

**ASARCO EL PASO COPPER SMELTER
PHASE II REMEDIAL INVESTIGATION REPORT
EL PASO, TEXAS**

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JUL 10 2000
REMEDIATION DIVISION
Corrective Action Section

Prepared For:

ASARCO

2301 West Paisano Drive
El Paso, Texas 79922

Prepared By:

 **Hydrometrics, Inc.®**
consulting scientists, engineers and contractors



**VOLUME
II of IV**

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Corrective Action Section

APPENDIX A

ASARCO RESPONSES TO TNRCC COMMENTS ON PHASE I RI

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ASARCO RESPONSES TO TNRCC COMMENTS ON PHASE I RI

Following submittal of the Phase I RI report (Hydrometrics, 1998) TNRCC provided comments (TNRCC, 1999) that were addressed in the Phase II RI. TNRCC comments have been incorporated into the Phase II RI, and are summarized below along with ASARCO's responses as follows:

Comment 1: For Investigation Area 1, the TNRCC agrees with ASARCO's proposal for additional soil borings to groundwater, however, since this area is near the property boundary additional attention should be focused toward the property boundary or the groundwater pathway. ASARCO has stated that the primary hydrogeologic feature of Area 1 is a slag and soil backfill arroyo and that higher metals concentrations in the groundwater are associated with the arroyos. Since the higher metal concentrations in groundwater are associated with the arroyos, ASARCO may want to focus their investigation on all the backfilled arroyos at the site. The TNRCC believes there is evidence that the old slag in the arroyos may be contributing to the metals in the groundwater. In addition, the old slag may not have the same chemical or physical characteristics as the recently produced slag.

Response: *Asarco agrees with the TNRCC regarding the issue that the slag-filled arroyos influence the collection and transport mechanism for metals affected groundwater. However, Asarco does not agree with the TNRCC on the issue*

that the slag within the arroyos directly contributes to metals in groundwater. As discussed in the Phase I RI Report of (Hydrometrics, 1998), it has been documented that the surface operations of the Facility are the major contributor to metals in groundwater. Slag deposits in the arroyos do not intercept groundwater. Based on the results from Phase I and II RIs, metals from surface sources migrate to groundwater through relatively high hydraulic conductivity of fractures in the slag.

Asarco is continuing investigation of groundwater flow paths associated with the arroyos which underlie the Facility. Six monitor wells have been installed in the proximity of the mouths of the arroyos along Paisano Drive during the Phase I and II RIs. As discussed in Sections 2.0 and 3.0 of this Phase II RI Report, data from these monitor wells supports the concept that the impacts of metals from surface source areas to groundwater is influenced by the historic arroyos beneath the Facility.

Comment 2: ASARCO proposes to conduct six additional borings in the Investigation Area 2 (Boneyard/Slag Storage Area), however Exhibit 2 (Proposed Soil, Monitor Well and Surface Water Locations) displays 8 proposed soil borings for Area 2. The TNRCC requests clarification on the number of borings. Also, the TNRCC recommends that a ground water monitoring well be installed northwest of well EP-53. Groundwater from Area 2 has been impacted above background concentrations and appears to migrate toward the northern arroyo. Please establish if this is a potential pathway for the groundwater for this area.

Response: *The number of borings proposed should have been six soil borings as described in the sample matrix, rather than the eight soil borings indicated on the map. Asarco has installed monitor well EP-99 (see Exhibit 1) in the area between EP-53 and EP-85 to continue the investigation of potential pathways in the area of the Boneyard.*

Comment 3: ASARCO has proposed an additional eight soil borings for Area 3. The TNRCC agrees with the additional borings but believes a detailed ground-water investigation is needed for Area 3. Area 3 contains some of the highest arsenic concentrations in groundwater at the Facility and is potentially over an old arroyo which is adjacent to the property boundary. The TNRCC believes that the ground water from Area 3 has the potential to migrate offsite, which the TNRCC considers a potential point of exposure for contaminants. Also, the TNRCC is concerned with surface metals concentrations in soils along the western property boundary which is included as Investigation Area 4. Once again, the TNRCC considers areas that are adjacent to the property boundary, which have the potential to migrate offsite, potential points of exposure. ASARCO is required to delineate the extent of contamination for site closure or remediation under the TNRCC's Risk Reduction Rules.

Response: *Comment 3 from the TNRCC requesting a detailed groundwater investigation of Investigation Area No.3 makes no mention of the eight monitor wells currently located within the investigation area, which were utilized during the RIIs. With the current eight monitor wells, Asarco believes that there are a sufficient number of wells to provide adequate control regarding a groundwater investigation. Asarco will continue with the proposed soils investigation of this area. Eight borings were advanced in IA-3 during the Phase II RI. The data collected from these borings further delineate source materials as described in Section 3.0 of this report.*

Comment 4: ASARCO has proposed excavating Category I materials (residual by-products typically associated with specific current and past smelter operations), however, ASARCO's reference to the proposed disposal sites of those materials as "repository sites" may be inaccurate. ASARCO proposes to excavate the pond sediments in Ponds 5 and 6 and recover copper in the

sediments by recycling through the smelter. Pond 1 sediments will be dried, compacted, and placed in on-site “repositories”, which ASARCO proposes to form by excavating and lining of Ponds 5 and 6. Please describe in detail the classification procedure and regulations that ASARCO will use to classify proposed Category I materials to be excavated and of the “repository” concept. For any excavated material generated, including the pond sediments which occur in Ponds 1, 5 and 6, ASARCO should first classify the material before disposal.

Response: Asarco believes that adequate information and description of the “Category System” has been provide in Section 3.0 of the Phase I RI Report (Hydrometrics, 1998), and reiterated in Section 3.0 of this Phase II RI Report. An excerpt from Section 3.0 is as follows: “Category I soils are those most likely to cause impacts or have caused impacts to groundwater”. The “Category System” was developed to provide a basis for Corrective Action that uses soils and groundwater metals concentration, related with past or current operations at the Facility. The issue regarding the “Category System” is not to develop a specific fixed cleanup target, but to actually investigate whether potential source areas impact groundwater. The “Category System” method of delineating areas for specific Corrective Actions is protective of the public, the environment, and the workers at the Facility.

As summarized in a recent document provided to TNRCC by Hydrometrics (Hydrometrics et al., 2000), and in Sections 1.0 and 4.0 of this Phase II RI Report area of contamination (AOC) is a concept by which soils which impact groundwater in certain broad areas may be deposited in an on-site lined RCRA landfill unit. Significantly, consideration of these AOCs as a landfill unit would allow hazardous waste to be moved within the boundaries of the AOC without triggering RCRA land disposal restrictions or minimum

technology requirements. As noted in the March 13, 1996 guidance titled "Use of the Area of Contamination (AOC) Concept During RCRA Cleanups," the AOC concept was first discussed in detail in the Preamble to the National Contingency Plan (55 Fed. Reg. 8758-8760, 3/8/90).

Advanced approval at the federal level is not required for private parties to take advantage of the AOC concept, but EPA encourages parties to consult with the appropriate agency (be it state or federal) to ensure they implement the AOC concept appropriately. The guidance goes on to discuss the similarities and differences between AOCs and Corrective Action management units (CAMUs) and states that "the AOC concept is particularly useful for consolidation of contiguous units or areas of contaminated soil.

As TNRCC is aware, Asarco has committed to close certain non-synthetically-lined surface impoundments on their Facility property under the existing Agreed Order (see Section 4.0 of this document and Section 4.0 of the Phase I RI (Hydrometrics, 1998)). In the course of exploring available regulatory options that were protective of human health and the environment and not cost-prohibitive, Asarco has evaluated utilization of the AOC concept by proposing to place certain impacted soils (Category I) as fill material in conjunction with engineered systems to close the ponds.

Asarco is aware that the AOC concept was used in a similar manner to fill ponds with hazardous waste that were being closed as part of a slurry wall construction project at the Dow Freeport, Texas facility. Further, in response to questions from agency representatives, we have confirmed that a facility may have more than one AOC designated (see EPA Directive 9347.3-05FS, July 1989).

In addition, we have conferred with EPA Headquarters (Ms. Dawn Messier, 202/564-5517) that AOC guidance does not preclude utilizing an AOC that is bisected by a roadway, body of water, or the like. Finally, based on discussions with Dave Fagan of EPA Headquarters Office of Solid Waste, an entire site can be designated as an AOC if there are site-wide impacts. Mr. Fagan indicated that he thought such had been the case at the Reichold Chemical Site in the State of Washington (you may confirm this with Mr. Fagan at 703/308-0603).

Comment 5: ASARCO has indicated that surface water flow in the American Canal during periods of low flow in the Rio Grande is restricted. ASARCO contends that during these low flow events, the surface water is not representative of the overall water in the American Canal. The TNRCC does not agree with ASARCO's assessment of the American Canal. The TNRCC considers the water in the American Canal surface water in which ASARCO's groundwater is discharging during these low flow periods. Please reevaluate the American Canal based upon a potential pathway for contaminant migration.

Response: *During the relevant period covered by the Phase I RI Report (Hydrometrics, 1998), water in the American Canal was typically one to two inches deep during the November 1997 and February 1998 events. This atypical flow was a result of the American Canal improvements occurring downstream of the Asarco Facility, in which water normally diverted, to the American Canal, was left in the Rio Grande. In addition, during these periods of atypical low flow, the Rio Grande is restricted by seasonal controls from Elephant Butte Dam (high releases from April to September, restrictive releases from October to March). In regards to groundwater impacts to the American Canal, ASARCO has documented in the Phase I RI Report (October 1998) that the groundwater does not intersect the bottom of the American Canal during periods of low flow. Since the final quarterly event (May 1998) of the Phase I*

RI Report, water flow in the American Canal has been more indicative of typical seasonal fluctuations. And as expected, metals concentrations during these typical higher flow volumes resulted in no impacts to the water of the American Canal.

During periods of high flow when ground water only intercepts portions the American Canal adjacent to ASARCO, a concept based on hydrostatic pressure explains why no elevated metals are found when water is present in the American Canal. When the canal is full, the pressure the water exerts prevents water from seeping into the canal.

A potential source of metals during low flow conditions in the canal may be from wind blown sediments. Please refer to Section 2.0 of this report for a discussion of the flow and analytical data regarding the American Canal. Long-term continued monitoring has been proposed by Asarco. Another issue that needs to be addressed is the future plans for the American Canal. The International Boundary and Water Commission (IBWC) is currently evaluating several designs to replace, upgrade or retrofit those sections of the American Canal adjacent to the Asarco Facility. All designs have the goal of sealing the water within the canal and reducing water losses based on evaporation and leakage.

Comment 6: ASARCO used low and high flow purging rates for groundwater sampling then filtered the groundwater before placement into the sample containers. For future reference, please use one type of monitor well purging technique for all of the wells to be sampled. TNRCC has developed a "Consistency Document" dated July 23, 1998 which provides guidance for the use of purging methods and for the use of filters for groundwater samples. In general, the TNRCC discourages the use of filtered groundwater samples and will only allow filtering under certain conditions described in the

“Consistency Document.” Please refer to this document when sampling groundwater in the future. Information concerning implementation of the regulations may be accessed via Internet at:

<http://www.tnrc.state.tx.us/waste/consimem.html>.

Response: *The procedures for collection, preparation and preservation of groundwater samples conducted for the Phase I RI followed the TNRCC approved RI Work Plan (Hydrometrics, 1996), the Agency approved modifications to that Work Plan, and those procedures found and referenced in the TNRCC Consistency Document (1998).*

In response to the first issue (ASARCO using high and low flow purge rates), ASARCO contends that it followed the definitions for an adequate purge which are located in the TNRCC referenced 1996 USEPA document “Environmental Investigations Standard Operating Procedures and Quality Assurance Manual”. The procedures for an adequate purge are as follows:

“With respect to volume, an adequate purge is normally achieved when three to five times the volume of standing water in the well has been removed.” or

“With respect to groundwater chemistry, an adequate purge is achieved when the pH, specific conductance, and temperature of the groundwater has stabilized and the turbidity has either stabilized or is below 10 NTU’s...”. In addition, stabilization is defined in the same paragraph as “Stabilization occurs when the pH measurements remain constant within 0.1 Standard Unit, specific conductance within 10 percent, and the temperature is constant for at least 3 readings.” The guidance provides no definition for what is considered to be “stable” in regards to turbidity or “constant” for temperature.

In regards to the expressed concern that Asarco used high and low purging rates during groundwater sampling, we assume (based on the definition in the TNRCC Consistency Document) that the issue is over using the above definitions for adequate purge (high) versus the use of micro-purging techniques (low). During all 11 sampling events, ASARCO used "high" purging techniques rather than the "low" purging techniques.

The flow rate for achieving an adequate purge will usually vary at each well and such was the case here. The varying flow rates for purging the groundwater monitor wells occur because the site has several different types of groundwater producing formations. Individual monitor wells respond or recharge at varying rates depending on the specific geologic setting in which they are constructed. In addition, varying purge rates were utilized in an attempt to minimize the amount of water level drawdown so as not to aerate the groundwater and avoid purging the well dry. When collecting groundwater samples, the flow rate is reduced to a rate lower than the purge rate, which minimizes aeration of the sample.

As requested by the TNRCC, and consistent with the TNRCC Consistency Document, ASARCO modified its Sampling Parameter list from the sample parameter list that was approved in the RI Work Plan (1996). The modification eliminated dissolved metals analysis and total recoverable metals analysis from the original work plan and required analysis for total metals. The modification was required to resolve the issue of filtration of ground water using a 0.45-micron filter for dissolved metals analysis. The TNRCC Consistency Document discourages the use of filtered ground water samples and indicates the Agency will only allow filtering under certain conditions. The condition agreed to by ASARCO and TNRCC Representatives called for the utilization of filtering groundwater for analysis of total metals

when groundwater turbidity exceeded 10 NTU's. The first sampling event during which the modification was implemented was August 1999.

Comment 7: ASARCO contends that their employee biomonitoring program is an institutional control, which precludes any further remedial action at the Facility to protect employees' health. The TNRCC disagrees with the assessment that monitoring receptors precludes evaluation of exposure pathways for human or ecological exposure. The TNRCC refers ASARCO to the TNRCC's "Consistency Document" for further explanation on this matter and on the implementation of the TNRCC's Risk Reduction Rules.

Response: *The Consistency Document is assumed to be the July 23, 1998 TNRCC Interoffice Memorandum to Remediation Division Staff. Asarco recognizes, generally and in regard to the memorandum, that a baseline risk assessment evaluates present risk in the absence of any proposed controls. Asarco also recognizes that the memorandum does give TNRCC flexibility to account for institutional controls in special circumstances.*

The risk assessment Appendix L, (Hydrometrics 1998) does address on-site exposures in the absence of institutional controls as follows:

- *Figure L-1 indicates that on-site soil exposures are addressed quantitatively.*
- *Table L-4 provides a comparison of on-site soil concentrations with SAI-Ind levels and other benchmark concentrations.*
- *Appendix L, Section 3.2.2. Indicates that "Elevated metals concentrations predominate throughout the investigation areas."*

The RI Report (Section 4.1.1) concludes, based on information regarding the biomonitoring program provided in the Risk Assessment, that despite elevated on-site metals concentrations, there are no present imminent health risks.

Information regarding a biomonitoring program provided in the Risk Assessment is relevant and should be accounted for in the development of Corrective Action Goals and Objectives. These objectives (Section 4.1.2) include: "Reduce the potential for exposure to metals by Facility workers and the public." In addition to the aforementioned biomonitoring program in place at the Facility, the following additional institutional controls are in place to further reduce risk:

- *Hazard communication program.*
- *Personal protective and safety equipment requirements.*
- *Controlled ingress and egress to the Facility.*
- *Facility operation areas are secured with perimeter fencing and 24-hour security.*

ASARCO has evaluated the on-site exposure pathways without undo expense, and is further addressing the issues as required.

APPENDIX B

BACK UP DETAIL FOR COST ESTIMATES,

CORRECTIVE ACTION MEASURES

APPENDIX B

**BACK UP DETAIL FOR COST ESTIMATES,
CORRECTIVE ACTION MEASURES**

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | SUBTOTAL COST |
|---|----------|-----------|---|-------------------------------|--------------------|
| Investigation Area #1 -- Converter Building/Baghouse Area | | | | | |
| <u>Engineering Controls for system leaks</u> | | | | | |
| Engineering controls to reduce or eliminate the occurrence of releases from Operations. | 1 | LS | \$0.00 | \$0.00 | \$4,500.00 |
| <u>Cap Over Excavated Areas</u> | | | | | |
| <i>Assumed percentage of pavement to be repaired/replaced: 80%</i> | | | | | |
| 2" Asphalt Concrete Overlay | 2,133 | SY | \$2.52 | \$5,365.08 | \$1,335.88 |
| Petromat sealant | 2,133 | SY | \$0.54 | \$1,151.81 | \$0.25 |
| Tac oil | 2,133 | SY | \$0.42 | \$900.76 | \$0.48 |
| <u>Air Monitoring/Dust Control</u> | | | | | |
| Dust Control | 1 | WEEKS | \$0.00 | \$2,000.00 | \$2,000.00 |
| Air Monitoring Stations | 1 | WEEKS | \$25.00 | \$500.00 | \$500.00 |
| <u>Drainage Control Features</u> | | | | | |
| Temporary Construction Erosion & Sediment Controls | 1 | LS | \$0.00 | \$5,000.00 | \$5,000.00 |
| Subtotal Base Construction | | | | \$7,442.64 | \$10,401.70 |
| | | | | | \$17,844.35 |
| Mobilization | 1 | LS | | 3.00% | \$535 |
| Texas State Sales Tax | 1 | LS | | 8.25% | \$614 |
| Scope Contingency | 1 | LS | | 30% | \$5,353 |
| Health and Safety Premium <i>(Modified Level D protection)</i> | 1 | LS | | 10% | \$1,040 |
| Subtotal Construction | | | | | \$25,387 |
| QC/Bonds and other Misc. | | | | | |
| Bond and Insurance | | | | 3.00% | \$762 |
| Compliance Testing/Lab Analysis | | | | 2.50% | \$635 |
| Total Other Costs | | | | | \$1,396 |
| Engineering Design/Oversight | | | | | |
| Investigation | | | | 10.00% | \$2,539 |
| Design | | | | 15.00% | \$3,808 |
| Construction Management | | | | 10.00% | \$2,539 |
| Administration/Meetings | | | | 2.50% | \$635 |
| Total Engineering | | | | | \$6,981 |
| Subtotal Remediation Work @ Investigation Area #1 | | | | | \$33,765 |
| Annual Inspections and O&M | | | | | |
| Site Inspections (once per year) | | | Annual Present worth cost (i=0.05, n=15) | \$500 | \$5,190 |
| Annual O&M | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$127 |
| Total Monitoring and O&M | | | | | \$6,507 |
| TOTAL CAPITAL OUTLAY | | | | | \$40,272 |

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CONCEPTUAL COST ESTIMATE SUMMARY TABLE

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT COST | | SUBTOTAL COST | | | | | |
|--|----------|-------|-----------|---|--------------------------|--------------------|--------------------|--|--|--|--|--|
| | | | | | UNIT COST | COST | | | | | | |
| Investigation Area #2 -- Bone Yard/Slag Area | | | | | | | | | | | | |
| <u>Drainage Control Features</u> | | | | | | | | | | | | |
| Construction Erosion & Sediment Controls | 1 | LS | \$0.00 | \$0 | \$5,000.00 | \$5,000 | \$5,000 | | | | | |
| <u>Air Monitoring/Dust Control</u> | | | | | | | | | | | | |
| Dust Control | 8 | WEEKS | \$ - | \$0 | \$ 2,000.00 | \$16,000 | \$16,000 | | | | | |
| Air Monitoring Stations | 8 | WEEKS | \$ 25.00 | \$200 | \$ 500.00 | \$4,000 | \$4,200 | | | | | |
| <u>Excavation</u> | | | | | | | | | | | | |
| Excavate Soils-Category I | 23,712 | CY | \$ - | \$0 | \$ 3.10 | \$73,449 | \$73,449 | | | | | |
| Load and Haul to On-site Repository | 23,712 | CY | \$ - | \$0 | \$ 3.75 | \$88,890 | \$88,890 | | | | | |
| Excavate Slag | 63,843 | CY | \$ - | \$0 | \$ 6.60 | \$421,364 | \$421,364 | | | | | |
| Post-Remedial Soil Sampling | 8.00 | ACRE | \$ 500.00 | \$4,000 | \$ 3,000.00 | \$23,999 | \$27,999 | | | | | |
| Subtotal Base Construction | | | | \$4,200 | | \$632,702 | \$636,901 | | | | | |
| Mobilization | | | | | | | | | | | | |
| Texas State Sales Tax | 1 | LS | | | 3.00% | | \$19,107 | | | | | |
| Scope Contingency | 1 | LS | | | 8.25% | | \$346 | | | | | |
| Health and Safety Premium (Modified Level D protection) | 1 | LS | | | 30% | | \$191,070 | | | | | |
| Subtotal Construction | | | | | | \$63,270.16 | \$910,696 | | | | | |
| Other Misc. Costs | | | | | | | | | | | | |
| Bond and Insurance | | | | | 3.00% | | \$27,321 | | | | | |
| Compliance Testing/Lab Analysis | | | | | 10.00% | | \$91,070 | | | | | |
| Total Other Costs | | | | | | | \$118,390 | | | | | |
| Engineering Design/Oversight | | | | | | | | | | | | |
| Investigation | | | | | 10.00% | | \$91,070 | | | | | |
| Design | | | | | 10.00% | | \$91,070 | | | | | |
| Construction Management | | | | | 10.00% | | \$91,070 | | | | | |
| Administration/Meetings | | | | | 5.00% | | \$45,535 | | | | | |
| Total Engineering | | | | | | | \$318,743 | | | | | |
| Subtotal Remediation Work @ Investigation Area #2 | | | | | | | \$1,347,829 | | | | | |
| Annual Inspections and O&M | | | | | | | | | | | | |
| Site Inspections (once per year) | | | | Annual Present worth cost (i=0.05, n=15) | | \$500 | \$5,190 | | | | | |
| Annual O&M | | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$4,553 | \$47,264 | | | | | |
| Total Monitoring and O&M | | | | | | | \$52,453 | | | | | |
| TOTAL CAPITAL OUTLAY | | | | | | | \$1,400,283 | | | | | |

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CONCEPTUAL COST ESTIMATE SUMMARY TABLE

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | COST | SUBTOTAL COST |
|---|----------|-------|-----------|------------------|-------------------------------|------------------|------------------|
| Investigation Area #3 -- Acid Plants | | | | | | | |
| <u>Engineering Controls for system leaks</u> | | | | | | | |
| Engineering Controls for system leaks | 1 | LS | \$0 | \$0 | \$4,500 | \$4,500 | \$4,500 |
| <u>Demolition/Debris Clean-up</u> | | | | | | | |
| Remove Existing Asphalt Pavement | 4,667 | SY | \$0 | \$0 | \$3 | \$15,811 | \$15,811 |
| Structure Demolition | | | | | | | |
| Modify Existing Sump | 13 | CY | \$0 | \$0 | \$71 | \$945 | \$945 |
| Remove Existing Concrete Sill Wall | 11 | CY | \$0 | \$0 | \$71 | \$787 | \$787 |
| Crush Concrete Slabs/Walls/floors | 24 | CY | \$0 | \$0 | \$113 | \$2,753 | \$2,753 |
| Load and Haul to On-Site Repository | 336 | CY | \$0 | \$0 | \$3.75 | \$1,258 | \$1,258 |
| <u>Excavation</u> | | | | | | | |
| Excavate Soils-Cat I to construct secondary containment | 1,867 | CY | \$0 | \$0 | \$3.10 | \$5,782 | \$5,782 |
| Load and Haul to On-Site Repository | 1,867 | CY | \$0 | \$0 | \$3.75 | \$6,998 | \$6,998 |
| <u>Secondary Containment Walls/sides</u> | | | | | | | |
| Concrete sill wall | 104 | CY | \$133 | \$13,790 | \$91 | \$9,389 | \$23,180 |
| Floor Crack Sealant | 831 | SY | \$2.15 | \$1,787 | \$2.64 | \$2,196 | \$3,983 |
| FML -60 mil (Acid Mist Precip Bldg floor) | 831 | SY | \$ 3.22 | \$2,676 | \$ 0.74 | \$613 | \$3,289 |
| <u>Cap Secondary containment area floors</u> | | | | | | | |
| Site Grading | 1 | ACRES | \$0.00 | \$0 | \$2,640 | \$2,036 | \$2,036 |
| Fine Grade for paving | 4,667 | SY | \$0.00 | \$0 | \$2.64 | \$12,320 | \$12,320 |
| Subgrade Preparation | 4,667 | SY | \$0.00 | \$0 | \$0.30 | \$1,396 | \$1,396 |
| Compacted subgrade base course | 1,244 | CY | \$35.01 | \$43,565 | \$6 | \$7,029 | \$50,594 |
| Geotextile | 3,733 | SY | \$0.84 | \$3,154 | \$0.21 | \$788 | \$3,942 |
| 60 mil HDPE (flexible-FML) | 3,733 | SY | \$ 3.22 | \$12,028 | \$ 0.74 | \$2,756 | \$14,784 |
| Crushed Limestone Aggregate | 622 | CY | \$ 35.01 | \$21,783 | \$ 5.65 | \$3,514 | \$25,297 |
| Asphalt Pavement | 3,733 | SY | \$ 3.26 | \$12,155.73 | \$ 0.70 | \$2,595 | \$14,751 |
| <u>Replace Structures</u> | | | | | | | |
| Modify Existing Acid Plant #2 Sump | 13 | CY | \$133 | \$1,773 | \$91 | \$1,207 | \$2,980 |
| <u>Air Monitoring/Dust Control</u> | | | | | | | |
| Dust Control | 4 | WEEKS | \$0 | \$0 | \$2,000 | \$8,000 | \$8,000 |
| Air Monitoring Stations | 4 | WEEKS | \$25 | \$100 | \$500 | \$2,000 | \$2,100 |
| <u>Drainage Control Features</u> | | | | | | | |
| Temporary Construction Erosion & Sediment Controls | 1 | LS | \$0 | \$0 | \$5,000 | \$5,000 | \$5,000 |
| Subtotal Base Construction | | | | \$112,812 | | \$99,675 | \$212,487 |
| Mobilization | 1 | LS | | | 3.00% | | \$6,375 |
| Texas State Sales Tax | 1 | LS | | | 8.25% | | \$9,307 |
| Scope Contingency | 1 | LS | | | 30% | | \$63,746 |
| Health and Safety Premium | 1 | LS | | | 10% | | \$9,967.53 |
| (Modified Level D protection) | | | | | | | |
| Subtotal Construction | | | | | | \$301,883 | |

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CONCEPTUAL COST ESTIMATE SUMMARY TABLE

| TASK DESCRIPTION | NO UNITS | UNIT | MATERIAL UNIT COST | COST | LABOR AND EQUIPMENT UNIT COST | COST | SUBTOTAL COST |
|--|----------|------|--|--------|-------------------------------|------|-------------------------|
| Investigation Area #3 -- Acid Plants | | | | | | | |
| Other Misc. Costs | | | | | | | |
| Bond and Insurance | | | | 3.00% | | | \$9,056 |
| Compliance Testing/Lab Analysis | | | | 2.50% | | | \$7,547 |
| Total Other Costs | | | | | | | <u>\$16,604</u> |
| Engineering Design/Oversight | | | | | | | |
| Investigation | | | | 10.00% | | | \$30,188 |
| Design | | | | 15.00% | | | \$45,282 |
| Construction Management | | | | 10.00% | | | \$30,188 |
| Administration/Meetings | | | | 2.50% | | | \$7,547 |
| Total Engineering | | | | | | | <u>\$113,206</u> |
| Subtotal Remediation Work @ Investigation Area #3 | | | | | | | |
| | | | | | | | <u>\$431,692</u> |
| Annual Inspections and O&M | | | | | | | |
| Site Inspections (once per year) | | | Annual Present worth cost (i=0.05, n=15) | | \$500 | | \$5,190 |
| Annual O&M | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$1,509 | | \$15,667 |
| Total Monitoring and O&M | | | | | | | <u>\$20,857</u> |
| TOTAL CAPITAL OUTLAY | | | | | | | |
| | | | | | | | <u>\$452,549</u> |

ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | COST | SUBTOTAL COST |
|---|-----------|------------|-----------|------------------|-------------------------------|------------------|------------------|
| Investigation Area #4 -- Front Slope | | | | | | | |
| Air Monitoring/Dust Control | | | | | | | |
| Dust Control | 10 | WEEK | \$0 | \$0 | \$2,000 | \$20,000 | \$20,000 |
| Air Monitoring Stations | 10 | WEEK | \$25 | \$250 | \$500 | \$5,000 | \$5,250 |
| Demolition/Debris Clean-up | | | | | | | |
| Debris Clean-up | 9 | ACRE | \$0 | \$0 | \$5,000 | \$45,593 | \$45,593 |
| Load and Haul to On-Site Repository | 114 | CY | \$0 | \$0 | \$4 | \$428 | \$428 |
| Excavate Soils-Category I | | | | | | | |
| IA-4.1 | 513 | CY | | | | | |
| IA-4.2 | 2,038 | CY | | | | | |
| IA-4.3 | 7,554 | CY | | | | | |
| IA-4.4 | 4,103 | CY | | | | | |
| IA-4.5 | 937 | CY | | | | | |
| IA-4.6 | 2,770 | CY | | | | | |
| IA-4.7 | 6,074 | CY | | | | | |
| Excavate Soils-Category I | 23,989 | CY | \$0 | \$0 | \$3 | \$74,309 | \$74,309 |
| Load and Haul to On-Site Repository | 23,989 | CY | \$0 | \$0 | \$4 | \$89,931 | \$89,931 |
| Post-Remedial Soil Sampling | 5.71 | ACRE | \$500 | \$2,855 | \$3,000 | \$17,127 | \$19,982 |
| Remove and replace RR tracks as needed for soil removal | 4,500 | LF | \$10 | \$46,895 | \$34 | \$151,105 | \$198,000 |
| Backfill Excavated Areas | | | | | | | |
| Provide backfill - on-site source | 23,989 | CY | \$0 | \$0 | \$2 | \$41,799 | \$41,799 |
| Spread/Site Grading | 23,989 | CY | \$0 | \$0 | \$2 | \$41,799 | \$41,799 |
| Place and compact backfill | 23,989 | CY | \$0 | \$0 | \$2 | \$51,932 | \$51,932 |
| Cap and Stabilize Slope | | | | | | | |
| Site Grading/Bench as needed | 6.85 | CRES | \$0 | \$0 | \$2,640 | \$18,090 | \$18,090 |
| Provide backfill - on-site source | 4,179 | CY | \$0 | \$0 | \$4 | \$16,330 | \$16,330 |
| Spread/Site Grading | 6.85 | CRES | \$0 | \$0 | \$2,640 | \$18,090 | \$18,090 |
| Gravel Surfacing | 2,090 | CY | \$35 | \$73,156 | \$6 | \$11,803 | \$84,960 |
| Stabilize Area at Toe of Surface | | | | | | | |
| Site Grading | 3.41 | ACRE | \$0 | \$0 | \$2,640 | \$9,001 | \$9,001 |
| Fine Grade for paving | 16,501.67 | SY \$ - | | \$0 | \$2.64 | \$43,564 | \$43,564 |
| Subgrade Preparation | 16,501.67 | SY \$ - | | \$0 | \$0.30 | \$4,937 | \$4,937 |
| Asphalt Pavement | 16,501.67 | SY \$ 3.26 | | \$53,729 | \$0.70 | \$11,472 | \$65,201 |
| Gravel Surfacing | 228.00 | CY \$ - | | \$0 | \$22.00 | \$5,016 | \$5,016 |
| Utility Issues | | | | | | | |
| Utility Relocations | 15 | EA | \$1,000 | \$15,000 | \$1,000 | \$15,000 | \$30,000 |
| Drainage Control Features | | | | | | | |
| Sump @ US 20 | 1 | LS | \$3,000 | \$3,000 | \$3,000 | \$3,000 | \$6,000 |
| Temporary Construction Erosion & Sediment Controls | 1 | LS | \$0 | \$0 | \$5,000 | \$5,000 | \$5,000 |
| Subtotal Base Construction | | | | \$194,885 | | \$700,326 | \$895,211 |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | SUBTOTAL COST |
|---|----------|------|-----------|---|-------------------------------|--------------------|
| Investigation Area #4 -- Front Slope | | | | | | |
| Mobilization | 1 | LS | | 3.00% | | \$26,856 |
| Texas State Sales Tax | 1 | LS | | 8.25% | | \$16,078 |
| Scope Contingency | 1 | LS | | 30% | | \$268,563 |
| Health and Safety Premium (Modified Level D protection) | 1 | LS | | 10% | | \$70,032.63 |
| Subtotal Construction | | | | | | \$1,276,742 |
| Other Misc. Costs | | | | | | |
| Bond and Insurance | | | | 3.00% | | \$38,302 |
| Compliance Testing/Lab Analysis | | | | 5.00% | | \$63,837 |
| Total Other Costs | | | | | | \$102,139 |
| Engineering Design/Oversight | | | | | | |
| Investigation | | | | 10.00% | | \$127,674 |
| Design | | | | 10.00% | | \$127,674 |
| Construction Management | | | | 5.00% | | \$63,837 |
| Administration/Meetings | | | | 5.00% | | \$63,837 |
| Total Engineering | | | | | | \$383,023 |
| Subtotal Remediation Work @ Investigation Area #4 | | | | | | \$1,761,904 |
| Annual Inspections and O&M | | | | | | |
| Site Inspections (once per year) | | | | Annual Present worth cost (i=0.05, n=15) | \$500 | \$5,190 |
| Annual O&M | | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$6,384 |
| Total Monitoring and O&M | | | | | | \$66,261 |
| | | | | | | \$71,451 |
| TOTAL CAPITAL OUTLAY | | | | | | \$1,833,354 |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | LABOR AND EQUIPMENT COST | SUBTOTAL COST |
|---|----------|-------|-----------|---|-------------------------------|--------------------------|---------------|
| Investigation Area #5 -- Historic Smelter Town | | | | | | | |
| Air Monitoring/Dust Control | | | | | | | |
| Dust Control | 2 | WEEKS | \$0 | \$0 | \$2,000 | \$4,000 | \$4,000 |
| Air Monitoring Stations | 2 | WEEKS | \$25 | \$50 | \$500 | \$1,000 | \$1,050 |
| Excavation | | | | | | | |
| Excavate Soils-Category I | 2,150 | CY | \$0 | \$0 | \$3 | \$6,659 | \$6,659 |
| Load and Haul to On-Site Repository | 2,150 | CY | \$0 | \$0 | \$4 | \$8,060 | \$8,060 |
| Post-Remedial Soil Sampling | 7.61 | ACRE | \$500 | \$3,806 | \$3,000 | \$22,833 | \$26,639 |
| Provide backfill - on-site source | 2,150 | CY | \$0 | \$0 | \$2 | \$3,746 | \$3,746 |
| Place and compact backfill | 2,150 | CY | \$0 | \$0 | \$2 | \$4,654 | \$4,654 |
| Seed, Fertilize & Mulch | 7.61 | ACRE | \$410 | \$3,118 | \$1,147 | \$8,730 | \$11,848 |
| Deep Till | 7.61 | ACRE | \$0 | \$0 | \$1,193 | \$9,077 | \$9,077 |
| Replace Structures | | | | | | | |
| Remove and Reset Existing Fence | 1,500 | LF | \$0 | \$0 | \$14 | \$21,120 | \$21,120 |
| Drainage Control Features | | | | | | | |
| Temporary Construction Erosion & Sediment Controls | 1 | LS | \$0 | \$0 | \$5,000 | \$5,000 | \$5,000 |
| Subtotal Base Construction | | | | \$ 6,974 | \$ 94,879 | \$ 101,853 | |
| Mobilization | 1 | LS | | | 3.00% | | \$3,056 |
| Texas State Sales Tax | 1 | LS | | | 8.25% | | \$575 |
| Scope Contingency | 1 | LS | | | 30% | | \$30,556 |
| Health and Safety Premium (Modified Level D protection) | 1 | LS | | | 10% | | \$9,488 |
| Subtotal Construction | | | | | | \$145,528 | |
| Other Misc. Costs | | | | | | | |
| Bond and Insurance | | | | | 3.00% | | \$4,366 |
| Compliance Testing/Lab Analysis | | | | | 2.50% | | \$3,638 |
| Total Other Costs | | | | | | | \$8,004 |
| Engineering Design/Oversight | | | | | | | |
| Investigation | | | | | 10.00% | | \$14,553 |
| Design | | | | | 10.00% | | \$14,553 |
| Construction Management | | | | | 10.00% | | \$14,553 |
| Administration/Meetings | | | | | 2.50% | | \$3,638 |
| Total Engineering | | | | | | | \$47,297 |
| Subtotal Remediation Work @ Investigation Area #5 | | | | | | \$200,828 | |
| Annual Inspections and O&M | | | | | | | |
| Site Inspections (once per year) | | | | Annual Present worth cost (i=0.05, n=15) | | \$500 | \$5,190 |
| Annual O&M | | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$728 | \$7,553 |
| Total Monitoring and O&M | | | | | | | \$12,742 |
| TOTAL CAPITAL OUTLAY | | | | | | \$213,571 | |

ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | COST | SUBTOTAL COST |
|--|----------|------|-----------|---------------|-------------------------------|---------------------|------------------|
| Investigation Area #6 -- Groundwater Issues | | | | | | | |
| Investigation Area #7 -- Surface Water Issues | | | | | | | |
| ANNUAL LONG-TERM MONITORING | | | | | | | |
| Groundwater Monitoring (4 events per year) | | | | | | | |
| Labor | 900 | HR | | \$0 | \$65 | \$58,500 | \$58,500 |
| Equipment | 4 | LS | | \$0 | \$1,200 | \$4,800 | \$4,800 |
| Lab analysis | 400 | EA | | \$0 | \$260 | \$104,000 | \$104,000 |
| Report | 120 | HR | | \$0 | \$75 | \$9,000 | \$9,000 |
| Well Maintenance | 100 | EA | | \$0 | \$100 | \$10,000 | \$10,000 |
| Surface Water Monitoring (4 events per year) | | | | | | | |
| Labor | 120 | HR | | \$0 | \$65 | \$7,800 | \$7,800 |
| Equipment | 4 | LS | | \$0 | \$600 | \$2,400 | \$2,400 |
| Lab analysis | 48 | EA | | \$0 | \$260 | \$12,480 | \$12,480 |
| Report | 96 | HR | | \$0 | \$75 | \$7,200 | \$7,200 |
| Subtotal Base Monitoring Services | | | | \$0 | | \$216,180 | \$216,180 |
| Scope Contingency | 1 | LS | | | 30% | | \$64,854 |
| Subtotal Annual Long-Term Monitoring | | | | | | | |
| Present worth cost (i=0.05, n=15) | | | | | Present worth cost | \$ 2,917,037 | |

ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | COST | SUBTOTAL COST |
|--|----------|------|-----------|--------------------|-------------------------------|---------------------|---------------------|
| Investigation Area #8 -- Bedding and Unloading Facility | | | | | | | |
| Air Monitoring/Dust Control | | | | | | | |
| Dust Control | 8 | WEEK | \$0 | \$0 | \$2,000 | \$16,000 | \$16,000 |
| Air Monitoring Stations | 8 | WEEK | \$25 | \$200 | \$500 | \$4,000 | \$4,200 |
| Structure Demolition | | | | | | | |
| Remove Existing Asphalt Pavement | 5,500 | SY | \$0 | \$0 | \$3 | \$18,635 | \$18,635 |
| Structure Demolition | | | | | | | |
| Existing Control Structures | 10 | CY | \$0 | \$0 | \$71 | \$708 | \$708 |
| Other | 10 | CY | \$0 | \$0 | \$71 | \$708 | \$708 |
| Crush Concrete Slabs/Walls/floors | 20 | CY | \$0 | \$0 | \$113 | \$2,253 | \$2,253 |
| Load and Haul to On-Site Repository | 478 | CY | \$0 | \$0 | \$4 | \$1,793 | \$1,793 |
| Remove Railroad Tracks and Reinstall | 12,600 | LF | \$10 | \$131,305 | \$34 | \$423,095 | \$554,400 |
| Remove & Replace Elevated Railroad Tracks | 2,000 | LF | \$10 | \$20,842 | \$34 | \$67,158 | \$88,000 |
| Excavation | | | | | | | |
| Excavate Soils for RR pad installation | 4,667 | CY | \$0 | \$0 | \$3 | \$14,455 | \$14,455 |
| Grade under asphalt cap area | 4,667 | CY | \$0 | \$0 | \$4 | \$18,234 | \$18,234 |
| Compacted Backfill | | | | | | | |
| Provide backfill - on-site source | 0 | CY | \$0 | \$0 | \$2 | \$0 | \$0 |
| Provide backfill - imported | 0 | CY | \$7 | \$0 | \$1 | \$0 | \$0 |
| Place and compact backfill | 0 | CY | \$0 | \$0 | \$2 | \$0 | \$0 |
| Area Cap | | | | | | | |
| Site Grading | 11 | ACRE | \$0.00 | \$0 | \$2,640.00 | \$30,002 | \$30,002 |
| Compacted Subgrade (road mix) | 14,601 | CY | \$35.01 | \$511,145 | \$5.65 | \$82,471 | \$593,616 |
| Subgrade Preparation | 43,803 | SY | \$0.00 | \$0 | \$0.30 | \$13,106 | \$13,106 |
| 60 mil HDPE (flexible-FML) | 43,803 | SY | \$3.22 | \$141,128 | \$0.74 | \$32,331 | \$173,459 |
| Geotextile | 43,803 | SY | \$1.34 | \$58,682 | \$0.23 | \$9,931 | \$68,613 |
| Crushed Limestone Aggregate | 7,300 | CY | \$0.00 | \$0 | \$22.00 | \$160,610 | \$160,610 |
| Subgrade Preparation | 43,803 | SY | \$0.00 | \$0 | \$0.30 | \$13,106 | \$13,106 |
| Fine Grade for paving | 43,803 | SY | \$0.00 | \$0 | \$2.64 | \$115,639 | \$115,639 |
| Asphalt Pavement | 3,650 | CY | \$2.52 | \$9,181 | \$0.63 | \$2,286 | \$11,468 |
| Concrete ballast under RR tracks | 4,667 | CY | \$93.72 | \$437,346 | \$7.92 | \$36,974 | \$474,320 |
| Drainage Control Features | | | | | | | |
| Temporary Construction Erosion & Sediment Controls | 1 | LS | \$0 | \$0 | \$5,000 | \$5,000 | \$5,000 |
| Enlarge Sump | 10 | CY | \$133 | \$1,330 | \$91 | \$905 | \$2,235 |
| Drainage improvements/grading | 1.14 | CY | \$0 | \$0 | \$2,640 | \$3,000 | \$3,000 |
| Surface Water Control Structures | 1 | LS | \$3,000 | \$3,000 | \$3,000 | \$3,000 | \$6,000 |
| Subtotal Base Construction | | | | \$1,314,160 | | \$ 1,075,401 | \$ 2,389,561 |
| Mobilization | | | | | | | |
| | 1 | LS | | | 3.00% | | \$71,687 |
| Texas State Sales Tax | | | | | | | |
| | 1 | LS | | | 8.25% | | \$108,418 |
| Scope Contingency | | | | | | | |
| | 1 | LS | | | 30% | | \$716,868 |
| Health and Safety Premium | | | | | | | |
| (Modified Level D protection) | 1 | LS | | | 10% | | \$107,540 |
| Subtotal Construction | | | | | | \$ 3,394,074 | |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | SUBTOTAL COST |
|--|----------|------|-----------|--|-------------------------------|------------------|
| Investigation Area #8 -- Bedding and Unloading Facility | | | | | | |
| Other Misc. Costs | | | | | | |
| Bond and Insurance | | | | 3.00% | | \$101,822 |
| Compliance Testing/Lab Analysis | | | | 2.50% | | \$84,852 |
| Total Other Costs | | | | | | <u>\$186,674</u> |
| Engineering Design/Oversight | | | | | | |
| Investigation | | | | 3.00% | | \$101,822 |
| Design | | | | 7.00% | | \$237,585 |
| Construction Management | | | | 2.50% | | \$84,852 |
| Administration/Meetings | | | | 0.50% | | \$16,970 |
| Total Engineering | | | | | | <u>\$441,230</u> |
| Subtotal Remediation Work @ Investigation Area #8 | | | | | | |
| Annual Inspections and O&M | | | | | | |
| Site Inspections (once per year) | | | | Annual Present worth cost (i=0.05, n=15) | \$500 | \$5,190 |
| Annual O&M | | | | Annual Present worth cost (i=0.05, n=15) | 0.25% | \$8,485 |
| Total Monitoring and O&M | | | | | | <u>\$93,263</u> |
| TOTAL CAPITAL OUTLAY | | | | | | |
| <u>\$4,115,241</u> | | | | | | |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | COST | SUBTOTAL COST |
|---|---------------|-------|-----------|---------------|-------------------------------|------------------|--------------------|
| Investigation Area #9 -- Ponds 1, 5 and 6 (On-Site Repository - OSR) | | | | | | | |
| Air Monitoring/Dust Control | | | | | | | |
| Dust Control | 15 | WEEKS | \$0 | \$0 | \$2,000 | \$30,000 | \$30,000 |
| Air Monitoring Stations | 15 | WEEKS | \$25 | \$375 | \$500 | \$7,500 | \$7,875 |
| Structure Demolition | | | | | | | |
| Remove structures and piping in Pond 1 | 1 | LS | \$500 | \$500 | \$4,500 | \$4,500 | \$5,000 |
| Remove structures and piping in Pond 5 | 1 | LS | \$500 | \$500 | \$4,500 | \$4,500 | \$5,000 |
| Remove structures and piping in Pond 6 | 1 | LS | \$500 | \$500 | \$4,500 | \$4,500 | \$5,000 |
| Excavate Sediments | | | | | | | |
| Pond 1 | 9,765 | CY | | | | | |
| Pond 5 | 4,903 | CY | | | | | |
| Pond 6 | <u>13,177</u> | CY | | | | | |
| Excavate Soils-Category I | 27,846 | CY | \$0 | \$0 | \$3.10 | \$86,255 | \$86,255 |
| Haul to Drying Area | 27,846 | CY | \$0 | \$0 | 3.75 | \$104,388 | \$104,388 |
| Prepare Sediment Air dry pad | 1 | ACRE | \$ - | \$0 | \$2,640.00 | \$2,727 | \$2,727 |
| Air Dry Sediments | 27,846 | CY | \$0 | \$0 | \$2.47 | \$68,857 | \$68,857 |
| Load and Haul to On-Site Repository | 27,846 | CY | \$0 | \$0 | \$3.07 | \$85,519 | \$85,519 |
| Volume Placed in OSR | | | | | | | |
| Excavated soils | 156,384 | CY | | | | | |
| Demolition Debris | <u>1,000</u> | CY | | | | | |
| Compact Volume Placed in On-Site Repository | 157,384 | CY | \$ - | \$0 | 2.16 | \$340,705 | \$340,705 |
| On-Site Repository (includes all 3 ponds) | | | | | | | |
| Excavate to Subgrade Elevations | 85,508 | CY | \$ - | \$0 | \$3.10 | \$264,870 | \$264,870 |
| Place Excavated Material in Stockpile | 85,508 | CY | \$ - | \$0 | 2.47 | \$211,444 | \$211,444 |
| Bottom Preparation | | | | | | | |
| Site Grading | 6.1 | ACRE | \$ - | \$0 | \$2,640.00 | \$15,998 | \$15,998 |
| Prep Subgrade (compact w/ sheep's foot roller) | 29,330 | SY | \$ - | \$0 | 0.30 | \$8,776 | \$8,776 |
| Bottom Liner | | | | | | | |
| Subgrade Preparation for GCL | 29,330 | SY | \$ - | \$0 | 2.64 | \$77,431 | \$77,431 |
| GCL | 29,330 | SY | \$1.76 | \$51,621 | \$1.41 | \$41,297 | \$92,917 |
| 12 " Gravel Layer | 9,777 | CY | \$12.41 | \$121,319 | \$1.51 | \$14,787 | \$136,107 |
| Geotextile | 29,330 | SY | \$1.34 | \$39,293 | 0.23 | \$6,650 | \$45,943 |
| Leachate collection piping | 1,472 | CY | \$9.95 | \$14,646 | \$4.00 | \$5,887 | \$20,533 |
| Leachate collection sump | 3 | SY | \$2,000 | \$6,000 | \$2,000 | \$6,000 | \$12,000 |
| Cap | | | | | | | |
| Place Asphalt Pavement | 27,933 | SY | \$ 3.26 | \$90,951 | \$ 0.70 | \$19,419 | \$110,370 |
| Fine Grade for paving | 27,933 | SY | \$ - | \$0 | 2.64 | \$73,744 | \$73,744 |
| Subgrade Preparation | 27,933 | SY | \$ - | \$0 | 0.30 | \$8,358 | \$8,358 |
| Base Course | 4,656 | CY | \$35 | \$162,980 | \$6 | \$26,296 | \$189,276 |
| Fine Grade for Base Course | 27,933 | SY | \$ - | \$0 | 2.64 | \$73,744 | \$73,744 |
| Geotextile | 27,933 | SY | \$1.34 | \$37,422 | \$1.75 | \$48,883 | \$86,305 |
| Base Course | 4,656 | CY | \$ 35 | \$162,980 | 6 | \$26,296 | \$189,276 |
| Geotextile | 27,933 | SY | \$1.34 | \$37,422 | \$1.75 | \$48,883 | \$86,305 |
| Cap - GCL or 60 mil HDPE (flexible-FML) | 27,933 | SY | \$1.76 | \$49,163 | \$3.25 | \$90,783 | \$139,946 |
| Cap Lateral Drainage collection piping | 3,740 | LF | \$10 | \$37,218 | \$4.00 | \$14,960 | \$52,178 |
| Cap Lateral Drainage sump | 3 | EA | \$2,000 | \$6,000 | \$2,000 | \$6,000 | \$12,000 |
| Drainage Control Features | | | | | | | |
| Temporary Construction Erosion & Sediment Controls | 3 | LS | \$0 | \$0 | \$5,000 | \$15,000 | \$15,000 |
| Connect Sumps to plant surface water system | 3 | EA | \$3,000 | \$9,000 | \$3,000 | \$9,000 | \$18,000 |
| Subtotal Base Construction | | | | | | \$827,890 | \$1,853,957 |
| | | | | | | | \$2,681,847 |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | SUBTOTAL COST |
|---|----------|-----------|---|-------------------------------|---------------------|
| Investigation Area #9 -- Ponds 1, 5 and 6 (On-Site Repository - OSR) | | | | | |
| Mobilization | 1 | LS | | 3.00% | \$80,455 |
| Texas State Sales Tax | 1 | LS | | 8.25% | \$ 68,301 |
| Scope Contingency | 1 | LS | | 30% | \$ 804,554 |
| Health and Safety Premium (Modified Level D protection) | 1 | LS | | 10% | \$ 185,396 |
| Subtotal Construction | | | | | \$ 3,820,554 |
| Other Misc. Costs | | | | | |
| Bond and Insurance | | | 1.50% | | \$57,308 |
| Compliance Testing/Lab Analysis | | | 2.50% | | \$95,514 |
| Total Other Costs | | | | | \$152,822 |
| Engineering Design/Oversight | | | | | |
| Investigation | | | 3.00% | | \$114,617 |
| Design | | | 7.00% | | \$267,439 |
| Construction Management | | | 5.00% | | \$191,028 |
| Administration/Meetings | | | 1.00% | | \$38,206 |
| Total Engineering | | | | | \$611,289 |
| Subtotal Remediation Work @ Investigation Area #9 | | | | | \$4,584,665 |
| Annual Inspections and O&M | | | | | |
| Site Inspections (once per year) | | | Annual Present worth cost (i=0.05, n=15) | \$500 | \$5,190 |
| Annual O&M | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$19,103 |
| Total Monitoring and O&M | | | | | \$198,280 |
| TOTAL CAPITAL OUTLAY | | | | | \$203,470 |
| | | | | | \$4,788,135 |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT COST | | SUBTOTAL COST |
|---|----------|------|-------------|---|--------------------------|-----------------|-----------------|
| | | | | | UNIT COST | COST | |
| Investigation Area #10 -- Plant Entrance | | | | | | | |
| Drainage Control Features | | | | | | | |
| Landscaping Improvements | 0.43 | ACRE | \$ 2,000.00 | \$851 | \$ 5,000.00 | \$2,128 | \$2,979 |
| Temporary Construction Erosion & Sediment Controls | 1 | LS | \$0 | \$0 | \$5,000 | \$5,000 | \$5,000 |
| | | | | | | | |
| Subtotal Base Construction | | | | \$ 851 | | \$ 7,128 | \$ 7,979 |
| Mobilization | | 1 | LS | | 3.00% | | \$239 |
| Texas State Sales Tax | | 1 | LS | | 8.25% | | \$70 |
| Scope Contingency | | 1 | LS | | 30% | | \$2,394 |
| Health and Safety Premium (Modified Level D protection) | | 1 | LS | | 10% | | \$798 |
| | | | | | | | |
| Subtotal Construction | | | | | | | \$11,480 |
| Other Misc. Costs | | | | | | | |
| Bond and Insurance | | | | | 3.00% | | \$344 |
| Compliance Testing/Lab Analysis | | | | | 2.50% | | \$287 |
| Total Other Costs | | | | | | | \$631 |
| Engineering Design/Oversight | | | | | | | |
| Design | | | | | 15.00% | | \$1,722 |
| Construction Management | | | | | 2.50% | | \$287 |
| Administration/Meetings | | | | | 2.50% | | \$287 |
| Total Engineering | | | | | | | \$2,296 |
| | | | | | | | |
| Subtotal Remediation Work @ Investigation Area #5 | | | | | | | \$14,407 |
| Annual Inspections and O&M | | | | | | | |
| Site Inspections (once per year) | | | | Annual Present worth cost (i=0.05, n=15) | | \$500 | \$5,190 |
| Annual O&M | | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$57 | \$596 |
| Total Monitoring and O&M | | | | | | | \$5,786 |
| | | | | | | | |
| TOTAL CAPITAL OUTLAY | | | | | | | \$20,193 |

ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE

| TASK DESCRIPTION | NO UNITS | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | SUBTOTAL COST |
|--|-----------|--------------|----------------------|-------------------------------|------------------|
| Investigation Area #11 -- East of I-10 Arroyos (Asarco Property) | | | | | |
| Air Monitoring/Dust Control | | | | | |
| Dust Control | 8 WEEK | \$ - | \$0 \$ 2,000.00 | \$16,000 | \$16,000 |
| Air Monitoring Stations | 8 WEEK | \$ 25.00 | \$200 \$ 500.00 | \$4,000 | \$4,200 |
| Old unlined process material and equipment storage area (South Arroyos) | | | | | |
| Debris Clean-up | | | | | |
| Debris Clean-up | 0.99 AC | \$ - | \$0 \$ 510.40 | \$503 | \$503 |
| Load and Haul to Staging Area | 20 CY | \$ - | \$0 \$ 2.47 | \$49 | \$49 |
| Slag Consolidation | | | | | |
| Remove and replace Power Pole (Temporary Reset) | 1 EA | \$ 582.45 | \$582 \$ 517.55 | \$518 | \$1,100 |
| Excavate Slag Piles - South | 2,000 CY | \$ - | \$0 \$ 6.60 | \$13,200 | \$13,200 |
| Excavate Slag Piles - North | 2,000 CY | \$ - | \$0 \$ 6.60 | \$13,200 | \$13,200 |
| Load and Haul to Parker Bros | 4,000 CY | \$ - | \$0 \$ 3.75 | \$14,995 | \$14,995 |
| Site Grading | 10 AC | \$ - | \$0 \$ 2,640.00 | \$25,344 | \$25,344 |
| Reclaim Existing Landfills (North Arroyos) | | | | | |
| Debris Clean-up | | | | | |
| Debris Clean-up | 7 AC | \$ - | \$0 \$ 255.20 | \$1,784 | \$1,784 |
| Load and Haul to Staging Area | 140 CY | \$ - | \$0 \$ 2.47 | \$346 | \$346 |
| Excavation | | | | | |
| Excavate Soils-Category I | 3,179 CY | \$ - | \$0 \$ 3.10 | \$9,847 | \$9,847 |
| Load and Haul to On-Site Repository | 3,179 CY | \$ - | \$0 \$ 3.75 | \$11,917 | \$11,917 |
| Post-Remedial Soil Sampling | 1 LS | \$ 500.00 | \$500 \$ 3,000.00 | \$3,000 | \$3,500 |
| Provide backfill - on-site source | 3,179 CY | \$ - | \$0 \$ 1.74 | \$5,539 | \$5,539 |
| Place and compact backfill | 3,179 CY | \$ - | \$0 \$ 2.16 | \$6,882 | \$6,882 |
| Install Cap over Existing Landfill | | | | | |
| Vegetative Cover | 7 AC | \$ 409.66 | \$2,863 \$ 1,147.06 | \$8,017 | \$10,881 |
| Soil Cap-Place and Compact | 16,915 CY | \$ 12.78 | \$216,119 \$ 0.91 | \$15,343 | \$231,462 |
| Soil Cap-Haul | 16,915 CY | \$ - | \$0 \$ 1.09 | \$18,457 | \$18,457 |
| Soil Cap-Provide Borrow on-site | 16,915 CY | \$ - | \$0 \$ 2.47 | \$41,827 | \$41,827 |
| Geotextile | 33,830 SY | \$ 1.34 | \$45,321 \$ 0.23 | \$7,670 | \$52,991 |
| 12 " Gravel Layer | 11,277 CY | \$ 12.41 | \$139,931 \$ 1.51 | \$17,056 | \$156,987 |
| Geotextile | 33,830 SY | \$ 1.34 | \$45,321 \$ 0.23 | \$7,670 | \$52,991 |
| 60 mil HDPE (flexible-FML) | 33,830 SY | \$ 3.22 | \$108,995 \$ 0.74 | \$24,970 | \$133,965 |
| Subgrade Preparation | 33,830 SY | \$ - | \$0 \$ 0.30 | \$10,122 | \$10,122 |
| Site Grading | 7 AC | \$ - | \$0 \$ 2,640.00 | \$18,453 | \$18,453 |
| Cap Lateral Drainage collection piping | 1,398 LF | \$ 9.95 | \$13,911 \$ 4.68 | \$6,546 | \$20,458 |
| Cap Lateral Drainage sump | 1 LS | \$ 2,000.00 | \$2,000 \$ 2,000.00 | \$2,000 | \$4,000 |
| Transport to Disposal Site/Disposal Fees | | | | | |
| Subtitle D Landfill Facility-dump charges | | | | | |
| Trees, brush, lumber | 250 TON | \$ - | \$0 \$ 40.00 | \$10,000 | \$10,000 |
| Rubbish only | 250 TON | \$ - | \$0 \$ 45.00 | \$11,250 | \$11,250 |
| Drainage Control Features | | | | | |
| Temporary Construction Erosion & Sediment Controls | 1 O | \$ - | \$0 \$ 5,000.00 | \$5,000 | \$5,000 |
| Drainage Control Features | 1 LS | \$ 10,000.00 | \$10,000 \$ 5,000.00 | \$5,000 | \$15,000 |
| Subtotal Base Construction | | | | \$585,745 | \$336,504 |
| | | | | | \$922,249 |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT COST | SUBTOTAL COST |
|---|----------|-----------|---|--------------------------|---------------------------|
| Investigation Area #11 -- East of I-10 Arroyos (Asarco Property) | | | | | |
| Mobilization | 1 | LS | | 3.00% | \$27,667 |
| Texas State Sales Tax | 1 | LS | | 8.25% | \$48,324 |
| Scope Contingency | 1 | LS | | 30.00% | \$276,675 |
| Health and Safety Premium (Modified Level D protection) | 1 | LS | | 10.00% | \$33,650.42 |
| Subtotal Construction | | | | | <u>\$1,308,566</u> |
| Other Misc. Costs | | | | | |
| Bond and Insurance | | | | 3.00% | \$39,257 |
| Compliance Testing/Lab Analysis | | | | 5.00% | \$65,428 |
| Total Other Costs | | | | | <u>\$104,685</u> |
| Engineering Design/Oversight | | | | | |
| Investigation | | | | 5.00% | \$65,428 |
| Design | | | | 10.00% | \$130,857 |
| Construction Management | | | | 5.00% | \$65,428 |
| Administration/Meetings | | | | 2.50% | \$32,714 |
| Total Engineering | | | | | <u>\$294,427</u> |
| Subtotal Remediation Work @ Investigation Area #10 | | | | | <u>\$1,707,679</u> |
| Annual Inspections and O&M | | | | | |
| Site Inspections (once per year) | | | Annual Present worth cost (i=0.05, n=15) | \$500 | \$5,190 |
| Annual O&M | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$6,543 |
| Total Monitoring and O&M | | | | | <u>\$73,102</u> |
| TOTAL CAPITAL OUTLAY | | | | | <u>\$1,780,781</u> |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT COST | SUBTOTAL COST | | | | |
|--|----------|---------|-----------|------------------|--------------------------|------------------|--|--|--|--|
| | | | | UNIT COST | COST | | | | | |
| Investigation Area #12 -- Ephemeral Pond/Pond Sediment Storage Area | | | | | | | | | | |
| Air Monitoring/Dust Control | | | | | | | | | | |
| Dust Control | 12 | WEEK \$ | - | \$0 \$ | 2,000.00 | \$24,000 | | | | |
| Air Monitoring Stations | 12 | WEEK \$ | 25.00 | \$300 \$ | 500.00 | \$6,000 | | | | |
| Demolition/Debris Clean-up | | | | | | | | | | |
| Debris Clean-up (light) | 10.00 | ACRE \$ | - | \$0 \$ | 255.20 | \$2,552 | | | | |
| Load and Haul to On-Site Repository | 100.00 | CY \$ | - | \$0 \$ | 3.75 | \$375 | | | | |
| Excavation | | | | | | | | | | |
| Sediment Stockpile | 15,496 | CY \$ | - | \$0 \$ | 3.10 | \$48,000 | | | | |
| Excavate Soils-Category I | 6,794 | CY \$ | - | \$0 \$ | 3.10 | \$21,046 | | | | |
| Load and Haul to On-Site Repository | 22,290 | CY \$ | - | \$0 \$ | 3.75 | \$83,562 | | | | |
| Post-Remedial Soil Sampling | 1.92 | ACRE \$ | 500.00 | \$960 \$ | 3,000.00 | \$5,763 | | | | |
| Excavate lined impoundment | 35,556 | CY \$ | - | \$0 \$ | 2.07 | \$73,529 | | | | |
| Haul Excavated soil from impoundment | 35,556 | CY \$ | - | \$0 \$ | 2.47 | \$87,922 | | | | |
| Line Impoundment | 4,889 | SY \$ | 3.22 | \$15,751 \$ | 0.74 | \$3,609 | | | | |
| Culverts under RR tracks | 2 | EACH \$ | 10,000.00 | \$20,000 \$ | 5,000.00 | \$10,000 | | | | |
| Concrete channels and drainage controls | 1,630 | CY \$ | 132.98 | \$216,707 \$ | 90.54 | \$147,548 | | | | |
| Site grade for structures | 5,333 | SY \$ | - | \$0 \$ | 2.64 | \$14,080 | | | | |
| Cover Soil site graded area | | | | | | | | | | |
| Site Grading | 1.92 | ACRE \$ | - | \$0 \$ | 2,640.00 | \$5,071 | | | | |
| Stabilize Surface | | | | | | | | | | |
| Site Grading | 8.00 | ACRE \$ | - | \$0 \$ | 2,640.00 | \$21,120 | | | | |
| Culverts under RR tracks | 2.00 | LS \$ | 10,000.00 | \$20,000 \$ | 5,000.00 | \$10,000 | | | | |
| Surface Water Drainage Improvements | 1.00 | LS \$ | 10,000.00 | \$10,000 \$ | 5,000.00 | \$5,000 | | | | |
| Seed, Fertilize & Mulch | 8.00 | ACRE \$ | 409.66 | \$3,277 \$ | 1,147.06 | \$9,176 | | | | |
| Drainage Control Features | | | | | | | | | | |
| Temporary Construction Erosion & Sediment Controls | 1 | LS \$ | - | \$0 \$ | 5,000.00 | \$5,000 | | | | |
| Subtotal Base Construction | | | | \$286,996 | \$583,353 | \$870,350 | | | | |
| Mobilization | | | | | | | | | | |
| | 1 | LS | | | 3.00% | \$26,110 | | | | |
| Texas State Sales Tax | | | | | | | | | | |
| | 1 | LS | | | 8.25% | \$23,677 | | | | |
| Scope Contingency | | | | | | | | | | |
| | 1 | LS | | | 30.00% | \$261,105 | | | | |
| Health and Safety Premium | | | | | | | | | | |
| (Modified Level D protection) | 1 | LS | | | 10.00% | \$58,335.32 | | | | |
| Subtotal Construction | | | | | \$1,239,577 | | | | | |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT COST | SUBTOTAL COST | | | |
|--|----------|-----------|---|--------------------------|--------------------|--|--|--|
| | | | UNIT COST | COST | | | | |
| Investigation Area #12 -- Ephemeral Pond/Pond Sediment Storage Area | | | | | | | | |
| Other Misc. Costs | | | | | | | | |
| Bond and Insurance | | | 3.00% | | \$37,187 | | | |
| Compliance Testing/Lab Analysis | | | 2.50% | | \$30,989 | | | |
| Total Other Costs | | | | | \$68,177 | | | |
| Engineering Design/Oversight | | | | | | | | |
| Investigation | | | 5.00% | | \$61,979 | | | |
| Design | | | 15.00% | | \$185,937 | | | |
| Construction Management | | | 5.00% | | \$61,979 | | | |
| Administration/Meetings | | | 2.50% | | \$30,989 | | | |
| Total Engineering | | | | | \$340,884 | | | |
| Subtotal Remediation Work @ Investigation Area #12 | | | | | | | | |
| | | | | | \$1,648,638 | | | |
| Annual Inspections and O&M | | | | | | | | |
| Site Inspections (once per year) | | | Annual Present worth cost (i=0.05, n=15) | \$500 | \$5,190 | | | |
| Annual O&M | | | Annual Present worth cost (i=0.05, n=15) | 0.50% \$6,198 | \$64,332 | | | |
| Total Monitoring and O&M | | | | | \$69,522 | | | |
| TOTAL CAPITAL OUTLAY | | | | | | | | |
| | | | | | \$1,718,160 | | | |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | COST | SUBTOTAL COST |
|--|----------|-------|-----------|-------------------|-------------------------------|------------------|------------------|
| Investigation Area #13 -- Sample Mill Area (Chlorine Leaching Operation Area) | | | | | | | |
| Air Monitoring/Dust Control | | | | | | | |
| Dust Control | 6 | WEEK | \$ - | \$0 \$ 2,000.00 | \$12,000 | | \$12,000 |
| Air Monitoring Stations | 6 | WEEK | \$ 25.00 | \$150 \$ 500.00 | \$3,000 | | \$3,150 |
| Demolition/Debris Clean-up | | | | | | | |
| Remove Railroad Tracks | 750 | LF | \$ - | \$0 \$ 22.88 | \$17,160 | | \$17,160 |
| Remove Existing Asphalt Pavement | 3,779 | SY | \$ - | \$0 \$ 3.39 | \$12,804 | | \$12,804 |
| Structure Demolition | | | | | | | |
| Modify Existing Sump | 13 | CY | \$ - | \$0 \$ 70.84 | \$921 | | \$921 |
| Load Asphalt and Haul to On-Site Repository | 353 | CY | \$ - | \$0 \$ 3.75 | \$1,323 | | \$1,323 |
| Load Cat I Materials and Haul to On-Site Repository | 7,873 | CY | \$ - | \$0 \$ 3.75 | \$29,515 | | \$29,515 |
| Excavation | | | | | | | |
| Excavate Soils-Category I | 7,873 | CY | \$ - | \$0 \$ 3.10 | \$24,388 | | \$24,388 |
| Load and Haul to On-Site Repository | 7,873 | CY | \$ - | \$0 \$ 3.75 | \$29,515 | | \$29,515 |
| Post-Remedial Soil Sampling | 0.98 | ACRES | \$ 500.00 | \$488 \$ 3,000.00 | \$2,928 | | \$3,416 |
| Cap Area | | | | | | | |
| Site Grading | 0.98 | ACRES | \$ - | \$0 \$ 2,640.00 | \$2,577 | | \$2,577 |
| Fine Grade for paving | 4,724 | SY | \$ - | \$0 \$ 2.64 | \$12,471 | | \$12,471 |
| Subgrade Preparation | 4,724 | SY | \$ - | \$0 \$ 0.30 | \$1,413 | | \$1,413 |
| Compacted subgrade base course | 4,724 | SY | \$ - | \$0 \$ 0.42 | \$1,995 | | \$1,995 |
| Crushed Limestone Aggregate | 787 | CY | \$ - | \$0 \$ 22.00 | \$17,321 | | \$17,321 |
| Asphalt Pavement | 4,724 | SY | \$ 3.26 | \$15,381 \$ 0.70 | \$3,284 | | \$18,665 |
| Replace Structures | | | | | | | |
| Concrete ballast under RR tracks | 222 | CY | \$ 132.98 | \$29,551 \$ 90.54 | \$20,120 | | \$49,671 |
| Modify Existing Sample Mill Sump | 13 | CY | \$ - | \$0 \$ 70.84 | \$921 | | \$921 |
| Reinstall Railroad Tracks | 750 | LF | \$ 10.42 | \$7,816 \$ 33.58 | \$25,184 | | \$33,000 |
| Engineering Controls for system leaks | | | | | | | |
| Engineering Controls for system leaks | 1 | LS | \$ - | \$0 \$ 4,500.00 | \$4,500 | | \$4,500 |
| Drainage Control Features | | | | | | | |
| Temporary Construction Erosion & Sediment Controls | 1 | LS | \$ 5,000 | \$5,000 \$ 5,000 | \$5,000 | | \$10,000 |
| Subtotal Base Construction | | | | \$58,386 | | \$228,340 | \$286,725 |
| Mobilization | | | | | | | |
| Texas State Sales Tax | 1 | LS | | | 3.00% | | \$8,602 |
| Scope Contingency | 1 | LS | | | 8.25% | | \$4,817 |
| Health and Safety Premium (Modified Level D protection) | 1 | LS | | | 30.00% | | \$86,018 |
| Subtotal Construction | | | | | 10.00% | | \$22,833.96 |
| | | | | | | \$408,996 | |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | SUBTOTAL COST |
|--|----------|-----------|---|-------------------------------|------------------|
| Investigation Area #13 -- Sample Mill Area (Chlorine Leaching Operation Area) | | | | | |
| Other Misc. Costs | | | | | |
| Bond and Insurance | | | 2.50% | | \$10,225 |
| Compliance Testing/Lab Analysis | | | 2.50% | | \$10,225 |
| Total Other Costs | | | | | \$20,450 |
| Engineering Design/Oversight | | | | | |
| Investigation | | | 5.00% | | \$20,450 |
| Design | | | 10.00% | | \$40,900 |
| Construction Management | | | 2.50% | | \$10,225 |
| Administration/Meetings | | | 2.50% | | \$10,225 |
| Total Engineering | | | | | \$61,349 |
| Subtotal Remediation Work @ Investigation Area #13 | | | | | |
| | | | | | \$490,795 |
| Annual Inspections and O&M | | | | | |
| Site Inspections (once per year) | | | Annual Present worth cost (i=0.05, n=15) | \$500 | \$5,190 |
| Annual O&M | | | Annual Present worth cost (i=0.05, n=15) | 0.50% \$2,045 | \$21,226 |
| Total Monitoring and O&M | | | | | \$26,416 |
| TOTAL CAPITAL OUTLAY | | | | | |
| | | | | | \$517,211 |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | | SUBTOTAL COST | | | | |
|---|-------------|------|--------------|---------------------|-------------------------------------|-----------------|------------------|--|--|--|--|
| | | | | | | | | | | | |
| Investigation Area #14 -- South Terrace Area | | | | | | | | | | | |
| Air Monitoring/Dust Control | | | | | | | | | | | |
| Dust Control | 6 | WEEK | \$ - | \$0 \$ 2,000.00 | \$12,000 | | \$12,000 | | | | |
| Air Monitoring Stations | 6 | WEEK | \$ 25.00 | \$150 \$ 500.00 | \$3,000 | | \$3,150 | | | | |
| Demolition/Debris Clean-up | | | | | | | | | | | |
| Debris Clean-up | 3.71 | ACRE | \$ - | \$0 \$ 510.40 | \$1,896 | | \$1,896 | | | | |
| Load and Haul to On-Site Repository | 37 | CY | \$ - | \$0 \$ 3.75 | \$139 | | \$139 | | | | |
| Excavation | | | | | | | | | | | |
| Excavate Soils-Category I | 732 | CY | \$ - | \$0 \$ 3.10 | \$2,267 | | \$2,267 | | | | |
| Load and Haul to On-Site Repository | 732 | CY | \$ - | \$0 \$ 3.75 | \$2,744 | | \$2,744 | | | | |
| Post-Remedial Soil Sampling | 0.50 | ACRE | \$ 500.00 | \$250 \$ 3,000.00 | \$1,500 | | \$1,750 | | | | |
| Compacted Backfill | | | | | | | | | | | |
| Provide backfill - on-site source | 732 | CY | \$ - | \$0 \$ 1.74 | \$1,275 | | \$1,275 | | | | |
| Spread | 732 | CY | \$ - | \$0 \$ 1.74 | \$1,275 | | \$1,275 | | | | |
| Place and compact backfill | 732 | CY | \$ - | \$0 \$ 2.16 | \$1,585 | | \$1,585 | | | | |
| Stabilize Surface | | | | | | | | | | | |
| Site Grading | 0.50 | ACRE | \$ - | \$0 \$ 2,640.00 | \$1,320 | | \$1,320 | | | | |
| Fine Grade for paving | 2,420.00 | SY | \$ - | \$0 \$ 2.64 | \$6,389 | | \$6,389 | | | | |
| Subgrade Preparation | 2,420.00 | SY | \$ - | \$0 \$ 0.30 | \$724 | | \$724 | | | | |
| Asphalt Pavement | 2,420.00 | SY | \$ 2.52 | \$6,087 \$ 0.63 | \$1,516 | | \$7,603 | | | | |
| Gravel Surfacing | 201.00 | CY | \$ 12.41 | \$2,494 \$ 1.51 | \$304 | | \$2,798 | | | | |
| Utility Issues | | | | | | | | | | | |
| Utility Relocations | 5 | EA | \$ 1,000.00 | \$5,000 \$ 1,000.00 | \$5,000 | | \$10,000 | | | | |
| Drainage Control Features | | | | | | | | | | | |
| Temporary Construction Erosion & Sediment Controls | 1 | LS | \$ 3,000.00 | \$3,000 \$ 3,000.00 | \$3,000 | | \$6,000 | | | | |
| Subtotal Base Construction | | | | \$16,981 | | \$45,934 | \$62,916 | | | | |
| Mobilization | | | | | | | | | | | |
| | 1 | LS | | | 3.00% | | \$1,887 | | | | |
| Texas State Sales Tax | | | | | | | | | | | |
| | 1 | LS | | | 8.25% | | \$1,401 | | | | |
| Scope Contingency | | | | | | | | | | | |
| | 1 | LS | | | 30.00% | | \$18,875 | | | | |
| Health and Safety Premium | | | | | | | | | | | |
| (Modified Level D protection) | 1 | LS | | | 10.00% | | \$4,593.44 | | | | |
| Subtotal Construction | | | | | | \$89,672 | | | | | |

**ASARCO EL PASO COPPER SMELTER
REMEDIAL INVESTIGATION REPORT - PHASE II
CONCEPTUAL COST ESTIMATE SUMMARY TABLE**

| TASK DESCRIPTION | NO UNITS | UNIT | UNIT COST | MATERIAL COST | LABOR AND EQUIPMENT UNIT COST | LABOR AND EQUIPMENT COST | SUBTOTAL COST |
|---|----------|------|-----------|---|-------------------------------|--------------------------|------------------|
| Investigation Area #14 -- South Terrace Area | | | | | | | |
| Other Misc. Costs | | | | | | | |
| Bond and Insurance | | | | 3.00% | | \$2,690 | |
| Compliance Testing/Lab Analysis | | | | 2.50% | | \$2,242 | |
| Total Other Costs | | | | | | | \$4,932 |
| Engineering Design/Oversight | | | | | | | |
| Investigation | | | | 15.00% | | \$13,451 | |
| Design | | | | 15.00% | | \$13,451 | |
| Construction Management | | | | 10.00% | | \$8,967 | |
| Administration/Meetings | | | | 2.50% | | \$2,242 | |
| Total Engineering | | | | | | | \$38,111 |
| Subtotal Remediation Work @ Investigation Area #14 | | | | | | | \$132,715 |
| Annual Inspections and O&M | | | | | | | |
| Site Inspections (once per year) | | | | Annual Present worth cost (i=0.05, n=15) | | \$500 | \$5,190 |
| Annual O&M | | | | Annual Present worth cost (i=0.05, n=15) | 0.50% | \$448 | \$4,654 |
| Total Monitoring and O&M | | | | | | | \$9,844 |
| TOTAL CAPITAL OUTLAY | | | | | | | \$142,559 |

APPENDIX C

BOREHOLE AND WELL DATA

APPENDIX C

BOREHOLE AND WELL DATA

APPENDIX C

BOREHOLE AND WELL DATA

TABLE OF CONTENTS

TABLE C-1 BOREHOLE DATA

TABLE C-2 WELL CONSTRUCTION DETAILS

This appendix contains the individual lithologic logs for each borehole and well diagrams for each well listed in Tables C-1 and C-2.

