	69.2	MG/L	10	
PHENANTHRENE	1.2	UG/L	210	< GSC
PHOSPHORUS, TOTAL (AS P)	2.9	MG/L		
PHOSPHORUS, TOTAL ORTHOPHOSPHATE (AS P)	5.6	MG/L		
POTASSIUM	30600	UG/L		
PYRENE	1.5	UG/L	210	< GSC
RDX	890	UG/L	84	
SELENIUM	29.4	UG/L	50	< GSC
SILVER	23.4	UG/L	50	< GSC
SODIUM	338000	UG/L		
SULFATE (AS SO4)	750000	UG/L	400000	
SUSPENDED SOLIDS (RESIDUE, NON-FILTERABLE)	770	MG/L		
TETRACHLOROETHYLENE(PCE)	54	UG/L	5	
THALLIUM	3.2	UG/L	2	Trench
TOTAL DISSOLVED SOLIDS (RESIDUE, FILTERABLE)	1590	MG/L		
TRANS-1,2-DICHLOROETHENE	1	UG/L	100	< GSC
TRICHLOROETHYLENE (TCE)	6	UG/L	5	
VANADIUM	562	UG/L	49	
ZINC	58500	UG/L	5000	Trench

Legend:
Maximum above screening value or retained for evaluation.
"< GSC" Maximum concentration is not greater than the groundwater screening value
"Trench" Inorganic exceedance only in trench samples
"Not credible threat" COPC concentrations do not pose credible threat
Nitrate was used to screen Nitrate+Nitrate

Table 5-265
COC Areas Groundwater Constituent Screening for Additional Investigation

Constituent	Groundwater Maximum	Units	USEPA MCL/IEPA CLASS I GW STD	Screening Comments
2,6-DINITROTOLUENE	6.5	UG/L	0.31	
ALUMINUM	141	UG/L	3500	< GSC
ANTIMONY	6	UG/L	6	< GSC
BARIUM	31.2	UG/L	2000	Trench
BERYLLIUM	47.3	UG/L	4	Trench
BIS(2-ETHYLHEXYL) PHTHALATE	3.9	UG/L	6	< GSC
BORON	250	UG/L	2000	< GSC
CADMIUM	1	UG/L	5	< GSC
CALCIUM	179000	UG/L		
CIS-1,2-DICHLOROETHYLENE	1	UG/L	70	< GSC
COBALT	518	UG/L	1000	< GSC
COPPER	1290	UG/L	650	Trench
HMX	0.71	UG/L		
IRON	155	UG/L	5000	
MAGNESIUM	286000	UG/L		
MANGANESE	49900	UG/L	150	Trench
NICKEL	10	UG/L	100	
POTASSIUM	61200	UG/L		
SILVER	11.7	UG/L	50	< GSC
SODIUM	74100	UG/L		
THALLIUM	10.6	UG/L	2	Trench
VANADIUM	1910	UG/L	49	Trench
ZINC	4160	UG/L	5000	< GSC

Legend:
Maximum above screening value or retained for evaluation.
"< GSC" Maximum concentration is not greater than the groundwater screening value
"Trench" Inorganic exceedance only in trench samples
"Not credible threat" COPC concentrations do not pose credible threat

Table 5-266
Other Areas Groundwater Constituent Screening for Additional Investigation

Constituent	Groundwater Maximum	Units	USEPA MCL/IEPA CLASS I GW STD	Screening Comments
ALUMINUM	141	UG/L	3500	< GSC
BARIUM	31.2	UG/L	2000	< GSC
BORON	97.6	UG/L	2000	< GSC
CALCIUM	540000	UG/L		
CARBON DISULFIDE	3	UG/L	700	< GSC
IRON	155	UG/L	5000	< GSC
MAGNESIUM	304000	UG/L		
MANGANESE	1410	UG/L	150	Not credible threat
NICKEL	10	UG/L	100	< GSC
POTASSIUM	5020	UG/L		
SODIUM	151000	UG/L		
TRICHLOROETHYLENE (TCE)	0.6	UG/L	5	< GSC

Legend:
Maximum above screening value or retained for evaluation.
"< GSC" Maximum concentration is not greater than the groundwater screening value
"Trench" Inorganic exceedance only in trench samples
"Not credible threat" COPC concentrations do not pose credible threat

Table 5 - 5-267
Method for Addressing Groundwater Samples with Exceedances of Screening Criteria

Area	Well_ID	Sample ID	Exceeding Analyte	Concentration	Units	Exceedance Flag	IEPA Class I GW STD	IEPA Class II GW STD	Proposed Method to Address Exceedance/Comments
AUS-0A2B	0A2B-W01	AUS-0A2B-W01-GW-00				None			
	0A2B-W02	AUS-0A2B-W02-GW-00	Cis-1,2-Dichloroethylene	120	ug/l	C1	70	200	Install temporary wells 0A2B-W12 through 0A2B-W17 to aid in delineation of horizontal extent of VOCs in groundwater.
			Tetrachloroethylene (PCE)	15	ug/l	C1	5	25	
			Trichloroethylene (TCE)	47	ug/l	C1C2	5	25	
	0A2B-W03	AUS-0A2B-W03-GW-00	Manganese	458	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
AUS-0A2D	0A2D-W01	AUS-0A2D-W01-GW-00	1,1,2-Trichloroethane	28	ug/l	C1	5	50	Install temporary wells 0A2D-MW17 through 0A2D-MW21 to aid in delineation of horizontal extent of VOCs in groundwater.
			1,1-Dichloroethene	9	ug/l	C1	7	35	
			Bis (2-ethylhexyl) Phthalate	9.4	ug/l	C1	6	60	
			Cis-1,2-Dichloroethylene	9700	ug/l	C1C2	70	200	
			Trans-1,2-Dichloroethene	180	ug/l	C1	100	500	
			Trichloroethylene (TCE)	54000	ug/l	C1C2	5	25	
			Vinyl Chloride	53	ug/l	C1C2	2	10	
	0A2D-W02	AUS-0A2D-W02-GW-00				None			
	0A2D-W03	AUS-0A2D-W03-GW-00	Cis-1,2-Dichloroethylene	400	ug/l	C1C2	70	200	Install temporary monitoring wells 0A2D-MW23 through 0A2D-MW26 and monitoring well 0A2D-W07 to aid in delineation of horizontal extent of VOCs in groundwater. Aluminum exceedacne will be addressed in Phase II.
			Aluminum	4520	ug/l	C1	3500	5000	
			Manganese	164	ug/l	C1	150	10000	
			Tetrachloroethylene (PCE)	2800	ug/l	C1C2	5	25	
			Trichloroethylene (TCE)	4200	ug/l	C1C2	5	25	
			Vinyl Chloride	11	ug/l	C1C2	2	10	
	0A2D-W04	AUS-0A2D-W04-GW-00	Chloroform	0.5	ug/l	C1	0.2	1	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary. Aluminum exceedance will be addressed in Phase II.
			Aluminum	9130	ug/l	C1	3500	5000	
			Iron	10700	ug/l	C1C2	5000	5000	
			Manganese	948	ug/l	C1	150	10000	
			Thallium	3.4	ug/l	C1	2	20	
	0A2D-W05	AUS-0A2D-W05-GW-00	Aluminum	4300	ug/l	C1	3500	5000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary. Aluminum exceedance will be addressed in Phase II.
			Manganese	258	ug/l	C1	150	10000	
	0A2D-W06	AUS-0A2D-W06-GW-00	Manganese	246	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
AUS-0A2F	0A2F-W01	AUS-0A2F-W01-GW-00	Trichloroethylene (TCE)	5	ug/l	C1	5	25	Will be addressed after well has been resampled, IEPA aquifer classification has been determined, and results of proposed geoprobe sampling for VOC exceedances at 0A2F-002 are received.
	0A2F-W02	AUS-0A2F-W02-GW-00	Cis-1,2-Dichloroethylene	210	ug/l	C1C2	70	200	Install temporary monitoring wells 0A2F-MW06 through 0A2P-MW13 to aid in delineation of horizontal extent of VOCs in groundwater.
			Trichloroethylene (TCE)	2400	ug/l	C1C2	5	25	
	0A2F-W03	AUS-0A2F-W03-GW-00				None			
AUS-0A2P	0A2P-W01	AUS-0A2P-W01-GW-00				None			
	0A2P-W02	AUS-0A2P-W02-GW-00	Trichloroethylene (TCE)	6	ug/l	C1	5	25	Install temporary monitoring wells 0A2P-MW08 through 0A2P-MW17 to aid in delineation of horizontal extent of VOCs in groundwater.
	0A2P-W03	AUS-0A2P-W03-GW-00	1,1,2-Trichloroethane	14	ug/l	C1	5	50	Install temporary monitoring wells 0A2P-MW08 through 0A2P-MW17 to aid in delineation of horizontal extent of VOCs in groundwater.
			Chloroform	0.6	ug/l	C1	0.2	1	
			Tetrachloroethylene (PCE)	230	ug/l	C1C2	5	25	
			Trichloroethylene (TCE)	120000	ug/l	C1C2	5	25	
	0A2P-W04	AUS-0A2P-W04-GW-00	Perchlorate	1200	ug/l	C1C2	25	25	Resample monitoring wells for perchlorate.
	0A2P-W05	AUS-0A2P-W05-GW-00				None			
	0A2P-W06	AUS-0A2P-W06-GW-00				None			
AUS-0A2R	0A2R-001	AUS-0A2R-001-GW-00				None			Water sample collected from trench. Only exceeded groundwater critieria for inorganic constituents.
AUS-0A4E	0A4E-W01	AUS-0A4E-W01-GW-00	Manganese	811	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
	0A4E-W02	AUS-0A4E-W02-GW-00				None			
	0A4E-W03	AUS-0A4E-W03-GW-00	Manganese	585	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.

Table 5 - 5-267
Method for Addressing Groundwater Samples with Exceedances of Screening Criteria

Area	Well_ID	Sample ID	Exceeding Analyte	Concentration	Units	Exceedance Flag	IEPA Class I GW STD	IEPA Class II GW STD	Proposed Method to Address Exceedance/Comments
AUS-0A8S	0A8S-W01	AUS-0A8S-W01-GW-00				None			
	0A8S-W02	AUS-0A8S-W02-GW-00				None			
	0A8S-W03	AUS-0A8S-W03-GW-00	Manganese	227	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
	0A8S-W04	AUS-0A8S-W04-GW-00				None			Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
	0A8S-W05	AUS-0A8S-W05-GW-00	Manganese	259	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
	0A8S-W06	AUS-0A8S-W06-GW-00	Manganese	161	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
AUS-0A09	0A09-W01	AUS-0A09-W01-GW-00	Trichloroethylene (TCE)	11	ug/l	C1	5	25	Proposed temporary monitoring wells 0A09-W05 and 0A09-W06 to aid in delineating VOC exceedance and determining the relationship with the PCB OU VOC groundwater plume.
AUS-A11A	A11A-W01	AUS-A11A-W01-GW-00	Manganese	211	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
			Sulfate (as SO4)	6400000	ug/l	C1C2	400000	400000	
	A11A-W02	AUS-A11A-W02-GW-00	Manganese	159	ug/l	C1	150	10000	Concentrations of Sulfate (as S04) and Nitrogen, Nitrate-Nitrite exceed both the IEPA Class I and II aquifer standards. These monitoring wells are proposed to be resampled to verify that the groundwater in this area contains these constituents at concentrations that exceed the appropriate groundwater standards. If the reverification samples confirm that these constituent exceed the appropriate groundwater standards, the exceedances will be further addressed. Additionally, the Manganese exceedance will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
			Nitrogen,Nitrate-Nitrite	140	mg/l	C1C2	10	100	
			Sulfate (as SO4)	490000	ug/l	C1C2	400000	400000	
AUS-A11H	A11H-021	AUS-A11H-021-GW-00				None			Water sample collected from trench. Only exceeded groundwater critieria for inorganic constituents.
	A11H-061	AUS-A11H-061-GW-00	Benzo(a)anthracene	1.9	ug/l	C1C2	0.13	0.65	Water sample collected from trench. Also exceeded groundwater critieria for inorganic constituents. Install monitoring well A11H-W08.
			Benzo(a)pyrene	2	ug/l	C1	0.2	2	
			Benzo(b)fluoranthene	2.6	ug/l	C1C2	0.18	0.9	
			Benzo(k)fluoranthene	2.6	ug/l	C1C2	0.17	0.85	
			Chrysene	3.2	ug/l	C1	1.5	7.5	
			Indeno(1,2,3-c,d)pyrene	1.3	ug/l	C1	0.43	2.15	
	A11H-W01	AUS-A11H-W01-GW-00	Manganese	243	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
			Nitrogen,Nitrate-Nitrite	432	ug/l	C1C2	10	100	
AUS-A11P	A11P-W01	AUS-A11P-W01-GW-00	Iron	5490	ug/l	C1C2	5000	5000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary. Aluminum exceedance will be addressed in Phase II.
			Aluminum	5730	ug/l	C1	3500	5000	
			Manganese	157	ug/l	C1	150	10000	
AUS-A11S	A11S-W01	AUS-A11S-W01-GW-00	Manganese	195	ug/l	C1	150	10000	Install temporary monitoring wells A11S-W21through A11S-W24 to aid in delineation of horizontal extent of VOCs in groundwater. Manganese and Sulfate (as SO4) exceedances will also be addressed after the well has been resampled and IEPA aquifer classification has been determined.
			Sulfate (as SO4)	720000	ug/l	C1C2	400000	400000	
			Trichloroethylene (TCE)	6	ug/l	C1	5	25	
	A11S-W02	AUS-A11S-W02-GW-00	2,6-Dinitrotoluene	1	ug/l	C1C2	0.31	0.31	Install temporary monitoring wells A11S-W12 through A11S-W20 to aid in delineation of horizontal extent of VOCs in groundwater. Manganese, 4-Amino 2,6-Dinitrotolune, and 2,6-Dinitrotoluene exceedance will also be addressed after the well has been resampled and IEPA aquifer classification has been determined.
			4-Amino-2,6-Dinitrotoluene	17	ug/l	C1C2	5.6	5.6	
			Cis-1,2-Dichloroethylene	10000	ug/l	C1C2	70	200	
			Manganese	1580	ug/l	C1	150	10000	
			Trichloroethylene (TCE)	280000	ug/l	C1C2	5	25	
	A11S-W03	AUS-A11S-W03-GW-00	Manganese	208	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
	A11S-W04	AUS-A11S-W04-GW-00	Cis-1,2-Dichloroethylene	78	ug/l	C1	70	200	Install temporary monitoring wells A11S-W12 through A11S-W20 to aid in delineation of horizontal extent of VOCs in groundwater. Manganese exceedance will also be addressed after the well has been resampled and IEPA aquifer classification has been determined.
			Manganese	1490	ug/l	C1	150	10000	
			Trichloroethylene (TCE)	520	ug/l	C1C2	5	25	