TABLE C-1

BOREHOLE DATA

TABLE C-1
BOREHOLE DATA

| Borehole Identifier | Depth (feet) | Elevation (feet mean sea level) | Date Started | Date Finished | Drilling Method | Borehole Diameter (inches) |
|---------------------|--------------|---------------------------------|--------------|---------------|-------------------|----------------------------|
| BH1-1 | 57 | 3774.40 | 08/31/99 | 09/01/99 | Sonic | 6 |
| BH1-2 | 47 | 3774.70 | 09/01/99 | 09/01/99 | Sonic | 6 |
| BH2-1 | 77 | 3809.10 | 08/09/99 | 08/10/99 | Sonic | 6 |
| BH2-2 | 37 | 3798.40 | 08/10/99 | 08/11/09 | Sonic | 6 |
| BH2-3 | 76 | 3805.00 | 08/12/99 | 08/13/99 | Sonic | 6 |
| BH2-4 | 59 | 3805.20 | 08/13/99 | 08/16/99 | Sonic | 6 |
| BH2-5 | 26 | 3786.00 | 08/15/99 | 08/16/99 | Sonic | 6 |
| BH2-6 | 49 | 3779.10 | 08/16/99 | 08/17/99 | Sonic | 6 |
| BH2-7 | 46 | 3777.60 | 08/17/99 | 08/17/99 | Sonic | 6 |
| BH3-1 | 57 | 3789.20 | 08/18/99 | 08/23/99 | Sonic | 6 |
| BH3-2 | 52 | 3788.90 | 08/23/99 | 08/23/99 | Sonic | 6 |
| BH3-3 | 52 | 3789.00 | 08/24/99 | 08/24/99 | Sonic | 6 |
| BH3-4 | 57 | 3787.20 | 08/24/99 | 08/25/99 | Sonic | 6 |
| BH3-5 | 57 | | 08/25/99 | 08/25/99 | Sonic | 6 |
| BH3-6 | 70 | 3786.60 | 08/25/99 | 08/26/99 | Sonic | 6 |
| BH3-7 | 72 | 3787.20 | 08/26/99 | 08/27/99 | Sonic | 6 |
| BH3-8 | 68 | 3786.00 | 08/31/99 | 08/31/99 | Sonic | 6 |
| BH4-1 | 17 | 3723.80 | 11/17/99 | 11/17/99 | Hollow Stem Auger | 8 |
| BH4-2 | 22 | 3727.40 | 11/18/99 | 11/18/99 | Hollow Stem Auger | 8 |
| BH4-3 | 17 | 3725.80 | 11/18/99 | 11/18/99 | Hollow Stem Auger | 8 |
| BH4-4 | 17 | 3727.00 | 11/18/99 | 11/18/99 | Hollow Stem Auger | 8 |
| BH4-5 | 17 | 3726.40 | 11/18/99 | 11/18/99 | Hollow Stem Auger | 8 |
| BH4-6 | 17 | 3729.10 | 11/18/99 | 11/18/99 | Hollow Stem Auger | 8 |
| BH8-1 | 75 | 3777.20 | 10/29/99 | 10/30/99 | Sonic | 6 |
| BH8-2 | 67 | 3775.50 | 11/01/99 | 11/01/99 | Sonic | 6 |
| BH8-3 | 62 | 3775.20 | 11/01/99 | 11/02/99 | Sonic | 6 |
| BH8-4 | 67 | 3776.40 | 11/02/99 | 11/02/99 | Sonic | 6 |
| BH9-5-1 | 11 | 3763.90 | 02/09/00 | 02/09/00 | Geoprobe | 2 |
| BH9-5-2 | 8 | 3764.80 | 02/09/00 | 02/09/00 | Geoprobe | 2 |
| BH9-5-3 | 4 | 3765.80 | 02/09/00 | 02/09/00 | Geoprobe | 2 |
| BH9-5-4 | 6 | 3764.90 | 02/09/00 | 02/09/00 | Geoprobe | 2 |
| BH9-5-5 | 4 | 3765.50 | 02/09/00 | 02/09/00 | Geoprobe | 2 |
| BH9-5-6 | 4 | 3766.10 | 02/09/00 | 02/09/00 | Geoprobe | 2 |
| BH9-5-7 | 4 | 3766.90 | 02/09/00 | 02/09/00 | Geoprobe | 2 |
| BH11-1 | 5 | 3871.26 | 07/21/99 | 07/21/99 | Hollow Stem Auger | 8 |
| BH11-2 | 42 | 3783.30 | 08/04/99 | 08/05/99 | Sonic | 6 |
| BH11-3 | 12 | 3783.70 | 08/05/99 | 08/05/99 | Sonic | 6 |
| BH11-4 | 20 | 3795.70 | 08/05/99 | 08/06/99 | Sonic | 6 |
| BH12-1 | 17 | 3770.40 | 11/03/99 | 11/03/99 | Sonic | 6 |

TABLE C-1
BOREHOLE DATA

| Borehole Identifier | Depth (feet) | Elevation (feet mean sea level) | Date Started | Date Finished | Drilling Method | Borehole Diameter (inches) |
|---------------------|--------------|---------------------------------|--------------|---------------|-------------------|----------------------------|
| BH12-2 | 17 | 3769.60 | 11/03/99 | 11/03/99 | Sonic | 6 |
| BH12-3 | 22 | 3771.80 | 11/03/99 | 11/03/99 | Sonic | 6 |
| BH12-4 | 24 | 3773.20 | 11/03/99 | 11/03/99 | Sonic | 6 |
| BH12-5 | 17 | 3776.20 | 11/04/99 | 11/04/99 | Sonic | 6 |
| BH12-6 | 17 | 3770.70 | 11/04/99 | 01/04/99 | Sonic | 6 |
| BH12-7 | 17 | 3769.90 | 11/04/99 | 11/04/99 | Sonic | 6 |
| BH12-8 | 17 | 3770.70 | 11/04/99 | 11/04/99 | Sonic | 6 |
| BH12-9 | 14 | 3772.80 | 11/04/99 | 11/04/99 | Sonic | 6 |
| BH14-1 | 76 | 3774.30 | 11/05/99 | 11/08/99 | Sonic | 6 |
| BH14-2 | 64 | 3775.00 | 12/16/99 | 12/16/99 | Sonic | 6 |
| BH14-3 | 67 | 3774.20 | 12/15/99 | 12/15/99 | Sonic | 6 |
| SSIA11-1 | 5 | 3789.90 | 07/19/99 | 07/19/99 | Hand Auger | 4 |
| SSIA11-2 | 5 | 3790.40 | 07/19/99 | 07/19/99 | Hand Auger | 4 |
| SSIA11-3 | 5 | 3856.50 | 07/20/99 | 07/20/99 | Hollow Stem Auger | 8 |
| SSIA11-4 | 5 | 3858.90 | 07/20/99 | 07/20/99 | Hollow Stem Auger | 8 |
| SSIA11-5 | 5 | 3866.80 | 07/20/99 | 07/20/99 | Hollow Stem Auger | 8 |
| SSIA11-6 | 5 | 3844.50 | 07/20/99 | 07/20/99 | Hollow Stem Auger | 8 |
| SSIA11-7 | 5 | 3847.80 | 07/20/99 | 07/20/99 | Hollow Stem Auger | 8 |
| SSIA11-8 | 5 | 3821.30 | 07/21/99 | 07/21/99 | Hollow Stem Auger | 8 |
| SSIA11-9 | 5 | 3798.10 | 07/21/99 | 07/21/99 | Hollow Stem Auger | 8 |
| SSIA11-10 | 34 | 3788.50 | 08/04/99 | 08/04/99 | Hollow Stem Auger | 8 |
| SSIA11-11 | 5 | 3785.70 | 08/04/99 | 08/04/99 | Hollow Stem Auger | 8 |
| SSIA11-12 | 5 | 3785.30 | 08/04/99 | 08/04/99 | Hollow Stem Auger | 8 |
| SSIA11-13 | 5 | 3781.10 | 08/05/99 | 08/05/99 | Sonic | 6 |
| SSIA11-14 | 5 | 3795.70 | 08/06/99 | 08/06/99 | Sonic | 6 |
| SSIA11-15 | 5 | 3785.20 | 08/06/99 | 08/06/99 | Sonic | 6 |
| SSIA11-16 | 5 | 3789.10 | 08/06/99 | 08/06/99 | Sonic | 6 |
| SSIA11-17 | 5 | 3779.10 | 11/04/99 | 11/04/99 | Sonic | 6 |
| SSIA11-18 | 3 | 3779.00 | 11/05/99 | 11/05/99 | Hand Auger | 4 |

TABLE C-2

WELL CONSTRUCTION DETAILS

TABLE C-2
WELL CONSTRUCTION DETAILS

| Well Identifier | Depth (feet) | Measuring Pt. Elevation (feet MSL) | Date Started | Date Finished | Drilling Method | Borehole Diameter (inches) | Well Description | Screened Interval (bgs) | | Sand Pack Interval (bgs) | | Annular Seal Interval (bgs) | |
|-----------------|--------------|------------------------------------|--------------|---------------|-------------------|----------------------------|-------------------------------------|-------------------------|--------|--------------------------|--------|-----------------------------|--------|
| | | | | | | | | Top | Bottom | Top | Bottom | Top | Bottom |
| EP-93 | 62 | 3855.99 | 07/21/99 | 07/21/99 | Hollow Stem Auger | 10.25 | 4-inch, flush threaded, Sch 40, PVC | 37 | 57 | 35 | 57 | 3 | 35 |
| EP-94 | 65 | 3831.00 | 07/26/99 | 07/26/99 | Hollow Stem Auger | 10 | 4-inch, flush threaded, Sch 40, PVC | 45 | 65 | 43 | 65 | 2 | 43 |
| EP-95 | 67 | 3802.21 | 10/18/99 | 10/20/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 35 | 60 | 31 | 60 | 3 | 31 |
| EP-96 | 62 | 3873.26 | 07/20/99 | 07/20/99 | Hollow Stem Auger | 10.25 | 4-inch, flush threaded, Sch 40, PVC | 42 | 62 | 40 | 62 | 3 | 40 |
| EP-97 | 13 | 3792.43 | 08/04/99 | 08/04/99 | Hollow Stem Auger | 10.25 | 4-inch, flush threaded, Sch 40, PVC | 2.5 | 12.5 | 1 | 13 | 0 | 1 |
| EP-98 | 27 | 3789.92 | 08/06/99 | 08/09/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 7 | 27 | 5 | 27 | 3 | 5 |
| EP-99 | 77 | 3801.51 | 05/11/99 | 05/12/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 57.5 | 72.5 | 55 | 73.5 | 3 | 55 |
| EP-100 | 60 | 3776.99 | 09/08/99 | 09/28/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 32 | 52 | 29.5 | 53 | 3 | 29.5 |
| EP-101 | 82 | 3780.38 | 09/29/99 | 09/30/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 52 | 72 | 50 | 72 | 3 | 50 |
| EP-102 | 72 | 3776.28 | 09/30/99 | 10/04/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 52 | 72 | 49 | 72 | 3 | 49 |
| EP-103 | 72 | 3778.71 | 10/04/99 | 10/05/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 51 | 71 | 49 | 72 | 3 | 49 |
| EP-104 | 77 | 3779.71 | 10/05/99 | 10/07/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 52 | 77 | 53 | 77 | 3 | 53 |
| EP-105 | 77 | 3780.22 | 10/07/99 | 10/08/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 44 | 74 | 39 | 77 | 3 | 39 |
| EP-106 | 80 | 3780.40 | 10/16/99 | 10/18/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 50 | 80 | 48 | 80 | 3 | 48 |
| EP-107 | 80 | 3782.71 | 10/11/99 | 10/12/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 59 | 79 | 46 | 80 | 2 | 46 |
| EP-108 | 42 | 3774.26 | 10/14/99 | 10/14/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 20 | 40 | 16.5 | 40 | 3 | 16.5 |
| EP-109 | 42 | 3776.67 | 10/15/99 | 10/15/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 17 | 42 | 12.5 | 42 | 3 | 12.5 |
| EP-110 | 25 | 3722.03 | 10/18/99 | 10/18/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 5 | 25 | 3 | 25 | 2 | 3 |
| EP-111 | 20 | 3716.75 | 10/27/99 | 10/27/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 3 | 18 | 2 | 18 | 1 | 2 |
| EP-112 | 20 | 3718.58 | 10/27/99 | 10/27/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 3 | 18 | 2 | 18 | 1 | 2 |
| EP-113 | 20 | 3718.67 | 10/28/99 | 10/28/99 | Sonic | 8 | 4-inch, flush threaded, Sch 40, PVC | 2.5 | 17.5 | 1.5 | 17.5 | 1 | 1.5 |
| EP-114 | 29 | 3728.64 | 11/15/99 | 11/15/99 | Hollow Stem Auger | 10.25 | 4-inch, flush threaded, Sch 40, PVC | 8.5 | 28.5 | 6.5 | 29 | 2 | 6.5 |
| EP-115 | 25 | 3728.59 | 11/16/99 | 11/16/99 | Hollow Stem Auger | 10.25 | 4-inch, flush threaded, Sch 40, PVC | 10 | 15 | 8 | 15 | 3 | 8 |
| EP-116 | 25 | 3724.64 | 11/16/99 | 11/16/99 | Hollow Stem Auger | 10.25 | 4-inch, flush threaded, Sch 40, PVC | 5 | 25 | 3 | 25 | 1 | 3 |
| EP-117 | 30 | 3726.46 | 11/16/99 | 11/17/99 | Hollow Stem Auger | 10.25 | 4-inch, flush threaded, Sch 40, PVC | 8 | 28 | 6 | 28 | 2 | 6 |
| EP-118 | 36 | 3726.21 | 11/17/99 | 11/17/99 | Hollow Stem Auger | 10.25 | 4-inch, flush threaded, Sch 40, PVC | 6 | 36 | 5 | 36 | 2 | 5 |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Soil Boring Log

Hole Name: BH1-1

Date Hole Started: 8/31/99 Date Hole Finished: 9/1/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 125 feet South of Medford Sump

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 57

Recorded By: H Kutz

Remarks: Sampled from 0.5 feet to 47 feet BGS.
Static water level 47 feet BGS.
Boring abandoned with Bentonite Chips to 15 feet and cuttings to surface.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | | | | | | | 0.0 - 0.2' ASPHALT |
| | BH1-1-A | CONT | | 1.00 | 0.5 - 1.5' | | 0.2 - 0.8' GRAVEL, Sandy, Silty Fine to coarse grained, well graded, dry, moderate yellowish brown, 10 YR 5/4, no odor (Base Course). |
| | BH1-1-B | | | | 1.5 - 2.5' | | 0.8 - 2.5' SAND, Silty Fine to medium grained, poorly graded, moist, moderate yellowish brown, 10 YR 5/4, no odor. |
| 5 | | | | | | | 2.5 - 9.0' GRAVEL, Sandy, Silty, Clayey Fine to coarse grained, poorly graded, medium dense, dusky yellowish brown, 10 YR 2/2, moist, no odor, with intermixed slag gravel. |
| 10 | BH1-1-C | | | | 10.0 - 12.0' | | 9.0 - 19.0' GRAVEL, Sandy, Silty, Clayey Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, medium dense, moist, no odor. |
| 15 | BH1-1-D | | | | 15.0 - 17.0' | | |
| 20 | BH1-1-E | | | | 20.0 - 22.0' | | 19.0 - 48.0' SAND, Silty, Clayey Fine grained, poorly graded, moderately yellowish brown, 10 YR 5/4, dry to moist, no odor, with calcareous material with fine to coarse gravel below 39 feet. |
| 25 | BH1-1-F | | | | 25.0 - 27.0' | | |
| 30 | | | | | | | |



HYDROMETRICS INC.
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El Paso, Texas

Soil Boring Log

Hole Name: BH1-1

Date Hole Started: 8/31/99 Date Hole Finished: 9/1/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | BH1-1-G | CONT | | | 30.0 - 32.0' | | |
| 35 | BH1-1-H | | | | 35.0 - 37.0' | | |
| 40 | BH1-1-I | | | | 40.0 - 42.0' | | |
| 45 | BH1-1-J | | | | 45.0 - 47.0' | | |
| 50 | | | | | | | 48.0 - 51.0' GRAVEL, Sandy, Clayey Fine to coarse grained, poorly graded, moderately yellowish brown, 10 YR 5/4, moist to wet, dense, no odor. |
| 55 | | | | | | | 51.0 - 57.0' CLAY, Sandy, Silty Moderate yellowish brown, 10 YR 5/4, dry, hard, no odor. |
| 60 | | | | | | | |
| 65 | | | | | | | |



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Soil Boring Log

Hole Name: BH1-2

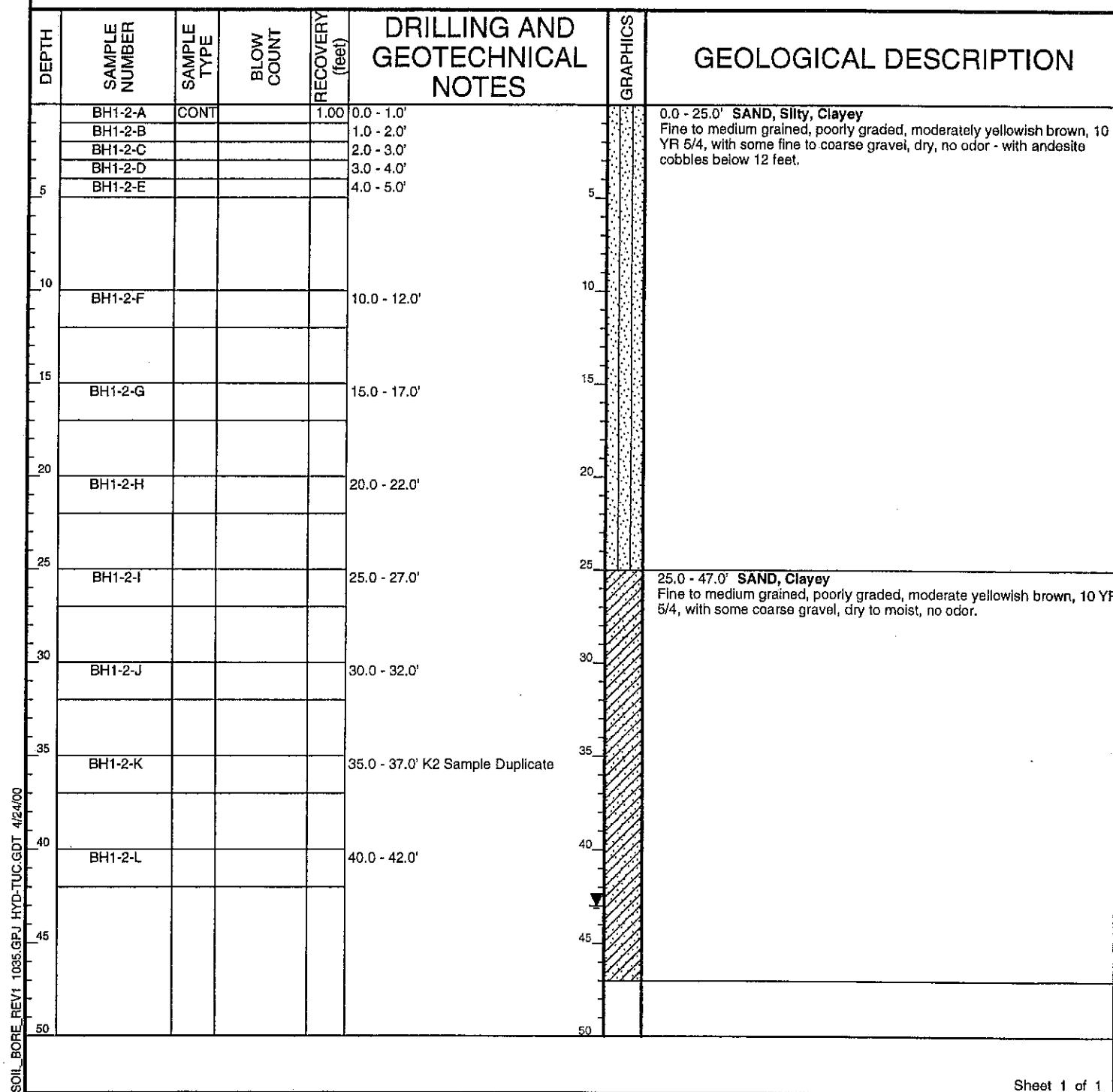
Date Hole Started: 9/1/99 Date Hole Finished: 9/2/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 25 feet East of Medford Sump

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 47

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 42 feet BGS.
Static water level 43 feet BGS.
Boring abandoned with Bentonite Chips to 20 feet and cuttings to surface.





HYDROMETRICS INC.
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El Paso, Texas

Soil Boring Log

Hole Name: BH2-1

Date Hole Started: 8/9/99 Date Hole Finished: 8/10/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 10 feet Southwest of No. 9A Gate in
Boneyard/Slag Area

Recorded By: H Kutz

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

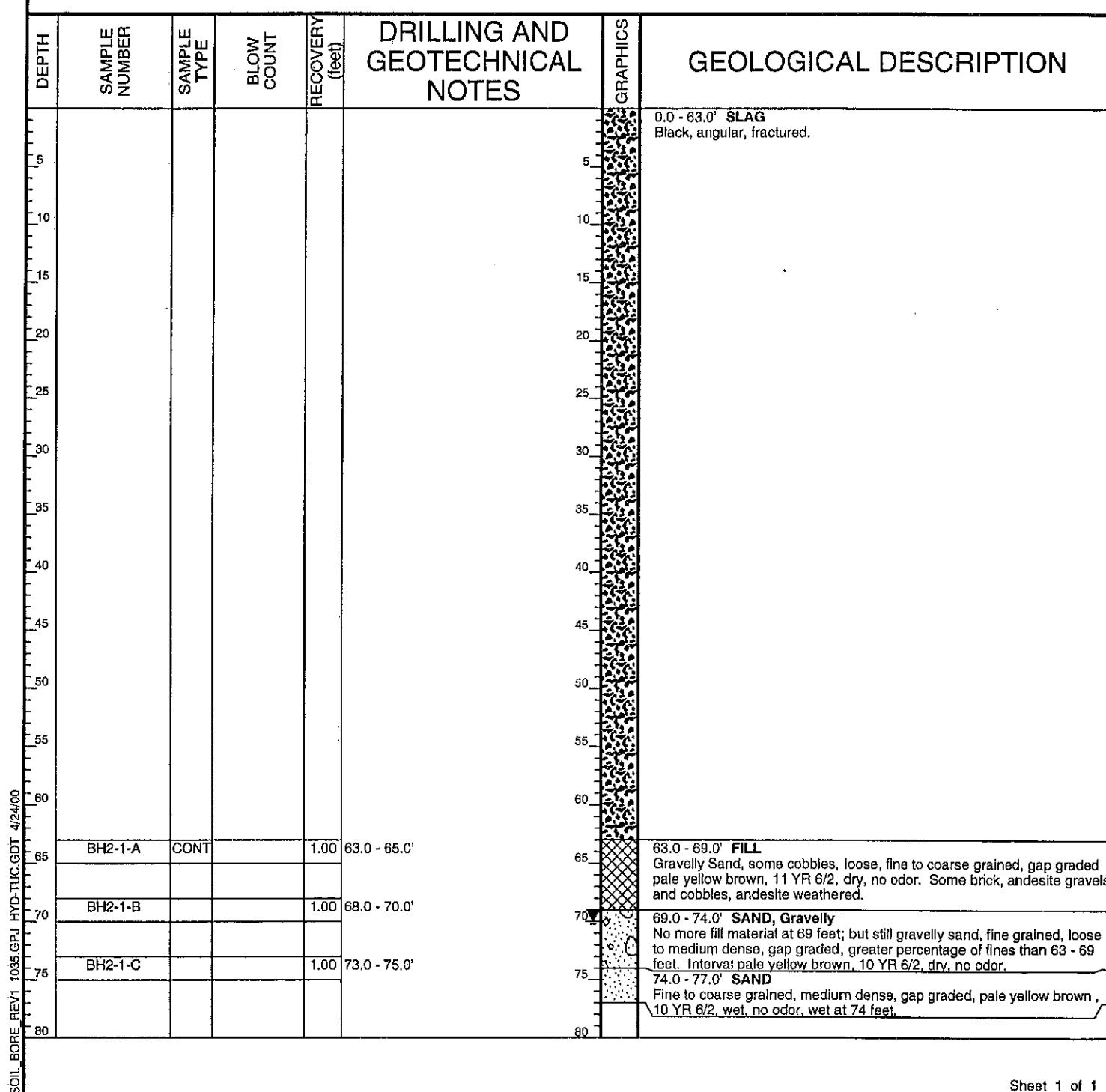
Drilling Fluids Used: Water

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 6

Total Depth Drilled (ft): 77

Remarks: Sampled from 63 feet to 75 feet BGS.
Static water level 70 feet BGS.
Boring abandoned with cuttings.





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El Paso, Texas

Soil Boring Log

Hole Name: BH2-2

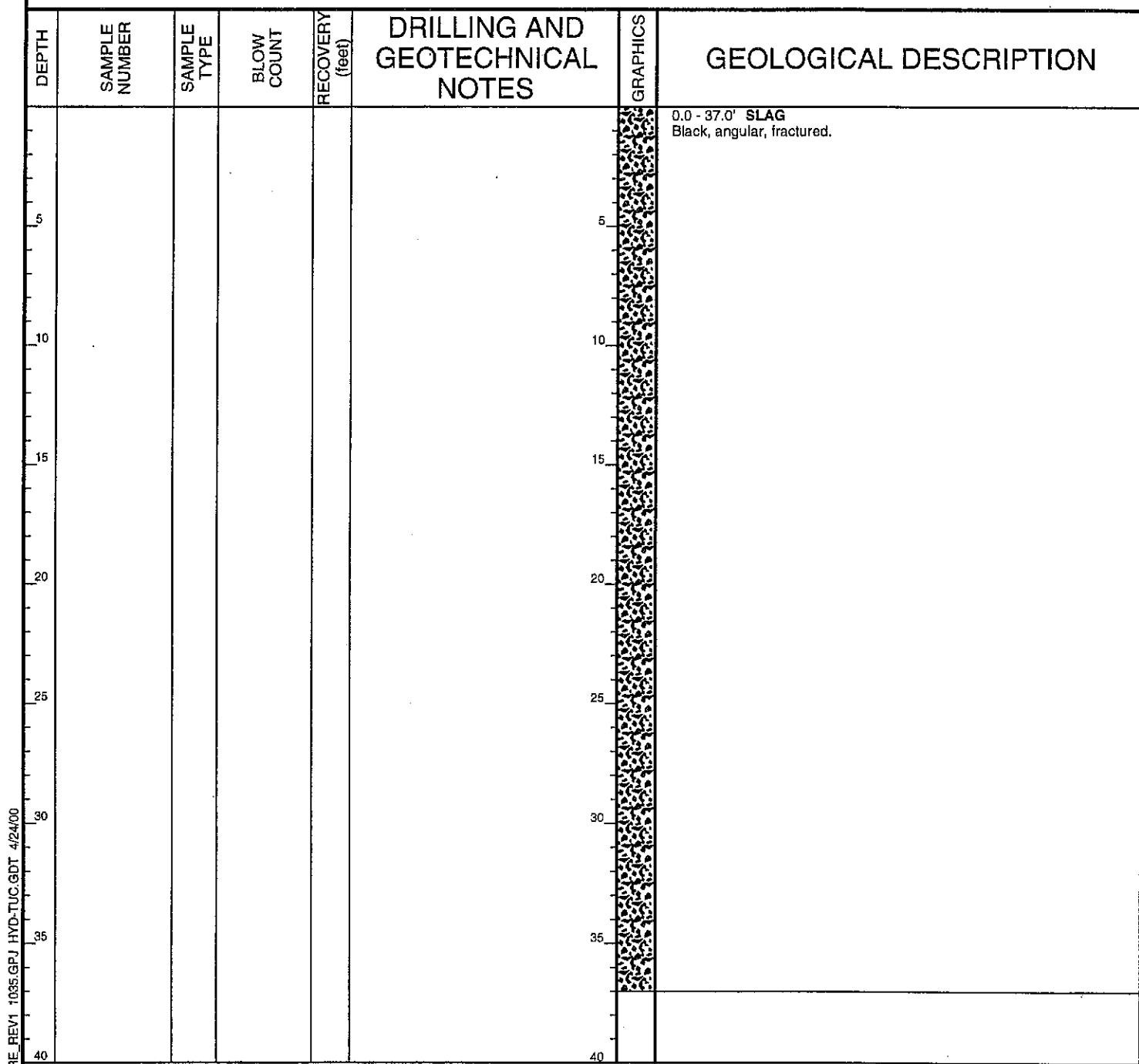
Date Hole Started: 8/10/99 Date Hole Finished: 8/11/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 22 feet Northwest of EP-99 on Slag Haul Road in Boneyard/Slag Area

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 37

Recorded By: H Kutz

Remarks: No Sample Taken.
Slopes were beginning to deteriorate, hole was abandoned (9:15 a.m. 5/11/99).





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Soil Boring Log

Hole Name: BH2-3

Date Hole Started: 8/12/99 Date Hole Finished: 8/13/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 20 feet Northeast of EP-53 in
Boneyard/Slag Area

Hole Diameter (in): 6

Total Depth Drilled (ft): 76

Recorded By: H Kutz

Remarks: Sampled from 40 feet to 76 feet BGS.
Static water level 67 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|----------------------------------|----------|--|
| 5 | | | | | | | |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |
| 30 | | | | | | | |
| 35 | | | | | | | |
| 40 | | | | | | | |
| | BH2-3-A | CONT | | 2.00 | 40.0 - 42.0' | | 0.0 - 36.0' SLAG Black, angular, fractured. |
| | BH2-3-B | | | 2.00 | 45.0 - 47.0' | | 36.0 - 41.0' SAND, Gravelly, Silty Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, rounded to subrounded, poorly graded, moist. |
| | BH2-3-C | | | 2.00 | 50.0 - 52.0' | | 41.0 - 44.0' SAND, Silty Fine to medium grained, moderate yellowish brown, 10 YR 5/4, moist. |
| | BH2-3-D | | | 2.00 | 55.0 - 57.0' | | 44.0 - 72.0' SAND, Silty, Gravelly Fine to medium grained, moderate yellowish brown, 10YR 5/4, moist, with cobbles, Andesite boulders below 69 feet (Alluvium). |
| | BH2-3-E | | | 2.00 | 60.0 - 62.0' E2 Sample Duplicate | | |
| | BH2-3-F | | | 2.00 | 65.0 - 67.0' | | |
| | BH2-3-G | | | 2.00 | 70.0 - 72.0' | | |
| | BH2-3-H | | | 1.00 | 75.0 - 76.0' | | 72.0 - 76.0' SAND, Silty, Clayey Fine grained, pale yellowish orange, 10 YR 8/6, hard, cemented, poorly graded, dry. |
| 80 | | | | | | | |



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El Paso, Texas

Soil Boring Log

Hole Name: BH2-4

Date Hole Started: 8/13/99 Date Hole Finished: 8/16/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 165 feet East of EP-53 in Boneyard/Slag Area

Hole Diameter (in): 6

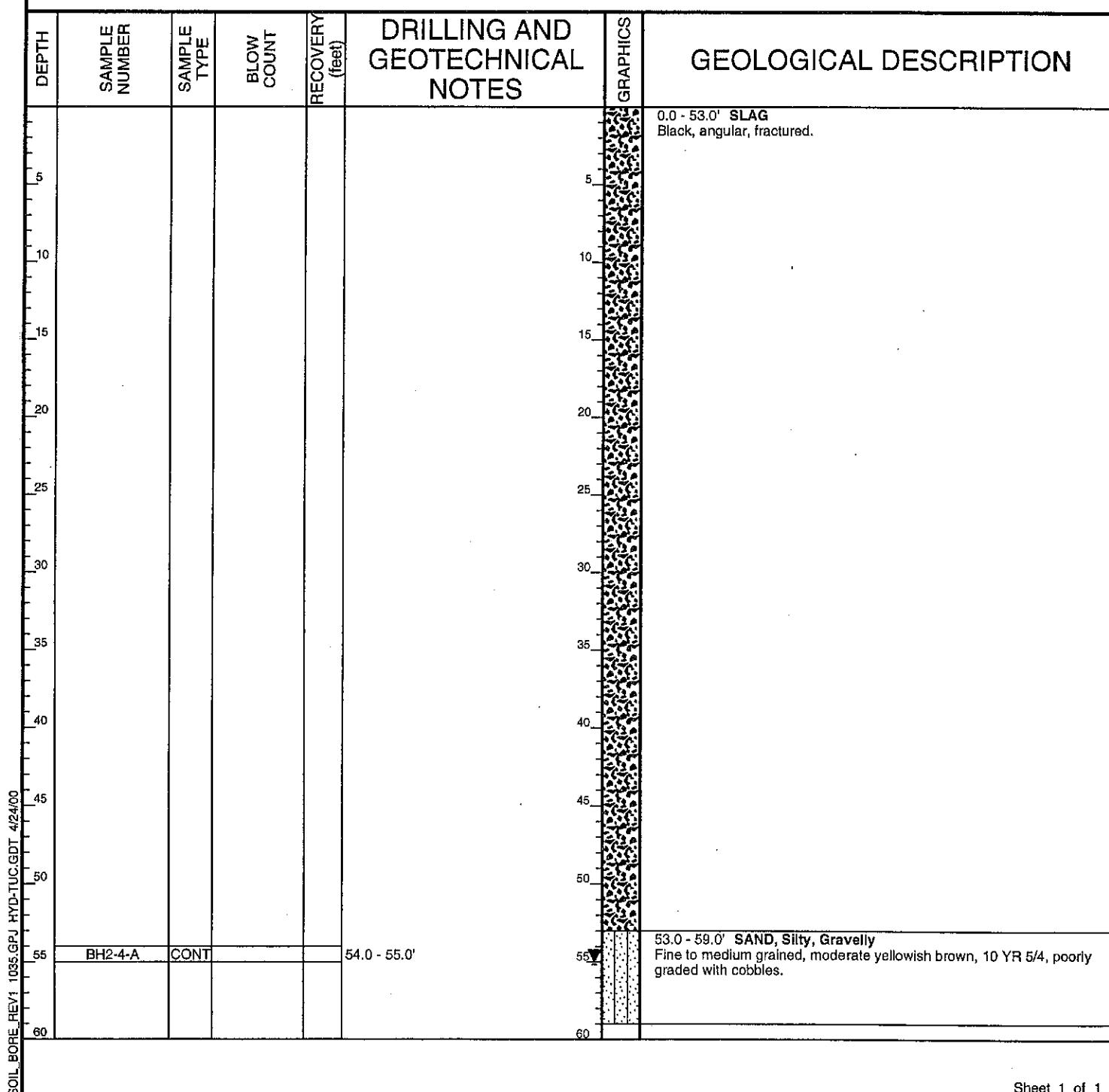
Total Depth Drilled (ft): 59

Recorded By: H Kutz

Remarks: Sampled from 54 feet to 55 feet BGS.

Static water level 55 feet BGS.

Boring abandoned with cuttings.





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Soil Boring Log

Hole Name: BH2-5

Date Hole Started: 8/16/99 Date Hole Finished: 8/16/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 310 feet North of Contop Control Building in
Boneyard/Slag Area

Hole Diameter (in): 6

Total Depth Drilled (ft): 26

Recorded By: H Kutz

Remarks: Sampled from 16 feet to 26 feet BGS.

Static water level 18 feet BGS.

Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| 5 | | | | | | | 0.0 - 16.0' SLAG Black, angular, fractured. |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 16.0 | BH2-5-A | CONT | 2.00 | 16.0 - 18.0' | Moist, Water | | 16.0 - 21.0' SAND, Gravelly, Silty Fine to coarse grained, poorly graded, moderate yellowish brown, 10 YR 5/4, moist to wet. |
| 20.0 | BH2-5-B | | 2.00 | 20.0 - 22.0' | Bearing | | 21.0 - 26.0' SAND, Silty Fine grained, poorly graded moderate yellowish brown, 10 YR 5/4, moist with some fine gravel. |
| 24.0 | BH2-5-C | | 2.00 | 24.0 - 26.0' | C2 Sample Duplicate | | |
| 30 | | | | | | | |



HYDROMETRICS INC.
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El Paso, Texas

Soil Boring Log

Hole Name: BH2-6

Date Hole Started: 8/16/99 Date Hole Finished: 8/17/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 80 feet North of North-West corner of Acid Tank Farm in Boneyard/Slag Area

Hole Diameter (in): 6

Total Depth Drilled (ft): 49

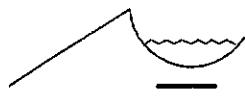
Recorded By: H Kutz

Remarks: Sampled from 9 feet to 26 feet BGS.

Static water level 43 feet BGS.

Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|----------------------------------|----------|---|
| 5 | | | | | | | 0.0 - 8.0' SLAG, Sand Black, angular, fractured - Fine grained. |
| 10 | BH2-6-A | CONT | | 2.00 | 9.0 - 11.0' | | 8.0 - 16.0' SAND, Silty Fine to medium grained, poorly graded, moderately yellowish brown, 10 YR 5/4, with some gravel, dry. |
| 15 | BH2-6-B | | | 2.00 | 15.0 - 17.0' | | 16.0 - 49.0' SAND, Silty, Clayey Fine to medium grained, poorly graded, moderate yellowish brown, 10 YR 5/4, with gravel - with andesite gravel and cobbles below 38 feet. |
| 20 | BH2-6-C | | | 2.00 | 20.0 - 22.0' | | |
| 25 | BH2-6-D | | | 2.00 | 24.0 - 26.0' D2 Sample Duplicate | | |
| 30 | BH2-6-E | | | 2.00 | 30.0 - 32.0' | | |
| 35 | BH2-6-F | | | 2.00 | 35.0 - 37.0' | | |
| 40 | BH2-6-G | | | 2.00 | 40.0 - 42.0' | | |
| 45 | BH2-6-H | | | 2.00 | 45.0 - 47.0' | | |
| 50 | | | | | | | |



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El Paso, Texas

Soil Boring Log

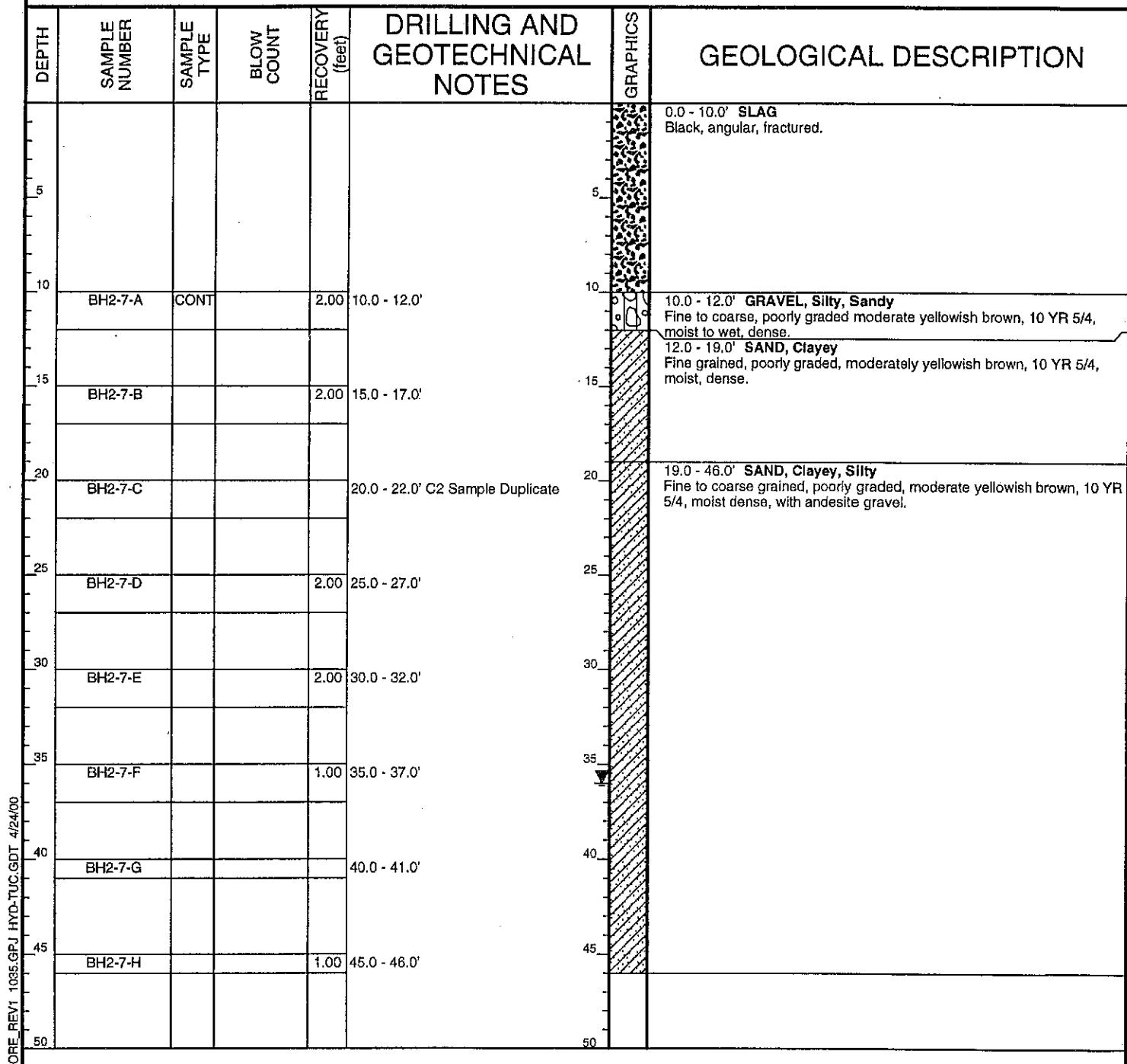
Hole Name: BH2-7

Date Hole Started: 8/17/99 Date Hole Finished: 8/17/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 110 feet North and 50 feet West of
North-East corner of Acid Tank Farm in Boneyard/Slag Area
Recorded By: H Kutz

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 46

Remarks: Sampled from 10 feet to 46 feet BGS.
Static water level 36 feet BGS.
Boring abandoned with cuttings.





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Soil Boring Log

Hole Name: BH3-1

Date Hole Started: 8/18/99 Date Hole Finished: 8/23/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 150 feet East and 40 feet North of
North-East corner of Acid Plant Control Building

Hole Diameter (in): 6

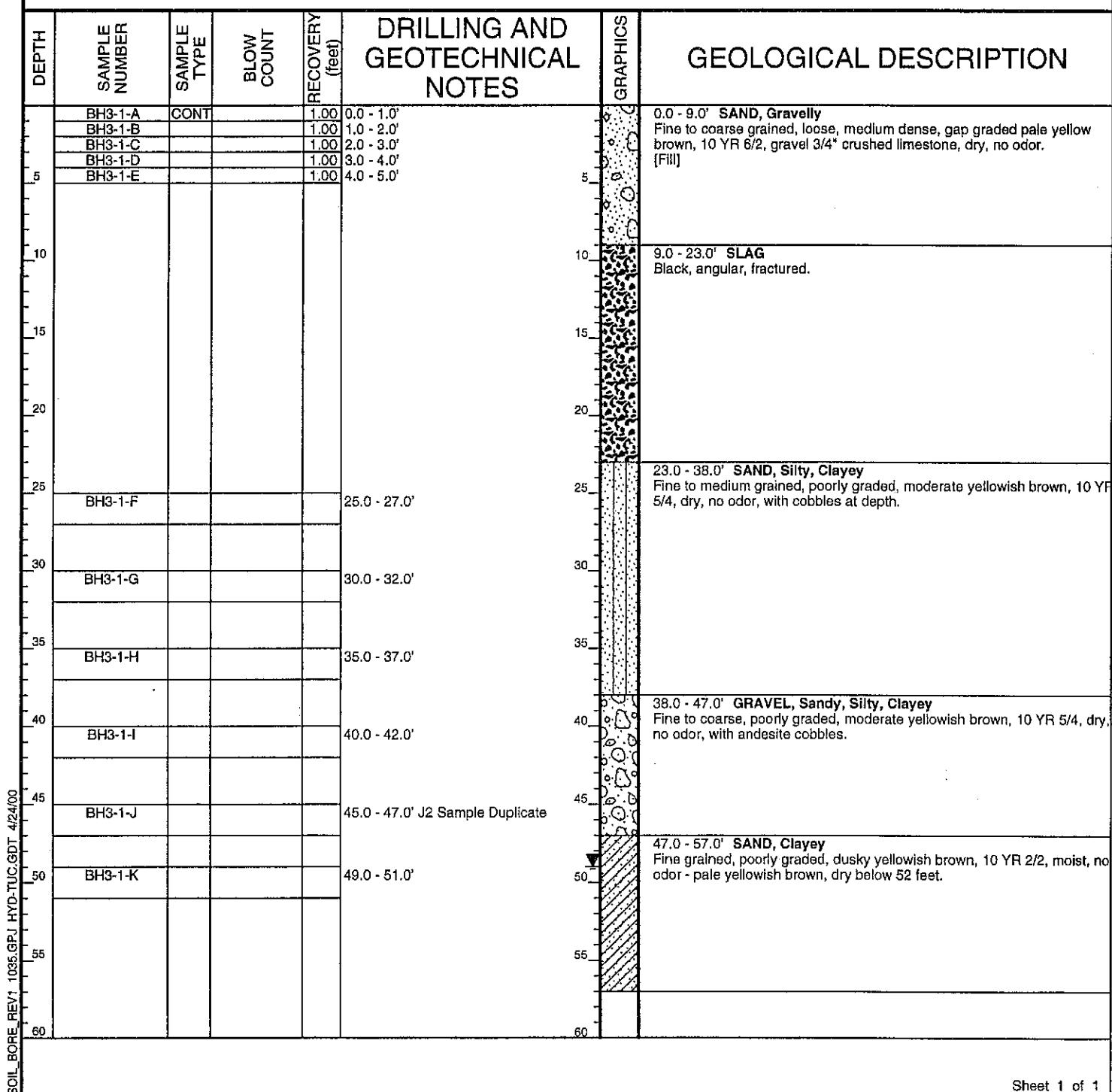
Total Depth Drilled (ft): 57

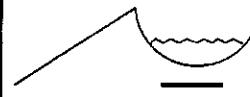
Recorded By: L Johnson & H Kutz

Remarks: Sampled from 0 feet to 51 feet BGS.

Static water level 49 feet BGS.

Boring abandoned with cuttings.





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Soil Boring Log

Hole Name: BH3-2

Date Hole Started: 8/23/99 Date Hole Finished: 8/23/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

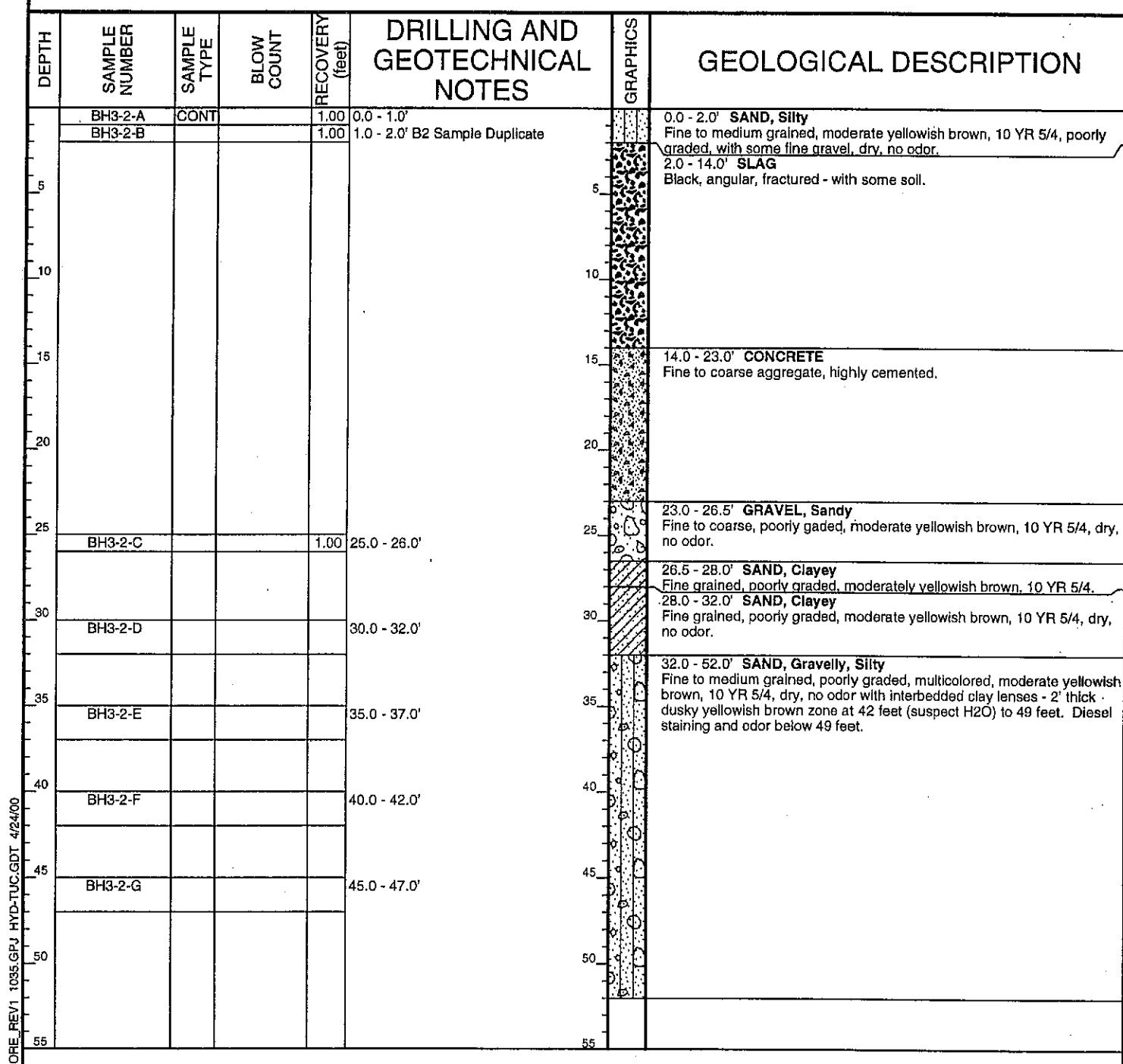
Descriptive Location: 140 feet Northeast of South-East corner of Acid Plant Control Building

Hole Diameter (in): 6

Total Depth Drilled (ft): 52

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 2 feet BGS and 25 feet to 47 feet BGS.
Diesel affected below 49 feet BGS.
Unaffected soils returned to boring.





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Soil Boring Log

Hole Name: BH3-3

Date Hole Started: 8/24/99 Date Hole Finished: 8/24/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 180 feet East of South-East corner of Acid Plant Control Building

Hole Diameter (in): 6

Recorded By: H Kutz

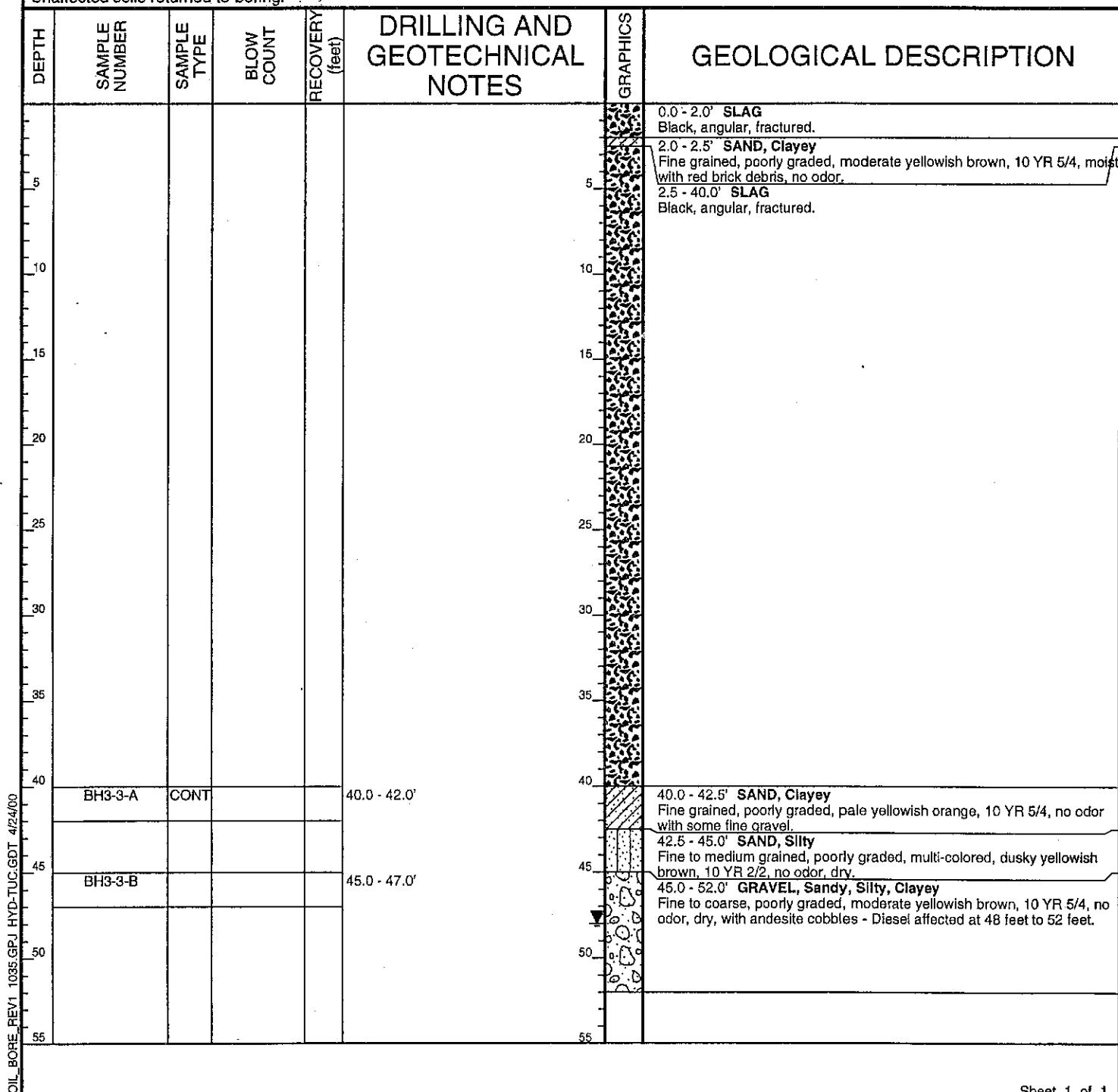
Total Depth Drilled (ft): 52

Remarks: Sampled from 40 feet to 47 feet BGS.

Diesel affected at 48 feet to 52 feet.

Static water level 48 feet BGS.

Unaffected soils returned to boring.





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Soil Boring Log

Hole Name: BH3-4

Date Hole Started: 8/24/99 Date Hole Finished: 8/25/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 40 feet North and 60 feet East of South-East corner of Acid Plant Control Building

Recorded By: H Kutz

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

Drilling Fluids Used: Water

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 6

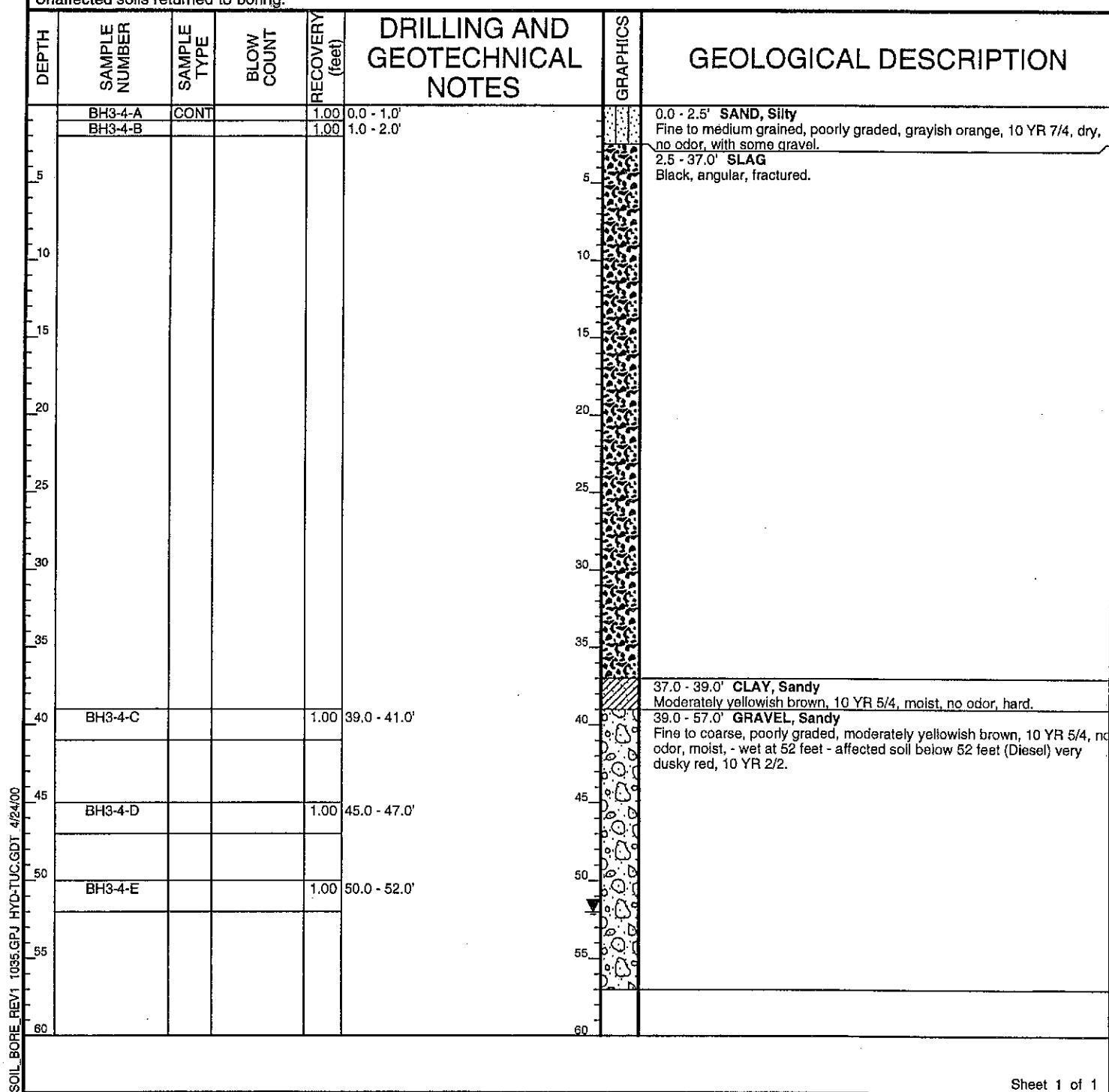
Total Depth Drilled (ft): 57

Remarks: Sampled from 0 feet to 52 feet BGS. 4-oz soil sample at 54 feet for BTEX & TPH.

Diesel affected at 52 feet to 57 feet BGS.

Static water level 52 feet BGS.

Unaffected soils returned to boring.





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Soil Boring Log

Hole Name: BH3-5

Date Hole Started: 8/25/99 Date Hole Finished: 8/25/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 210 feet Southeast of South-East corner of Acid Plant Control Building

Recorded By: H Kutz

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

Drilling Fluids Used: Water

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 6

Total Depth Drilled (ft): 57

Remarks: Sampled from 3 feet to 52 feet BGS. 4-oz soil sample at 54 feet for BTEX & TPH.

Diesel affected at 52 feet to 57 feet BGS.

Static water level 55 feet BGS.

Unaffected soils returned to boring.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| 5 | BH3-5-A | CONT | | 1.00 | 3.0 - 4.5' | | 0.0 - 0.2' ASPHALT 0.2 - 0.8' GRAVEL, Sandy, Silty Well graded, moderately yellowish brown, 10 YR 5/4, dry, no odor. 0.8 - 3.0' SLAG Black, angular, fractured. |
| 10 | | | | | | | 3.0 - 4.5' SAND, Silty, Clayey, Gravelly Fine to medium grained, poorly graded, moderately yellowish brown, 10 YR 5/4, dry, dense, no odor. |
| 15 | | | | | | | 4.5 - 31.0' SLAG Black, angular, fractured. |
| 20 | | | | | | | |
| 25 | | | | | | | |
| 30 | | | | | | | |
| 35 | BH3-5-B | | | 1.00 | 31.0 - 33.0' | | 31.0 - 34.0' CLAY, Sandy Soft, moderately yellowish brown, 10 YR 5/4, moist, no odor. |
| 40 | BH3-5-C | | | | 35.0 - 37.0' | | 34.0 - 43.0' SAND, Silty Fine to medium grained, poorly graded, moderately yellowish brown, 10 YR 5/4, moist, no odor, medium dense. |
| 45 | BH3-5-D | | | | 40.0 - 42.0' | | |
| 50 | BH3-5-E | | | | 45.0 - 47.0' | | 43.0 - 48.0' GRAVEL, Sandy, Silty Fine to coarse, poorly graded, pale yellowish brown, 10 YR 6/2, dry, dense, with cobbles. (Alluvium) |
| 55 | BH3-5-F | | | | 50.0 - 52.0' | | 48.0 - 57.0' SAND, Silty, Clayey Fine to coarse grained, poorly graded, moderately yellowish brown, 10 YR 5/4, dry, no odor - H.C. affected soil below 52 feet, very dusky red, 10 YR 2/2 - Unaffected soils returned to boring. |



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Soil Boring Log

Hole Name: BH3-6

Date Hole Started: 8/25/99 Date Hole Finished: 8/26/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 10 feet East and 35 feet South of the South-West corner of Acid Mist Precipitator

Recorded By: H Kutz

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

Drilling Fluids Used: Water

Purpose of Hole: Collect Soil Samples

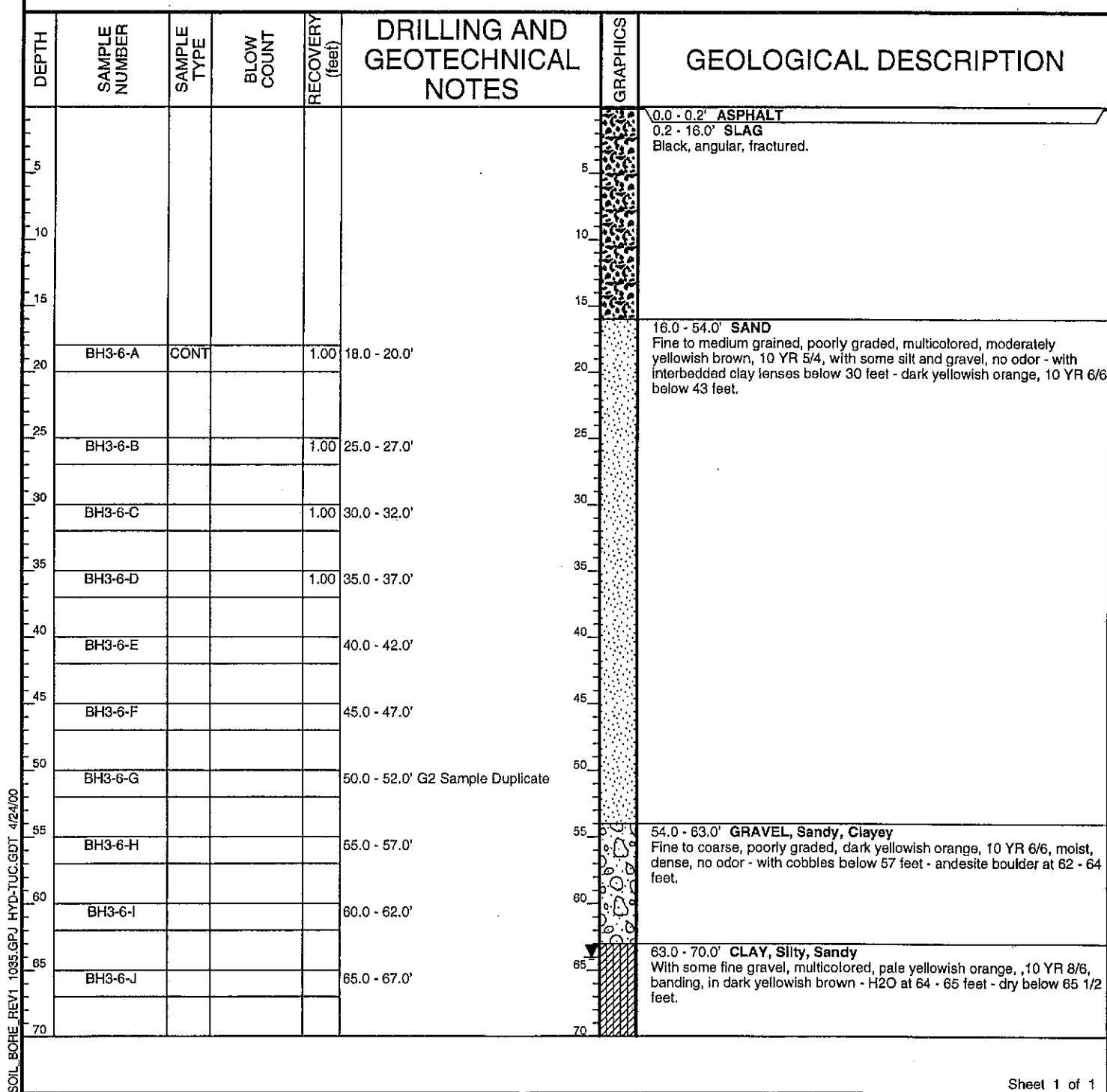
Hole Diameter (in): 6

Total Depth Drilled (ft): 70

Remarks: Sampled from 18 feet to 67 feet BGS.

Static water level 64 feet BGS.

Boring abandoned with cuttings.





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Soil Boring Log

Hole Name: BH3-7

Date Hole Started: 8/26/99 Date Hole Finished: 8/27/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 180 feet Northwest of North-East corner of Acid Plant Control Building

Hole Diameter (in): 6

Total Depth Drilled (ft): 72

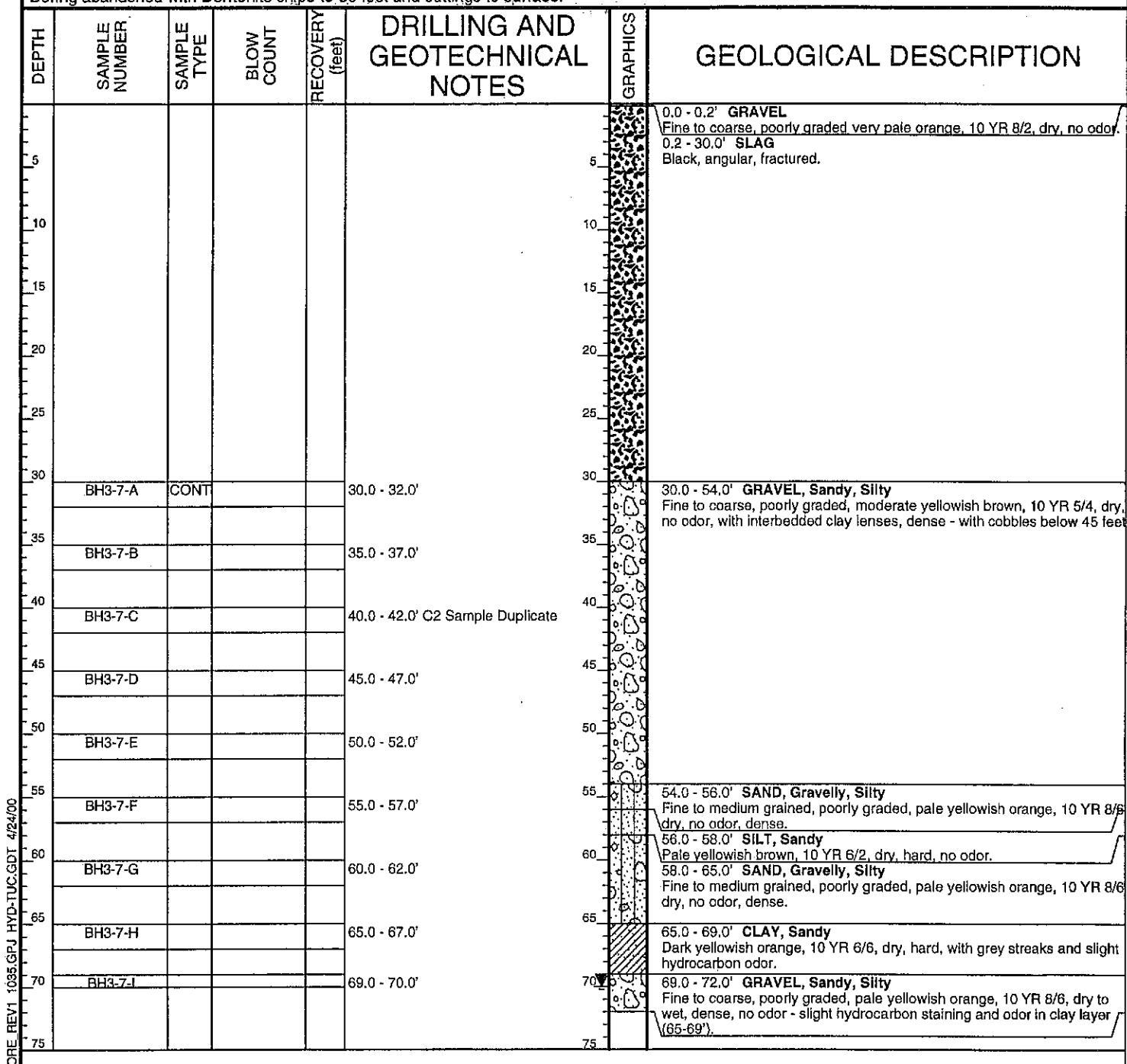
Recorded By: H Kutz

Remarks: Sampled from 30 feet to 70 feet BGS. 4-oz soil sample at 67 feet for BTEX & TPH.

Hydrocarbon affected clay layers from 65 feet to 72 feet BGS.

Static water level 70 feet BGS.

Boring abandoned with Bentonite chips to 30 feet and cuttings to surface.





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Soil Boring Log

Hole Name: BH3-8

Date Hole Started: 8/31/99 Date Hole Finished: 8/31/99 ✓

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 20 feet East and 70 feet North of
North-West corner of Acid Mist Precipitator

Hole Diameter (in): 6

Total Depth Drilled (ft): 68

Recorded By: H Kutz

Remarks: Sampled from 55 feet to 62 feet BGS.

Static water level 64.5 feet BGS.

Boring abandoned with Bentonite Chips to 50 feet and cuttings to surface.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|----------------------------------|----------|--|
| 5 | | | | | | | 0.0 - 53.0' SLAG Black, angular, fractured. |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |
| 30 | | | | | | | |
| 35 | | | | | | | |
| 40 | | | | | | | |
| 45 | | | | | | | |
| 50 | | | | | | | |
| 55 | BH3-8-A | CONT | | 1.00 | 55.0 - 57.0' | | 53.0 - 54.5' CLAY, Sandy, Gravelly Moderate yellowish brown, 10 YR 5/4, moist, hard, no odor. |
| 60 | BH3-8-B | | | 1.00 | 60.0 - 62.0' B2 Sample Duplicate | | 54.5 - 63.0' GRAVEL, Sandy, Silty Fine to coarse, poorly graded moderate yellowish brown, 10 YR 5/4, moist, dense, no odor - with interbedded sand lenses - with cobbles below 60 feet. |
| 65 | | | | | | | 63.0 - 68.0' SAND, Clayey, Silty Fine grained, poorly graded, pale brown, 5 YR 5/2, moist to wet, no odor. |
| 70 | | | | | | | |



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El Paso, Texas

Soil Boring Log

Hole Name: BH4-1

Date Hole Started: 11/17/99 Date Hole Finished: 11/17/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: Front slope, by railroad tracks below former lunch room
Recorded By: H Kutz

Drilling Company: Alliance Environmental
Driller: D Hogan
Drilling Method: Hollow Stem Auger
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 8
Total Depth Drilled (ft): 17

Remarks: Sampled from 0 feet to 12 feet BGS.
Static water level 14 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | BH4-1-A | SS | | 1.00 | 0.0 - 1.0' A2 Sample Duplicate | | 0.0 - 4.0' SAND, Silty Fine to medium grained, pale yellowish brown, 10 YR 6/2, dry, no odor, poorly graded, dense. |
| | BH4-1-B | | | 1.00 | 1.0 - 2.0' | | |
| | BH4-1-C | | | 1.00 | 2.0 - 3.0' | | |
| | BH4-1-D | | | 1.00 | 3.0 - 4.0' | | |
| 5 | BH4-1-E | | | 1.00 | 4.0 - 5.0' | | 4.0 - 9.0' GRAVEL, Sandy, Silty Fine to coarse, pale yellowish brown, 10 YR 6/2, dry, no odor, poorly graded, dense. |
| 10 | BH4-1-F | | | 2.00 | 10.0 - 12.0' | | 9.0 - 17.0' SAND Fine to medium grained, moderate yellowish brown, 10 YR 6/2, dry to wet, dense, no odor, poorly graded. |
| 15 | | | | | | | |
| 20 | | | | | | | |



HYDROMETRICS INC.
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Soil Boring Log

Hole Name: BH4-2

Date Hole Started: 11/18/99 Date Hole Finished: 11/18/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: Front slope, by railroad tracks, below former lunch room
Recorded By: H Kutz

Drilling Company: Alliance Environmental
Driller: D Hogan
Drilling Method: Hollow Stem Auger
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 8
Total Depth Drilled (ft): 22

Remarks: Sampled from 0 feet to 17 feet BGS.
Static water level 20 feet BGS.
Boring abandoned with Bentonite Chips to 22 feet and cuttings to surface.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | BH4-2-A | SS | | 1.00 | 0.0 - 1.0' | | 0.0 - 1.5' SAND, Silty Fine to medium grained, dark yellowish orange, 10 YR 6/6, dry, no odor, dense. |
| | BH4-2-B | | | 1.00 | 1.0 - 2.0' | | 1.5 - 4.0' GRAVEL, Sandy Fine to coarse grained, dark yellowish brown, 10 YR 4/2, poorly graded, no odor, dry, very dense (RR BALLAST). |
| | BH4-2-C | | | 1.00 | 2.0 - 3.0' | | |
| | BH4-2-D | | | 1.00 | 3.0 - 4.0' | | |
| 5 | BH4-2-E | | | 1.00 | 4.0 - 5.0' | | 4.0 - 13.0' SAND, Gravelly, Silty Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry, dense. |
| 10 | BH4-2-F | | | 2.00 | 10.0 - 12.0' | | |
| 15 | BH4-2-G | | | 2.00 | 15.0 - 17.0' | | 13.0 - 22.0' GRAVEL, Sandy, Silty Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, dry to moist, poorly graded, very dense, with cobbles - hydrocarbon staining at 19 feet. |
| 20 | | | | | | | |
| 25 | | | | | | | |



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Soil Boring Log

Hole Name: BH4-3

Date Hole Started: 11/18/99 Date Hole Finished: 11/18/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: C Bearor

County: El Paso

State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: Front slope, by railroad tracks, below
Sample Mill

Hole Diameter (in): 8

Total Depth Drilled (ft): 17

Recorded By: H Kutz

Remarks: Sampled from 10 feet BGS.

Static water level 11.5 feet BGS.

Boring abandoned with Bentonite Chips.

✓

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---|----------|--|
| 5 | | | | | | | 0.0 - 7.0' SLAG Black, angular, fractured. Gravel to cobble size. |
| 10 | BH4-3-A | SS | | 2/12' | 10.0 - 11.0' Very dense / little recovery | | 7.0 - 11.5' GRAVEL, Sandy, Silty Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, poorly graded, dry, with cobbles, very dense. |
| 15 | | | | | | | 11.5 - 17.0' SAND, Silty, Clayey Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry to wet, poorly graded, loose. |
| 20 | | | | | | | |



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Soil Boring Log

Hole Name: BH4-4

Date Hole Started: 11/18/99 Date Hole Finished: 11/18/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: D Hogan

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: Front slope, by railroad tracks, below DNL
bag house

Hole Diameter (in): 8

Recorded By: H Kutz

Total Depth Drilled (ft): 17

Remarks: Sampled from 0 feet to 12 feet BGS.

Static water level 15 feet BGS.

Boring abandoned with Bentonite Chips to 17 feet and cuttings to surface.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | BH4-4-A | SS | | 1.00 | 0.0 - 1.0' A2 Sample Duplicate | | |
| | BH4-4-B | | | 1.00 | 1.0 - 2.0' | | 0.0 - 1.0' SAND, Silty Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry, poorly graded, no odor, dense. |
| | BH4-4-C | | | 1.00 | 2.0 - 3.0' | | 1.0 - 3.0' SAND, Silty Fine to medium grained, dusky yellowish brown, 10 YR 2/2, dry, poorly graded, no odor, dense. |
| 5 | BH4-4-D | | | 1.00 | 3.0 - 4.0' | | 3.0 - 17.0' SAND, Silty, Gravelly Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, dry, poorly graded, no odor, dense, with gravel. |
| | BH4-4-E | | | 1.00 | 4.0 - 5.0' | | |
| 10 | BH4-4-F | | | 2.00 | 10.0 - 12.0' | | |
| 15 | | | | | | | |
| 20 | | | | | | | |



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Soil Boring Log

Hole Name: BH4-5

Date Hole Started: 11/18/99 Date Hole Finished: 11/18/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: D Hogan

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: Front slope, by railroad tracks, below
Roasters

Hole Diameter (in): 8

Recorded By: H Kutz

Total Depth Drilled (ft): 17

Remarks: Sampled from 0 feet to 12 feet BGS.

Static water level 13 feet BGS.

Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|------------------------|
| 5 | BH4-5-A | SS | | 1.00 | 0.0 - 1.0' A2 Sample Duplicate | | |
| | BH4-5-B | | | 1.00 | 1.0 - 2.0' | | |
| | BH4-5-C | | | 1.00 | 2.0 - 3.0' | | |
| | BH4-5-D | | | 1.00 | 3.0 - 4.0' | | |
| | BH4-5-E | | | 1.00 | 4.0 - 5.0' | | |
| | BH4-5-F | | | 2.00 | 10.0 - 12.0' | | |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |



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Soil Boring Log

Hole Name: BH4-6

Date Hole Started: 11/18/99 Date Hole Finished: 11/18/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: Front slope, by railroad tracks, below
Thickner

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 12 feet BGS.

Static water level 13.5 feet BGS.

Boring abandoned with Bentonite Chips.

Drilling Company: Alliance Environmental

Driller: D Hogan

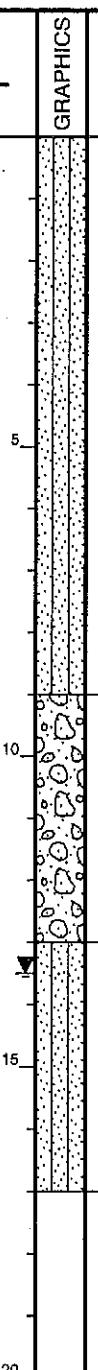
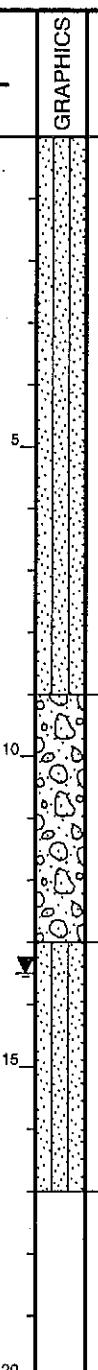
Drilling Method: Hollow Stem Auger

Drilling Fluids Used: None

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 8

Total Depth Drilled (ft): 17

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION | |
|-------|---------------|-------------|------------|-----------------|---------------------------------|--|---|--|
| | | | | | | | 5 | 10 |
| 5 | BH4-6-A | SS | | 1.00 | 0.0 - 1.0' |  | 0.0 - 9.0' SAND, Silty Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry, dense, poorly graded, no odor. | 9.0 - 13.0' GRAVEL, Sandy, Silty Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, dry to wet, poorly graded, dense, hydrocarbon odor & staining at water table. |
| | BH4-6-B | | | 1.00 | 1.0 - 2.0' | | | |
| | BH4-6-C | | | 1.00 | 2.0 - 3.0' | | | |
| | BH4-6-D | | | 1.00 | 3.0 - 4.0' | | | |
| | BH4-6-E | | | 1.00 | 4.0 - 5.0' E2 Sample Duplicate | | | |
| | | | | | | | | |
| 10 | | | | | |  | 13.0 - 17.0' SAND, Silty Fine to medium grained, moderate yellowish brown, 10 YR 5/4, moist to wet, dense, poorly graded, no odor. | |
| | BH4-6-F | | | 2.00 | 10.0 - 12.0' | | | |
| | | | | | | | | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Soil Boring Log

Hole Name: BH8-1

Date Hole Started: 10/29/99 Date Hole Finished: 10/30/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 450 feet South and 45 feet West of
South-West corner of the Unloading Building

Recorded By: H Kutz

Remarks: Sampled from 31 feet to 72 feet BGS.