Table 5 - 5-267
Method for Addressing Groundwater Samples with Exceedances of Screening Criteria

Area	Well_ID	Sample ID	Exceeding Analyte	Concentration	Units	Exceedance Flag	IEPA Class I GW STD	IEPA Class II GW STD	Proposed Method to Address Exceedance/Comments
AUS-0A12	0A12-008	AUS-0A12-008-GW-00	Chloroform	28	ug/l	C1C2	0.2	1	Install monitoring well AUS-0A12-W04 to confirm detected VOCs and Chrysene in the trench sample at this location. Water sample collected from trench. Also exceeded groundwater critieria for inorganic constituents.
			Chrysene	1.8	ug/l	C1	1.5	7.5	
			Cis-1,2-Dichloroethylene	130	ug/l	C1	70	200	
			Tetrachloroethylene (PCE)	54	ug/l	C1C2	5	25	
			Trichloroethylene (TCE)	6	ug/l	C1	5	25	
	0A12-010	AUS-0A12-010-GW-00				None			
	0A12-013	AUS-0A12-013-GW-00	RDX	190	ug/l	C1	84	84	Water sample collected from trench. RDX exceedance will be addressed in Phase II.
	0A12-015	AUS-0A12-015-GW-00	RDX	890	ug/l	C1	84	84	Water sample collected from trench. RDX exceedance will be addressed in Phase II.
	0A12-018	AUS-0A12-018-GW-00				None			Water sample collected from trench. Only exceeded groundwater critieria for inorganic constituents.
	0A12-035	AUS-0A12-035-GW-00	2,4,6-Trinitrotoluene	22	ug/l	C1	14	14	Water sample collected from trench. 2,4,6-Trinitrotoluene exceedance will be addressed in Phase II..
	0A12-093	AUS-0A12-093-GW-00	Tetrachloroethylene (PCE)	7	ug/l	C1	5	25	Will be addresssed after well has been resampled and IEPA aquifer classification has been determined.
	0A12-100	AUS-0A12-100-GW-00	1,2-Dichloroethane	39	ug/l	C1C2	5	25	Install monitoring well AUS-0A12-W08 to confirm detected VOCs in the trench sample at this location. Water sample collected from trench. Also exceeded groundwater critieria for inorganic constituents.
			Carbon Tetrachloride	1200	ug/l	C1C2	5	25	
			Chloroform	630	ug/l	C1C2	0.2	1	
			Methylene Chloride	220	ug/l	C1C2	5	50	
	0A12-MW-COP4-2	AUS-0A12-MW-COP4-2-GW				None			
	0A12-MW-COP4-4	AUS-0A12-MW-COP4-4-GW	Manganese	166	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
			Nitrogen,Nitrate-Nitrite	69.2	ug/l	C1	10	100	
			Sulfate (as SO4)	750000	ug/l	C1C2	400000	400000	
	0A12-W01	AUS-0A12-W01-GW-00	Arsenic	76.2	ug/l	C1	50	200	Metal concentrations are signficantly higher than in other groundwater samples. Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.
			Aluminum	132000	ug/l	C1	3500	5000	
			Beryllium	12.8	ug/l	C1	4	500	
			Chromium, Total	215	ug/l	C1	100	1000	
			Iron	298000	ug/l	C1	5000	5000	
			Lead	119	ug/l	C1C2	7.5	100	
			Manganese	7310	ug/l	C1	150	10000	
			Nickel	290	ug/l	C1	100	2000	
			Vanadium	270	ug/l	C1C2	49	100	
	0A12-W02	AUS-0A12-W02-GW-00				None			
0067	0067-002	AUS-0067-002-GW-00	2,6-Dinitrotoluene	6.5	ug/l	C1C2	0.31	0.31	Sample colleced from cistern. Install monitoring well AUS-0067-W01 to address exceedances in this sample.
0069	0069-012	AUS-0069-012-GW-00				None			Water sample collected from trench. Only exceeded groundwater critieria for inorganic constituents.
	0069-013	AUS-0069-013-GW-00				None			Water sample collected from trench. Only exceeded groundwater critieria for inorganic constituents.
0001	0001-W01	AUS-0001-W01-GW-00	Manganese	1410	ug/l	C1	150	10000	Will be addressed after well has been resampled and IEPA aquifer classification has been determined, if necessary.

Table 5-268: Soil Samples Collected Below 2 Feet of the Ground Surface with Exceedances to be Addressed in Phase II

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
AUS-0A2F	0A2F-013	AUS-0A2F-013-SD-03	3 ft	Aluminum	15800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium, Total	18.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	
				Iron	21300	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
AUS-0A2R	0A2R-001	AUS-0A2R-001-SS-05	5 ft	Cadmium	0.71	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
				Chromium, Total	15.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Nickel	30.7	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
		AUS-0A2R-001-SS-10	10 ft	Cadmium	0.62	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
				Cobalt	29.5	mg/kg	E	9.3E+00	2.0E+01	1.9E+03		
				Iron	21400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
AUS-0A4E	0A4E-017	AUS-0A4E-017-SS-06	6 ft	Xylenes	830	ug/kg	E		6.0E+02	9.0E+04	2.1E+05	1.5E+05
	0A4E-W03	AUS-0A4E-W03-SS-18	18 ft	Aluminum	9340	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium, Total	19.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
	0A4E-W03	AUS-0A4E-W03-SS-24	24 ft	Chromium, Total	14.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	19900	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
AUS-0A4W	0A4W-001	AUS-0A4W-001-SS-05	5 ft	Chromium, Total	14.9	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
AUS-0A07	0A07-030	AUS-0A07-030-SS-06	6 ft	Aluminum	9120	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium, Total	19	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	19600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
AUS-0A10	0A10-001	AUS-0A10-001-SS-06	6 ft	Chromium	14.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
	0A10-002	AUS-0A10-002-SS-07	7 ft	Aluminum	9210	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium, Total	16.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
AUS-A11A	A11A-020	AUS-A11A-020-SS-05	5 ft	Aluminum	11800	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium, Total	38.8	mg/kg	EW1	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Zinc	153	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03
	A11A-W01	AUS-A11A-W01-SS-05	5 ft	Aluminum	10500	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
		AUS-A11A-W01-SS-20	20 ft	Chromium, Total	15.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	23500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		

Table 5-268: Soil Samples Collected Below 2 Feet of the Ground Surface with Exceedances to be Addressed in Phase II

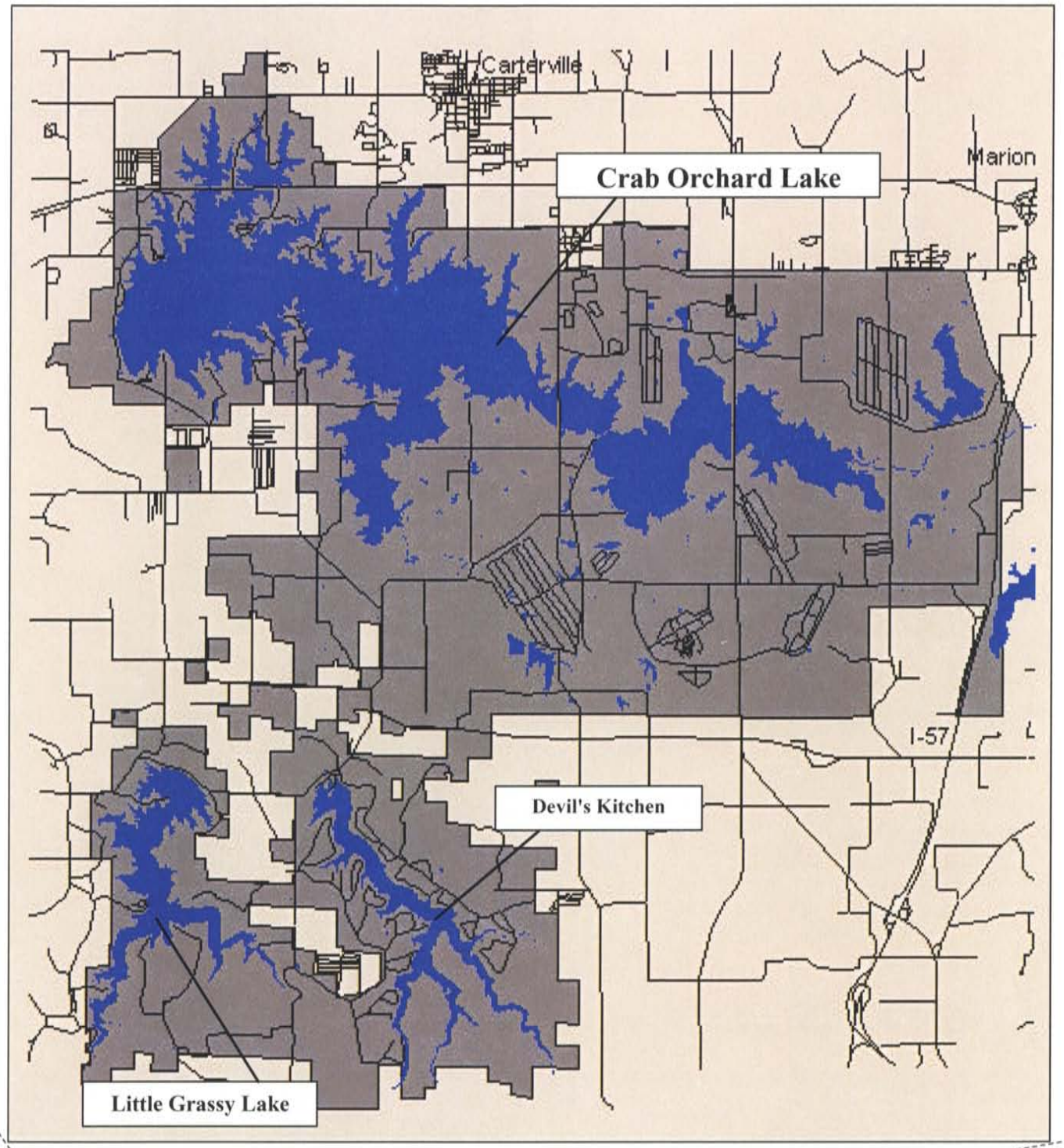
Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
AUS-A11H	A11H-021	AUS-A11H-021-SS-05	5 ft	Aluminum	9310	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Arsenic	14.6	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
				Iron	25100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
		AUS-A11H-021-SS-07	7 ft	Aluminum	9460	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Arsenic	13.8	mg/kg	EH	1.3E+01	9.0E+00	1.6E+00	2.9E+01	2.9E+01
				Chromium, Total	15.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	35000	mg/kg	EH	2.0E+04	2.0E+02	3.1E+04		
	A11H-032	AUS-A11H-032-SS-05	5 ft	Aluminum	9480	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Iron	21800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
	A11H-039	AUS-A11H-039-SS-05	5 ft	Aluminum	12100	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium, Total	18.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Cobalt	20.1	mg/kg	E	9.3E+00	2.0E+01	1.9E+03		
				Iron	26700	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
				Manganese	3030	mg/kg	EH	2.4E+03	1.0E+02	1.9E+03		
	A11H-047	AUS-A11H-047-SS-05	5 ft	Aluminum	15900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium, Total	22.2	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	25100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
AUS-A11N	A11N-007	AUS-A11N-007-SS-08	8 ft	Aluminum	9440	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Cadmium	0.57	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
				Iron	20000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
	A11N-016	AUS-A11N-016-SS-05	5 ft	Cadmium	0.62	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
	A11N-017	AUS-A11N-017-SS-03	3 ft	Cadmium	0.43	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	
	A11N-020	AUS-A11N-020-SS-05	5 ft	Cadmium	0.37	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
				Chromium	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
	A11N-026	AUS-A11N-026-SS-03	3 ft	Cadmium	0.55	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
				Chromium	16.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Copper	41.5	mg/kg	E	9.4E+00	3.1E+01	4.1E+03		5.9E+04
AUS-A11P	A11P-002	AUS-A11P-002-SS-05	5 ft	Aluminum	18000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium	24.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	29000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
	A11P-035	AUS-A11P-035-SS-04	4 ft	Aluminum	12300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium	15.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
	A11P-W01	AUS-A11P-W01-SS-13	13 ft	Iron	20000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		

Table 5-268: Soil Samples Collected Below 2 Feet of the Ground Surface with Exceedances to be Addressed in Phase II

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
AUS-A11S	A11S-W01	AUS-A11S-W01-SS-20	20 ft	Aluminum	9640	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Boron	5.2	mg/kg	E	4.6E+00	5.0E-01	1.8E+04		
				Chromium	14.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Cobalt	38.2	mg/kg	E	9.3E+00	2.0E+01	1.9E+03		
				Nickel	32.4	mg/kg	E	1.3E+01	3.0E+01	2.0E+03	1.3E+02	1.0E+02
				Iron	27800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
	A11S-W02	AUS-A11S-W02-SS-05	5 ft	1,1,2-Trichloroeth	53	ug/kg	W1W2		2.9E+04	1.6E+03	2.0E+01	2.0E+01
				Cis-1,2-dichloroet	1100	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02
				Total 1,2-Dichlord	1100	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02
				Trichloroethylene	21000	ug/kg	EHW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01
		AUS-A11S-W02-SS-18	18 ft	Cis-1,2-dichloroet	1300	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02
				Iron	20800	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
				Total 1,2-Dichlord	1300	ug/kg	EW1W2		7.9E+02	1.5E+04	4.0E+02	4.0E+02
				Trichloroethylene	20000	ug/kg	EHW1W2		9.0E+03	1.1E+02	6.0E+01	6.0E+01
	A11S-W04	AUS-A11S-W04-SS-16	16 ft	Iron	21200	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
AUS-0A12	0A12-015	AUS-0A12-015-SS-05	5 ft	Aluminum	14000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium	16.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	21600	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
				Thallium	1.8	mg/kg	E	5.1E-01	1.0E+00	6.7E+00		2.6E+00
	0A12-029	AUS-0A12-029-SS-05	5 ft	Aluminum	9270	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium	15	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	21400	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
		AUS-0A12-029-SS-12	12 ft	Iron	27000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
	0A12-034	AUS-0A12-034-SS-05	5 ft	Aluminum	22900	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium	25.3	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	24100	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
	0A12-035	AUS-0A12-035-SS-05	5 ft	Aluminum	9650	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
		AUS-0A12-035-SS-13	13 ft	Chromium	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	30000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
	0A12-059	AUS-0A12-059-SS-05	5 ft	Cadmium	0.91	mg/kg	E	3.5E-01	2.7E-01	4.5E+01	8.0E+00	5.2E+00
				Zinc	187	mg/kg	E	4.1E+01	1.2E+02	3.1E+04	1.2E+04	5.1E+03
	0A12-064	AUS-0A12-064-SS-05	5 ft	Aluminum	9560	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium	14.4	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
	0A12-071	AUS-0A12-071-SS-12	12 ft	Chromium	16	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	21000	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
	0A12-099	AUS-0A12-099-SS-05	5 ft	Chromium	13.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
	0A12-100	AUS-0A12-100-SS-14	14 ft	Carbon Tetrachlo	360	ug/kg	W1W2		1.0E+06	5.5E+02	7.0E+01	7.0E+01
				Methylene Chlorid	34	ug/kg	W1W2		4.1E+03	2.1E+04	2.0E+01	2.0E+01
				Selenium	3.4	mg/kg	E	3.2E+00	1.0E+00	5.1E+02	5.0E+00	6.3E+00
	0A12-W01	AUS-0A12-W01-SS-17	17 ft	Chromium	14.6	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01

Table 5-268: Soil Samples Collected Below 2 Feet of the Ground Surface with Exceedances to be Addressed in Phase II

Area	Loc_ID	URS_ID	Sample Depth	Exceeding Analyte	Concentration	Units	Exceedance Flag	Soil Bkg	ESV Std	HH Std	EPA STG (DAF=20)	IEPA Class I
AUS-0062	0062-001	AUS-0062-001-SS-04	4 ft	Aluminum	12300	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium	19.5	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
	0062-008	AUS-0062-008-SD-04	4 ft	Aluminum	28000	mg/kg	E	9.1E+03	5.0E+01	9.2E+04		
				Chromium	29.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
				Iron	24500	mg/kg	E	2.0E+04	2.0E+02	3.1E+04		
AUS-0065	0065-004	AUS-0065-004-SS-04	4 ft	Chromium, Total	14.8	mg/kg	E	1.4E+01	5.0E+00	4.2E+02	3.8E+01	4.0E+01
	0065-008	AUS-0065-008-SS-03	3 ft	Boron	5	mg/kg	E	4.6E+00	5.0E-01	1.8E+04		
				cPAHs	401.786	ug/kg	H			2.1E+02		
	0065-009	AUS-0065-009-SS-03	3 ft	Aluminum	9160	mg/kg	E		1.0E+01	1.2E+06	9.0E+03	9.0E+03
				cPAHs	328.198	ug/kg	H			2.1E+02		
				Boron	5.3	mg/kg	E	4.6E+00	5.0E-01	1.8E+04		



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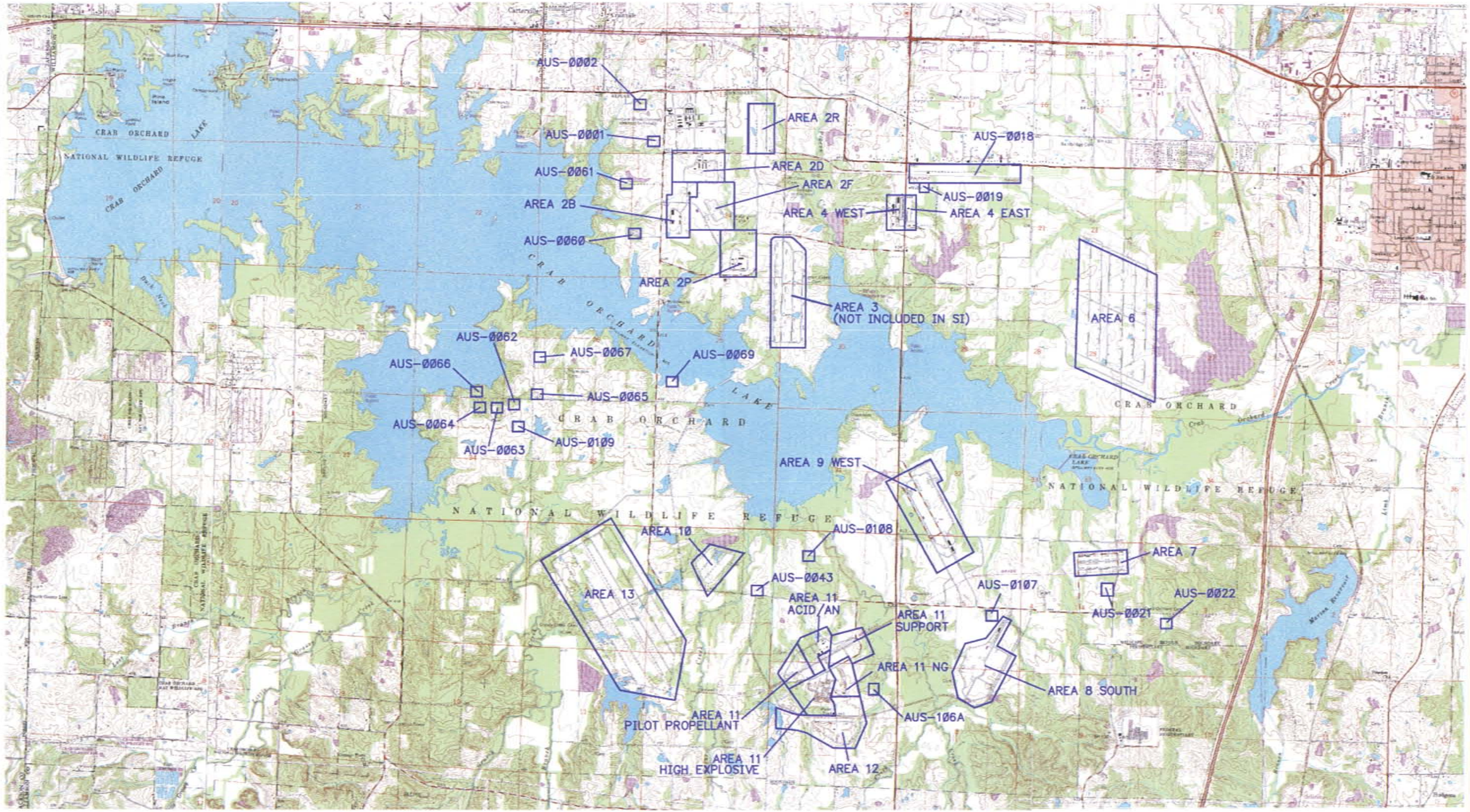
RI/FS WORKPLAN - AUS OU
CRAB ORCHARD NWR, MARION, ILLINOIS

FIGURE 1-1
CRAB ORCHARD NATIONAL WILDLIFE REFUGE

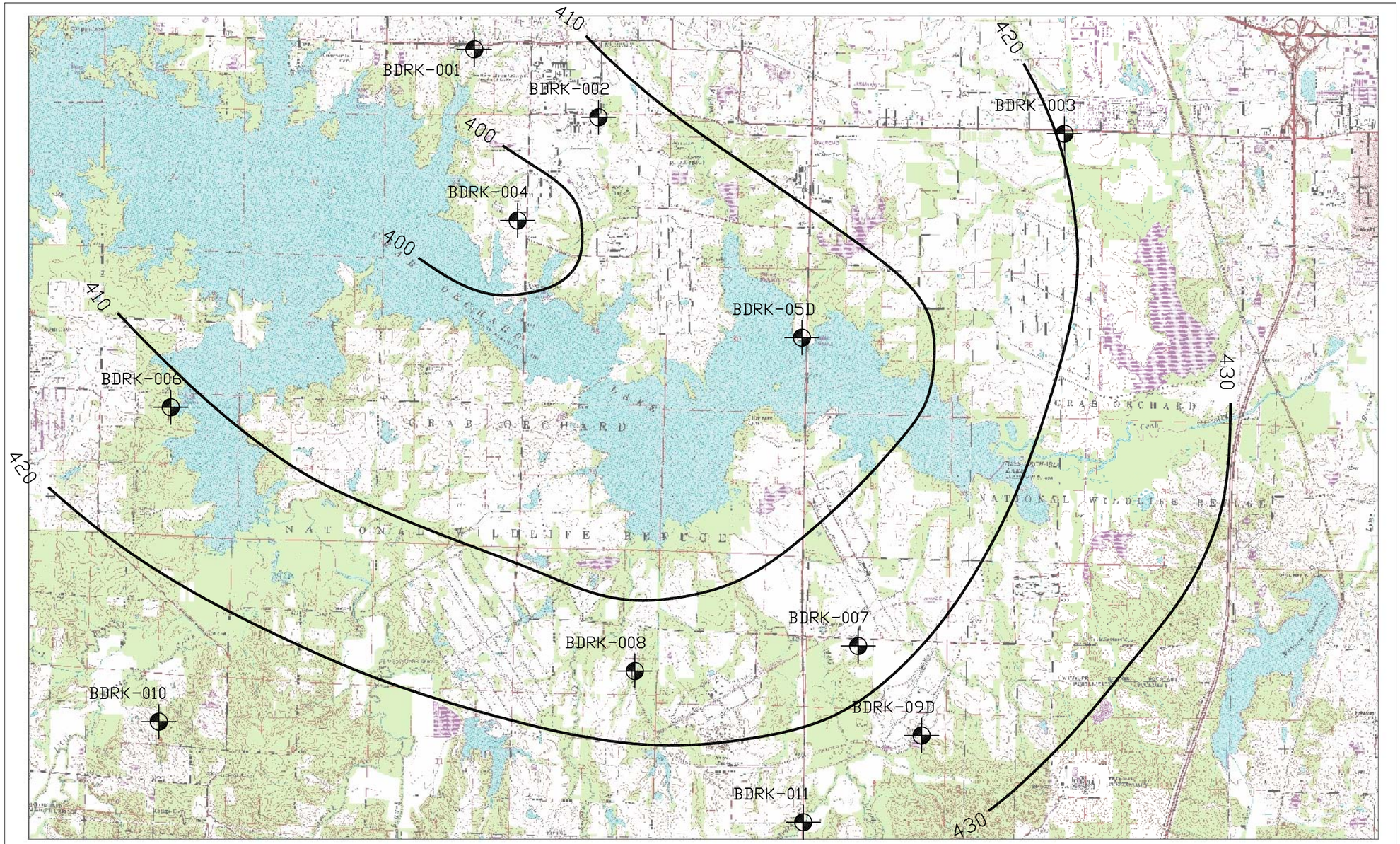
Source: Draft-Final PA/SI Report (FWS, 2001)



Source: Draft-Final PA/SI Report (FWS, 2001)

RI/FS WORKPLAN - AUS OU
CRAB ORCHARD NWR, MARION, ILLINOIS

FIGURE 1-2
AUS OU Areas



LEGEND

BORING LOCATION

GROUNDWATER ELEVATION
(MEASURED IN SEPTEMBER 2000)

SOURCE: URS CORPORATION, FIGURE 2-4, FINAL PA/SI REPORT (FWS, 2003)

PROJECT:
CRAB ORCHARD NWR
MARION, ILLINOIS

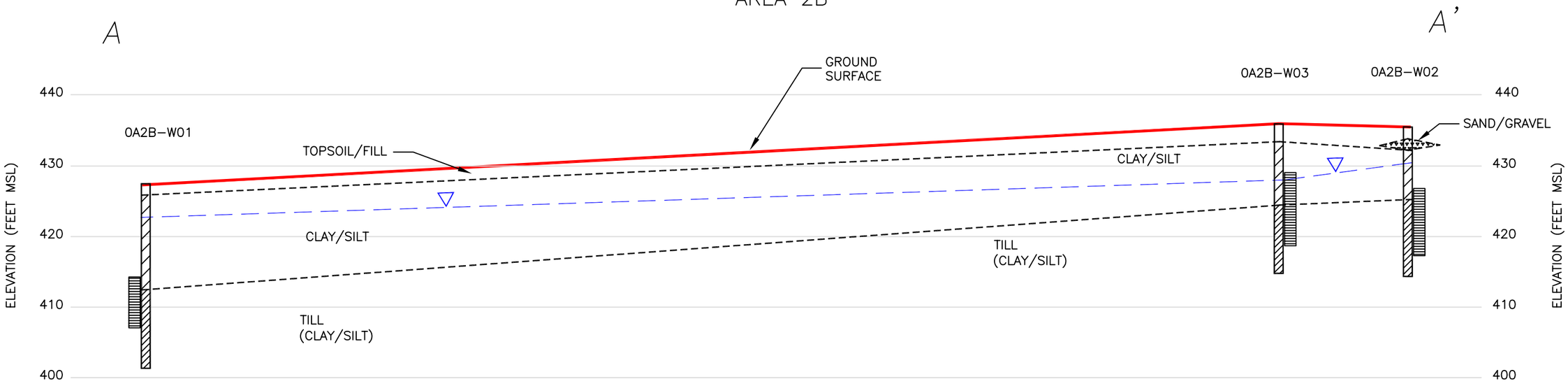
TITLE: RI/FS WORKPLAN

GROUNDWATER ELEVATIONS
UPPER BEDROCK

DRAWN BY: DDZ	SCALE: AS SHOWN	PROJ. NO. 0233-001-200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2-1
APPROVED BY: DPT		

NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404-347-9050

AREA 2B

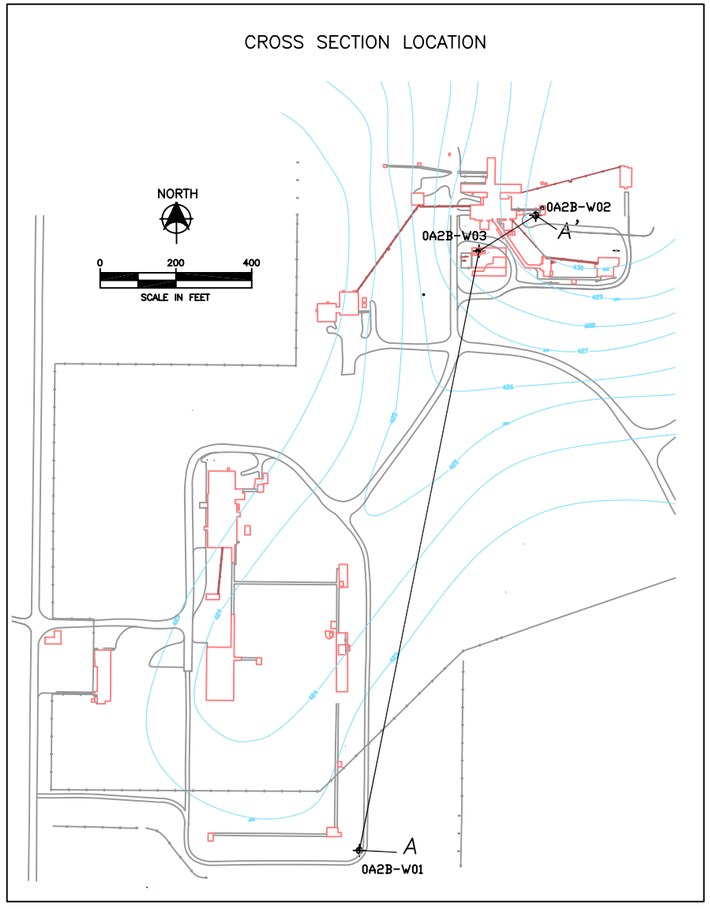


HORIZONTAL SCALE

0 150 300

1" = 150'