Static water level 37 feet to 35 feet BGS.

Boring abandoned with Bentonite Chips.

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

Drilling Fluids Used: Water

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 6

Total Depth Drilled (ft): 75

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|----------------------------------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| 5 | | | | | | | |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |
| 30 | | | | | | | |
| 31.0 - 33.0' | BH8-1-A | CONT | 2.00 | | | | 0.0 - 0.2' ASPHALT 0.2 - 33.0' SLAG Black, angular, fractured. |
| 35.0 - 37.0' | BH8-1-B | | 2.00 | | | | |
| 40.0 - 42.0' | BH8-1-C | | 2.00 | | | | |
| 45.0 - 47.0' | BH8-1-D | | 2.00 | | | | |
| 50.0 - 52.0' | BH8-1-E | | 2.00 | | | | |
| 55.0 - 57.0' F2 Sample Duplicate | BH8-1-F | | 2.00 | | | | 33.0 - 75.0' SAND, Gravelly, Silty, Clayey Moderate yellowish brown, 10 YR 5/4, fine to coarse grained, moist to wet, no odor, - with cobbles below 45 feet, very dense - perched zone 32-37 feet - with boulders below 55 - with andesite cobbles/boulders below 70 feet. |
| 60.0 - 62.0' | BH8-1-G | | 2.00 | | | | |
| 65.0 - 67.0' | BH8-1-H | | 2.00 | | | | |
| 70.0 - 72.0' | BH8-1-I | | 2.00 | | | | |
| 75 | | | | | | | |



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Soil Boring Log

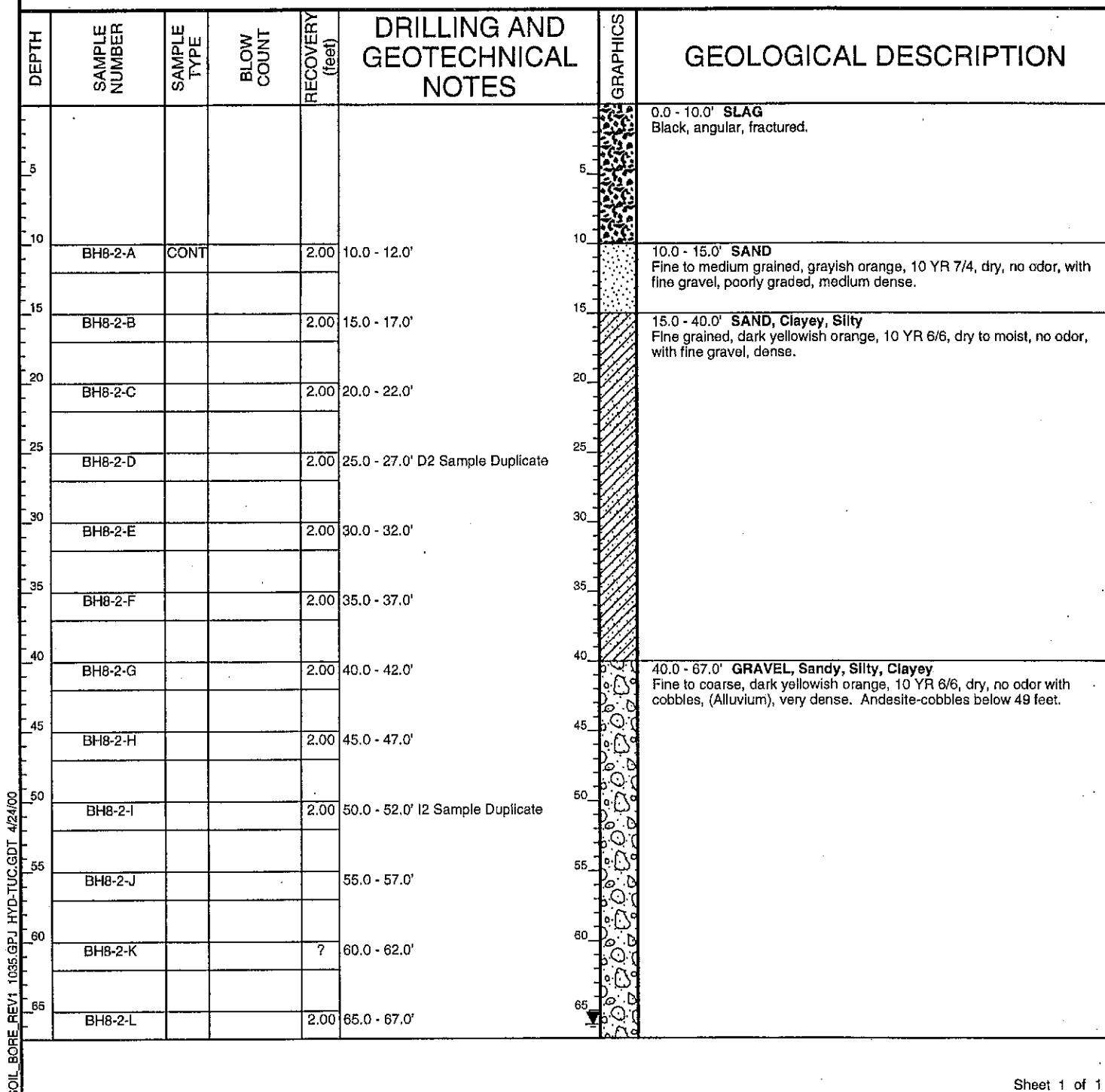
Hole Name: BH8-2

Date Hole Started: 11/1/99 Date Hole Finished: 11/1/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 930 feet Southeast of the South-West corner of the Unloading Building
Recorded By: H Kutz

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 67

Remarks: Sampled from 10 feet to 67 feet BGS.
Static water level 66 feet BGS.
Boring abandoned with Bentonite Chips.





HYDROMETRICS INC.
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El Paso, Texas

Soil Boring Log

Hole Name: BH8-3

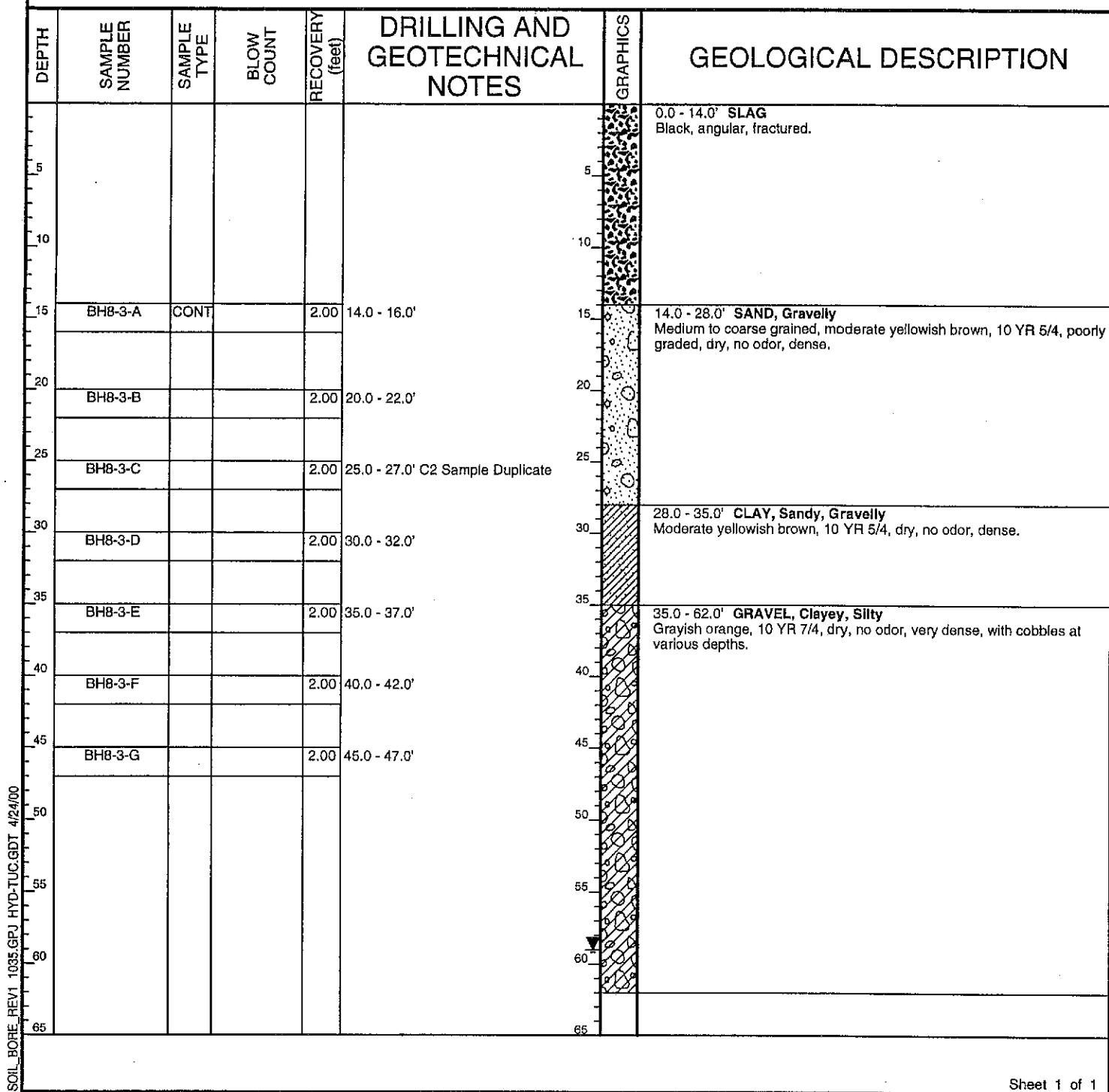
Date Hole Started: 11/1/99 Date Hole Finished: 11/2/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 480 feet South and 100 feet East of the South-East corner of the Unloading Building

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 62

Recorded By: H Kutz

Remarks: Sampled from 14 feet BGS.
Static water level 59 feet BGS.
Boring abandoned with Bentonite Chips.





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Soil Boring Log

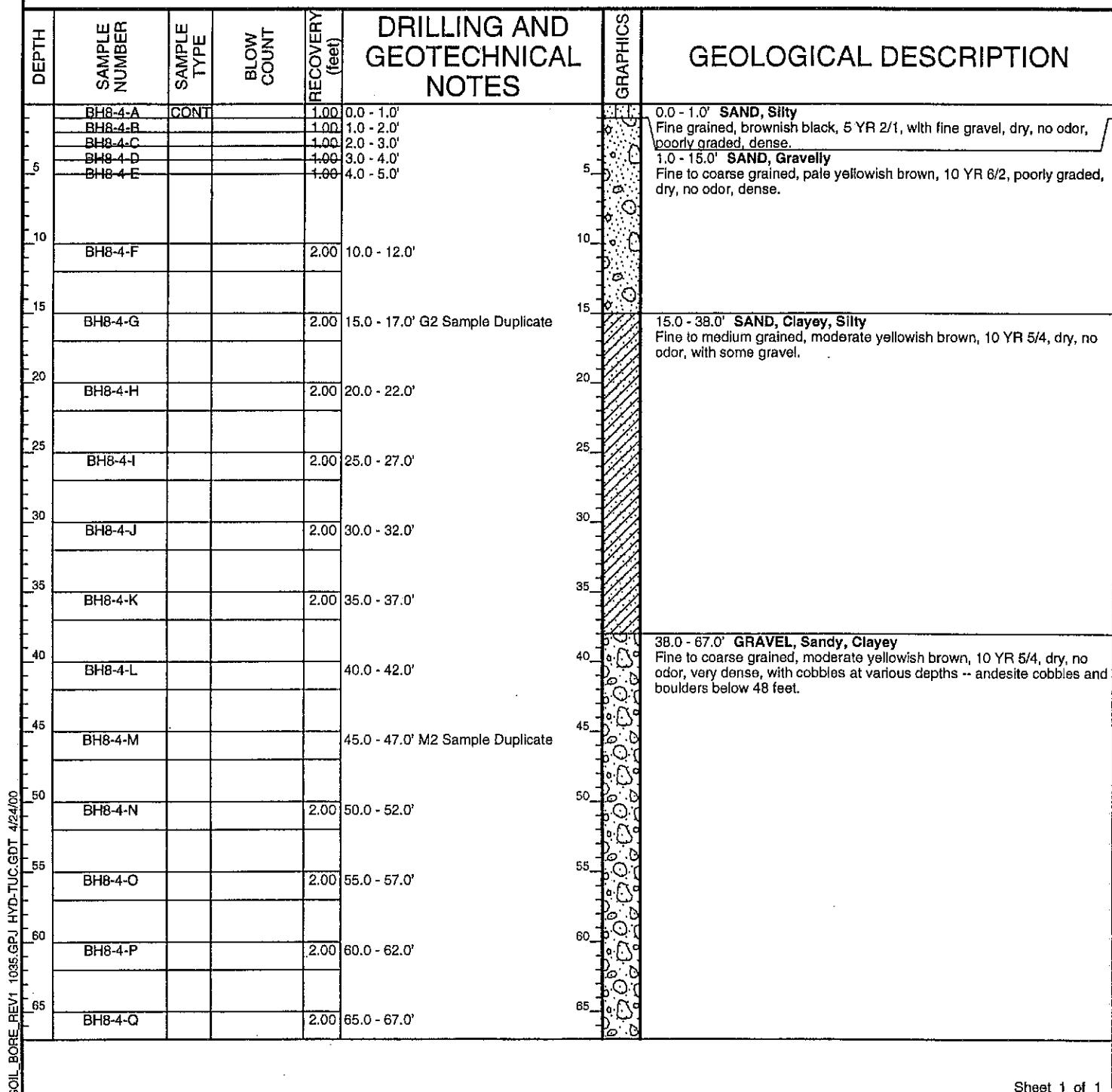
Hole Name: BH8-4

Date Hole Started: 11/2/99 Date Hole Finished:

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 90 feet Northeast of the South-East corner
of the Unloading Building
Recorded By: H Kutz

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 67

Remarks: Sampled from 0 feet to 67 feet BGS.
Moist at 22 feet to 25 feet and 30 feet to 35 feet BGS.
Boring abandoned with Bentonite Chips.





HYDROMETRICS INC.
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Hole Name: BH9-5-1

Date Hole Started: 2/9/00

Date Hole Finished: 2/9/00

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: North end of Pond No. 5

Drilling Company: Alliance Environmental
Driller: C Bearor
Drilling Method: Geoprobe
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 2
Total Depth Drilled (ft): 11

Recorded By: M Miles

Remarks: Sampled from 0 feet to 11 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|--|--|
| 5 | BH9-5-1-A | CONT | | 1.00 | 0.0 - 1.0' |  | 0.0 - 1.0' CLAY High plasticity, very fine, black, moist, no odor. |
| | BH9-5-1-B | | | 1.00 | 1.0 - 2.0' | | 1.0 - 10.0' CLAY High plasticity, fine, pale yellowish brown, 10 YR 6/2, wet, no odor. |
| | BH9-5-1-C | | | 1.00 | 2.0 - 3.0' | | |
| | BH9-5-1-D | | | 1.00 | 3.0 - 4.0' | | |
| | BH9-5-1-E | | | 1.00 | 4.0 - 5.0' | | |
| | BH9-5-1-F | | | 1.00 | 5.0 - 6.0' | | |
| | BH9-5-1-G | | | 1.00 | 10.0 - 11.0' | | 10.0 - 11.0' SAND, Gravelly Medium grained, sand mixed with gravel, 3 - 10 cm, pale yellowish brown no odor, moist. |



HYDROMETRICS INC.
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El Paso, Texas

Hole Name: BH9-5-2

Date Hole Started: 2/9/00

Date Hole Finished: 2/9/00

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: North end of Pond No. 5

Drilling Company: Alliance Environmental
Driller: C Bearor
Drilling Method: Geoprobe
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 2
Total Depth Drilled (ft): 8

Recorded By: M Miles

Remarks: Sampled from 0 feet to 8 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | BH9-5-2-A | CONT | | 1.00 | 0.0 - 1.0' | | 0.0 - 1.0' CLAY, Sandy Fine grained sand in pale yellowish brown clay with lenses of black fine clay, no odor, dry. |
| | BH9-5-2-B | | | 1.00 | 1.0 - 2.0' | | 1.0 - 5.0' CLAY High plasticity, fine grained, moist, no odor, black. |
| | BH9-5-2-C | | | 1.00 | 2.0 - 3.0' | | |
| | BH9-5-2-D | | | 1.00 | 3.0 - 4.0' | | |
| | BH9-5-2-E | | | 1.00 | 4.0 - 5.0' | | |
| 5 | BH9-5-2-F | | | 1.00 | 5.0 - 6.0' | | 5.0 - 7.0' CLAY, Sandy High plasticity, fine grained, with pale yellowish brown medium grained sand, black clay with lenses of pale yellowish brown clay. |
| | | | | | | | |
| | BH9-5-2-G | | | 1.00 | 7.0 - 8.0' | | 7.0 - 8.0' SAND Fine grained, pale yellowish brown with some gravel < 5%, moist, no odor. |
| 10 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Hole Name: BH9-5-3

Date Hole Started: 2/9/00

Date Hole Finished: 2/9/00

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: C Bearor

County: El Paso State: Texas

Drilling Method: Geoprobe

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: Center of Pond No. 5

Hole Diameter (in): 2

Recorded By: M Miles

Total Depth Drilled (ft): 4

Remarks: Sampled from 0 feet to 4 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | BH9-5-3-A | CONT | | | 0.0 - 1.0' | | 0.0 - 1.0' CLAY Pale yellowish brown, 10 YR 6/2, very dry, laminated, consolidated. |
| | BH9-5-3-B | | | | 1.0 - 2.0' | | 1.0 - 4.0' SAND, Gravelly Fine grained, pale yellowish brown, 10 YR 6/2, with some gravel, moist, no odor. |
| | BH9-5-3-C | | | | 2.0 - 3.0' | | |
| | BH9-5-3-D | | | | 3.0 - 4.0' | | |
| 5 | | | | | | 5 | |
| 10 | | | | | | 10 | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Hole Name: BH9-5-4

Date Hole Started: 2/9/00 Date Hole Finished: 2/9/00

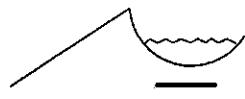
Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: Center of Pond No. 5

Drilling Company: Alliance Environmental
Driller: C Bearor
Drilling Method: Geoprobe
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 2
Total Depth Drilled (ft): 6

Recorded By: M Miles

Remarks: Sampled from 0 feet to 6 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | BH9-5-4-A | CONT | | 1.00 | 0.0 - 1.0' | | 0.0 - 2.0' CLAY Fine grained, pale, yellowish gray, 5 YR 8/1, consolidated, very dry, no odor. |
| | BH9-5-4-B | | | 1.00 | 1.0 - 2.0' | | |
| | BH9-5-4-C | | | 1.00 | 2.0 - 3.0' | | 2.0 - 5.5' CLAY High plasticity, fine grained, black, moist, with lenses of yellowish clay, no odor. |
| | BH9-5-4-D | | | 1.00 | 3.0 - 4.0' | | |
| | BH9-5-4-E | | | 1.00 | 4.0 - 5.0' | | |
| 5 | BH9-5-4-F | | | 1.00 | 5.0 - 6.0' | | 5.5 - 6.0' SAND Medium grained, pale yellowish brown, moist, no odor. |
| 10 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Hole Name: BH9-5-5

Date Hole Started: 2/9/00

Date Hole Finished: 2/9/00

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: C Bearor

County: El Paso State: Texas

Drilling Method: Geoprobe

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: Center of Pond No. 5

Hole Diameter (in): 2

Recorded By: M Miles

Total Depth Drilled (ft): 4

Remarks: Sampled from 0 feet to 4 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | BH9-5-5-A | CONT | | | 0.0 - 1.0' | | 0.0 - 3.5' CLAY Fine grained, pale yellowish brown, 10 YR 6/2, consolidated, no odor, dry |
| | BH9-5-5-B | | | | 1.0 - 2.0' | | |
| | BH9-5-5-C | | | | 2.0 - 3.0' | | |
| | BH9-5-5-D | | | | 3.0 - 4.0' | | 3.5 - 4.0' SAND Medium grained sand, moist, light brown, 5 YR 5/6, no odor, gravel <5%. |
| 5 | | | | | | 5 | |
| 10 | | | | | | 10 | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Hole Name: BH9-5-6

Date Hole Started: 2/9/00

Date Hole Finished: 2/9/00

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: South end of Pond No. 5

Drilling Company: Alliance Environmental
Driller: C Bearor
Drilling Method: Geoprobe
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 2
Total Depth Drilled (ft): 4

Recorded By: M Miles

Remarks: Sampled from 0 feet to 4 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | BH9-5-6-A | CONT | | | 0.0 - 1.0' | | 0.0 - 2.5' CLAY Fine grained pale yellowish brown, 10 YR 6/2, consolidated, very dry, no odor. |
| | BH9-5-6-B | | | | 1.0 - 2.0' | | |
| | BH9-5-6-C | | | | 2.0 - 3.0' | | |
| | BH9-5-6-D | | | | 3.0 - 4.0' | | 2.5 - 4.0' SAND Fine grained, pale yellowish brown, 10 YR 6/2, with less than 5% gravel, moist, no odor. |
| 5 | | | | | | 5 | |
| 10 | | | | | | 10 | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Hole Name: BH9-5-7

Date Hole Started: 2/9/00 Date Hole Finished: 2/9/00

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: South end of Pond No. 5

Drilling Company: Alliance Environmental
Driller: C Bearor
Drilling Method: Geoprobe
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 2
Total Depth Drilled (ft): 4

Recorded By: M Miles

Remarks: Sampled from 0 feet to 4 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | BH9-5-7-A | CONT | | | 0.0 - 1.0' | | 0.0 - 2.5' CLAY Fine grained, pale yellowish brown, 10 YR 6/2, consolidated, very dry, no odor. |
| | BH9-5-7-B | | | | 1.0 - 2.0' | | |
| | BH9-5-7-C | | | | 2.0 - 3.0' | | 2.5 - 4.0' SAND Coarse grained, moist, no odor, light brown, 5 YR 5/6, gravel < 5%. |
| | BH9-5-7-D | | | | 3.0 - 4.0' | | |
| 5 | | | | | | 5 | |
| 10 | | | | | | 10 | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Soil Boring Log

Hole Name: BH11-1

Date Hole Started: 7/21/99 Date Hole Finished: 7/21/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: East of I-10, East side of Terrace

Drilling Company: Alliance Environmental

Driller: Jorge Herald

Drilling Method: Hollow Stem Auger

Drilling Fluids Used: None

Purpose of Hole: Install Monitor Well/Collect Soil Samples

Hole Diameter (in): 8

Total Depth Drilled (ft): 62

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 62 feet BGS.

Static water level 58 feet BGS.

Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| 5 | BH11-1-A | SS | | 0.0 - 1.0' | | | 0.0 - 1.3' SAND, Gravelly Fine to coarse grained, gap graded, loose to medium dense in some places, pale yellow brown (10YR 6/2), dry, no odor, limestone gravel and slag. |
| | BH11-1-B | | | 1.0 - 2.0' | | | 1.3 - 2.0' SILT, Sandy Fine grained, lean, medium brown 5YR 5/6, dry, no odor some black/grey fines. |
| | BH11-1-C | | | 2.0 - 3.0' | | | 2.0 - 3.1' SAND Fine to coarse grained, uniform, well graded, loose pale yellow brown, 15 YR 6/2, dry, no odor. |
| | BH11-1-D | | | 3.0 - 4.0' | | | 3.1 - 4.6' SILT, Sandy, Clayey Fine grained, medium plasticity when wet, stiff, medium brown (5YR 5/6), dry, no odor. |
| | BH11-1-E | | | 4.0 - 5.0' | | | 4.6 - 8.0' SILT Fine grained, uniform, loose, very pale orange (10YR 8/2), dry, no odor. |
| 10 | BH11-1-F | | | 10.0 - 12.0' | | | 8.0 - 14.5' SAND Fine grained, loose, uniform, pale yellow brown (10YR 6/2), dry, no odor. |
| | | | | | | | |
| 15 | BH11-1-G | | | 15.0 - 17.0' | | | 14.5 - 48.0' SAND, Silty Fine grained, medium dense, uniform, pale yellow brown (10YR 6/2), dry, no odor, some clay with depth. |
| | | | | | | | |
| 20 | BH11-1-H | | | 20.0 - 22.0' | | | |
| | | | | | | | |
| 25 | BH11-1-I | | | 25.0 - 27.0' | | | |
| | | | | | | | |
| 30 | BH11-1-J | | | 30.0 - 32.0' | | | |
| | | | | | | | |
| 35 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Soil Boring Log

Hole Name: BH11-1

Date Hole Started: 7/21/99 Date Hole Finished: 7/21/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | BH11-1-K | SS | | | 35.0 - 37.0' | | |
| 40 | BH11-1-L | | | | 40.0 - 42.0' | | |
| 45 | BH11-1-M | | | | 45.0 - 47.0' | | |
| 50 | BH11-1-N | | | | 50.0 - 52.0' | | 48.0 - 62.0' SAND, Silty Fine grained, medium dense, uniform, moderate yellow brown (10YR 5/4), moist, no odor, with clay and fine gravel. |
| 55 | BH11-1-O | | | | 55.0 - 57.0' | | |
| 60 | BH11-1-P | | | | 60.0 - 62.0' | | |
| 65 | | | | | | | |
| 70 | | | | | | | |
| 75 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Soil Boring Log

Hole Name: BH11-2

Date Hole Started: 8/4/99 Date Hole Finished: 8/5/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: East of I-10, West end of Southern arroyo

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

Drilling Fluids Used: None

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 6

Total Depth Drilled (ft): 42

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 42 feet BGS.

Static water level 6 feet BGS.

Boring abandoned with Bentonite Chips from 42 feet to 10 feet and cuttings to surface.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---|----------|---|
| 5 | | | | | | | 0.0 - 5.5' SLAG Black, angular, fractured. |
| 10 | | | | | | | 5.5 - 9.0' SAND, Clayey, Silty Fine grained, moderate yellowish brown, 10 YR 5/4, moist, dense. |
| 15 | BH11-2-F | CONT | | 2.00 | 10.0 - 12.0' | | 9.0 - 42.0' GRAVEL, Silty, Sandy Fine to coarse, with cobbles, very pale orange, 10 YR 8/2, calcareous, (Alluvium) moist to dry, no odor, - with interbedded clay lenses, dry, hard below 35 feet. |
| 20 | BH11-2-G | | | 2.00 | 15.0 - 17.0' | | |
| 25 | BH11-2-H | | | 2.00 | 20.0 - 22.0' Moist, but not dripping. | | |
| 30 | BH11-2-I | | | 2.00 | 25.0 - 27.0' | | |
| 35 | BH11-2-J | | | 2.00 | 30.0 - 32.0' | | |
| 40 | BH11-2-K | | | 2.00 | 35.0 - 37.0' Interbedded clay lenses dry. K2 Sample Duplicate | | |
| 45 | BH11-2-L | | | 2.00 | 40.0 - 42.0' | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Soil Boring Log

Hole Name: BH11-3

Date Hole Started: 8/5/99 Date Hole Finished: 8/5/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, West end of Southern arroyo

Hole Diameter (in): 6

Recorded By: H Kutz

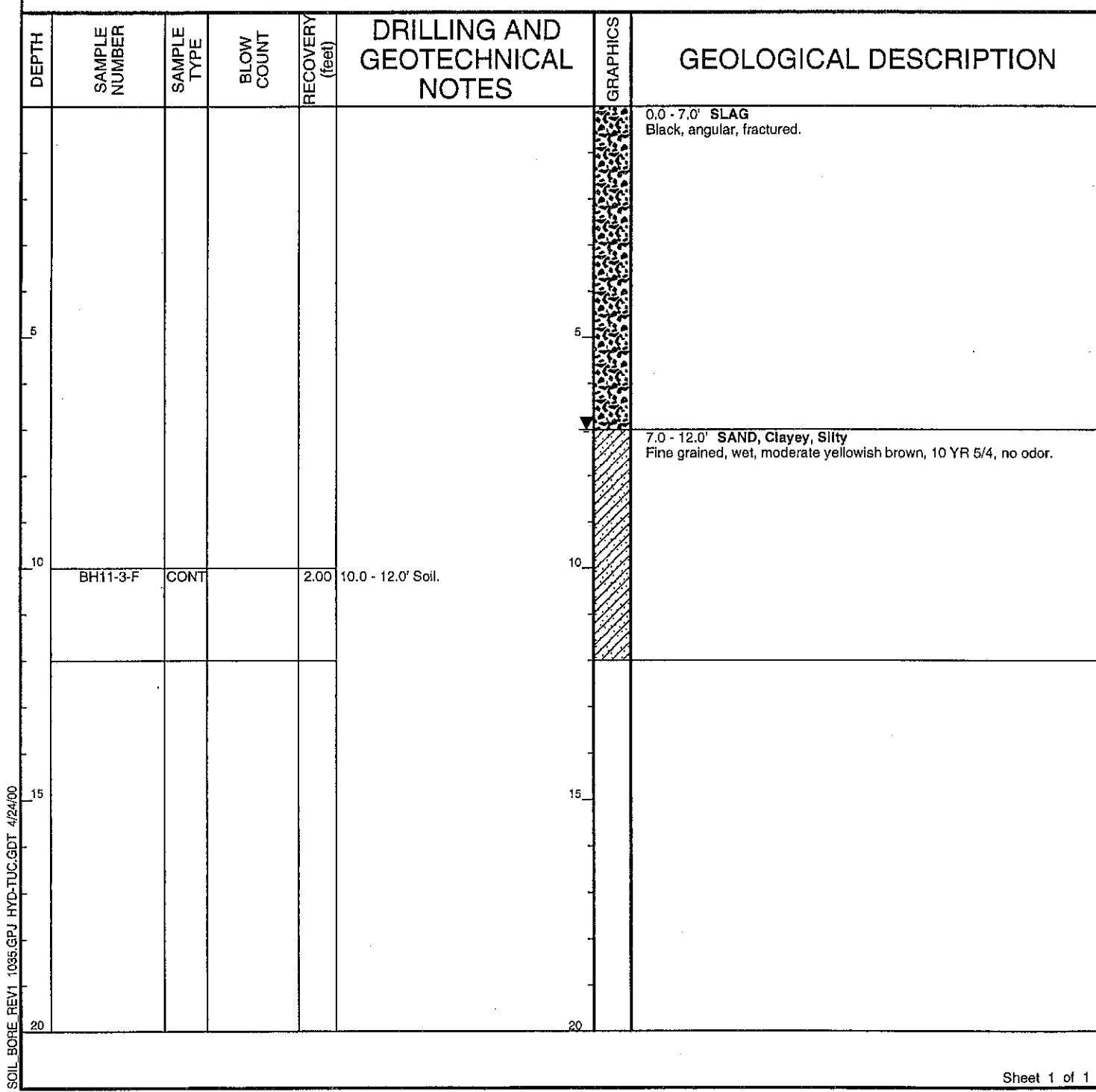
Total Depth Drilled (ft): 12

Remarks: Sampled from 10 feet to 12 feet BGS.



Static water level 7 feet BGS.

Boring abandoned with Bentonite Chips.





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Soil Boring Log

Hole Name: BH11-4

Date Hole Started: 8/5/99

Date Hole Finished: 8/6/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, Center portion of Southern arroyo

Hole Diameter (in): 6

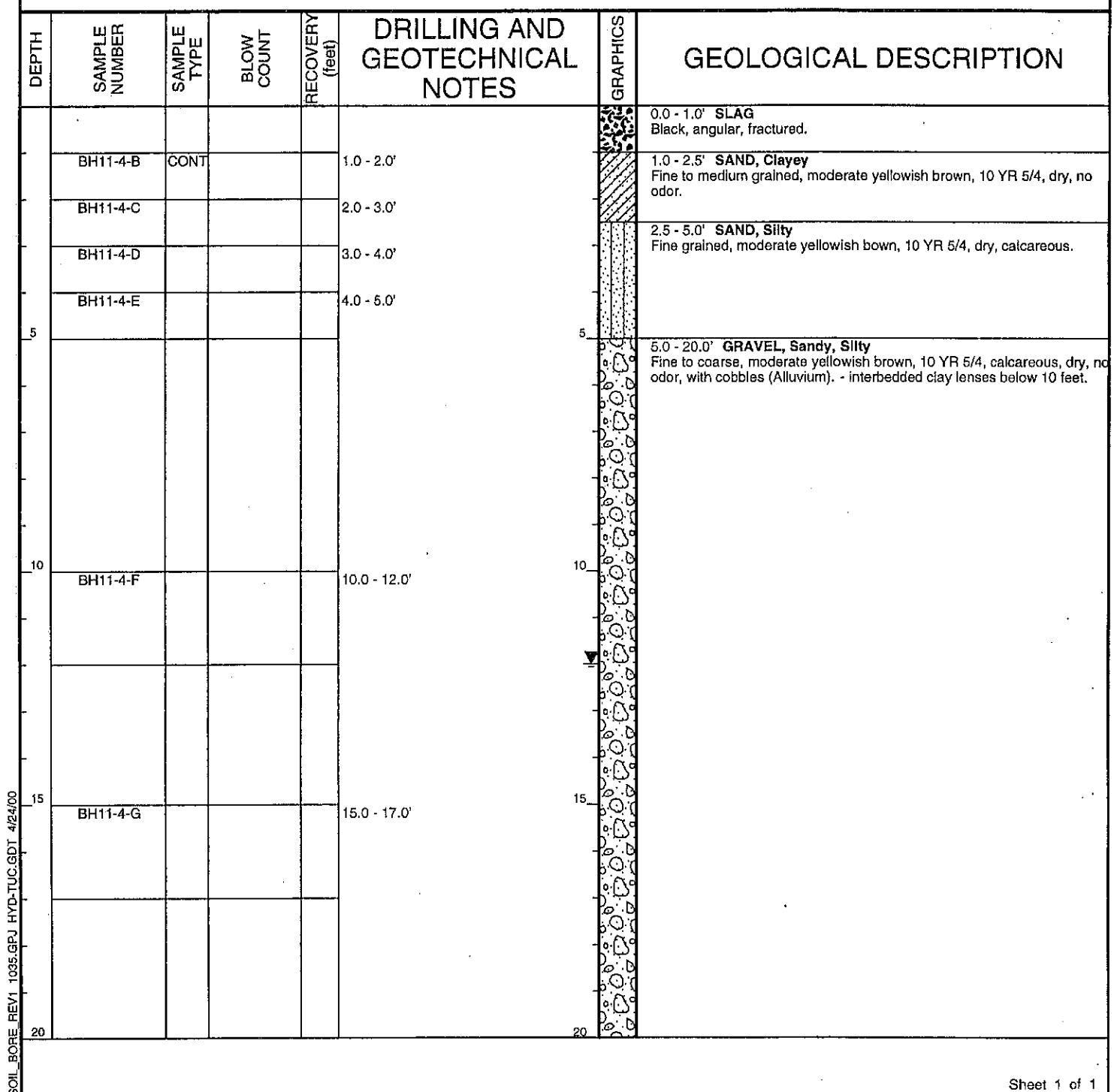
Total Depth Drilled (ft): 20

Recorded By: H Kutz

Remarks: Sampled from 1 foot to 17 feet BGS.

Static water level 12 feet BGS.

Boring abandoned with cuttings.





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Soil Boring Log

Hole Name: BH12-1

Date Hole Started: 11/3/99 Date Hole Finished: 11/3/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 150 Northeast of EP-109

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 17

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 16 feet BGS.
Static water level 16 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|----------------------------------|----------|---|
| | BH12-1-A | CONT | | 1.00 | 0.0 - 1.0' | | 0.0 - 2.0' SAND, Silty Fine grained, moderate yellowish brown, 10 YR 5/4, dry, no odor, poorly graded, loose. |
| | | | | | | | 2.0 - 3.0' SLAG Black, angular, fractured. |
| 5 | BH12-1-B | | | 1.00 | 3.0 - 4.0' | | 3.0 - 9.0' SAND Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry, no odor, poorly graded, medium dense. |
| | BH12-1-C | | | 1.00 | 4.0 - 5.0' | | |
| | | | | | | | |
| 10 | BH12-1-D | | | 2.00 | 10.0 - 12.0' | | 9.0 - 17.0' GRAVEL, Sandy, Clayey Fine to coarse grained, grayish orange, 10 YR 7/4, dry to wet, no odor, dense. |
| | | | | | | | |
| 15 | BH12-1-E | | | 1.00 | 15.0 - 16.0' E2 Sample Duplicate | | |
| | | | | | | | |
| 20 | | | | | | | |



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Soil Boring Log

Hole Name: BH12-2

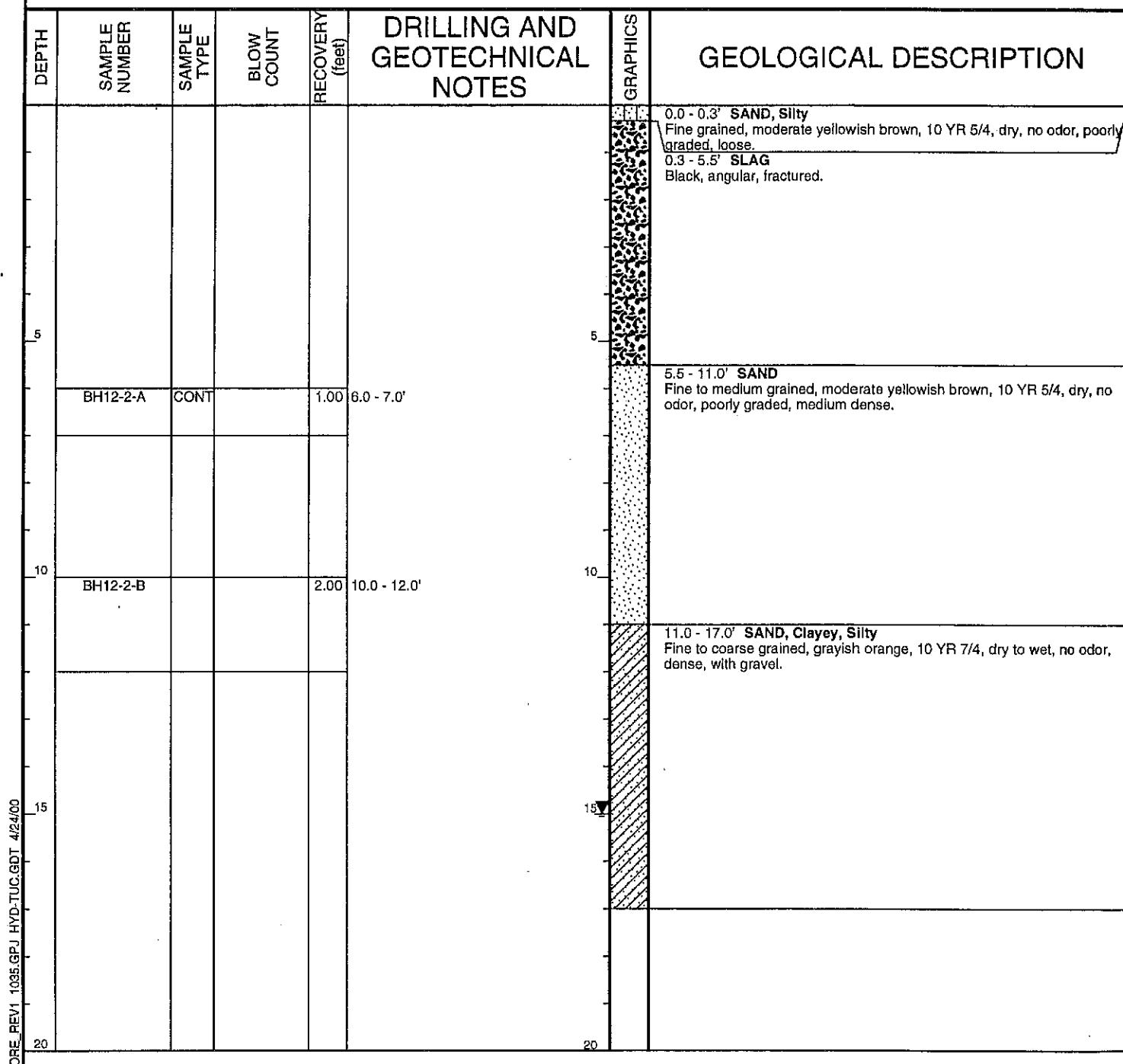
Date Hole Started: 11/3/99 Date Hole Finished: 11/3/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 150 feet East of EP-109

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 17

Recorded By: H Kutz

Remarks: Sampled from 6 feet to 12 feet BGS.
Static water level 15 feet BGS.
Boring abandoned with Bentonite Chips.