(APPROXIMATE)



LEGEND:

- CLAY/SILT
- CLAY/SILT (TILL)
- SAND & GRAVEL
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

0A2B–W01	2.32E–05
0A2B–W02	2.35E–06
0A2B–W03	1.83E–05

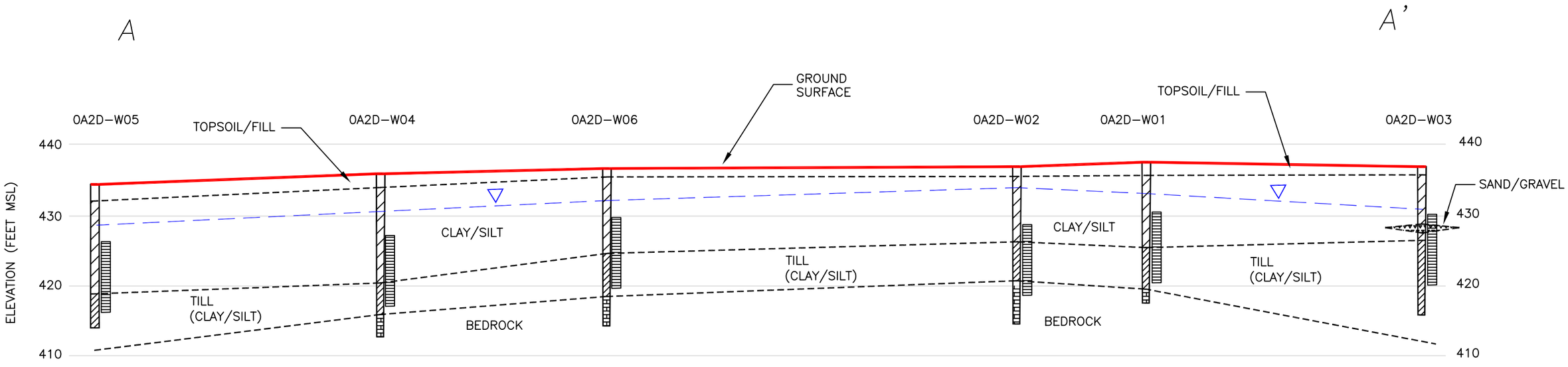
PROJECT: CRAB ORCHARD NWR
MARION, ILLINOIS

TITLE: RI/FS WORKPLAN
AREA 2B
HYDROGEOLOGIC CROSS SECTION A–A'

DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233–001–200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2–2
APPROVED BY: DPT		

NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404–347–9050

AREA 2D

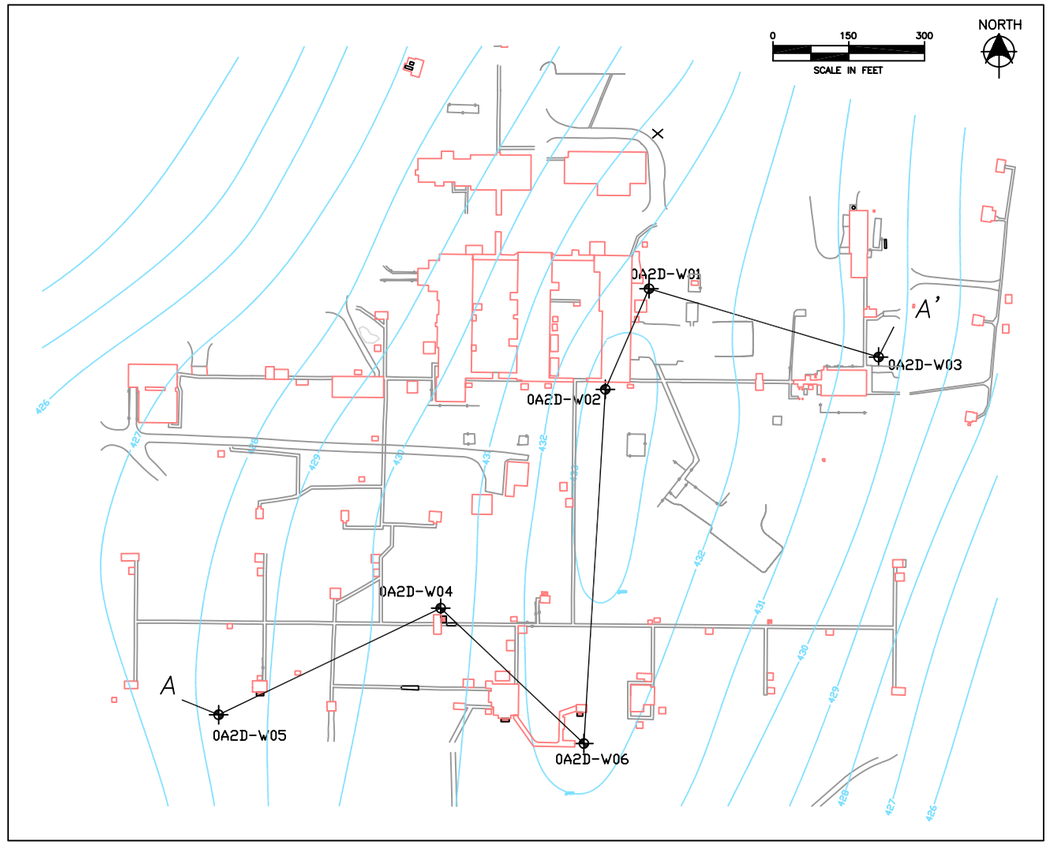


HORIZONTAL SCALE

0 150 300

1" = 150'
(APPROXIMATE)

CROSS SECTION LOCATION



LEGEND:

- CLAY/SILT
- CLAY/SILT (TILL)
- SAND & GRAVEL
- BEDROCK
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

0A2D-W01	2.51E-07
0A2D-W02	2.09E-05
0A2D-W03	1.74E-05
0A2D-W04	6.89E-07
0A2D-W05	2.26E-06
0A2D-W06	3.52E-07

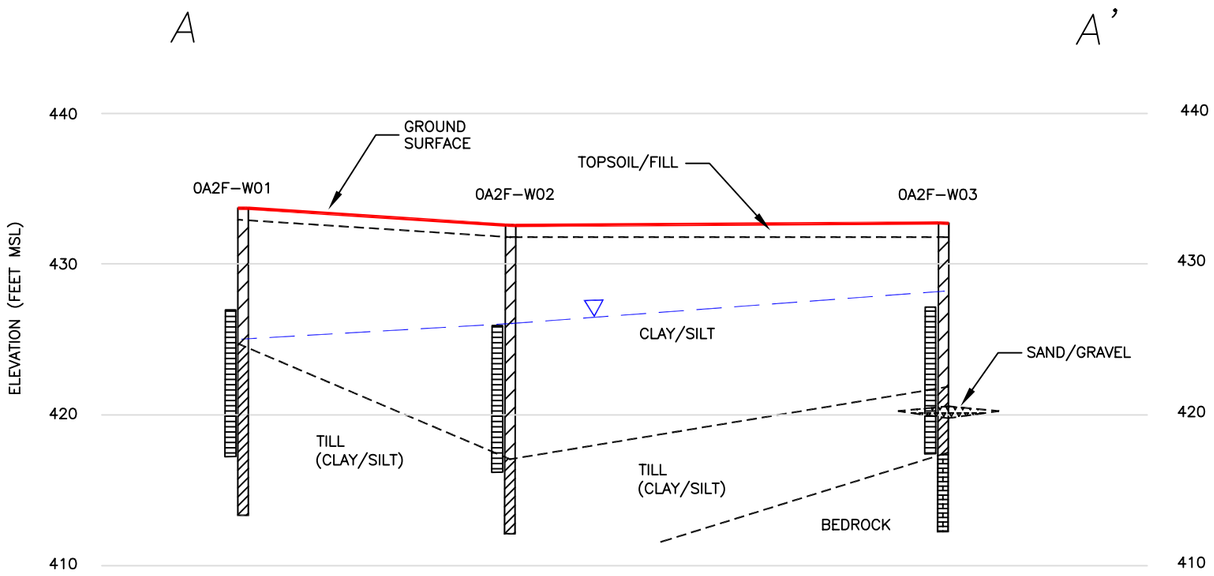
PROJECT:
CRAB ORCHARD NWR
MARION, ILLINOIS

TITLE: RI/FS WORKPLAN
AREA 2D
HYDROGEOLOGIC CROSS SECTION A–A'

DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233-001-200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2-3
APPROVED BY: DPT		

NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404-347-9050

AREA 2F

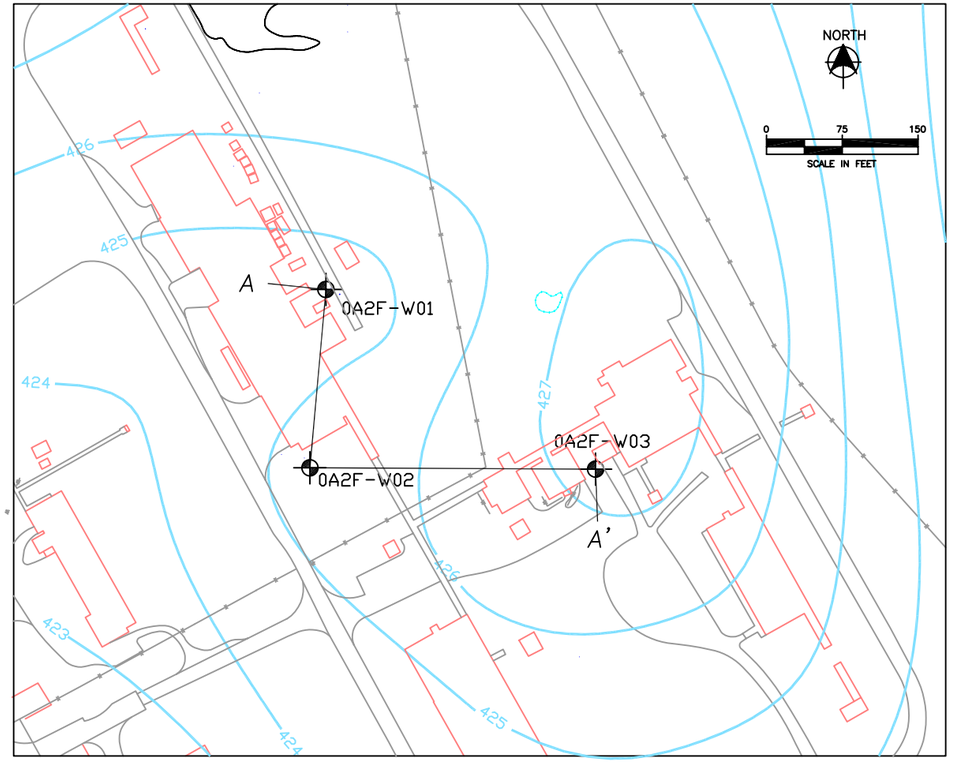


HORIZONTAL SCALE

0 100 200

1" = 100'
(APPROXIMATE)

CROSS SECTION LOCATION



LEGEND:

- CLAY/SILT
- CLAY/SILT (TILL)
- SAND & GRAVEL
- BEDROCK
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

0A2F-W01	3.70E-07
0A2F-W02	1.05E-05
0A2F-W03	2.16E-05

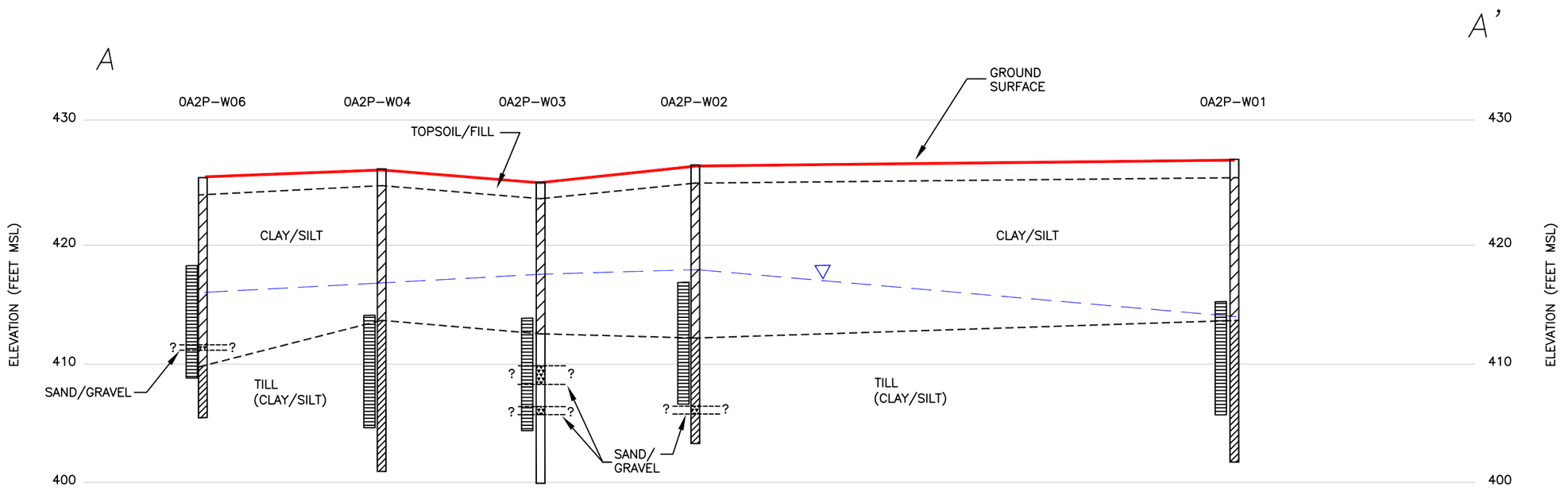
PROJECT:
CRAB ORCHARD NWR
MARION, ILLINOIS

TITLE: RI/FS WORKPLAN
AREA 2F
HYDROGEOLOGIC CROSS SECTION A–A'

DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233-001-200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2-4
APPROVED BY: DPT		

NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404-347-9050

AREA 2P – SECTION 1

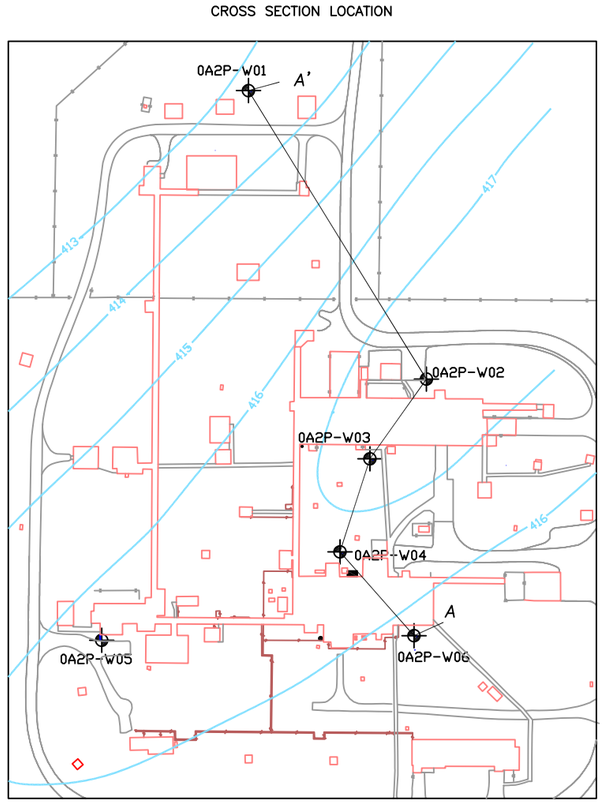


HORIZONTAL SCALE

0 100 200

1" = 100'
(APPROXIMATE)

CROSS SECTION LOCATION



NORTH

0 100 200

SCALE IN FEET

LEGEND:

- CLAY/SILT (LOESS)
- CLAY/SILT (TILL)
- SAND & GRAVEL
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

0A2P–W01	5.15E–05
0A2P–W02	4.13E–05
0A2P–W03	6.10E–05
0A2P–W04	6.57E–05
0A2P–W05	1.91E–04
0A2P–W06	3.30E–05

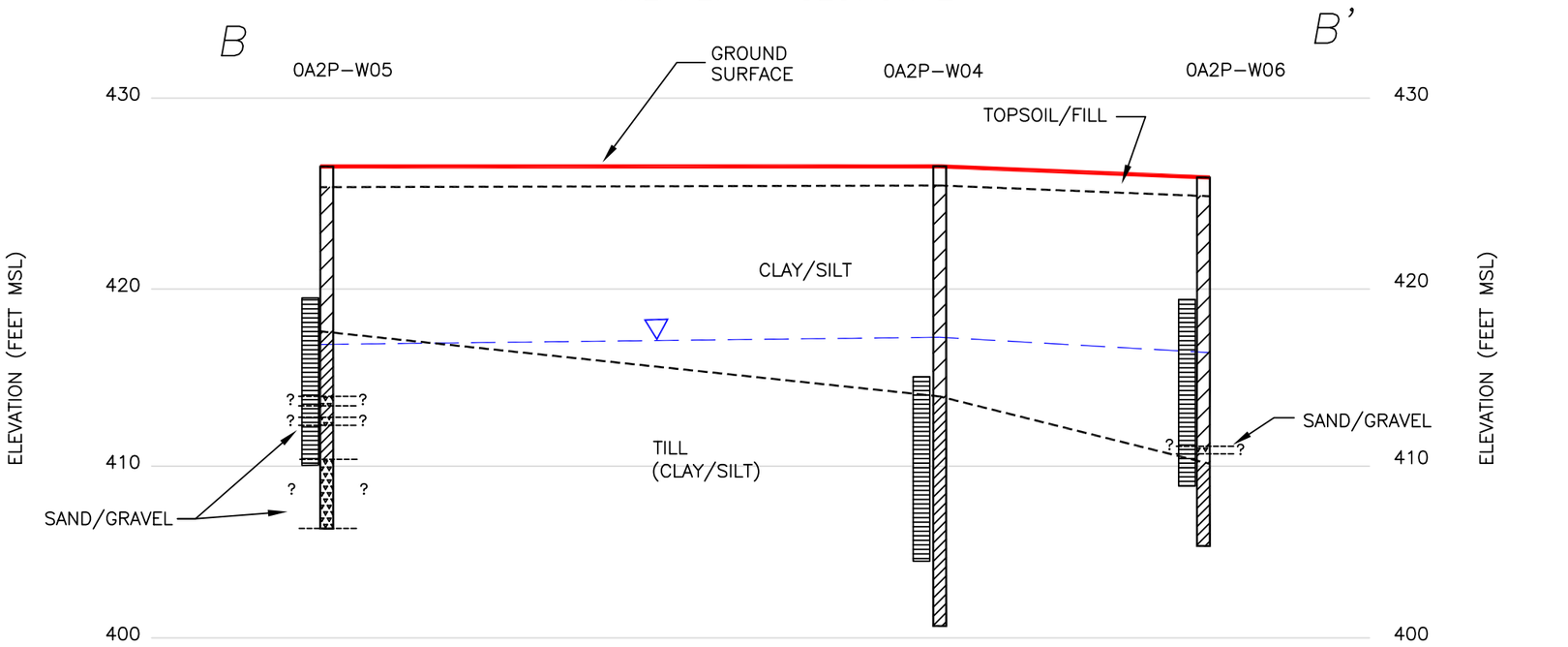
PROJECT:
CRAB ORCHARD NWR
MARION, ILLINOIS

TITLE: RI/FS WORKPLAN
AREA 2P – SECTION 1
HYDROGEOLOGIC CROSS SECTION A–A'

DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233–001–200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2–5
APPROVED BY: DPT		

NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404–347–9050

AREA 2P – SECTION 2



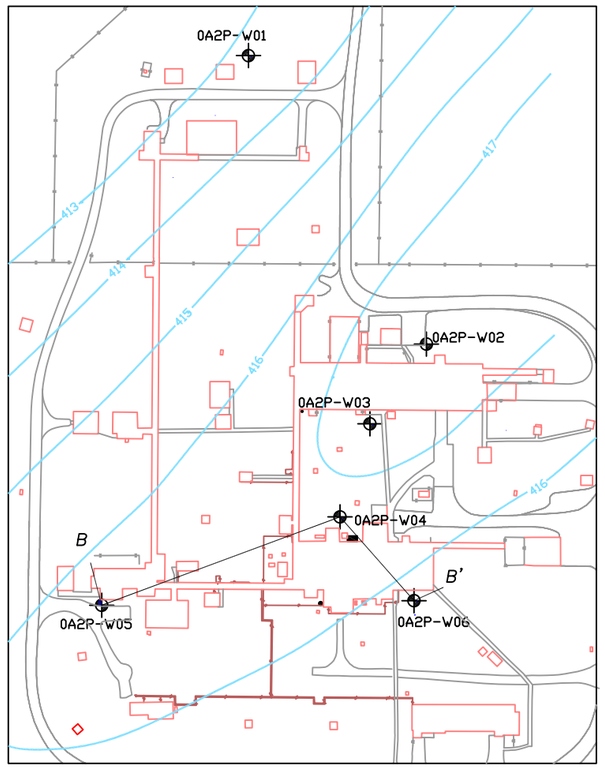
HORIZONTAL SCALE

0 80 160

1" = 80'

(APPROXIMATE)

CROSS SECTION LOCATION



NORTH

0 100 200

SCALE IN FEET

LEGEND:

- CLAY/SILT
- CLAY/SILT (TILL)
- SAND & GRAVEL
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

0A2P–W01	5.15E–05
0A2P–W02	4.13E–05
0A2P–W03	6.10E–05
0A2P–W04	6.57E–05
0A2P–W05	1.91E–04
0A2P–W06	3.30E–05

PROJECT: CRAB ORCHARD NWR MARION, ILLINOIS

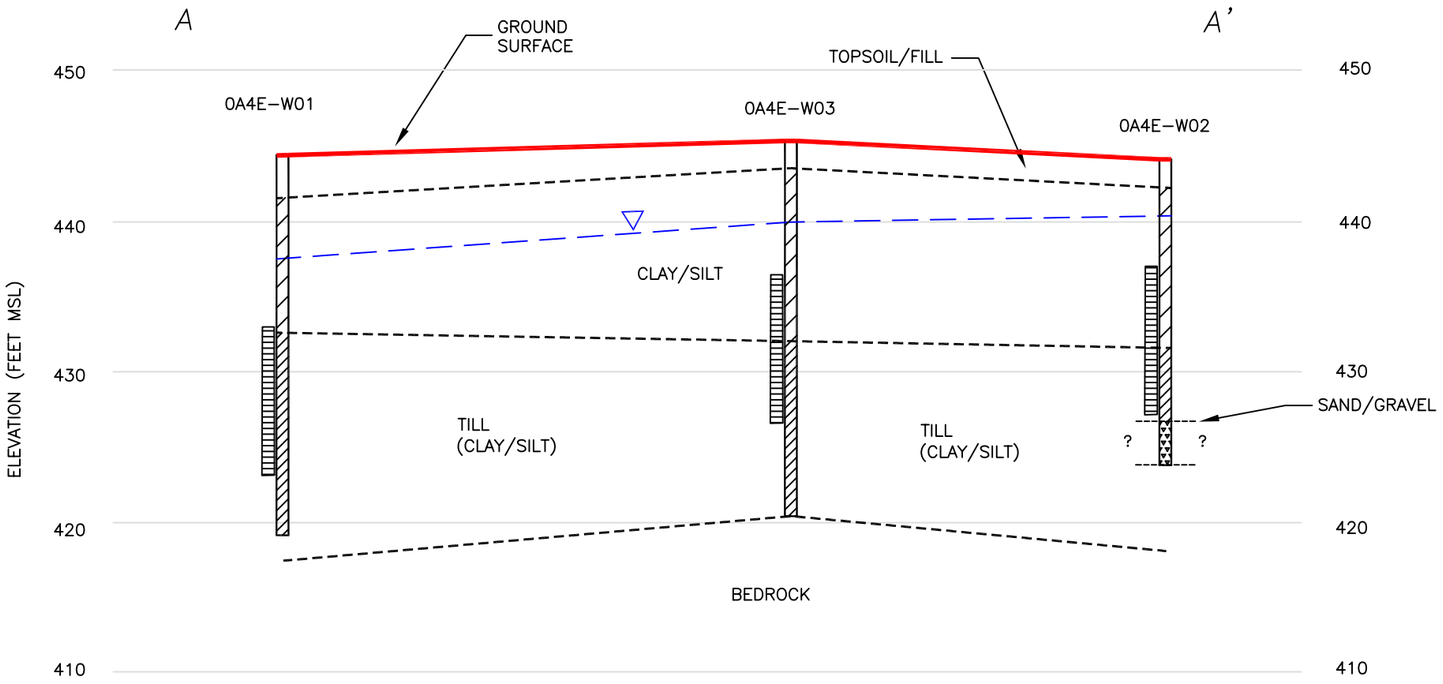
TITLE: RI/FS WORKPLAN

AREA 2P – SECTION 2
HYDROGEOLOGIC CROSS SECTION B–B'

DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233–001–200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2–6
APPROVED BY: DPT		

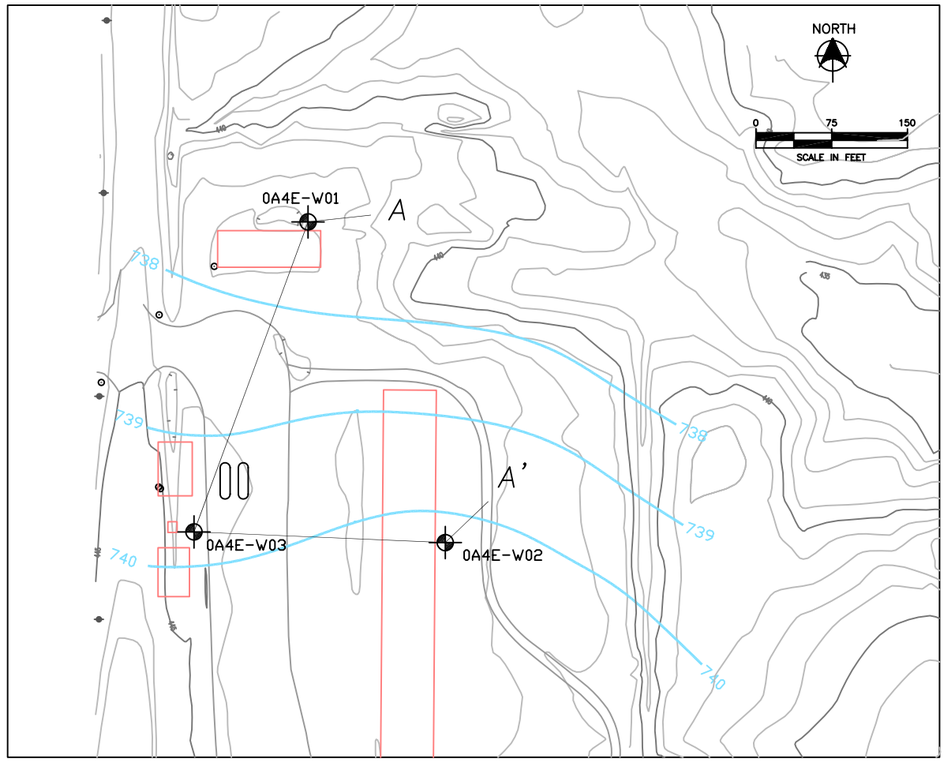
NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404–347–9050

AREA 4E



HORIZONTAL SCALE
0 100 200
1" = 100'
(APPROXIMATE)

CROSS SECTION LOCATION



LEGEND:

- CLAY/SILT
- CLAY/SILT (TILL)
- SAND & GRAVEL
- BEDROCK
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

0A4E-W01	1.21E-05
0A4E-W02	3.58E-06
0A4E-W03	8.97E-05

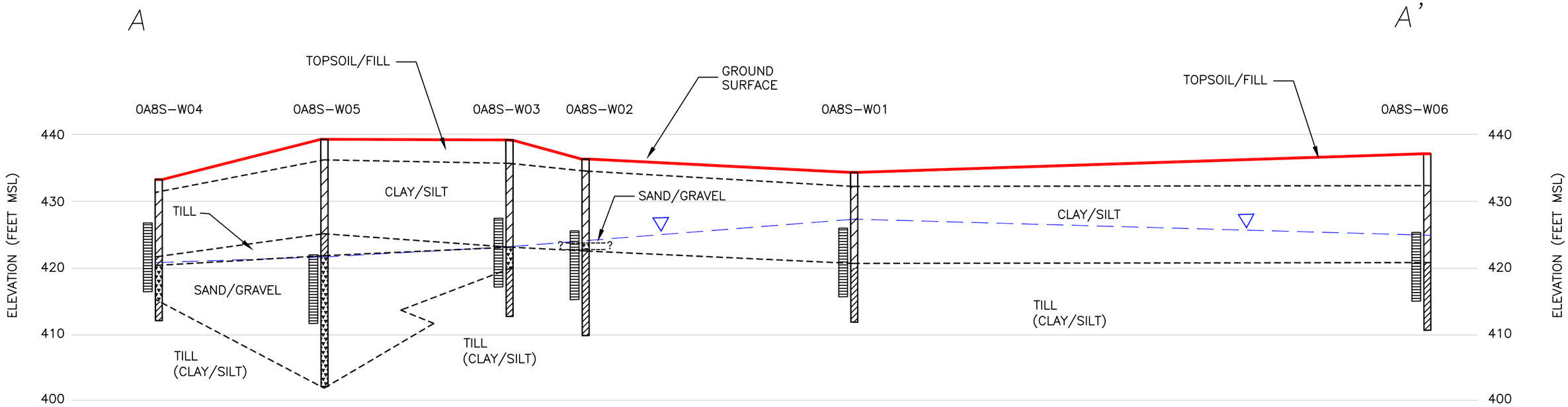
PROJECT:
CRAB ORCHARD NWR
MARION, ILLINOIS