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Soil Boring Log

Hole Name: BH12-3

Date Hole Started: 11/3/99 Date Hole Finished: 11/3/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 210 feet East and 70 feet North of EP-109

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

Drilling Fluids Used: Water

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 6

Total Depth Drilled (ft): 22

Recorded By: H Kutz

Remarks: Sampled from 6 feet to 17 feet BGS.

Static water level 13 feet BGS,

Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|--------------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| 5 | | | | | | | 0.0 - 0.7' SAND, Silty Fine grained, moderate yellowish brown, 10 YR 5/4, dry, no odor, poorly graded, with slag gravel. 0.7 - 5.5' SLAG Black, angular, fractured. |
| 6.0 - 7.0' | BH12-3-A | CONT | 1.00 | | | | 6.5 - 9.0' SAND Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry, no odor, poorly graded, medium dense. |
| 10.0 - 12.0' | BH12-3-B | | | | | | 9.0 - 22.0' GRAVEL, Sandy, Clayey Fine to coarse, grayish orange, 10 YR 7/4, dry, no odor, very dense, with cobbles below 13 feet (Alluvium), andesite cobbles below 15 feet. |
| 15.0 - 17.0' | BH12-3-C | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |



HYDROMETRICS INC.
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Soil Boring Log

Hole Name: BH12-4

Date Hole Started: 11/3/99 Date Hole Finished: 11/3/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 120 feet East and 150 feet North of EP-109

Hole Diameter (in): 6

Total Depth Drilled (ft): 24

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 17 feet BGS.

Static water level 19 to 20 feet BGS.

Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|----------------------------------|----------|--|
| | BH12-4-A | CONT | | 1.00 | 0.0 - 1.0' | | 0.0 - 2.0' SILT, Sandy Very pale orange, 10 YR 8/2, dry, no odor, loose. |
| | BH12-4-B | | | 1.00 | 1.0 - 2.0' | | 2.0 - 3.0' SAND, Silty Fine to medium grained, grayish orange, 10 YR 7/4, dry, no odor, loose, poorly graded. 3.0 - 9.0' SLAG Black, angular, fractured. |
| 5 | BH12-4-C | | | 1.00 | 2.0 - 3.0' | | |
| 10 | BH12-4-D | | | 2.00 | 10.0 - 12.0' D2 Sample Duplicate | | 9.0 - 12.0' SAND, Silty Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry, no odor, poorly graded, dense. |
| 15 | BH12-4-E | | | 2.00 | 15.0 - 17.0' | | 12.0 - 14.0' SAND, Gravelly Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, dry, no odor, poorly graded, dense. 14.0 - 24.0' GRAVEL, Sandy, Clayey Fine to coarse grained, grayish orange, 10 YR 7/4, dry to moist, no odor, very dense, with cobbles at various depths. |
| 20 | | | | | | | |
| 25 | | | | | | | |



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Soil Boring Log

Hole Name: BH12-5

Date Hole Started: 11/4/99 Date Hole Finished: 11/4/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: East end of ephemeral pond arroyo

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 17

Recorded By: H Kutz

Remarks: Sampled from 8 feet to 10 feet BGS.
Static water level 10 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | | | | | | | 0.0 - 2.0' SAND Fine grained, black to brown, slag fines, dry, no odor, loose (sediments). |
| 5 | | | | | | | 2.0 - 6.0' SAND, Silty, Clayey Fine to medium grained, moderate yellowish brown, 10 YR 5/4, moist, with interbedded slag gravel and dust. |
| 6.0 | | | | | | | 6.0 - 8.0' SLAG Black, angular, fractured. |
| 8.0 | BH12-5-A | CONT | | 2.00 | 8.0 - 10.0' | | 8.0 - 17.0' GRAVEL, Sandy, Clayey Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, dry to moist, no odor. Water at 10 feet -- dry below 12 feet. |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |



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Soil Boring Log

Hole Name: BH12-6

Date Hole Started: 11/4/99 Date Hole Finished: 11/4/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: Center area of ephemeral pond arroyo

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 17

Recorded By: H Kutz

Remarks: Sampled from 12 feet to 13 feet BGS.
Static water level 12 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION | |
|--------------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|--|
| | | | | | | | 5 | 10 |
| | | | | | | | 0.0 - 1.0' SAND, Silty Fine grained, black to gray slag fines, dry to moist (sediment), no odor. | 1.0 - 12.0' SLAG Black, angular, fractured. |
| 5 | | | | | | | | |
| 10 | | | | | | | | |
| 12.0 - 13.0' | BH12-6-A | CONT | | 1.00 | | | 12.0 - 17.0' GRAVEL, Sandy, Clayey Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, moist to wet, no odor, poorly graded with cobbles. | |
| 15 | | | | | | | | |
| 20 | | | | | | | | |



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Soil Boring Log

Hole Name: BH12-7

Date Hole Started: 11/4/99 Date Hole Finished: 11/4/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

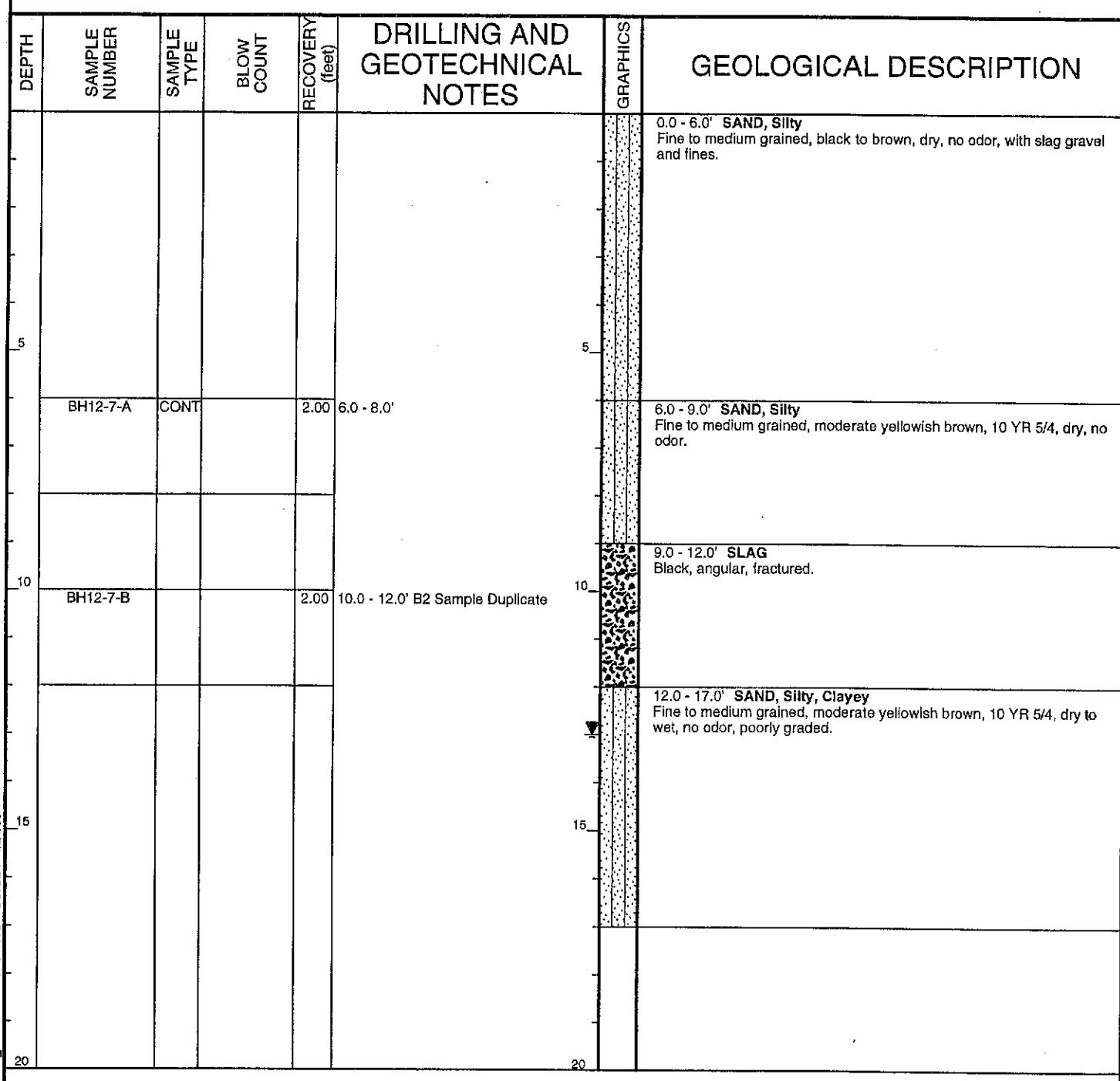
Descriptive Location: West end of ephemeral pond arroyo

Hole Diameter (in): 6

Recorded By: H Kutz

Total Depth Drilled (ft): 17

Remarks: Sampled from 6 feet to 12 feet BGS.
Static water level 13 feet BGS.
Boring abandoned with Bentonite Chips.





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Soil Boring Log

Hole Name: BH12-8

Date Hole Started: 11/4/99 Date Hole Finished: 11/4/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso

State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: Center area of ephemeral pond arroyo

Hole Diameter (in): 6

Total Depth Drilled (ft): 17

Recorded By: H Kutz

Remarks: Sampled from 2 feet to 5 feet BGS.

Static water level 14 feet BGS.

Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | | | | | | | 0.0 - 3.0' SAND, Silty Fine grained, black to brown, dry, no odor, slag gravel and fines. |
| | BH12-8-A | CONT | | 2.0 - 3.0' | | | |
| | BH12-8-B | | | 3.0 - 4.0' | | | 3.0 - 5.0' SAND, Silty, Clayey Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry, no odor, poorly graded. |
| 5 | BH12-8-C | | | 4.0 - 5.0' | | 5 | 5.0 - 14.0' SLAG Black, angular, fractured. |
| 10 | | | | | | 10 | |
| 15 | | | | | | 15 | 14.0 - 17.0' SAND Fine to medium grained, moderate yellowish brown to gray, 10 YR 5/4, dry to wet, septic odor, poorly graded. |
| 20 | | | | | | 20 | |



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Soil Boring Log

Hole Name: BH12-9

Date Hole Started: 11/4/99 Date Hole Finished: 11/4/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East end of ephemeral pond arroyo

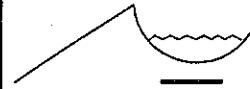
Hole Diameter (in): 6

Recorded By: H Kutz

Total Depth Drilled (ft): 14

Remarks: Sampled from 4 feet to 9 feet BGS.
Static water level 9 feet BGS.
Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | | | | | | | 0.0 - 4.0' SAND Fine grained, black to brown, dry, no odor, slag fines, poorly graded, loose (sediment). |
| 5 | BH12-9-A | CONT | | | 4.0 - 5.0' A2 Sample Duplicate | | 4.0 - 14.0' GRAVEL, Sandy, Clayey Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, dry, no odor, poorly graded, very dense. |
| | | | | | | | |
| | BH12-9-B | | | | 8.0 - 9.0' | | |
| 10 | | | | | | | |
| | | | | | | | |
| 15 | | | | | | | |



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Soil Boring Log

Hole Name: BH14-1

Date Hole Started: 11/5/99 Date Hole Finished: 11/8/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

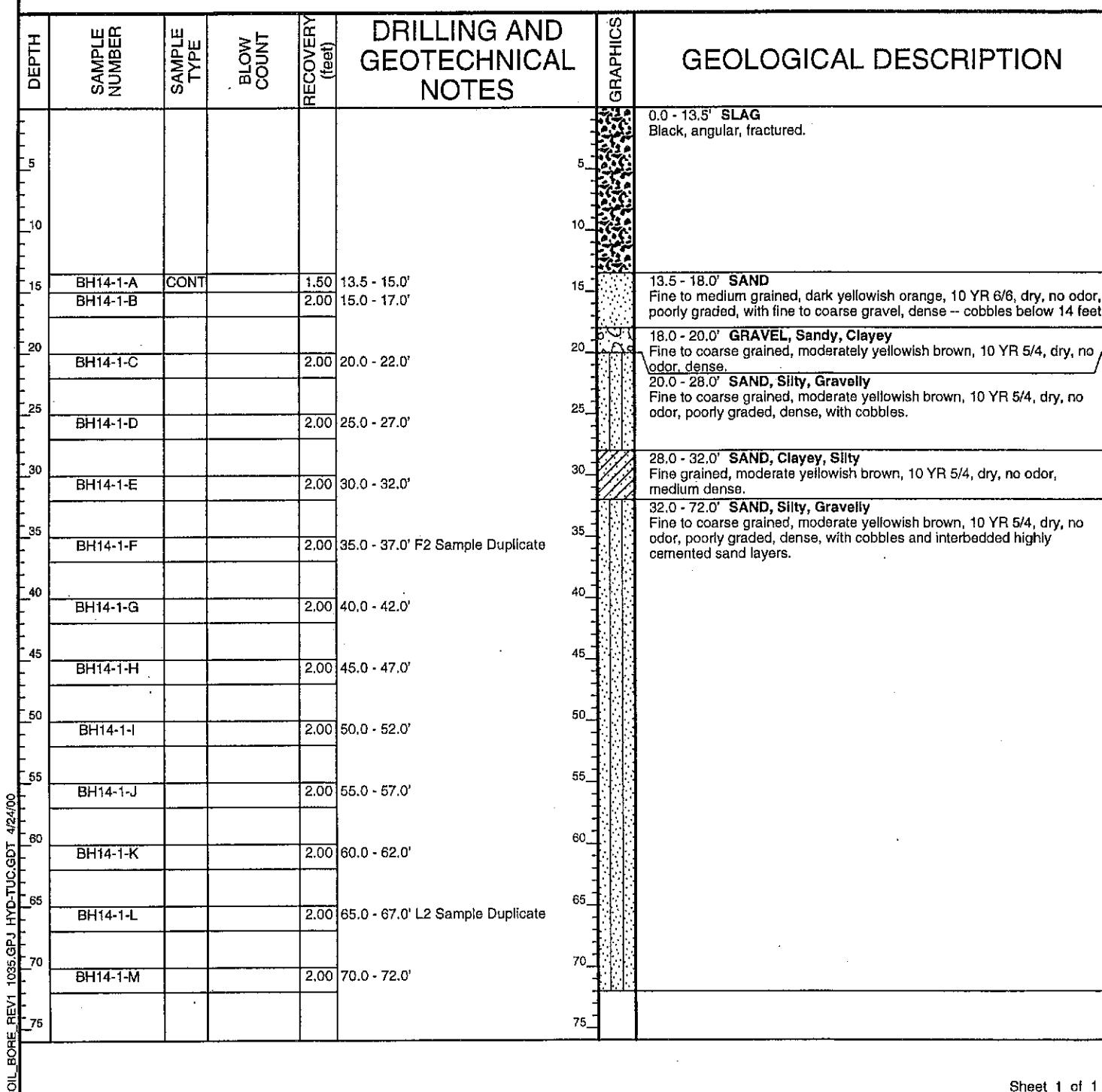
Descriptive Location: 175 feet Northwest of EP-70, near new storm drainage basin

Hole Diameter (in): 6

Recorded By: H Kutz

Total Depth Drilled (ft): 72

Remarks: Sampled from 13.5 feet to 72 feet BGS.
Boring abandoned with Bentonite Chips.





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Soil Boring Log

Hole Name: BH14-2

Date Hole Started: 12/16/99 Date Hole Finished: 12/16/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: 200 feet East of EM-02, near new storm drainage basin

Hole Diameter (in): 6

Recorded By: W Wilson

Total Depth Drilled (ft): 64

Remarks: Sampled from 0 feet to 60 feet BGS.

Static water level 60 feet BGS.

Boring abandoned with Bentonite Chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|----------------------------------|---------------------------------|----------|---|
| | BH14-2-A | CONT | | 0.0 - 1.0' | | | 0.0 - 2.0' SAND, Silty, Gravelly |
| | BH14-2-B | | | 1.0 - 2.0' | | | Dark gray, Sand 50%; fine to coarse; Fines 30%; silt non-plastic, Gravel 20%; fine, N3, angular slag brick & lithics; medium dense, dry. [Fill] |
| | BH14-2-C | | | 2.0 - 3.0' | | | 2.0 - 3.0' GRAVEL, Silty, Sandy |
| 5 | BH14-2-D | | | 3.0 - 4.0' | | | Light gray, N7, Gravel 40%; Fine to medium brick fragments; Silt 30% non-plastic; Sand 30% fine; loose, dry. [Fill] |
| | BH14-2-E | | | 4.0 - 5.0' | | | 3.0 - 8.0' SAND, Gravelly, Silty |
| | | | | | | | Pale yellowish brown, 10 YR 6/2, Sand 50% fine to coarse grained; Gravel 30% fine to medium subangular to subround quartzite and igneous; Fines 20% non-plastic; medium dense, dry. [Alluvium] |
| 10 | BH14-2-F | | | 10.0 - 12.0' | | | 8.0 - 20.0' SAND, Gravelly |
| | | | | | | | Light yellowish brown, Sand 60%, Fine to coarse; Gravel ~ 40% Fine to coarse subround quartzite and igneous max 2"; Fines < 5%; medium dense, dry. [Alluvium] |
| 15 | BH14-2-G | | | 15.0 - 17.0' | | | |
| 20 | BH14-2-H | | | 20.0 - 22.0' | | | 20.0 - 32.0' SAND, Gravelly |
| | | | | | | | Light yellowish brown, Sand 60%, Fine to coarse; Gravel ~ 30% fine to coarse subround quartzite and igneous max 2"; Fine < 20%; medium dense, dry. [Alluvium] |
| 25 | BH14-2-I | | | 25.0 - 27.0' I2 Sample Duplicate | | | |
| 30 | BH14-2-J | | | 30.0 - 32.0' | | | 32.0 - 35.0' SAND, Clayey, Gravelly |
| 35 | | | | | | | Yellowish brown, Sand 50% fine to coarse Angular - Subangular; Fines 30% Plastic in 2-3" layer occasionally; Gravel 20%, fine to coarse subangular quartzite and igneous; medium dense, moist. [Colluvium] |



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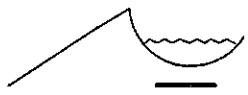
Soil Boring Log

Hole Name: BH14-2

Date Hole Started: 12/16/99 Date Hole Finished: 12/16/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---|----------|--|
| | BH14-2-K | CONT | | | 35.0 - 37.0' | | 35.0 - 64.0' GRAVEL, Sandy, Clayey Yellowish brown to grayish brown, Gravel 20%, fine to coarse subangular Cobbles 30%; Clay 20% Slightly plastic; Sand 30%, fine to coarse grained, subangular; very dense, moist. |
| 40 | BH14-2-L | | | | 40.0 - 42.0' | | |
| 45 | BH14-2-M | | | | 45.0 - 47.0' | | |
| 50 | BH14-2-O | | | | 50.0 - 52.0' | | |
| 55 | BH14-2-P | | | | 55.0 - 57.0' | | |
| 60 | BH14-2-Q | | | | 60.0 - 62.0' Q2 Sample Duplicate 13:32 | | |
| 65 | | | | | | | |
| 70 | | | | | | | |
| 75 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Soil Boring Log

Hole Name: BH14-3

Date Hole Started: 12/15/99 Date Hole Finished: 12/15/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 120 feet South of EM-02, near new storm drainage basin

Recorded By: W Wilson

Remarks: Sampled from 0 feet to 65 feet BGS.

Static water level 60 feet BGS.

Boring abandoned with Bentonite Chips.

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

Drilling Fluids Used: Water

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 6

Total Depth Drilled (ft): 67

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|----------------------------------|---------------------------------|----------|--|
| | BH14-3-A | CONT | | 0.0 - 1.0' | | | |
| | BH14-3-B | | | 1.0 - 2.0' | | | |
| | BH14-3-C | | | 2.0 - 3.0' | | | |
| 5 | BH14-3-D | | | 3.0 - 4.0' | | | |
| | BH14-3-E | | | 4.0 - 5.0' | | | |
| | | | | | | | 0.0 - 8.0' SAND, Gravelly |
| | | | | | | | Light yellowish brown, Sand 60%, fine to medium; Gravel ~ 40%, fine to coarse, subrounded quartzite and igneous; medium dense, dry. [Fill] |
| 10 | | | | | | | |
| | BH14-3-F | | | 10.0 - 12.0' | | | 8.0 - 14.0' SAND, Gravelly |
| | | | | | | | Light yellowish brown, Sand 90% fine; Gravel ~10%, fine to medium grained round to subround, medium dense, dry. [Alluvium] |
| 15 | | | | | | | |
| | BH14-3-G | | | 15.0 - 17.0' | | | 14.0 - 20.0' CLAY, Sandy |
| | | | | | | | Pale Brown, Clay 80%, firm moderately plastic, silty with stringers of gypsum; Sand 20% fine to coarse grained, subangular; firm, moist, ~10%, Gravels from 18 - 20 feet. [Alluvium] |
| 20 | | | | | | | |
| | BH14-3-H | | | 20.0 - 22.0' | | | 20.0 - 24.5' SAND, Gravelly, Clayey |
| | | | | | | | Pale yellowish brown, Sand 50%, fine to coarse; Gravel 30% fine to medium, subangular; Fines 20%, non-plastic; medium dense, dry. [Alluvium] |
| 25 | | | | | | | |
| | BH14-3-I | | | 25.0 - 27.0' | | | 24.5 - 28.0' CLAY, Sandy, Silty |
| | | | | | | | Dark yellowish brown, Clay 80%, slightly plastic, silty; Sand 20%, very fine to fine grained; firm, moist. [Alluvium] |
| 30 | | | | | | | |
| | BH14-3-J | | | 30.0 - 32.0' J2 Sample Duplicate | | | 28.0 - 34.0' CLAY, Gravelly, Sandy |
| | | | | | | | Clay 50%, medium plastic, firm; silty; Gravel 30%, fine to coarse angular to subangular igneous; Sand 20%, fine to coarse grained, subangular to subround; firm to very firm, moist. [Colluvium] |
| 35 | | | | | | | |
| | BH14-3-K | | | 35.0 - 37.0' | | | 34.0 - 50.0' CLAY, Gravelly, Sandy |
| | | | | | | | Clay 30%, medium plastic, firm; silty; Gravel 50%, fine to coarse angular to subangular igneous; Sand 20%, fine to coarse grained, subangular to subround; firm to very firm, moist. Granitic cobbles at 45 feet. [Colluvium] |
| 40 | | | | | | | |
| | BH14-3-L | | | 40.0 - 42.0' | | | |
| | | | | | | | |
| 45 | | | | | | | |
| | BH14-3-M | | | 45.0 - 47.0' | | | |
| | | | | | | | |
| 50 | | | | | | | |
| | BH14-3-N | | | 50.0 - 52.0' | | | 50.0 - 55.0' CLAY, Gravelly, Sandy |
| | | | | | | | Clay 30%, medium plastic, firm; silty; Gravel 20%, fine to coarse grained, angular to subangular igneous; Sand 20%, fine to coarse grained, subangular to subround; Cobbles 30% andesite; firm to very firm, moist. [Colluvium] |
| 55 | | | | | | | |
| | BH14-3-O | | | 55.0 - 57.0' | | | 55.0 - 67.0' CLAY, Gravelly, Sandy |
| | | | | | | | Clay 30%, medium plastic, firm; silty; Gravel 30%, fine to coarse grained, angular to subangular igneous; Sand 20%, fine to coarse, subangular to subround; Cobbles 40% andesite; Fines 10%; firm to very firm, moist. [Colluvium] |
| 60 | | | | | | | |
| | BH14-3-P | | | 60.0 - 62.0' | | | |
| | | | | | | | |
| 65 | | | | | | | |
| | BH14-3-Q | | | 65.0 - 67.0' Q2 Sample Duplicate | | | |



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Soil Boring Log

Hole Name: SSIA11-1

Date Hole Started: 7/19/99 Date Hole Finished: 7/19/99

Client: ASARCO, Inc.

Drilling Company: Hydrometrics, Inc.

Project: Remedial Investigation Phase II

Driller: H Kutz

County: El Paso State: Texas

Drilling Method: Hand Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, Center of Southern arroyo, in pasture area

Hole Diameter (in): 4

Recorded By: H Kutz

Total Depth Drilled (ft): 5

Remarks: Sampled from 0 feet to 3 feet BGS.

Static water level 2.75 feet BGS.

Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | SSIA11-1-A | GRAB | | 1.00 | 0.0 - 1.0' | | 0.0 - 5.0' SAND, Silty Fine grained, clayey, dusky yellowish brown, 10 YR 2/2, moist, with organic material. |
| | SSIA11-1-B | | | 1.00 | 1.0 - 2.0' | | |
| | SSIA11-1-C | | | 1.00 | 2.0 - 3.0' | | |



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Soil Boring Log

Hole Name: SSIA11-2

Date Hole Started: 7/19/99 Date Hole Finished: 7/19/99

Client: ASARCO, Inc. Drilling Company: Alliance Environmental
Project: Remedial Investigation Phase II Driller: H Kutz
County: El Paso State: Texas Drilling Method: Hand Auger
Property Owner: ASARCO, Inc. Drilling Fluids Used: None
Legal Description: ASARCO El Paso Plant Purpose of Hole: Collect Soil Samples
Descriptive Location: East of I-10, Center of Southern arroyo, in Hole Diameter (in): 4
pasture area Total Depth Drilled (ft): 5

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 3 feet BGS.
Static water level 2.75 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | SSIA11-2-A | GRAB | | 1.00 | 0.0 - 1.0' | | 0.0 - 5.0' SAND, Silty Fine grained, clayey, dusky yellowish brown, 10 YR 2/2, moist, with organic material. |
| | SSIA11-2-B | | | 1.00 | 1.0 - 2.0' | | |
| | | | | | | | |



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Soil Boring Log

Hole Name: SSIA11-3

Date Hole Started: 7/20/99 Date Hole Finished: 7/20/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Jorge Herald

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, Center of Terrace

Hole Diameter (in): 8

Recorded By: H Kutz

Total Depth Drilled (ft): 5

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | SSIA11-3-A | SS | | 1.00 | 0.0 - 1.0' | | 0.0 - 5.0' SAND Fine to coarse grained, uniform, 0 - 4" pale yellow brown, 10 YR 6/2, 4" - dark yellow brown, 10 YR 4/2, dry, no odor. On surface - slag brick, wood misc. debris, limestone gravel (fill and reworked soil). |
| | | | | | | | |
| | SSIA11-3-C | | | 0.50 | 2.0 - 3.0' | | |
| | SSIA11-3-D | | | 0.50 | 3.0 - 4.0' | | |
| | SSIA11-3-E | | | 0.20 | 4.0 - 5.0' | | |



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Soil Boring Log

Hole Name: SSIA11-4

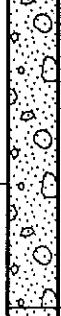
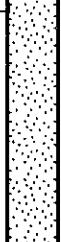
Date Hole Started: 7/20/99 Date Hole Finished: 7/20/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: East of I-10, Center of Terrace

Drilling Company: Alliance Environmental
Driller: Jorge Herald
Drilling Method: Hollow Stem Auger
Drilling Fluids Used:
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 8
Total Depth Drilled (ft): 5

Recorded By: L Johnson

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|---|---|
| | SSIA11-4-A | SS | | 4* | 0.0 - 1.0' Rock in shoe |  | 0.0 - 3.5' SAND, Gravelly Fine to coarse grained, gap graded, loose, limestone gravel (15%) pale yellow brown, 10 YR 6/2, changing to dark yellow brown, 10 YR 4/2, dry, no odor, back to pale yellow brown, 10 YR 6/2, at 1.4'. |
| | SSIA11-4-B | | | | 1.0 - 2.0' |  | |
| | SSIA11-4-C | | | | 2.0 - 3.0' |  | |
| | SSIA11-4-D | | | | 3.0 - 4.0' |  | 3.5 - 5.0' SAND Fine to coarse grained, uniform, loose, pale yellow brown, dry no odor. |
| | SSIA11-4-E | | | | 4.0 - 5.0' |  | |



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Soil Boring Log

Hole Name: SSIA11-5

Date Hole Started: 7/20/99 Date Hole Finished: 7/20/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: East of I-10, East end of Terrace

Drilling Company: Alliance Environmental
Driller: Jorge Herald
Drilling Method: Hollow Stem Auger
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 8
Total Depth Drilled (ft): 5

Recorded By: L Johnson

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | SSIA11-5-A | SS | | 1.00 | 0.0 - 1.0' A2 Sample Duplicate | | 0.0 - 5.0' SAND, Gravelly Fine to coarse grained, gap graded, limestone gravel 1/2 - 4", loose pale yellow brown, 10 YR 6/2, dry no odor. |
| | SSIA11-5-C | | | | 2.0 - 3.0' | | |
| | SSIA11-5-E | | | | 4.0 - 5.0' | | |



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Soil Boring Log

Hole Name: SSIA11-6

Date Hole Started: 7/20/99 Date Hole Finished: 7/20/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: East of I-10, West end of Terrace

Recorded By: H Kutz

Drilling Company: Alliance Environmental
Driller: Jorge Herald
Drilling Method: Hollow Stem Auger
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 8
Total Depth Drilled (ft): 5

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | SSIA11-6-A | SS | | | 0.0 - 1.0' | | 0.0 - 5.0' SAND, Silty Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, with gravel medium dense, surface weathered andesite and debris piles with andesite cobbles-boulders, brick debris from 4 - 5 feet bgs. |
| | SSIA11-6-B | | | | 1.0 - 2.0' | | |
| | SSIA11-6-C | | | | 2.0 - 3.0' | | |
| | SSIA11-6-D | | | | 3.0 - 4.0' Rock in Shoe | | |
| | SSIA11-6-E | | | | 4.0 - 5.0' | | |



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Soil Boring Log

Hole Name: SSIA11-7

Date Hole Started: 7/20/99 Date Hole Finished: 7/20/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: East of I-10, West end of Terrace
Recorded By: H Kutz

Drilling Company: Alliance Environmental
Driller: Jorge Herald
Drilling Method: Hollow Stem Auger
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 8
Total Depth Drilled (ft): 5

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | SSIA11-7-A | SS | | | 0.0 - 1.0' A2 Sample Duplicate | | 0.0 - 5.0' SAND, Silty Brown to black, fine to medium grained with fine gravel, dry, medium dense, with brick debris. Surface andesite piles, cobbles and boulders. |
| | SSIA11-7-B | | | 0.25 | 1.0 - 2.0' | | |
| | SSIA11-7-C | | | 0.25 | 2.0 - 3.0' | | |
| | SSIA11-7-D | | | 0.25 | 3.0 - 4.0' | | |
| | SSIA11-7-E | | | | 4.0 - 5.0' | | |



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Soil Boring Log

Hole Name: SSIA11-8

Date Hole Started: 7/21/99 Date Hole Finished: 7/21/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: East of I-10, on West toe of Terrace

Drilling Company: Alliance Environmental
Driller: Jorge Herald
Drilling Method: Hollow Stem Auger
Drilling Fluids Used: None
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 8
Total Depth Drilled (ft): 5

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | SSIA11-8-A | SS | | 1.00 | 0.0 - 1.0' Red Brick/Debris | | 0.0 - 5.0' SAND, Silty Fine to medium grained, dusky yellowish brown, 10 YR 2/2, moist, with some brick and some fine gravel. Moderate yellowish brown 10 YR 5/4 below 1 foot. |
| | SSIA11-8-B | | | 0.50 | 1.0 - 2.0' | | |
| | SSIA11-8-C | | | 0.50 | 2.0 - 3.0' | | |
| | SSIA11-8-D | | | 0.50 | 3.0 - 4.0' | | |
| | SSIA11-8-E | | | 0.20 | 4.0 - 5.0' Brick in Shoe | | |



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Soil Boring Log

Hole Name: SSIA11-9

Date Hole Started: 7/21/99 Date Hole Finished: 7/21/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: East of I-10, West end of Southern arroyo,
on Slag area by electric station

Recorded By: H Kutz

Drilling Company: Alliance Environmental

Driller: Jorge Herald

Drilling Method: Hollow Stem Auger

Drilling Fluids Used: None

Purpose of Hole: Collect Soil Samples

Hole Diameter (in): 8

Total Depth Drilled (ft): 5

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.
No samples taken.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|--|---|
| 5 | | | | | |  | 0.0 - 5.0' Slag Black, angular, fractured. |



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Soil Boring Log

Hole Name: SSIA11-10

Date Hole Started: 8/4/99

Date Hole Finished: 8/4/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Jorge Herald

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, Center of Southern arroyo,
North edge

Hole Diameter (in): 8

Recorded By: H Kutz

Total Depth Drilled (ft): 4

Remarks: Sampled from 0 feet to 4 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|---|--|
| | SSIA11-10-A | SS | | 1.00 | 0.0 - 1.0' |  | <p>0.0 - 0.1' SLAG Black, angular, fractured.</p> <p>0.1 - 2.5' SAND, Silty Fine to medium grained, dark yellowish brown, 10 YR 4/2, moist, medium dense, no odor, moderate yellowish brown, 10 YR 5/4, and fine grained below 1 foot.</p> |
| | SSIA11-10-B | | | 1.00 | 1.0 - 2.0' |  | |
| | SSIA11-10-C | | | 0.25 | 2.0 - 3.0' Rock in Shoe |  | <p>2.5 - 3.0' SLAG Black, angular, fractured.</p> |
| | SSIA11-10-D | | | 1.00 | 3.0 - 4.0' |  | <p>3.0 - 4.0' SAND, Silty, Clayey Fine grained, dry, very dense, yellowish brown, 10 YR 4/2, no odor.</p> |
| | | | | | |  | Auger Refusal at 4 feet |



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Soil Boring Log

Hole Name: SSIA11-11

Date Hole Started: 8/4/99

Date Hole Finished: 8/4/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Jorge Herald

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, Center of Southern arroyo

Hole Diameter (in): 8

Total Depth Drilled (ft): 5

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | SSIA11-11-A | SS | | 0.50 | 0.0 - 1.0' Rock in Shoe | | 0.0 - 5.0' SAND, Silty Fine coarse grained, dusky yellowish brown, 10 YR 2/2, dry, dense, no odor, moderate yellowish brown, 10 YR 5/4, below 1 foot with fine gravel with calcareous material below 2 1/2 feet. |
| | SSIA11-11-B | | | 0.50 | 1.0 - 2.0' Rock in Shoe | | |
| | SSIA11-11-C | | | 1.00 | 2.0 - 3.0' | | |
| | SSIA11-11-D | | | 1.00 | 3.0 - 4.0' Calcareous Material | | |
| | SSIA11-11-E | | | 0.50 | 4.0 - 5.0' Bouncing | | |



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Soil Boring Log

Hole Name: SSIA11-12

Date Hole Started: 8/4/9

Date Hole Finished: 8/4/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Jorge Herald

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, Center of Southern arroyo,
South edge

Hole Diameter (in): 8

Total Depth Drilled (ft): 5

Recorded By: H Kutz

Remarks: Static water level 2.5 feet BGS.
Boring abandoned with cuttings.
No samples taken.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|--|---|
| | | | | | |  | <p>0.0 - 0.2' SAND, Silty</p> <p>0.2 - 5.0' SLAG Black, angular, fractured.</p> |



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Soil Boring Log

Hole Name: SSIA11-13

Date Hole Started: 8/5/99

Date Hole Finished: 8/5/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, West end of Southern arroyo

Hole Diameter (in): 6

Recorded By: H Kutz

Total Depth Drilled (ft): 5

Remarks: Boring abandoned with cuttings.
No samples taken.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | | | | | | | 0.0 - 5.0' SAND, Silty, Clayey Fine grained, moderate yellowish brown, 10 YR 5/4, with Slag Gravel. |



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Soil Boring Log

Hole Name: SSIA11-14

Date Hole Started: 8/6/99 Date Hole Finished: 8/6/99

Client: ASARCO, Inc. Drilling Company: Alliance Environmental
Project: Remedial Investigation Phase II Driller: Oscar Medrano
County: El Paso State: Texas Drilling Method: Sonic
Property Owner: ASARCO, Inc. Drilling Fluids Used: Water
Legal Description: ASARCO El Paso Plant Purpose of Hole: Collect Soil Samples
Descriptive Location: East of I-10, East end of Southern arroyo Hole Diameter (in): 6
Recorded By: H Kutz Total Depth Drilled (ft): 5

Remarks: Sampled from 1 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION | |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|------------|
| | | | | | | | 0.0 - 0.5' | 0.5 - 5.0' |
| | | | | | | | 0.0 - 0.5' SLAG Black, angular, fractured. | |
| | SSIA11-14-B | CONT | | | 1.0 - 2.0' | | 0.5 - 5.0' SAND, Silty Fine to medium grained, moderate yellowish brown, 10 YR 5/4, dry, no odor - calcareous below 3 feet with gravel. | |
| | SSIA11-14-C | | | | 2.0 - 3.0' | | | |
| | SSIA11-14-D | | | | 3.0 - 4.0' | | | |
| | SSIA11-14-E | | | | 4.0 - 5.0' | | | |



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Soil Boring Log

Hole Name: SSIA11-15

Date Hole Started: 8/6/99 Date Hole Finished: 8/6/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, Center of Southern arroyo

Hole Diameter (in): 6

Recorded By: H Kutz

Total Depth Drilled (ft): 5

Remarks: Sampled from 0 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | SSIA11-15-A | CONT | | 1.00 | 0.0 - 1.0' Some Slag | | 0.0 - 5.0' SAND, Silty Fine to medium grained moderate yellowish brown, 10 YR 5/4, moist to dry, no odor - pale yellowish orange, 10 YR 8/6, material at 2 1/2 - 3 feet, - with gravel below 3 feet. |
| | SSIA11-15-B | | | 1.00 | 1.0 - 2.0' | | |
| | SSIA11-15-C | | | 1.00 | 2.0 - 3.0' | | |
| | SSIA11-15-D | | | 1.00 | 3.0 - 4.0' | | |
| | SSIA11-15-E | | | 1.00 | 4.0 - 5.0' | | |



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Soil Boring Log

Hole Name: SSIA11-16

Date Hole Started: 8/6/99

Date Hole Finished: 8/6/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Collect Soil Samples