TITLE: RI/FS WORKPLAN
AREA 4E
HYDROGEOLOGIC CROSS SECTION A–A'

DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233-001-200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2-7
APPROVED BY: DPT		

NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404-347-9050

AREA 8S



HORIZONTAL SCALE

0 250 500

1" = 250'
(APPROXIMATE)

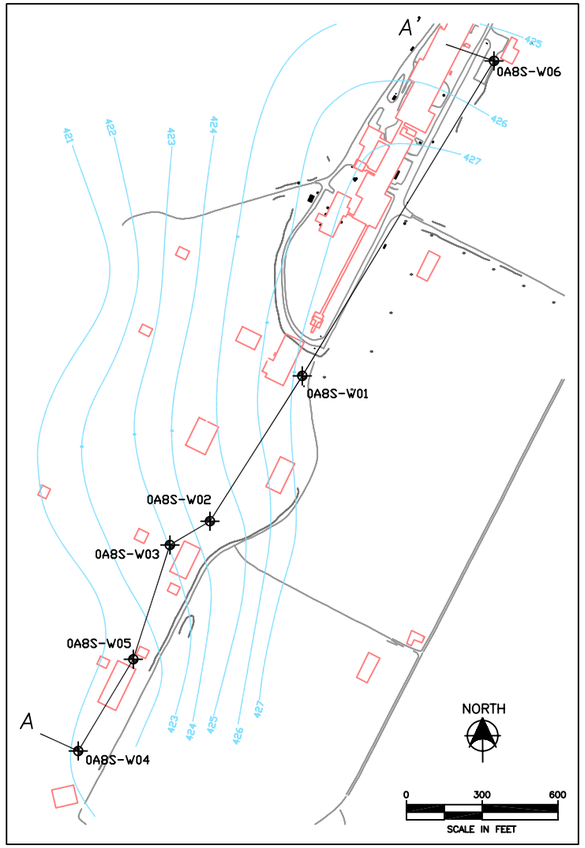
LEGEND:

- CLAY/SILT
- CLAY/SILT (TILL)
- SAND & GRAVEL
- BEDROCK
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

0A8S-W01	1.58E-05
0A8S-W02	6.17E-06
0A8S-W03	2.47E-05
0A8S-W04	6.55E-04
0A8S-W05	7.10E-04
0A8S-W06	1.59E-04

CROSS SECTION LOCATION

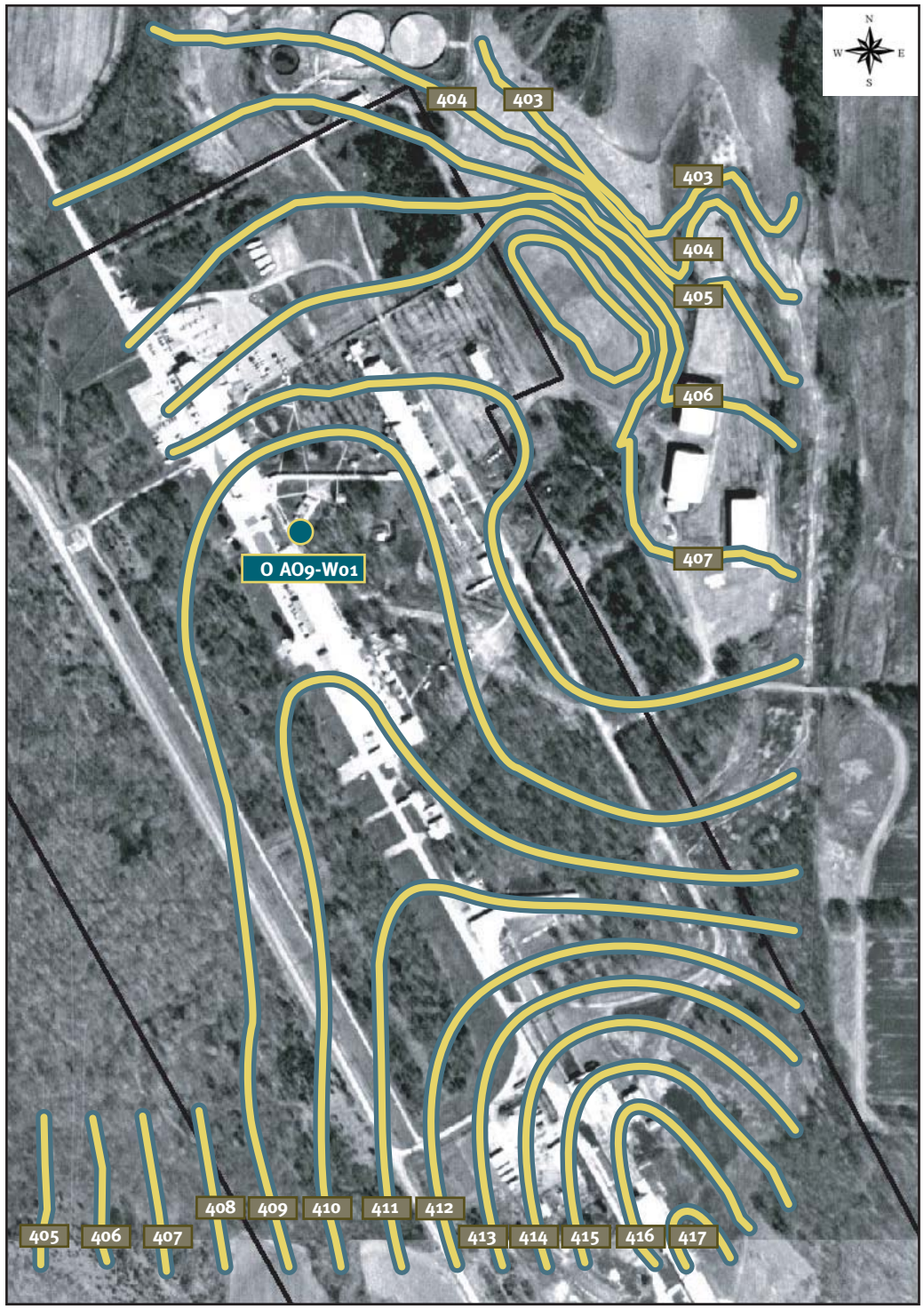


PROJECT:
CRAB ORCHARD NWR
MARION, ILLINOIS

TITLE: RI/FS WORKPLAN
AREA 8S
HYDROGEOLOGIC CROSS SECTION A–A'

DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233-001-200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2–8
APPROVED BY: DPT		

NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404–347–9050



LEGEND

Ground Water Elevation (Water Table)
(Oct. 2000, contour interval 1 foot)

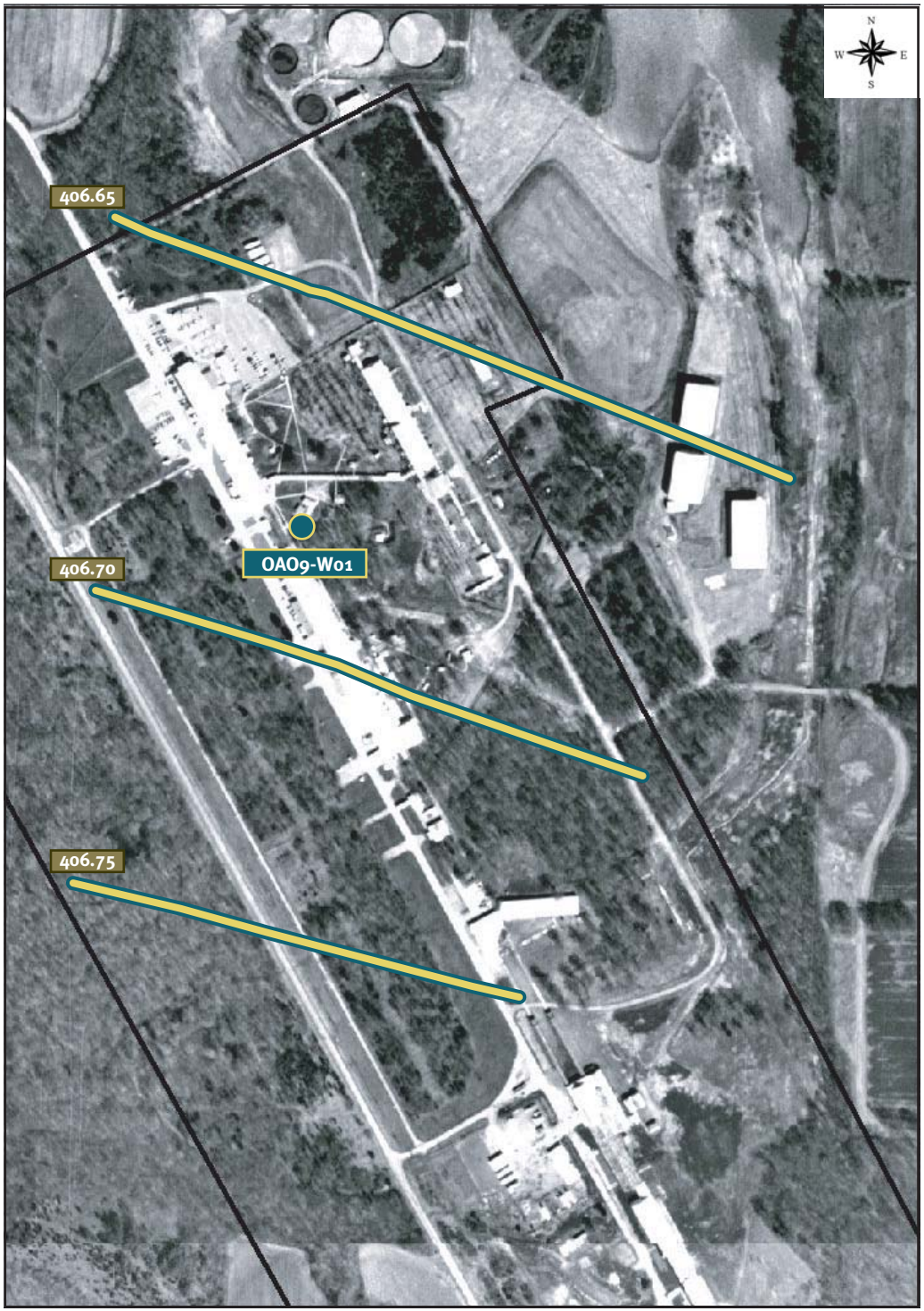
PA/SI Overburden Monitoring Well

AUS Site Boundary (approx.)

0 400 800 Feet

Figure 2-9
Groundwater Elevation Water Table,
Area 9

Note: information obtained from the Preliminary Design report for the Groundwater Remedial Action; PCB Operable Unit-Sites 32/33 by RMT, Inc. 2001



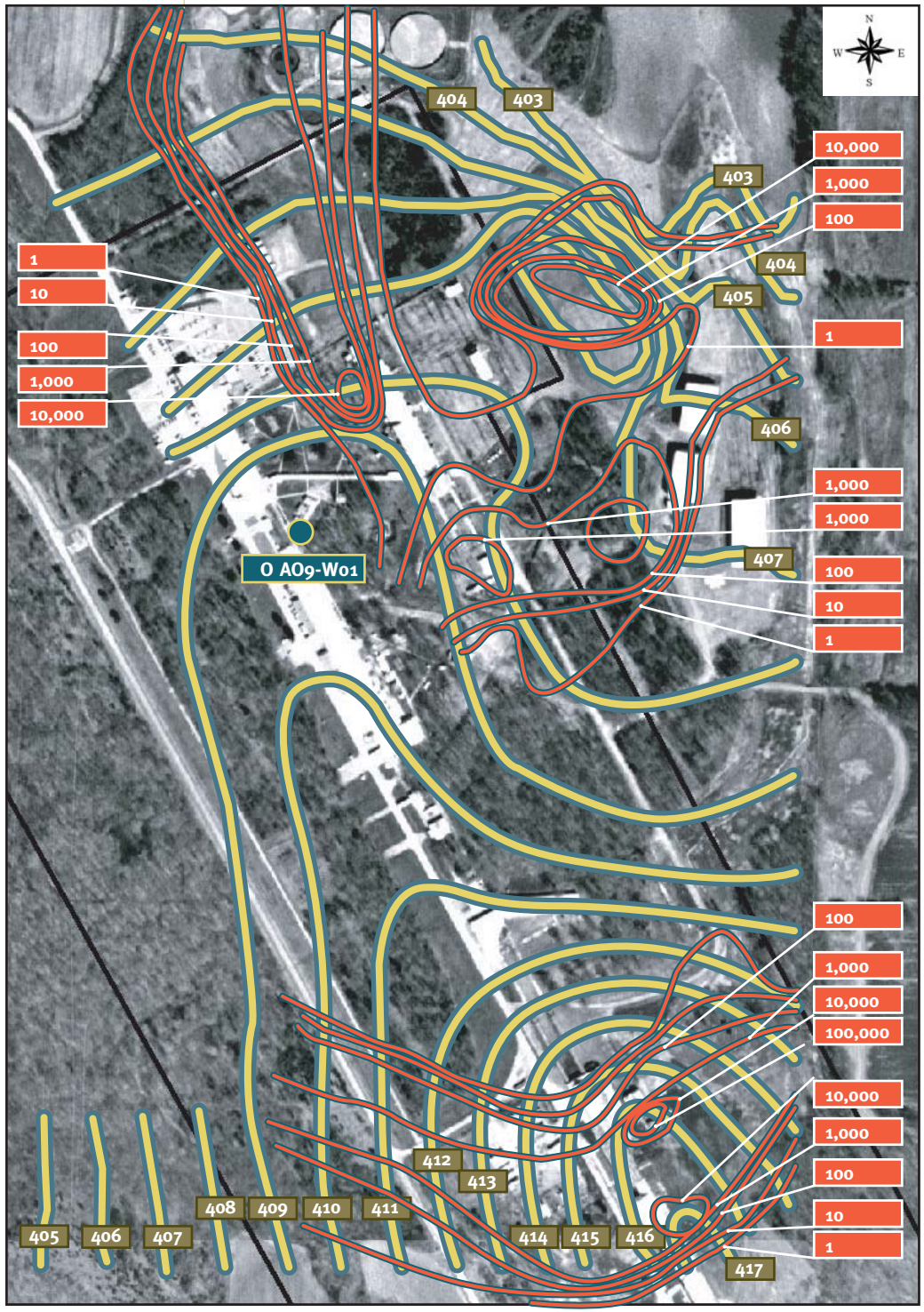
Legend

- Ground Water Elevation Lower Sand (Oct. 2000, contour interval 0.05 feet)
- PA/SI Overburden Monitoring Well
- AUS Site Boundary (approx.)