Descriptive Location: East of I-10, Center of Southern arroyo

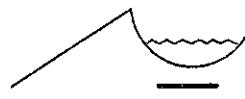
Hole Diameter (in): 6

Recorded By: H Kutz

Total Depth Drilled (ft): 5

Remarks: Sampled from 1 feet to 5 feet BGS.
Boring abandoned with cuttings.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| | | | | | | | 0.0 - 0.5' SLAG Black, angular, fractured. |
| | SSIA11-16-B | CONT | | 1.00 | 1.0 - 2.0' | | 0.5 - 5.0' SAND, Silty, Clayey Fine grained, pale yellowish brown, 10 YR 6/2, dry, no odor, very dense. |
| | SSIA11-16-C | | | 1.00 | 2.0 - 3.0' | | |
| | SSIA11-16-D | | | 1.00 | 3.0 - 4.0' | | |
| 5 | SSIA11-16-E | | | 1.00 | 4.0 - 5.0' E2 Sample Duplicate | 5 | |
| 10 | | | | | | 10 | |



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Soil Boring Log

Hole Name: SSIA11-17

Date Hole Started: 11/4/99 Date Hole Finished: 11/4/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: East of I-10, Center of Southern arroyo

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Collect Soil Samples
Hole Diameter (in): 6
Total Depth Drilled (ft): 5

✓

Recorded By: H Kutz

Remarks: Sampled from 0 feet to 1 foot BGS.
Boring abandoned with Bentonite chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | SSIA11-17-A | Cont | | 1.00 | 0.0 - 1.0' | | 0.0 - 1.0' SAND, Silty, Clayey Fine grained, moderate yellowish brown, 10 YR 5/4, dry to moist, loose, (sediment). |
| | | | | | | | 1.0 - 5.0' SLAG Black, angular, fractured. |



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Soil Boring Log

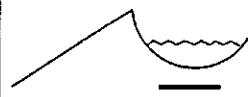
Hole Name: SSIA11-18

Date Hole Started: 11/5/99 Date Hole Finished: 11/5/99

Client: ASARCO, Inc. Drilling Company: Alliance Environmental
Project: Remedial Investigation Phase II Driller: Oscar Medrano
County: El Paso State: Texas Drilling Method: Hand Auger
Property Owner: ASARCO, Inc. Drilling Fluids Used: Water
Legal Description: ASARCO El Paso Plant Purpose of Hole: Collect Soil Samples
Descriptive Location: East of I-10, Center of Capture Basin Hole Diameter (in): 4
behind flood control dam Total Depth Drilled (ft): 3
Recorded By: H Kutz & M Cons

Remarks: Sampled from 0 feet to 3 feet BGS.
Static water level 2.5 feet BGS.
Boring abandoned with Bentonite chips.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | SSIA11-18-A | CONT | | 1.00 | 0.0 - 1.0' | | 0.0 - 2.0' SAND, Silty Fine grained, pale yellowish brown, 10 YR 6/2, dry, no odor, poorly graded, loose. |
| | SSIA11-18-B | | | 1.00 | 1.0 - 2.0' | | |
| | SSIA11-18-C | | | 1.00 | 2.0 - 3.0' | ▼ | 2.0 - 3.0' SAND, Clayey, Silty Fine grained, pale yellowish brown, 10 YR 6/2, moist to wet, no odor, poorly graded, loose. |



HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-93

Date Hole Started: 7/21/99 Date Hole Finished: 7/21/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: East of I-10, center of Terrace

Drilling Company: Alliance Environmental

Driller: Jorge Herald

Drilling Method: Hollow Stem Auger

Drilling Fluids Used: None

Purpose of Hole: Install Well/Collect Soil Samples

Hole Diameter (in): 10.25

Total Depth Drilled (ft): 62

Recorded By: H Kutz

Remarks: Initial boring 6.25 inches in diameter for sample collection. Hole reamed to 10.25 inches for installation of 4-inch diameter monitor well.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|------------------------|
| 5 | EP-93-A | SS | | 1.00 | 0.0 - 1.0' | | |
| | EP-93-B | SS | | 1.00 | 1.0 - 2.0' | | |
| | EP-93-C | SS | | 1.00 | 2.0 - 3.0' | | |
| | EP-93-D | SS | | 1.00 | 3.0 - 4.0' Color Change | | |
| | EP-93-E | SS | | 0.20 | 4.0 - 5.0' Rock in Shoe | | |
| 10 | EP-93-F * | SS | | 0.20 | 10.0 - 12.0' | | |
| 15 | EP-93-G | SS | | 0.20 | 15.0 - 17.0' | | |
| 20 | EP-93-H * | SS | | 0.20 | 20.0 - 22.0' | | |
| 25 | EP-93-I | SS | | 1.00 | 25.0 - 27.0' | | |
| 30 | EP-93-J | SS | | | 30.0 - 32.0' | | |
| | EP-93-J2 | SS | | | 30.5 - 32.5' | | |
| 35 | EP-93-K | SS | | | 35.0 - 37.0' | | |
| 40 | EP-93-L | SS | | | 40.0 - 42.0' | | |
| 45 | EP-93-M | SS | | | 45.0 - 47.0' | | |
| 50 | EP-93-N | SS | | | 50.0 - 52.0' H2O = 48' | | |
| 55 | | | | | | | |
| 60 | | | | | | | |
| 65 | | | | | | | |



HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-94

Date Hole Started: 7/26/99 Date Hole Finished: 7/26/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Jorge Herald

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

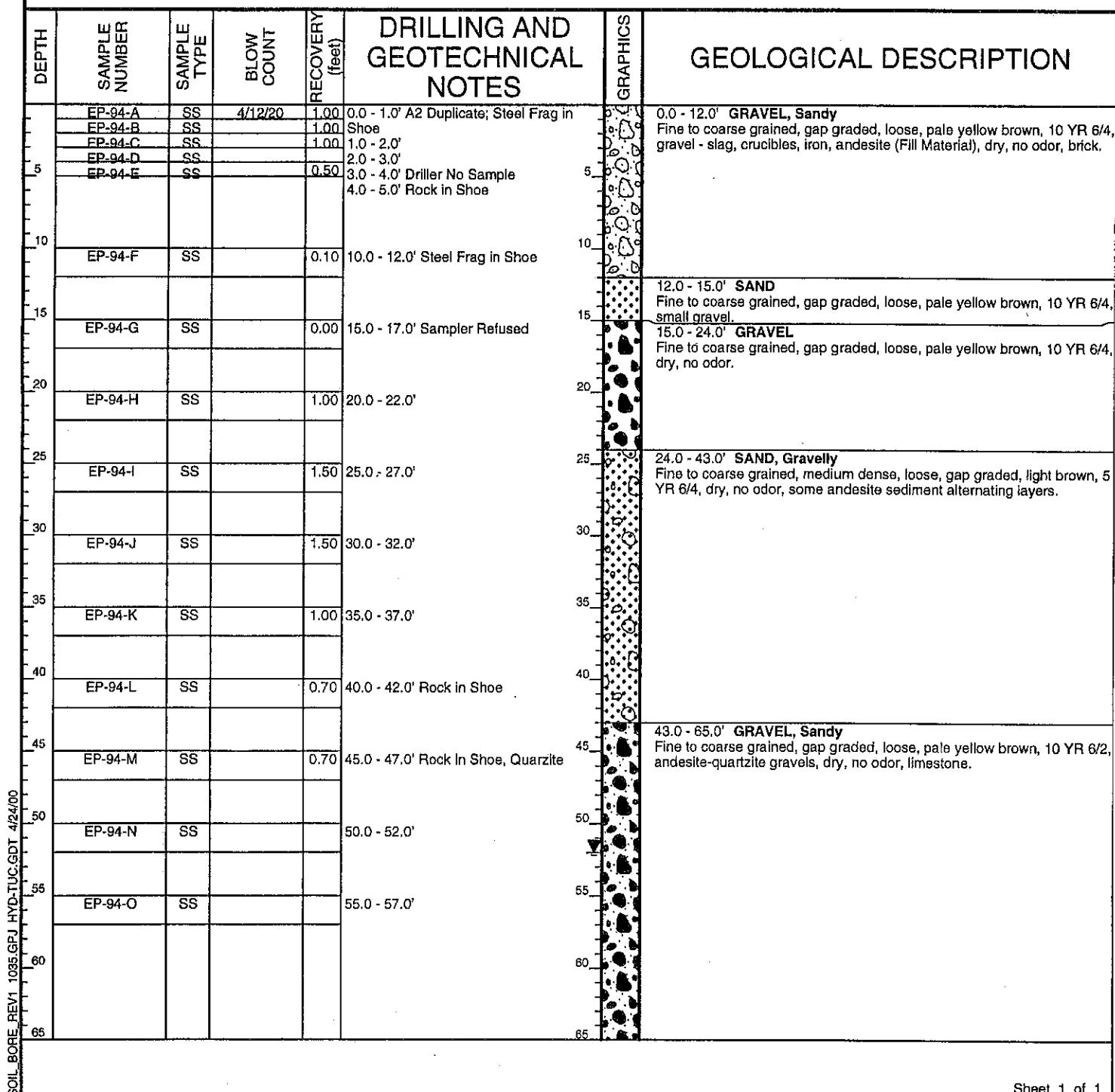
Descriptive Location: East of I-10 on west toe of Terrace

Hole Diameter (in): 10.25

Total Depth Drilled (ft): 65

Recorded By: H Kutz

Remarks: Initial boring 6.25 inches in diameter for sample collection. Hole reamed to 10.25 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-95

Date Hole Started: 10/18/99 Date Hole Finished: 10/20/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

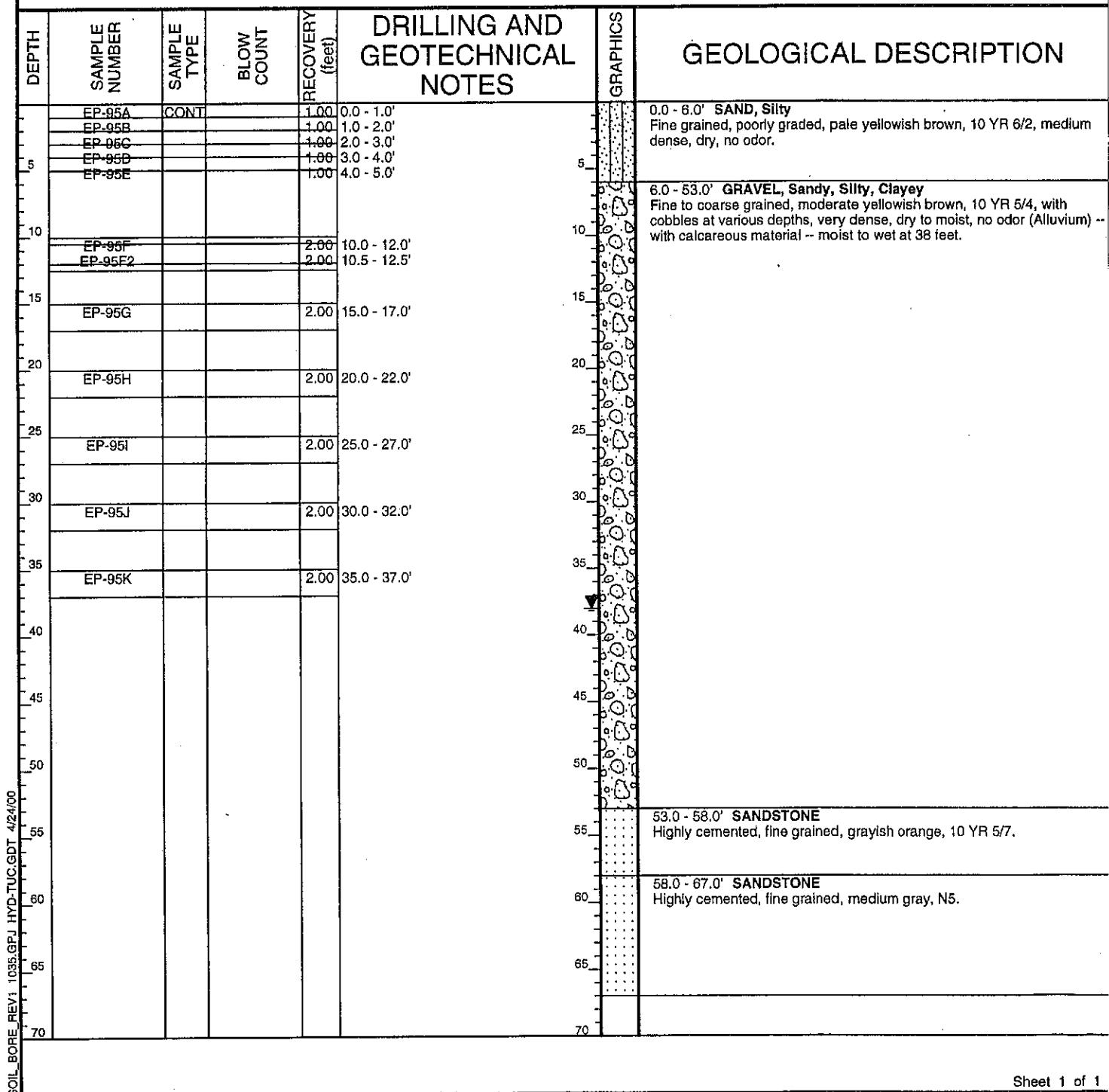
Descriptive Location: East of I-10, center of North Arroyo

Hole Diameter (in): 8

Recorded By: H Kutz

Total Depth Drilled (ft): 67

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-96

Date Hole Started: 7/20/99 Date Hole Finished: 7/20/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: East of I-10, east side of Terrace

Drilling Company: Alliance Environmental

Driller: Jorge Herald

Drilling Method: Hollow Stem Auger

Drilling Fluids Used: None

Purpose of Hole: Install Well/Collect Soil Samples

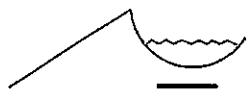
Hole Diameter (in): 10.25

Total Depth Drilled (ft): 62

Recorded By: W Wilson

Remarks: Initial boring 6.25 inches in diameter for sample collection. Hole reamed to 10.25 inches for installation of 4-inch diameter monitor well.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| 5 | EP-96-A | SS | | 0.0 - 1.0' | | 5 | 0.0 - 1.3' SAND, Gravelly Fine to coarse grained, gap graded, loose to medium dense in some places, pale yellow brown, 10 YR 6/2, dry, no odor, gravel - ls, slag. |
| | EP-96-B | SS | | 1.0 - 2.0' | | | 1.3 - 2.0' SILT, Sandy Fine grained, lean, medium brown, 5 YR 5/6, dry, no odor, some black/gray lines. |
| | EP-96-C | SS | | 2.0 - 3.0' | | | 2.0 - 3.1' SAND Fine to coarse uniform, well graded, loose, pale yellow brown, dry, no odor. |
| | EP-96-D | SS | | 3.0 - 4.0' | | | 3.1 - 4.6' SILT, Sandy, Clayey Fine grained, medium plasticity when wet, stiff, medium brown, 5 YR 5/6, dry, no odor. |
| | EP-96-E | SS | | 4.0 - 5.0' | | | 4.6 - 8.0' SILT Fine grained uniform, loose, very pale orange, 10 YR 8/2, dry, no odor. |
| 10 | | | | 8.0 - 14.5' | | 10 | SAND Fine grained, loose, uniform, pale yellow brown, 10 YR 6/2, dry, no odor. |
| | EP-96-F | SS | | 10.0 - 12.0' | | | |
| | | | | 15.0 - 17.0' | | | |
| 15 | EP-96-G | SS | | 15.0 - 17.0' | | 15 | 14.5 - 48.0' SAND, Silty Fine grained, medium dense, uniform, pale yellow brown, 10 YR 6/2, dry, no odor, some clay with depth. |
| | | | | 20.0 - 22.0' | | | |
| | EP-96-H | SS | | 25.0 - 27.0' | | | |
| 25 | EP-96-I | SS | | 25.0 - 27.0' | | 25 | |
| | | | | 30 | | | |



HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-96

Date Hole Started: 7/20/99 Date Hole Finished: 7/20/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|---|---------------|-------------|------------|-----------------|---------------------------------|----------|------------------------|
| | EP-96-J | SS | | 30.0 - 32.0' | | | |
| | EP-96-J2 | SS | | 30.5 - 32.5' | | | |
| 35 | | | | | | | |
| | EP-96-K | SS | | 35.0 - 37.0' | | | |
| 40 | | | | | | | |
| | EP-96-L | SS | | 40.0 - 42.0' | | | |
| 45 | | | | | | | |
| | EP-96-M | SS | | 45.0 - 47.0' | | | |
| 50 | | | | | | | |
| | EP-96-N | SS | | 50.0 - 52.0' | | | |
| | EP-96-N2 | SS | | 50.5 - 52.5' | | | |
| 55 | | | | | | | |
| | EP-96-O | SS | | 55.0 - 57.0' | | | |
| 60 | | | | | | | |
| | EP-96-P | SS | | 60.0 - 62.0' | | | |
| 65 | | | | | | | |
| SOIL BORE REV1 1035.GPJ HYD-TUG.GDT 4/24/00 | | | | | | | |



HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-97

Date Hole Started: 8/4/99

Date Hole Finished: 8/4/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Jorge Herald

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

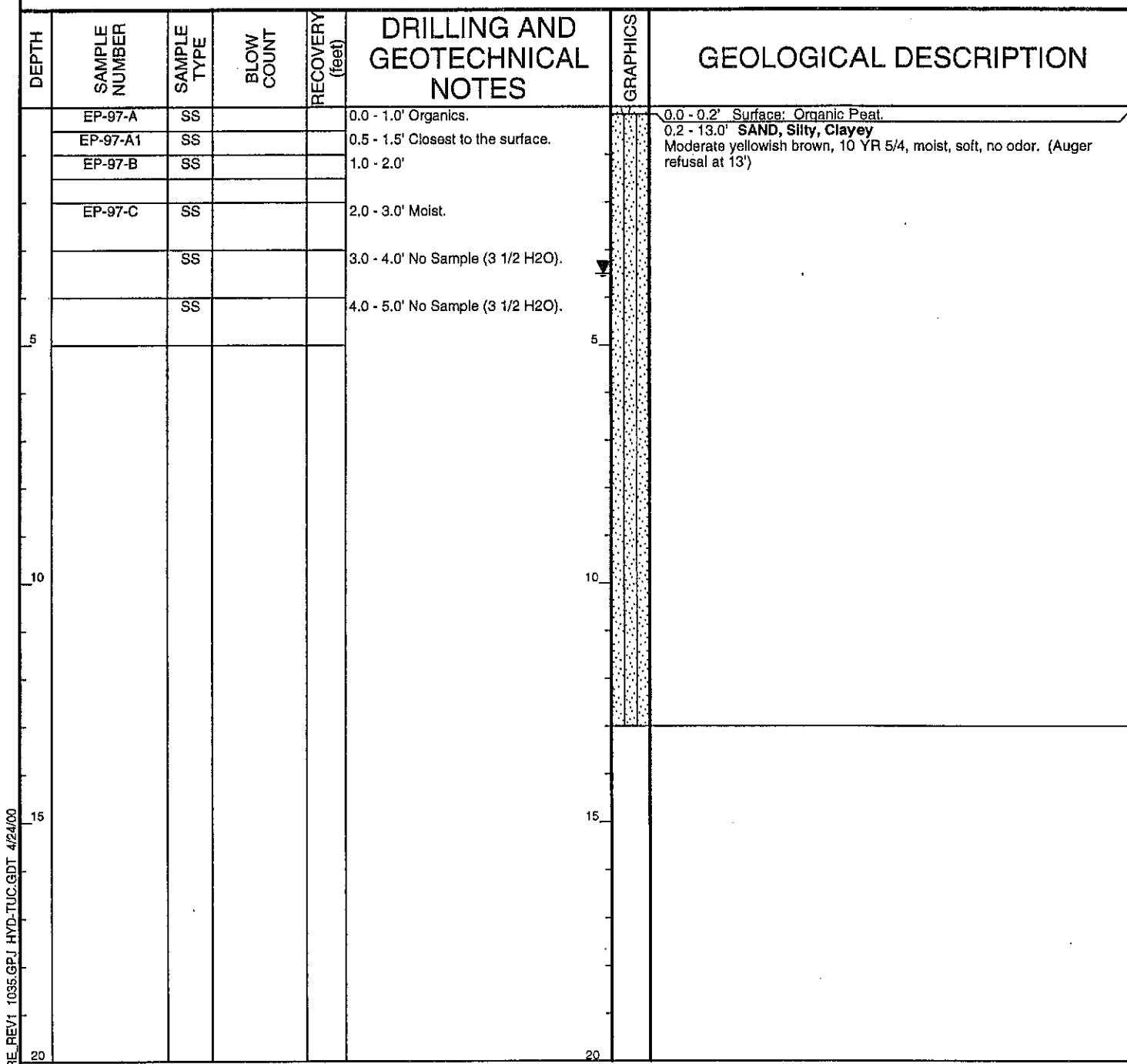
Descriptive Location: East of I-10, center of South Arroyo, in
pasture area

Hole Diameter (in): 10.25

Total Depth Drilled (ft): 13

Recorded By: H Kutz

Remarks: Initial boring 6.25 inches in diameter for sample collection. Hole reamed to 10.25 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-98

Date Hole Started: 8/6/99

Date Hole Finished: 8/9/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

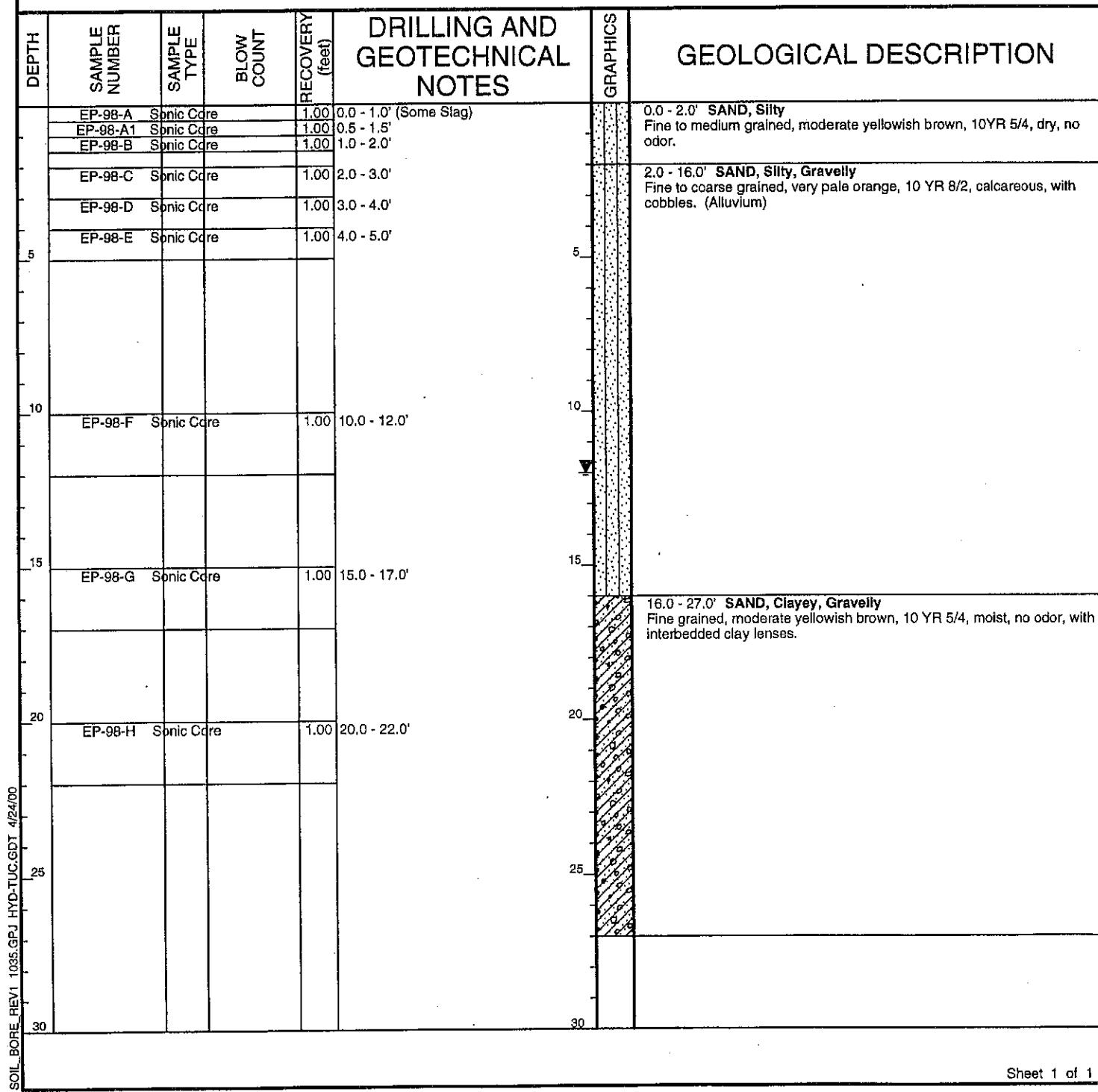
Descriptive Location: East of I-10, North West edge of South Arroyo, on slag area

Hole Diameter (In): 8

Total Depth Drilled (ft): 27

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-99

Date Hole Started: 5/11/99 Date Hole Finished: 5/12/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

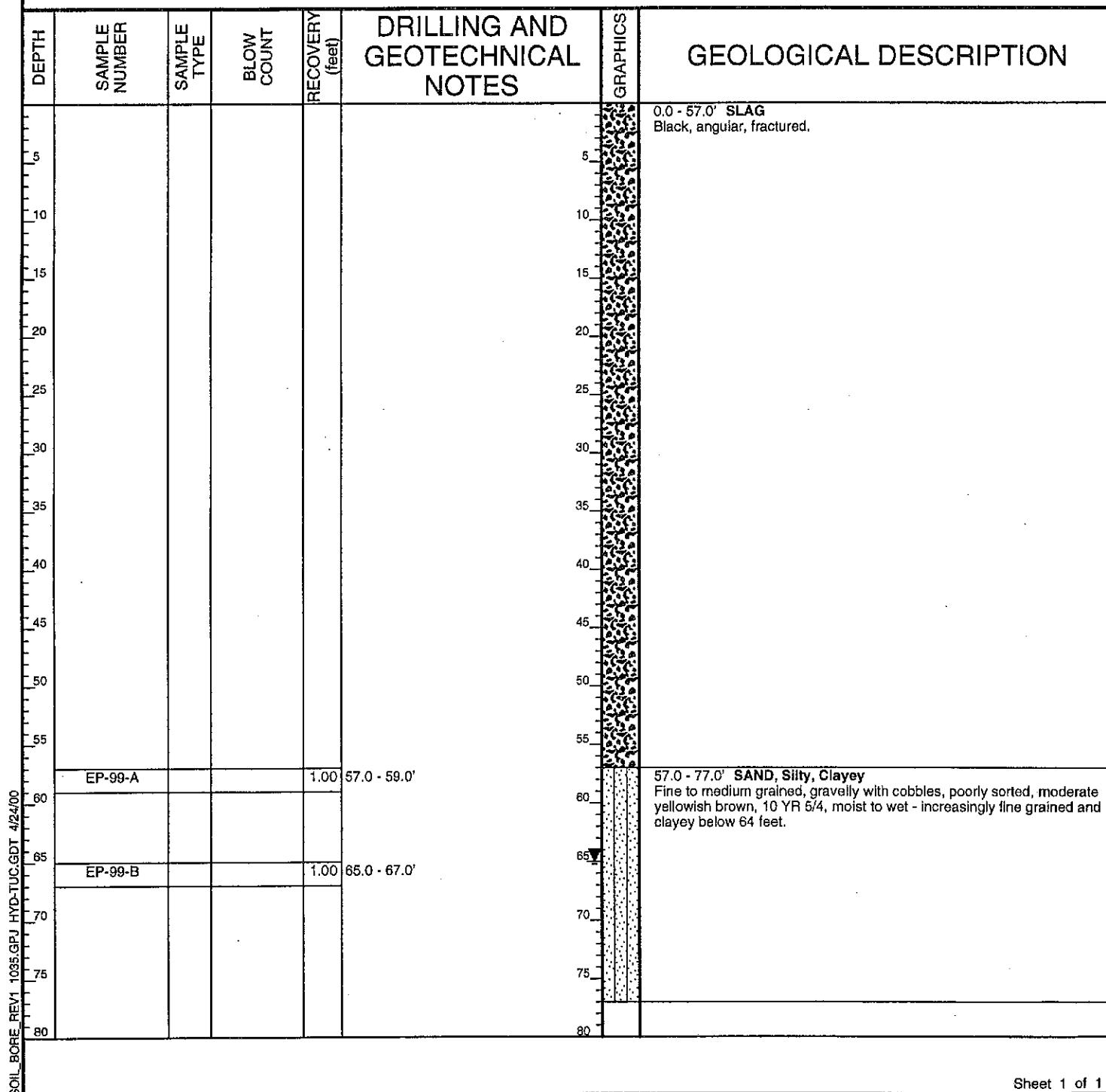
Descriptive Location: Slag Pour area, North end of boneyard

Hole Diameter (in): 8

Total Depth Drilled (ft): 77

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
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El Paso, Texas

Monitor Well Log

Hole Name: EP-100

Date Hole Started: 9/8/99 Date Hole Finished: 9/28/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

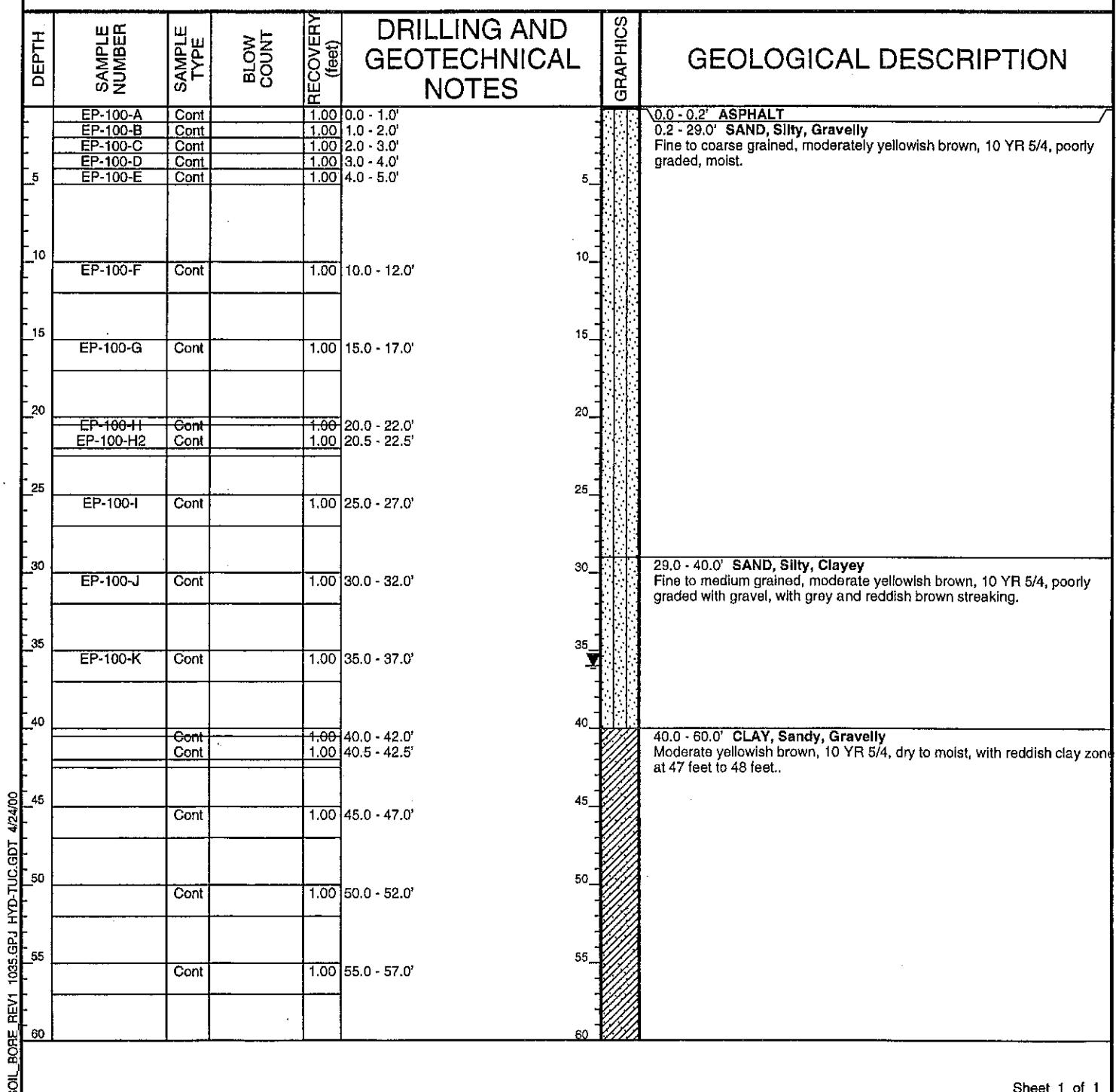
Descriptive Location: 10 feet south of Medford Sump

Hole Diameter (in): 8

Recorded By: H Kutz

Total Depth Drilled (ft): 60

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-101

Date Hole Started: 9/29/99 Date Hole Finished: 9/30/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

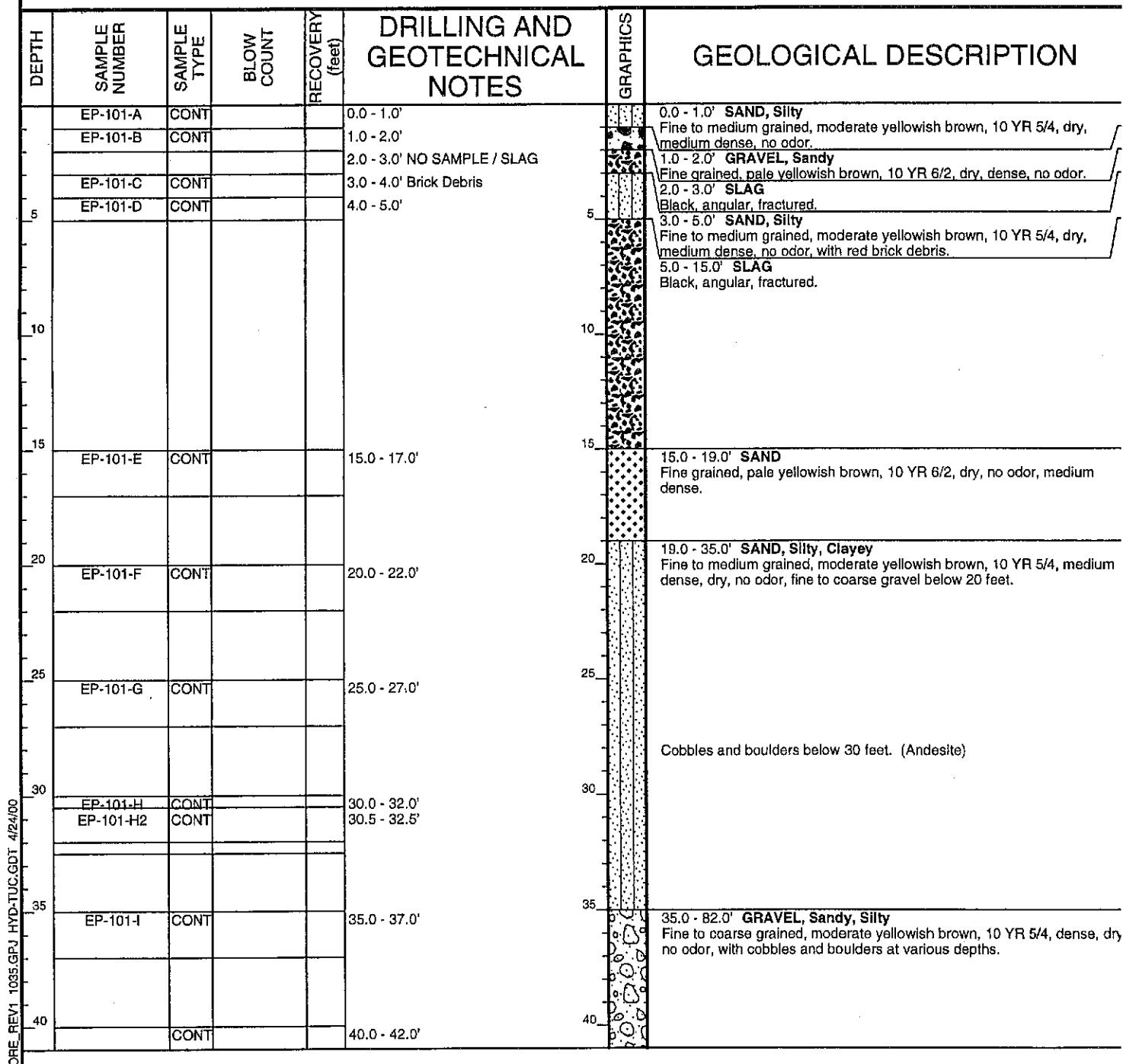
Descriptive Location: West of Sample Mill Area Unloading Building

Hole Diameter (in): 8

Total Depth Drilled (ft): 82

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
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Monitor Well Log

Hole Name: EP-101

Date Hole Started: 9/29/99 Date Hole Finished: 9/30/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| 45 | | | | | 45.0 - 47.0' | 45 | 2 1/2 foot boulder at 48 feet to 50.5 feet. |
| 50 | | CONT | | | 50.0 - 52.0' 50.5 - 52.5' | 50 | |
| 55 | | CONT | | | | 55 | |
| 60 | | | | | | 60 | |
| 65 | | | | | | 65 | |
| 70 | | | | | | 70 | |
| 75 | | | | | | 75 | |
| 80 | | | | | | 80 | |
| 85 | | | | | | 85 | |
| 90 | | | | | | 90 | |



HYDROMETRICS INC.
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El Paso, Texas

Monitor Well Log

Hole Name: EP-102

Date Hole Started: 9/30/99 Date Hole Finished: 10/4/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 5 feet south of Sample Mill Area Sump

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

Drilling Fluids Used: Water

Purpose of Hole: Install Well/Collect Soil Samples

Hole Diameter (in): 8

Total Depth Drilled (ft): 72

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| 5 | EP-102-A | Cont | | 1.00 | 0.0 - 1.0' | 5 | 0.0 - 0.2' ASPHALT |
| | EP-102-B | | | 1.00 | 1.0 - 2.0' | 5 | 0.2 - 0.7' GRAVEL, Sandy, Silty |
| | EP-102-C | | | 1.00 | 2.0 - 3.0' | 5 | Coarse Base, fine to coarse grained, dark yellowish brown, 10 YR 4/2, wet, no odor. |
| | EP-102-D | | | 1.00 | 3.0 - 4.0' | 5 | 0.7 - 4.0' SAND, Silty, Gravelly, Clayey |
| | EP-102-E | | | 1.00 | 4.0 - 5.0' | 5 | Fine to medium grained, dusky yellowish brown, 10 YR 2/2, wet, no odor. |
| 10 | | | | | | 5 | 4.0 - 5.0' GRAVEL, Sandy, Silty |
| | | | | | | 5 | Fine to coarse grained, dark yellowish orange, 10 YR 6/6, moist, no odor. |
| | | | | | | 5 | 5.0 - 7.0' GRAVEL, Sandy, Silty |
| | | | | | | 5 | Fine to coarse grained, dusky yellowish brown, 10 YR 2/2, dry, with slag, no odor. |
| | | | | | | 5 | 7.0 - 9.0' SAND |
| 15 | | | | | | 10 | Fine grained, pale yellowish brown, 10 YR 6/2, moist, no odor, medium dense. |
| | | | | | | 10 | 9.0 - 19.0' SAND, Silty, Clayey |
| | EP-102-F | | | 1.00 | 10.0 - 12.0' | 10 | Fine to medium grained, moderately yellowish brown, 10 YR 5/4, dry, dense, no odor, - with gravel below 11 feet. |
| | | | | | | 10 | |
| | | | | | | 10 | |
| 20 | EP-102-G | | | 1.00 | 15.0 - 17.0' | 15 | |
| | EP-102-G2 | | | 1.00 | 15.5 - 17.5' | 15 | |
| | | | | | | 15 | |
| | | | | | | 15 | |
| | | | | | | 15 | |
| 25 | EP-102-H | | | 1.00 | 20.0 - 22.0' | 20 | 19.0 - 22.0' GRAVEL, Sandy, Silty, Clayey |
| | | | | | | 20 | Fine to coarse grained, moderate yellowish brown, 10 YR 5/4, dense, dry no odor, with weathered andesite cobbles/boulders below 25 feet. |
| | | | | | | 20 | |
| | | | | | | 20 | |
| | | | | | | 20 | |
| 30 | EP-102-I | | | 1.00 | 25.0 - 27.0' | 25 | |
| | | | | | | 25 | |
| | | | | | | 25 | |
| | | | | | | 25 | |
| | | | | | | 25 | |
| 35 | EP-102-J | | | 1.00 | 30.0 - 32.0' | 30 | |
| | | | | | | 30 | |
| | | | | | | 30 | |
| | | | | | | 30 | |
| | | | | | | 30 | |
| 40 | EP-102-K | | | 1.00 | 35.0 - 37.0' | 35 | |
| | | | | | | 35 | |
| | | | | | | 35 | |
| | | | | | | 35 | |
| | | | | | | 35 | |