0 400 800 Feet

Figure 2-10
Groundwater Elevation Lower Sand,
Area 9

Note: information obtained from the Preliminary Design report for the Groundwater Remedial Action; PCB Operable Unit-Sites 32/33 by RMT, Inc. 2001



LEGEND

Total CVOC Concentration Ground Water
(contour interval logarithmic, ug/L)

Ground Water Elevation (Water Table)
(Oct. 2000, contour interval 1 foot)

PA/SI Overburden Monitoring Well

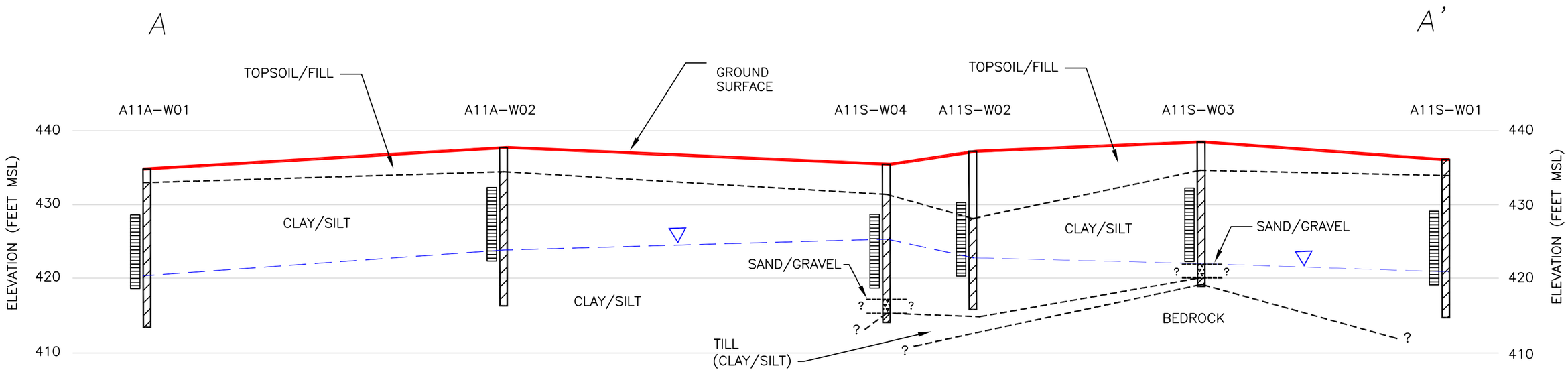
AUS Site Boundary (approx.)

0 400 800 Feet

Figure 2-11
Total CVOC Concentration
Upper Clay and Upper Sand Units,
Area 9

Note: information obtained from the Preliminary Design report for the Groundwater Remedial Action; PCB Operable Unit-Sites 32/33 by RMT, Inc. 2001

AREAS 11A & 11S

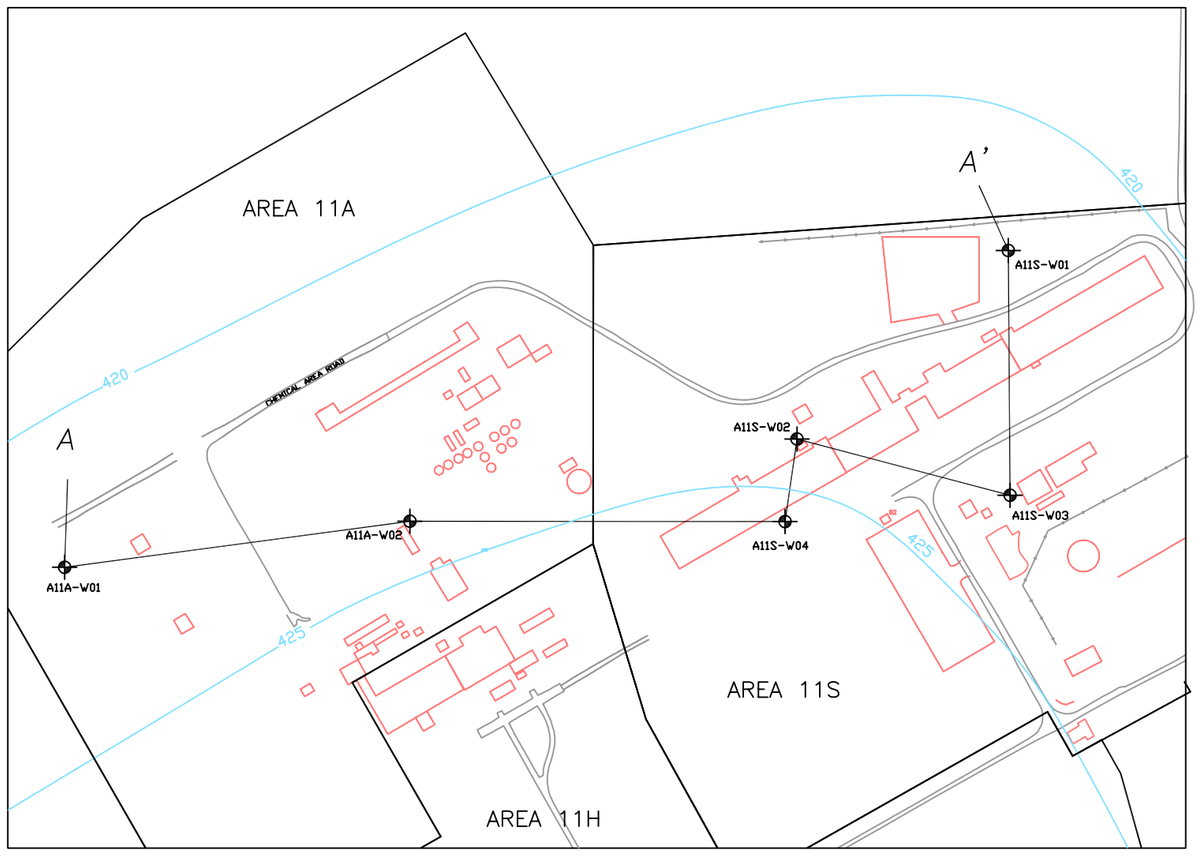


HORIZONTAL SCALE

0 200 400

1" = 200'
(APPROXIMATE)

CROSS SECTION LOCATION



NORTH

0 150 300

SCALE IN FEET

LEGEND:

- CLAY/SILT
- CLAY/SILT (TILL)
- SAND & GRAVEL
- BEDROCK
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

A11A–W01	2.89E–05
A11A–W02	5.12E–06
A11S–W01	6.38E–05
A11S–W02	4.59E–05
A11S–W03	2.62E–06
A11S–W04	6.83E–05

PROJECT: CRAB ORCHARD NWR
MARION, ILLINOIS

TITLE: RI/FS WORKPLAN
AREAS 11A & 11S
HYDROGEOLOGIC CROSS SECTION A–A'

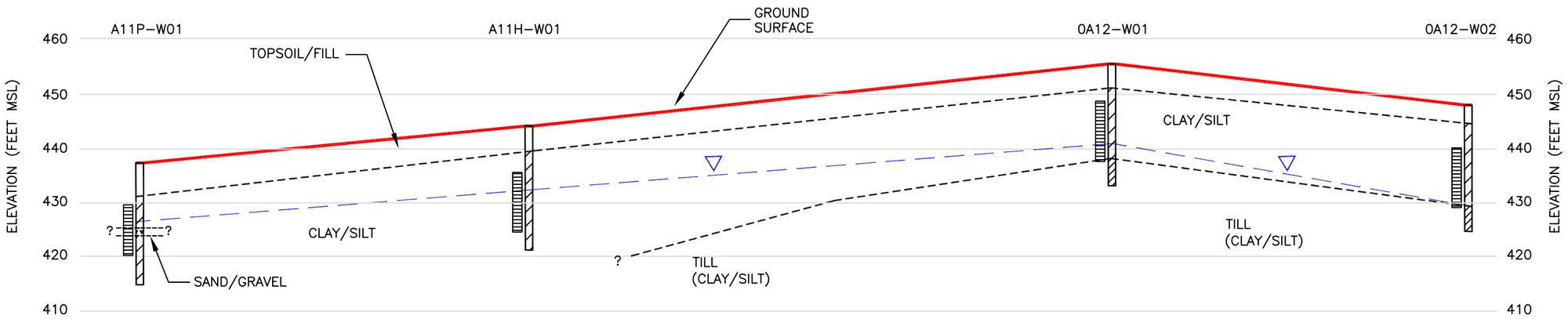
DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233–001–200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2–12
APPROVED BY: DPT		

NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404–347–9050

AREAS 11H, 11P, AND 12

A

A'

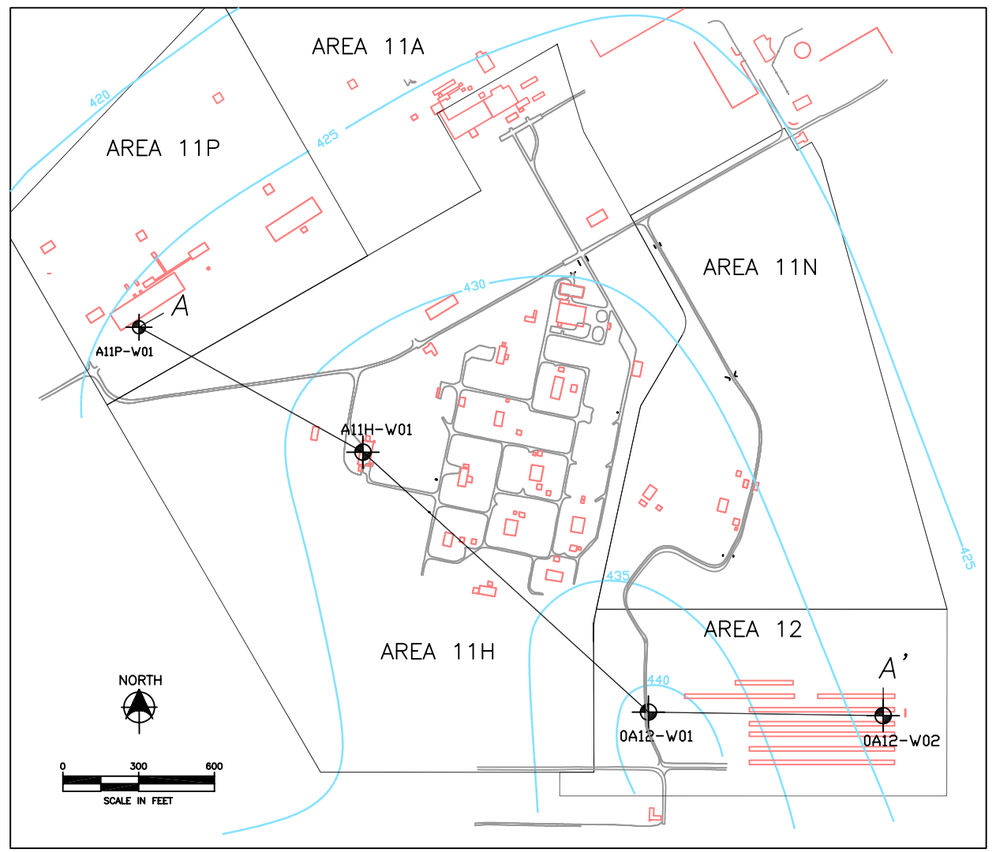


HORIZONTAL SCALE

0 300 600

1" = 300'
(APPROXIMATE)

CROSS SECTION LOCATION



LEGEND:

- CLAY/SILT
- CLAY/SILT (TILL)
- SAND & GRAVEL
- BEDROCK
- MONITORING WELL/ SCREENED INTERVAL
- WATER TABLE (MEASURED IN SEPTEMBER 2000)
- FORMATION CONTACT

SLUG TEST RESULTS (cm/sec)

A11P–W01	3.18E–05
A11H–W01	8.73E–06
0A12–W01	3.71E–06
0A12–W02	2.18E–04

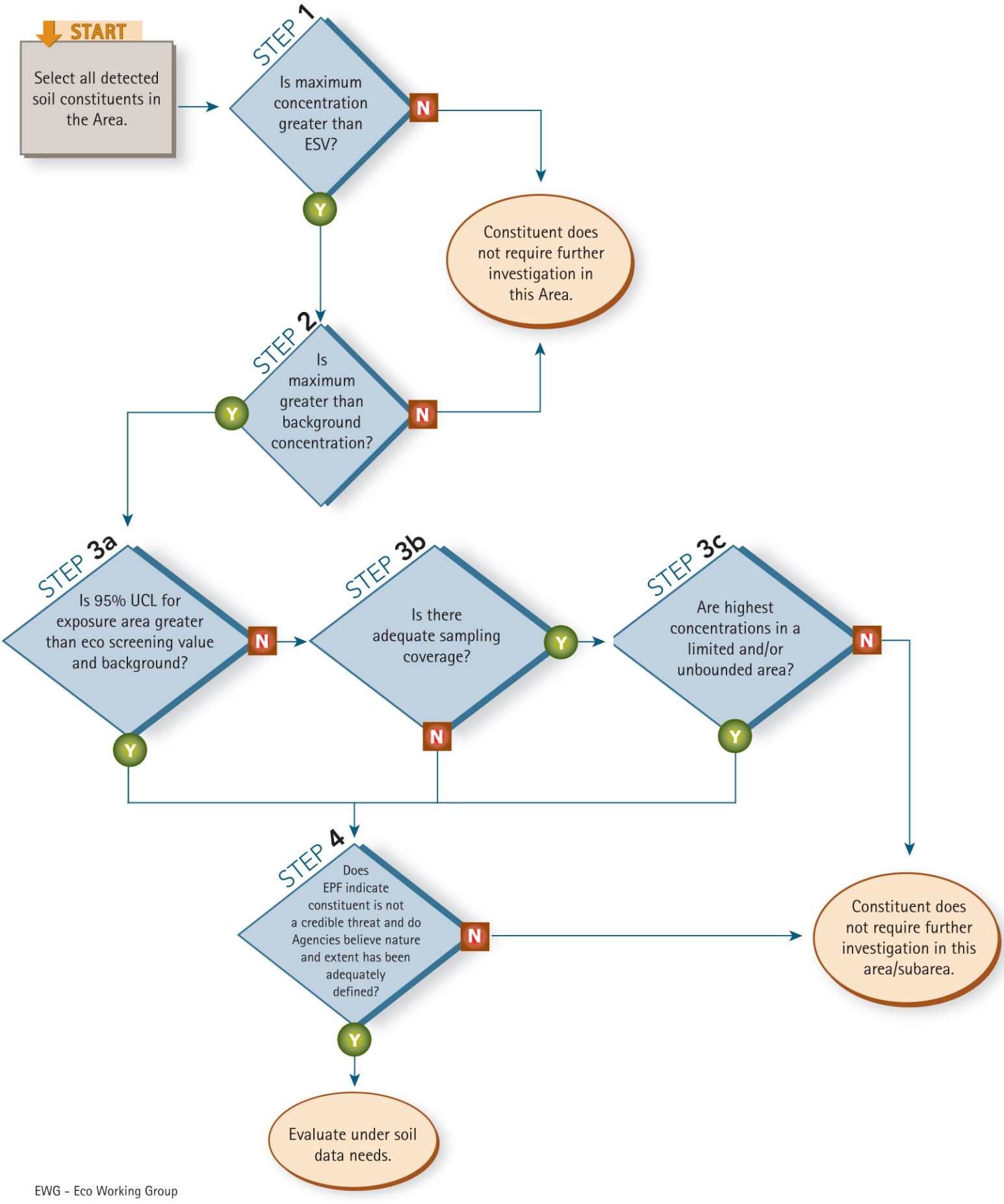
PROJECT: CRAB ORCHARD NWR
MARION, ILLINOIS

TITLE: RI/FS WORKPLAN
AREAS 11H, 11P, AND 12
HYDROGEOLOGIC CROSS SECTION A–A'

DRAWN BY: DDZ	SCALE: VARIES	PROJ. NO. 0233–001–200
CHECKED BY: GRD	DATE: 3.FEB.2006	FIGURE NO. 2–13
APPROVED BY: DPT		

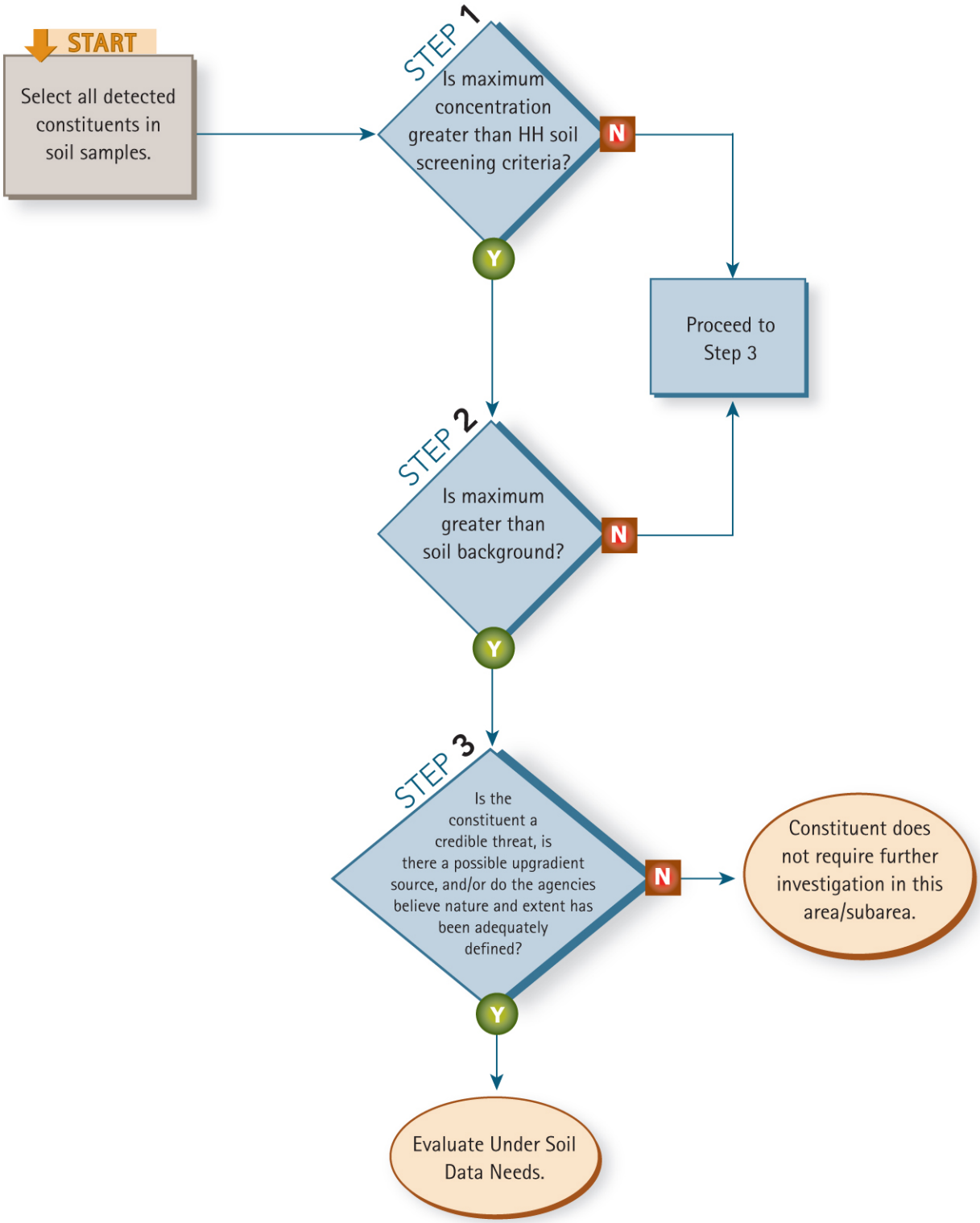
NEWFIELDS
1349 W. PEACHTREE ST., SUITE 2000
ATLANTA, GA 30309
404–347–9050

Figure 4-1 Ecological Risk Soil Screening Flowchart for Additional Data Collection



EWG - Eco Working Group

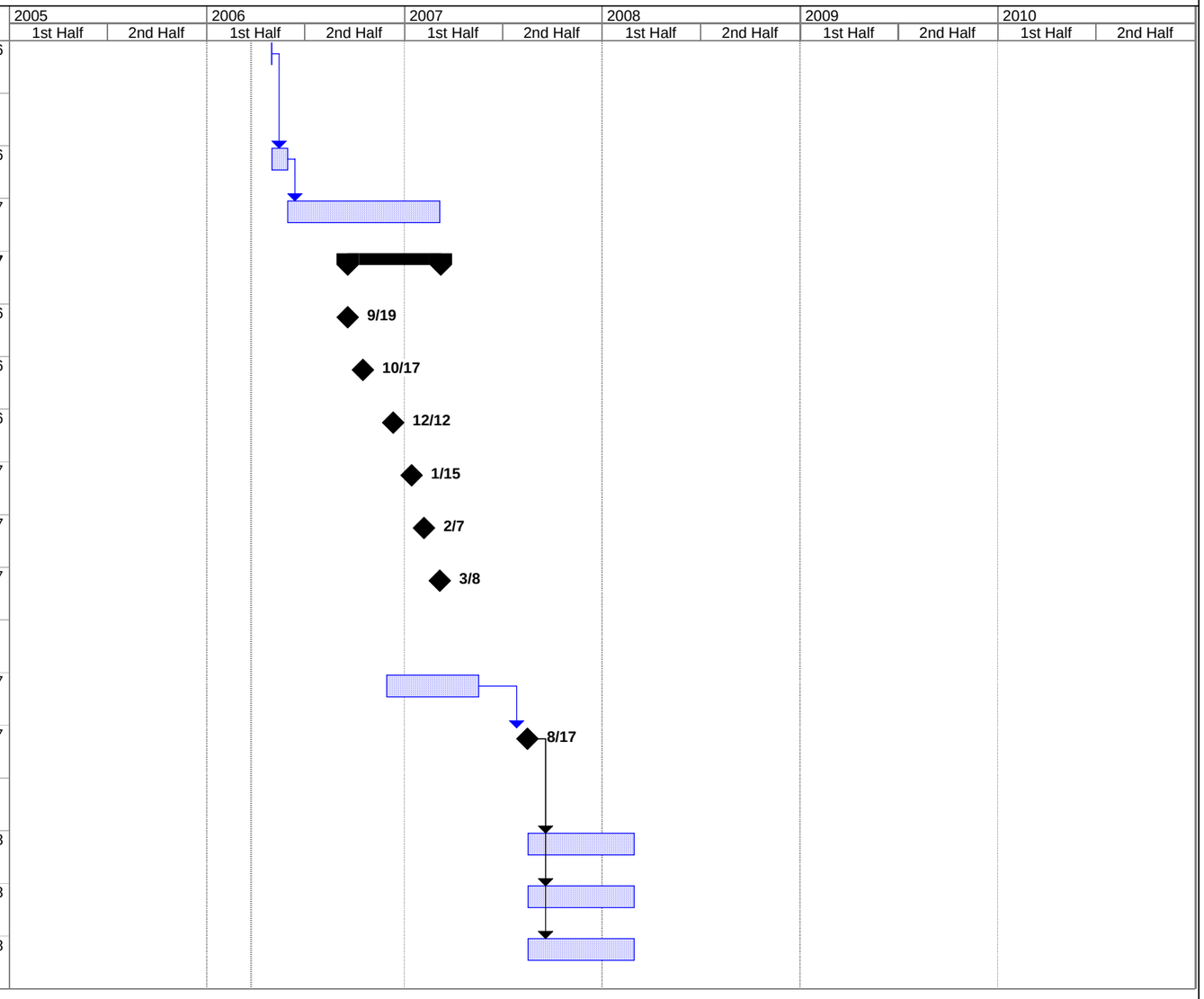
Figure 4-2 Human Health Risk Soil Screening Flowchart for Additional Data Collection



HHWG - Human Health Working Group

Figure 14-1
Project Schedule for AUS RI/FS

ID	Task Name	Duration	Start	Finish
1	**Final Workplan - Phase I**	1 day	Mon 5/1/06	Mon 5/1/06
2				
3	**Phase I Stage 1 Mobilization**	21 days	Tue 5/2/06	Tue 5/30/06
4	**Phase 1 Stage 1 Investigation Activities and Round 1 GW Monitoring**	201 days	Wed 5/31/06	Wed 3/7/07
5	**Phase I Stage 1 Validated Data to Agency**	**124 days**	**Tue 9/19/06**	**Fri 3/9/07**
6	Area 2	2 days	Tue 9/19/06	Wed 9/20/06
7	Remainder of Northwest Quad	2 days	Tue 10/17/06	Wed 10/18/06
8	Area 11/12	2 days	Tue 12/12/06	Wed 12/13/06
9	Southeast Quad	2 days	Mon 1/15/07	Tue 1/16/07
10	Northeast Quad	2 days	Wed 2/7/07	Thu 2/8/07
11	Southwest Quad	2 days	Thu 3/8/07	Fri 3/9/07
12				
13	**Phase I Stage 2 Investigation Activities and Round 2 GW Monitoring**	122 days	Thu 11/30/06	Fri 5/18/07
14	**Phase I Stage 2 Validated Data to Agency**	1 day	Fri 8/17/07	Fri 8/17/07
15				
16	**Preliminary Site Characterization Summary**	180 days	Sat 8/18/07	Fri 2/29/08
17	**Data Needs Analysis Memorandum**	180 days	Sat 8/18/07	Fri 2/29/08
18	**Workplan Addenda - Phase II**	180 days	Sat 8/18/07	Fri 2/29/08



Project: Workplan schedule figure 14-:
Date: Thu 3/23/06

Task | Progress | Summary | External Tasks | Deadline
Split | Milestone | Project Summary | External Milestone

This schedule includes tasks through Phase I. A revised schedule for future activities will be submitted with the Phase II Work Plan Addendum.

Figure 14-2 Organizational Chart

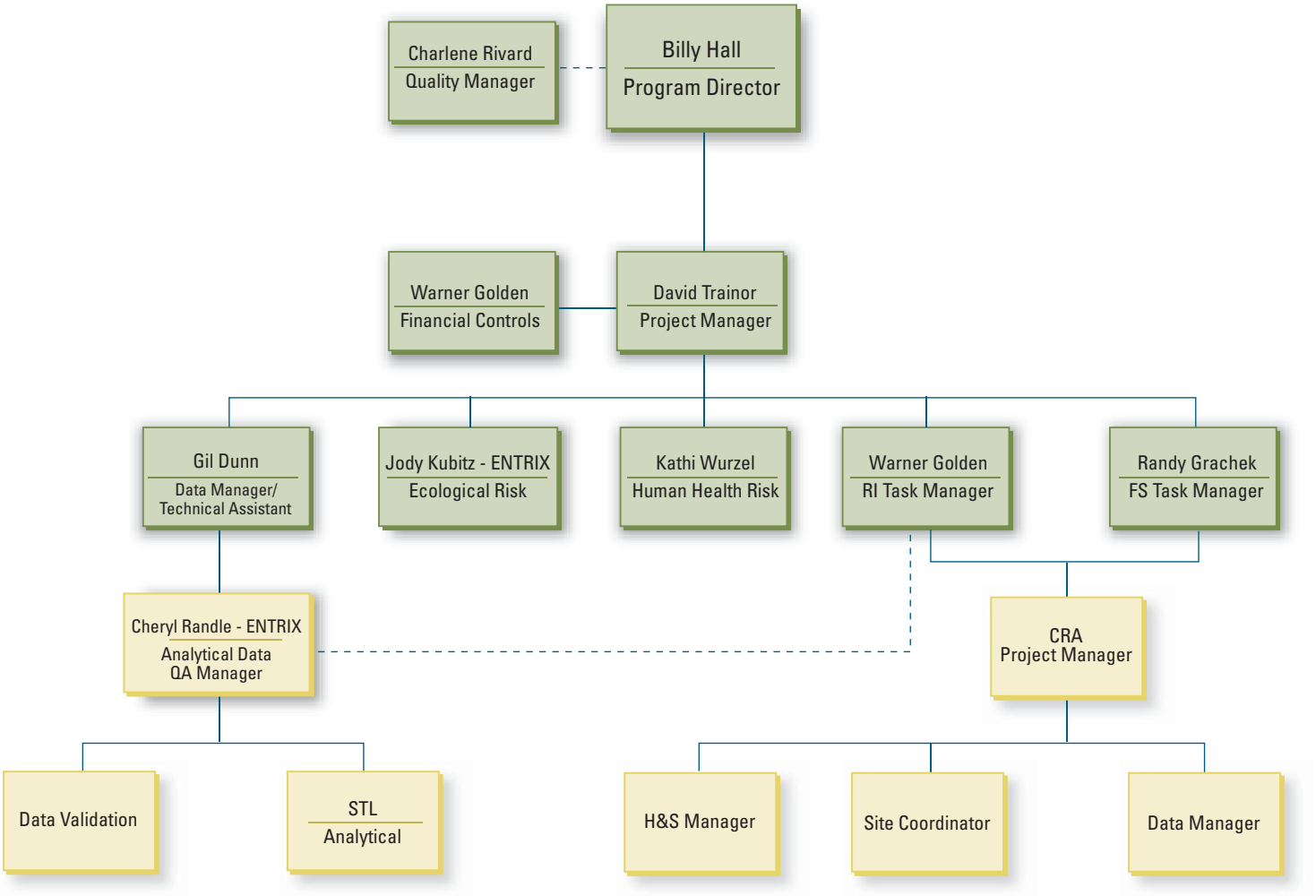


Figure 14-3 Contract Organizational Chart