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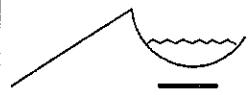
Monitor Well Log

Hole Name: EP-102

Date Hole Started: 9/30/99 Date Hole Finished: 10/4/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|------------------------|
| | EP-102-L | | | 1.00 | 40.0 - 42.0' | | |
| 45 | EP-102-M | | | 1.00 | 45.0 - 47.0' | | |
| 50 | EP-102-N | | | 1.00 | 50.0 - 52.0' | | |
| | EP-102-N2 | | | 1.00 | 50.5 - 52.5' | | |
| 55 | EP-102-O | | | 1.00 | 55.0 - 57.0' | | |
| 60 | EP-102-P | Sonic | | 1.00 | 60.0 - 62.0' | | |
| 65 | | | | | | | |
| 70 | EP-102-Q | Sonic | | 1.00 | 70.0 - 72.0' Total Depth 72' | | |
| 75 | | | | | | | |
| 80 | | | | | | | |
| 85 | | | | | | | |
| 90 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-103

Date Hole Started: 10/4/99 Date Hole Finished: 10/5/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

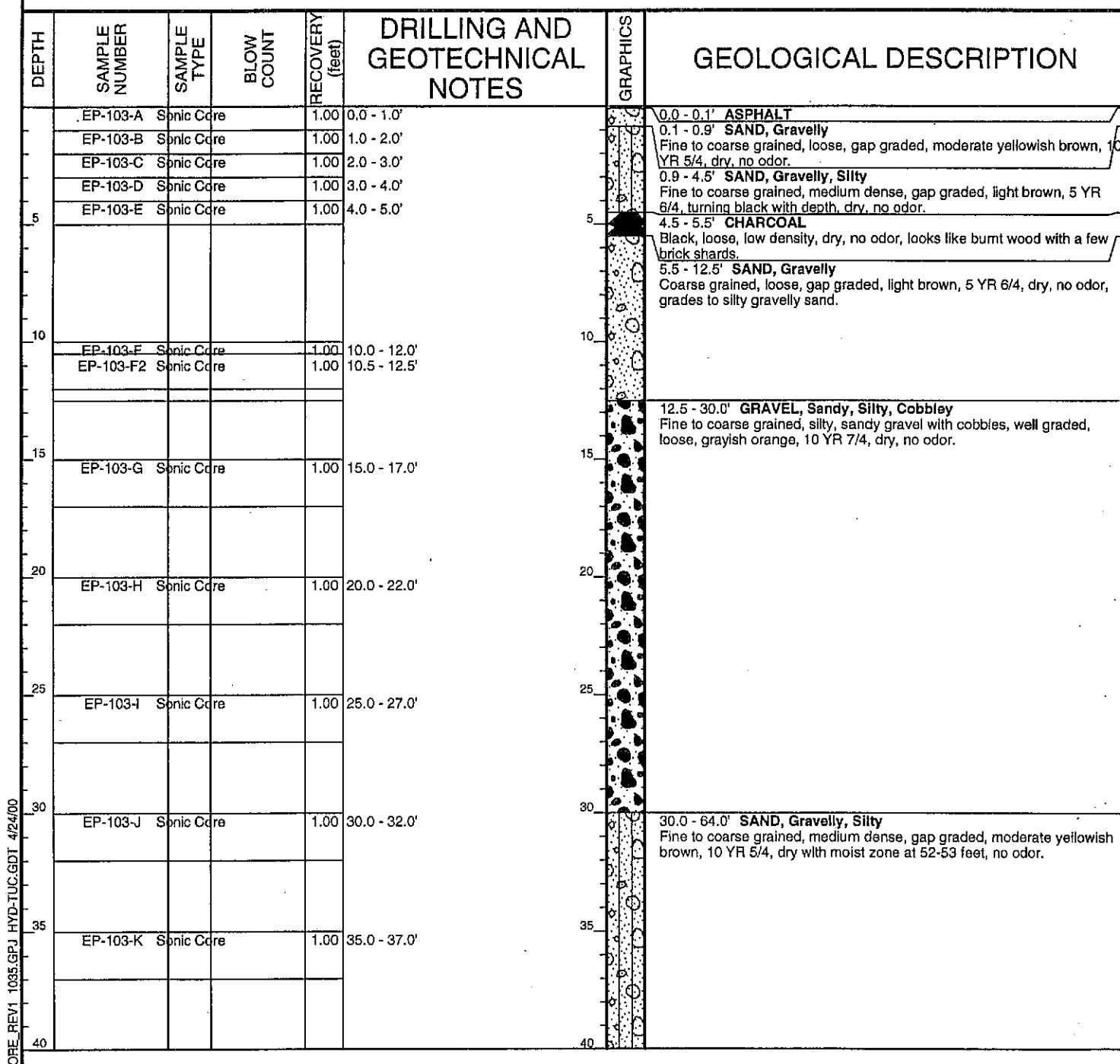
Descriptive Location: Center of overhead conveyor between delumper and bedding buildings

Hole Diameter (in): 8

Recorded By: G Levin

Total Depth Drilled (ft): 72

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-103

Date Hole Started: 10/4/99 Date Hole Finished: 10/5/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | EP-103-L | Sonic Core | | 1.00 | 40.0 - 42.0' | | |
| 45 | EP-103-M | Sonic Core | | 1.00 | 45.0 - 47.0' | | |
| 50 | EP-103-N | Sonic Core | | 1.00 | 50.0 - 52.0' | | |
| | EP-103-N2 | Sonic Core | | 1.00 | 50.5 - 52.5' Moist @ 52 feet | | |
| 55 | EP-103-O | Sonic Core | | 1.00 | 55.0 - 57.0' | | |
| 60 | EP-103-P | Sonic Core | | 1.00 | 60.0 - 62.0' | | |
| 65 | Sonic Core | | | 1.00 | 65.0 - 67.0' | | 64.0 - 72.0' SAND, Silty, Clayey Fine grained, dense, grayish orange, 10 YR 7/4, moist, no odor. |
| 70 | Sonic Core | | | 1.00 | 70.0 - 72.0' | | |
| 75 | | | | | | | |
| 80 | | | | | | | |
| 85 | | | | | | | |
| 90 | | | | | | | |



HYDROMETRICS INC.
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El Paso, Texas

Monitor Well Log

Hole Name: EP-104

Date Hole Started: 10/5/99 Date Hole Finished: 10/7/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

Descriptive Location: 30' E and 50' S of South West corner of bedding building

Hole Diameter (in): 8

Total Depth Drilled (ft): 77

Recorded By: G Levin

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| 5 | EP-104-A | Sonic Core | 1.00 | 0.0 - 1.0' | Wet from drilling water. | 5 | 0.0 - 0.1' ASPHALT |
| | EP-104-B | Sonic Core | 1.00 | 1.0 - 2.0' | | | 0.1 - 2.7' SAND, Silty |
| | EP-104-C | Sonic Core | 1.00 | 2.0 - 3.0' | Break down, 1415. | | Fine to coarse grained, loose with minor gravel/pebbles, dry, no odor, grayish orange pink, 5 YR 7/2. |
| | EP-104-D | Sonic Core | 1.00 | 3.0 - 4.0' | Wet from drilling water. | | 2.7 - 4.0' SAND, Gravelly, Silty |
| | EP-104-E | Sonic Core | 1.00 | 4.0 - 5.0' | | | Fine to coarse grained, loose, gap graded, gravel is angular slag clasts 1/4 - 2 inches, dry, no odor, pale yellowish brown, 10 YR 6/2. |
| | EP-104-E2 | Sonic Core | 1.00 | 4.5 - 5.5' | | | 4.0 - 8.0' GRAVEL, Sandy |
| 10 | | | | | | | Coarse grained sand and gravel, angular broken slag changing to rounded limestone, mudstone, and igneous at depths, poorly graded sand, very little fines, loose, moist, no odor, pale brown, 5 YR 5/2. |
| | | | | | | | 8.0 - 15.0' SAND |
| 15 | | | | | | | Fine to coarse grained, clean, very little fines, loose, dry, no odor, grayish orange, 10 YR 7/4. |
| | EP-104-F | Sonic Core | 1.00 | 10.0 - 12.0' | | | |
| | | | | | | | |
| 20 | | | | | | | |
| | EP-104-G | Sonic Core | 1.00 | 15.0 - 17.0' | | | |
| 25 | | | | | | | |
| | EP-104-H | Sonic Core | 1.00 | 20.0 - 22.0' | | | |
| 30 | | | | | | | |
| | EP-104-I | Sonic Core | 1.00 | 25.0 - 27.0' | | | |
| 35 | | | | | | | |
| | EP-104-J | Sonic Core | 1.00 | 30.0 - 32.0' | | | |
| 40 | | | | | | | |
| | EP-104-K | Sonic Core | 1.00 | 35.0 - 37.0' | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-104

Date Hole Started: 10/5/99 Date Hole Finished: 10/7/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|--|----------|---|
| | EP-104-L | Sonic Core | | 1.00 | 40.0 - 42.0' Moist from drilling water. | | |
| 45 | EP-104-M | Sonic Core | | 1.00 | 45.0 - 47.0' | | 42.0 - 47.0' ANDESITE Competent Boulder. |
| 50 | EP-104-N | Sonic Core | | 1.00 | 50.0 - 52.0' Moist from drilling water. | | 47.0 - 54.0' SAND, Silty, Gravelly Fine to medium grained, with subangular to rounded gravel, gap graded grayish orange pink, 5 YR 7/2, medium dense, dry, no odor, occasional cobbles and small boulders. |
| | EP-104-N2 | Sonic Core | | 1.00 | 50.5 - 52.5' Moist from drilling water. | | |
| 55 | EP-104-O | Sonic Core | | 1.00 | 55.0 - 57.0' | | 54.0 - 77.0' SILT, Gravelly, Cobbley, Clayey Silty with gravel, cobbles, and boulders, sand and clay lenses, medium dense to loose, gap graded, dry, no odor. |
| 60 | EP-104-P | Sonic Core | | 1.00 | 60.0 - 62.0' Moist layer at 62-63 feet. | | |
| 65 | EP-104-Q | Sonic Core | | 1.00 | 65.0 - 67.0' Wet/Moist from groundwater? | | |
| 70 | | Sonic Core | | 1.00 | 70.0 - 72.0' Water stable. | | |
| 75 | | Sonic Core | | 1.00 | 75.0 - 77.0' For 1/2 hour at 63.03 feet. | | |
| 80 | | | | | | | |
| 85 | | | | | | | |
| 90 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-105

Date Hole Started: 10/7/99 Date Hole Finished: 10/8/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

Descriptive Location: 125' NW of North East corner of unloading building

Hole Diameter (in): 8

Recorded By: G Levin

Total Depth Drilled (ft): 77

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| 5 | EP-105-A | Sonic Core | | 1.00 | 0.0 - 1.0' | 5 | 0.0 - 2.0' SAND, Gravelly, Silty Loose, gap graded, very pale orange, 10 YR 8/2, dry, no odor. |
| | EP-105-B | Sonic Core | | 1.00 | 1.0 - 2.0' | | 2.0 - 3.5' SAND, Gravelly, Silty Silty sand with broken slag gravel and dark fines, loose, gap graded, medium gray, N5, to grayish orange pink, 5 YR 7/2, dry, no odor. |
| | EP-105-C | Sonic Core | | 1.00 | 2.0 - 3.0' | | 3.5 - 4.0' SLIME Fine grained, greasy, with some pebbles, moderate greenish yellow, 10 YR 7/4, moist, no odor. |
| | EP-105-D | Sonic Core | | 1.00 | 3.0 - 4.0' | | 4.0 - 5.5' SAND, Gravelly, Silty Fine to medium grained, gap graded, loose, light olive gray, 5 YR 5/2, dry, no odor. |
| | EP-105-E | Sonic Core | | 1.00 | 4.0 - 5.0' | | 5.5 - 9.0' SLAG Black, angular, fractured. |
| | EP-105-E2 | Sonic Core | | 1.00 | 4.5 - 5.5' | | 9.0 - 11.0' CLAY Plastic clay with a few pebbles, grayish brown, 5 YR 3/2, moist, no odor. |
| 10 | EP-105-F | Sonic Core | | 1.00 | 10.0 - 12.0' | 10 | 11.0 - 17.0' SAND, Gravelly Medium to coarse grained, with clay lenses, loose, gap graded, pale yellowish brown, 10 YR 6/2, dry, no odor. |
| | | | | | | | |
| | | | | | | | |
| 15 | EP-105-G | Sonic Core | | 1.00 | 15.0 - 17.0' | 15 | 17.0 - 21.0' SILT, Clayey Medium dense, non-plastic, moderate yellowish brown, 10 YR 5/4, moist to dry, no odor. |
| | | | | | | | |
| 20 | EP-105-H | Sonic Core | | 1.00 | 20.0 - 22.0' | 20 | 21.0 - 77.0' SAND, Silty, Gravelly Fine to coarse grained, gap graded, with clayey silt lenses, loose to moderately dense, dark yellowish orange, 10 YR 6/6, dry, no odor. |
| | | | | | | | |
| 25 | EP-105-I | Sonic Core | | 1.00 | 25.0 - 27.0' | 25 | |
| | | | | | | | |
| 30 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-105

Date Hole Started: 10/7/99 Date Hole Finished: 10/8/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|------------------------|
| | EP-105-J | Sonic Core | | 1.00 | 30.0 - 32.0' | | |
| 35 | | | | | | | 35 |
| | EP-105-K | Sonic Core | | 1.00 | 35.0 - 37.0' | | |
| 40 | | | | | | | 40 |
| | EP-105-L | Sonic Core | | 1.00 | 40.0 - 42.0' | | |
| 45 | | | | | | | 45 |
| | EP-105-M | Sonic Core | | 1.00 | 45.0 - 47.0' | | |
| 50 | | | | | | | 50 |
| | EP-105-N | Sonic Core | | 1.00 | 50.0 - 52.0' | | |
| | EP-105-N2 | Sonic Core | | 1.00 | 50.5 - 52.5' | | |
| 55 | | | | | | | 55 |
| | EP-105-O | Sonic Core | | 1.00 | 55.0 - 57.0' | | |
| 60 | | | | | | | 60 |
| | EP-105-P | Sonic Core | | 1.00 | 60.0 - 62.0' | | |
| 65 | | | | | | | 65 |
| | EP-105-Q | Sonic Core | | 1.00 | 65.0 - 67.0' | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-105

Date Hole Started: 10/7/99 Date Hole Finished: 10/8/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---|----------|------------------------|
| 70 | | | | | | | |
| | Sonic Core | | | 1.00 | 70.0 - 72.0' 70 - 77 solid pebble conglomerate. | | |
| 75 | | | | | | | |
| | Sonic Core | | | 1.00 | 75.0 - 77.0' Stopped drilling and allowed water in hole to reach equilibrium. | | |
| 80 | | | | | | | |
| 85 | | | | | | | |
| 90 | | | | | | | |
| 95 | | | | | | | |
| 100 | | | | | | | |
| 105 | | | | | | | |



HYDROMETRICS INC.
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El Paso, Texas

Monitor Well Log

Hole Name: EP-106

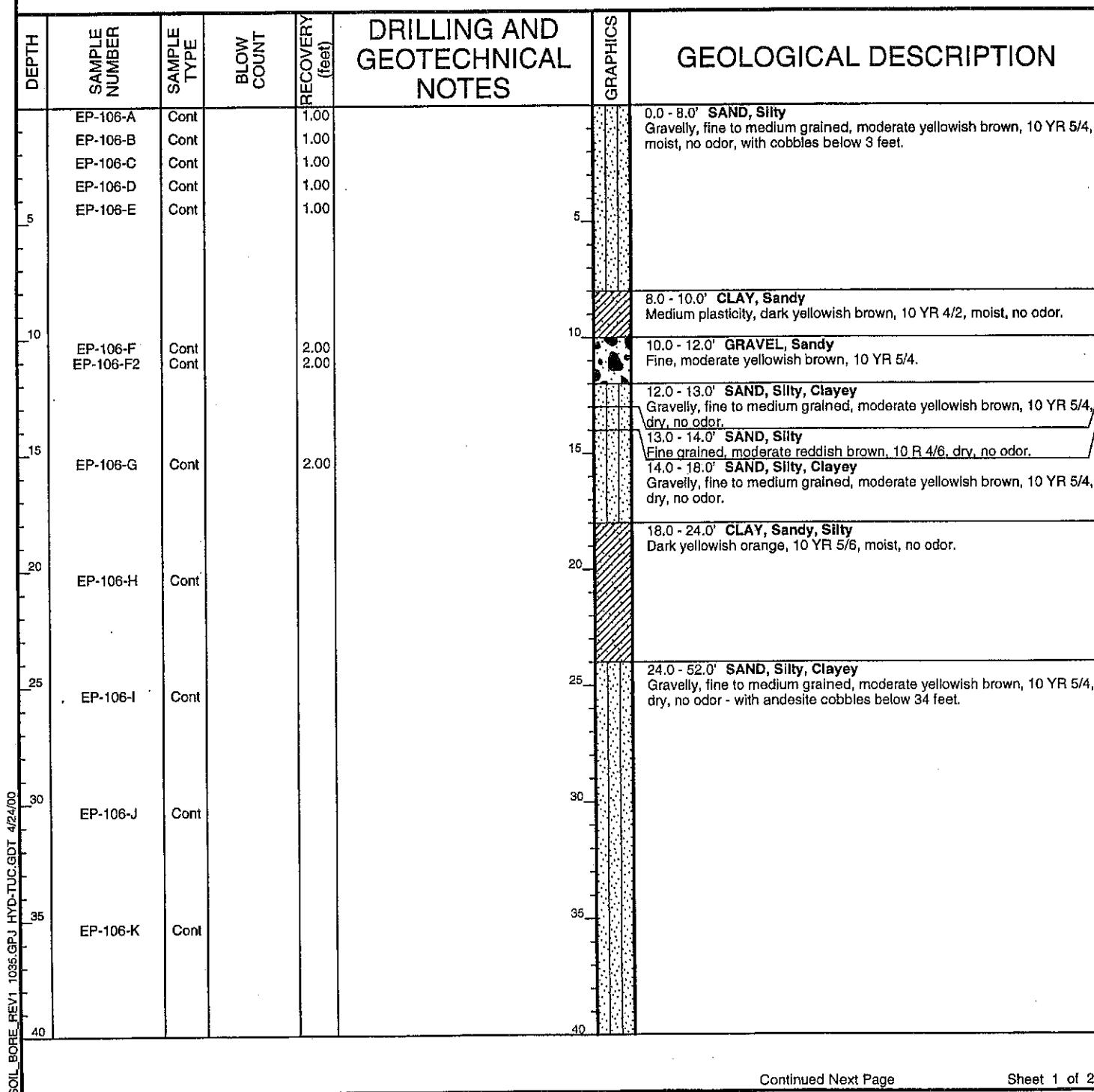
Date Hole Started: 10/16/99 Date Hole Finished: 10/18/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: 30' NW of Plant Flag Pole at entrance

Drilling Company: Alliance Environmental
Driller: Oscar Medrano
Drilling Method: Sonic
Drilling Fluids Used: Water
Purpose of Hole: Install Well/Collect Soil Samples
Hole Diameter (in): 8
Total Depth Drilled (ft): 80

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-106

Date Hole Started: 10/16/99 Date Hole Finished: 10/18/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| 45 | EP-106-L | Cont | | | | | |
| 45 | EP-106-M | Cont | | | | | |
| 50 | EP-106-N | Cont | | | | | |
| 55 | EP-106-O | Cont | | 2.00 | 55.0 - 57.0' | | |
| 55 | EP-106-O2 | Cont | | 2.00 | 55.5 - 57.5' | | 52.0 - 80.0' GRAVEL, Sandy, Silty Fine to coarse grained, grayish orange, 10 YR 7/4, dry, no odor, (Alluvium), wet at 58 feet, dry below 61 feet. |
| 60 | | | | | | | |
| 65 | | | | | | | |
| 70 | | | | | | | |
| 75 | | | | | | | |
| 80 | | | | | | | |
| 85 | | | | | | | |
| 90 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-107

Date Hole Started: 10/11/99 Date Hole Finished: 10/12/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 50' W and 250'S of South East corner of unloading building

Recorded By: H Kutz

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

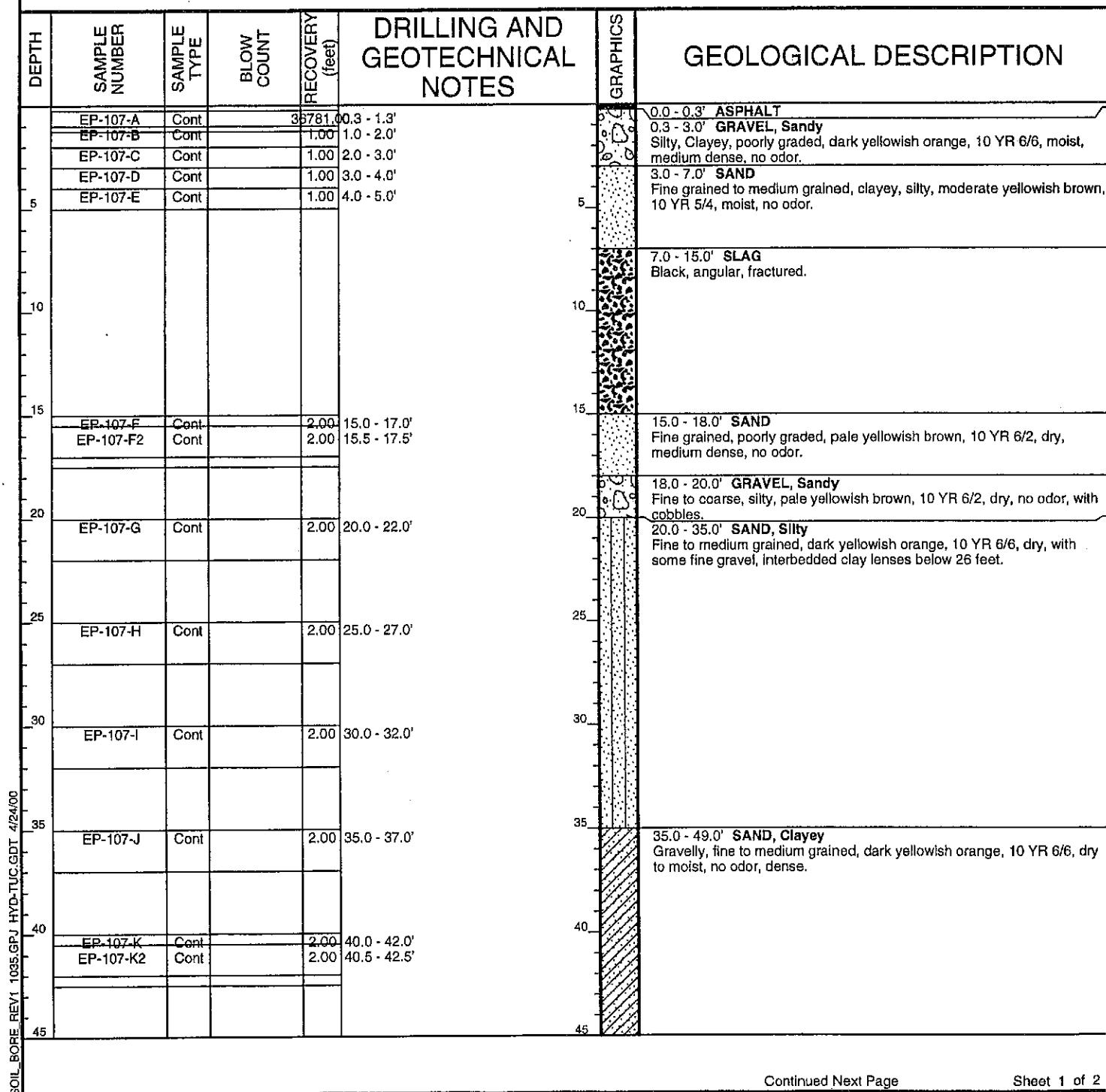
Drilling Fluids Used: Water

Purpose of Hole: Install Well/Collect Soil Samples

Hole Diameter (in): 8

Total Depth Drilled (ft): 80

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-107

Date Hole Started: 10/11/99 Date Hole Finished: 10/12/99

(Continued)

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| | EP-107-L | Cont | | 2.00 | 45.0 - 47.0' | | |
| 50 | EP-107-M | Cont | | 2.00 | 50.0 - 52.0' | | 49.0 - 60.0' GRAVEL, Sandy Fine to coarse grained, silty, grayish orange, 10 YR 7/4, dry, no odor, dense with cobbles at various depths (Alluvium). |
| 55 | EP-107-N | Cont | | 2.00 | 55.0 - 57.0' | | |
| 60 | EP-107-O | Cont | | | 60.0 - 62.0' | | 60.0 - 66.0' SAND, Clayey, Silty Fine grained, pale yellowish brown, 10 YR 6/2, wet, dense, no odor. |
| 65 | EP-107-P | Cont | | | 65.0 - 67.0' | | 66.0 - 80.0' GRAVEL, Clayey Fine to coarse grained, pale yellowish brown, 10 YR 6/2, dense, no odor, with interbedded clay lenses and cobbles, andesite and conglomerate cobbles and boulders at various depths below 69 feet. |
| 70 | | | | | | | |
| 75 | | | | | | | |
| 80 | | | | | | | |
| 85 | | | | | | | |
| 90 | | | | | | | |
| 95 | | | | | | | |
| 100 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-108

Date Hole Started: 10/14/99 Date Hole Finished: 10/14/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

Descriptive Location: Centerline of ephemeral pond,
approximately 400' E of railroad tracks

Hole Diameter (in): 8

Recorded By: H Kutz

Total Depth Drilled (ft): 42

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| 5 | | | | | | | 0.0 - 2.0' SLAG, Sandy Fine grained, black. |
| 10 | EP-108-A | CONT | | 2.00 | 10.0 - 12.0' | | 2.0 - 10.0' SLAG Black, angular, fractured. |
| 15 | EP-108-B | CONT | | 1.00 | 15.0 - 16.0' | | 10.0 - 16.0' SAND, Silty, Clayey Dark yellowish orange, 10 YR 6/6, with coarse gravel, poorly graded, dry, no odor. |
| 20 | | CONT | | 2.00 | 20.0 - 22.0' | | 16.0 - 42.0' GRAVEL, Sandy, Silty Grayish orange, 10 YR 7/4, calcareous, dry, no odor. (Alluvium) |
| 25 | | CONT | | 2.00 | 25.0 - 27.0' | | |
| 30 | | CONT | | | 30.0 - 32.0' | | |
| 35 | | CONT | | | 35.0 - 37.0' | | |
| 40 | | CONT | | | 40.0 - 42.0' | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-109

Date Hole Started: 10/15/99 Date Hole Finished: 10/15/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso

State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

Descriptive Location: South of No. 9 gate roadway, 200' E of railroad tracks

Hole Diameter (in): 8

Total Depth Drilled (ft): 42

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|---|
| 5 | EP-109-A | CONT | | 1.00 | 0.0 - 1.0' Slag in Sample | | <p>0.0 - 10.0' SAND, Silty Fine to medium grained, gravelly, poorly graded, moderate yellowish brown, 10 YR 5/4, dry, no odor, with slag, fine to coarse gravels.</p> |
| | EP-109-B | CONT | | 1.00 | 1.0 - 2.0' Slag in Sample | | |
| | EP-109-C | CONT | | 1.00 | 2.0 - 3.0' Slag in Sample | | |
| | EP-109-D | CONT | | 1.00 | 3.0 - 4.0' Slag in Sample | | |
| | EP-109-E | CONT | | 1.00 | 4.0 - 5.0' Slag in Sample | | |
| 10 | EP-109-F | CONT | | 2.00 | 10.0 - 12.0' | | <p>10.0 - 12.0' SAND, Silty Fine grained, poorly graded, brown, 10 YR 5/4, dry, no odor, medium dense.</p> |
| | EP-109-G | CONT | | 2.00 | 15.0 - 17.0' | | |
| | EP-109-H | CONT | | 2.00 | 20.0 - 22.0' | | |
| | EP-109-H2 | CONT | | 2.00 | 20.5 - 22.5' | | <p>12.0 - 42.0' GRAVEL, Sandy, Clayey Fine to coarse grained, poorly graded, grayish orange, 10 YR 7/4, dry, no odor, (Alluvium) with andesite cobbles and boulders below 22 feet.</p> |
| | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-110

Date Hole Started: 10/18/99 Date Hole Finished: 10/18/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

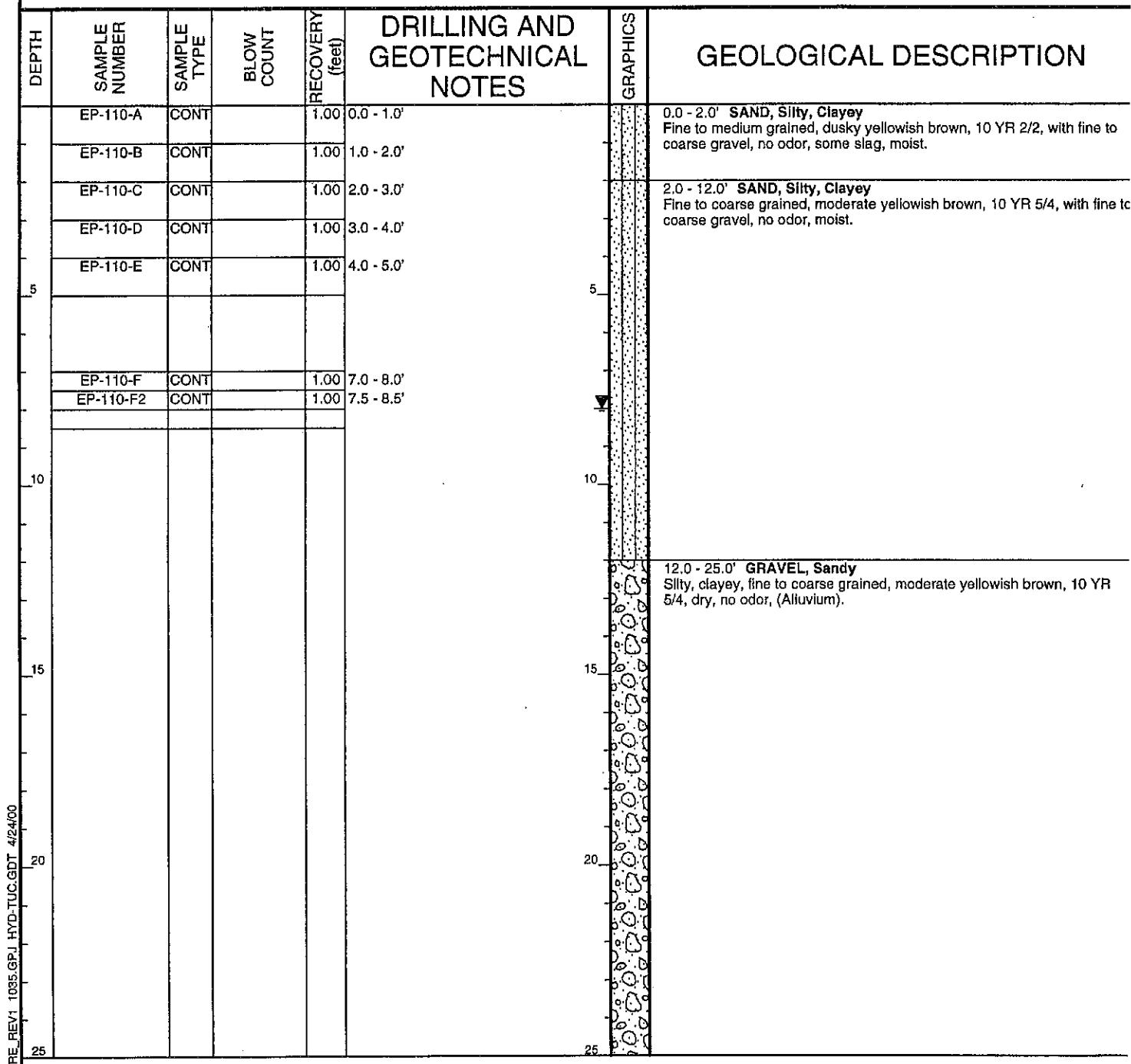
Descriptive Location: North side of plant entrance roadway, 30' NE of plant railroad bridge spur

Hole Diameter (in): 8

Total Depth Drilled (ft): 25

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-111

Date Hole Started: 10/27/99 Date Hole Finished: 10/27/99

Client: ASARCO, Inc.

Project: Remedial Investigation Phase II

County: El Paso State: Texas

Property Owner: ASARCO, Inc.

Legal Description: ASARCO El Paso Plant

Descriptive Location: 525' NE of Old Pump House on Rio Grande
filled plain

Recorded By: H Kutz

Drilling Company: Alliance Environmental

Driller: Oscar Medrano

Drilling Method: Sonic

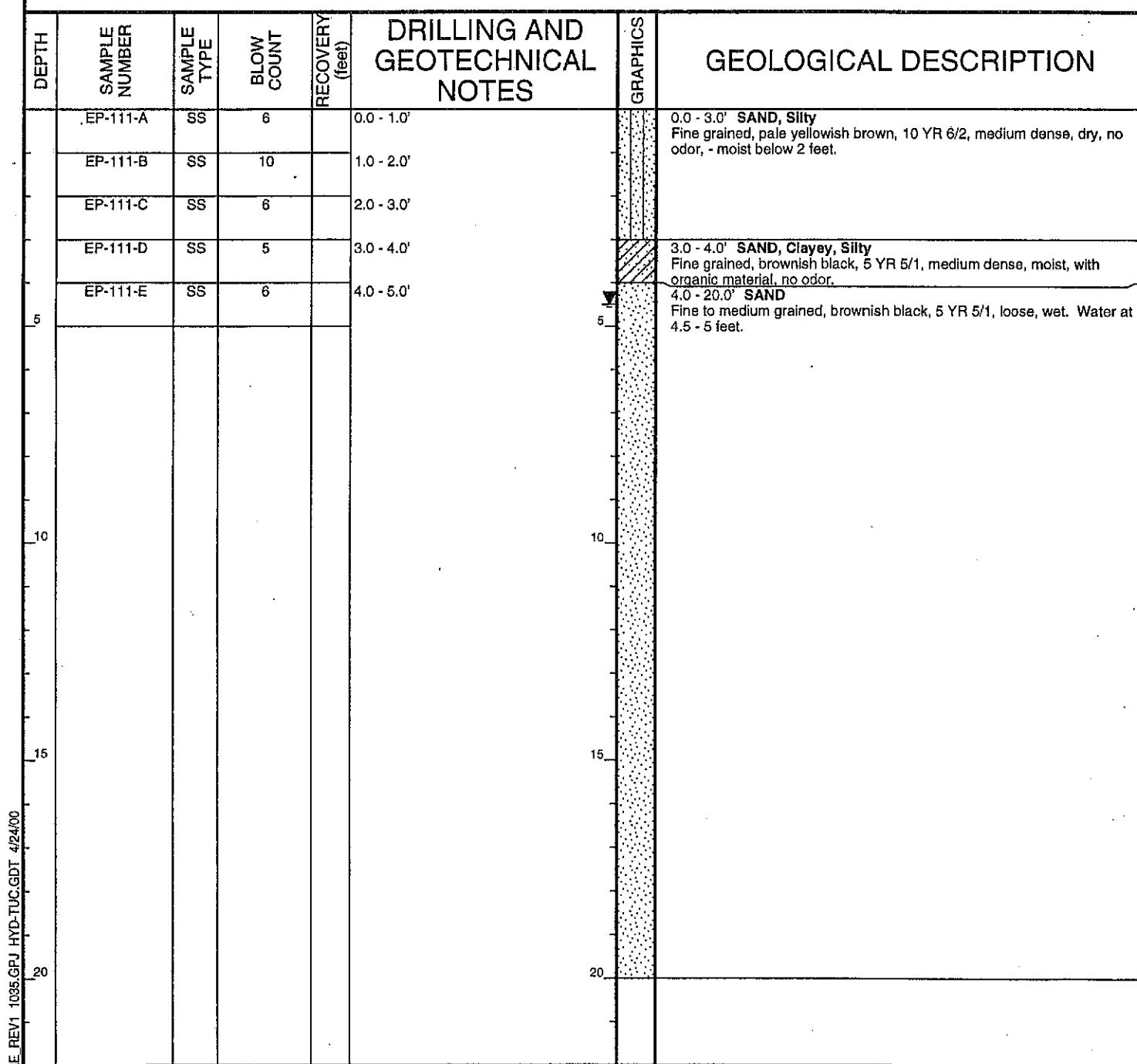
Drilling Fluids Used: Water

Purpose of Hole: Install Well/Collect Soil Samples

Hole Diameter (in): 8

Total Depth Drilled (ft): 20

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 2-inch diameter monitor well.





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-112

Date Hole Started: 10/27/99 Date Hole Finished: 10/27/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

Descriptive Location: 1400' NW of Old Pump House on Rio
Grande flood plain

Hole Diameter (in): 8

Recorded By: H Kutz

Total Depth Drilled (ft): 20

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 2-inch diameter monitor well.

| DEPTH | SAMPLE NUMBER | SAMPLE TYPE | BLOW COUNT | RECOVERY (feet) | DRILLING AND GEOTECHNICAL NOTES | GRAPHICS | GEOLOGICAL DESCRIPTION |
|-------|---------------|-------------|------------|-----------------|---------------------------------|----------|--|
| 5 | EP-112-A | SS | 6 | 1.00 | 0.0 - 1.0' | | 0.0 - 3.0' SAND, Silty Fine grained, pale yellowish brown, 10 YR 6/2, medium dense, dry to moist, no odor. |
| | EP-112-B | SS | 8 | 1.00 | 1.0 - 2.0' | | |
| | EP-112-C | SS | 6 | | 2.0 - 3.0' | | |
| | EP-112-D | SS | 7 | | 3.0 - 4.0' | | 3.0 - 20.0' SAND Fine to medium grained, brownish black, 5 YR 5/1, medium dense, moist, no odor, wet at 4 feet. |
| | EP-112-E | SS | 7 | | 4.0 - 5.0' | | |
| 10 | | | | | | | |
| 15 | | | | | | | |
| 20 | | | | | | | |
| 25 | | | | | | | |



HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-113

Date Hole Started: 10/28/99 Date Hole Finished: 10/28/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Oscar Medrano

County: El Paso

State: Texas

Drilling Method: Sonic

Property Owner: ASARCO, Inc.

Drilling Fluids Used: Water

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

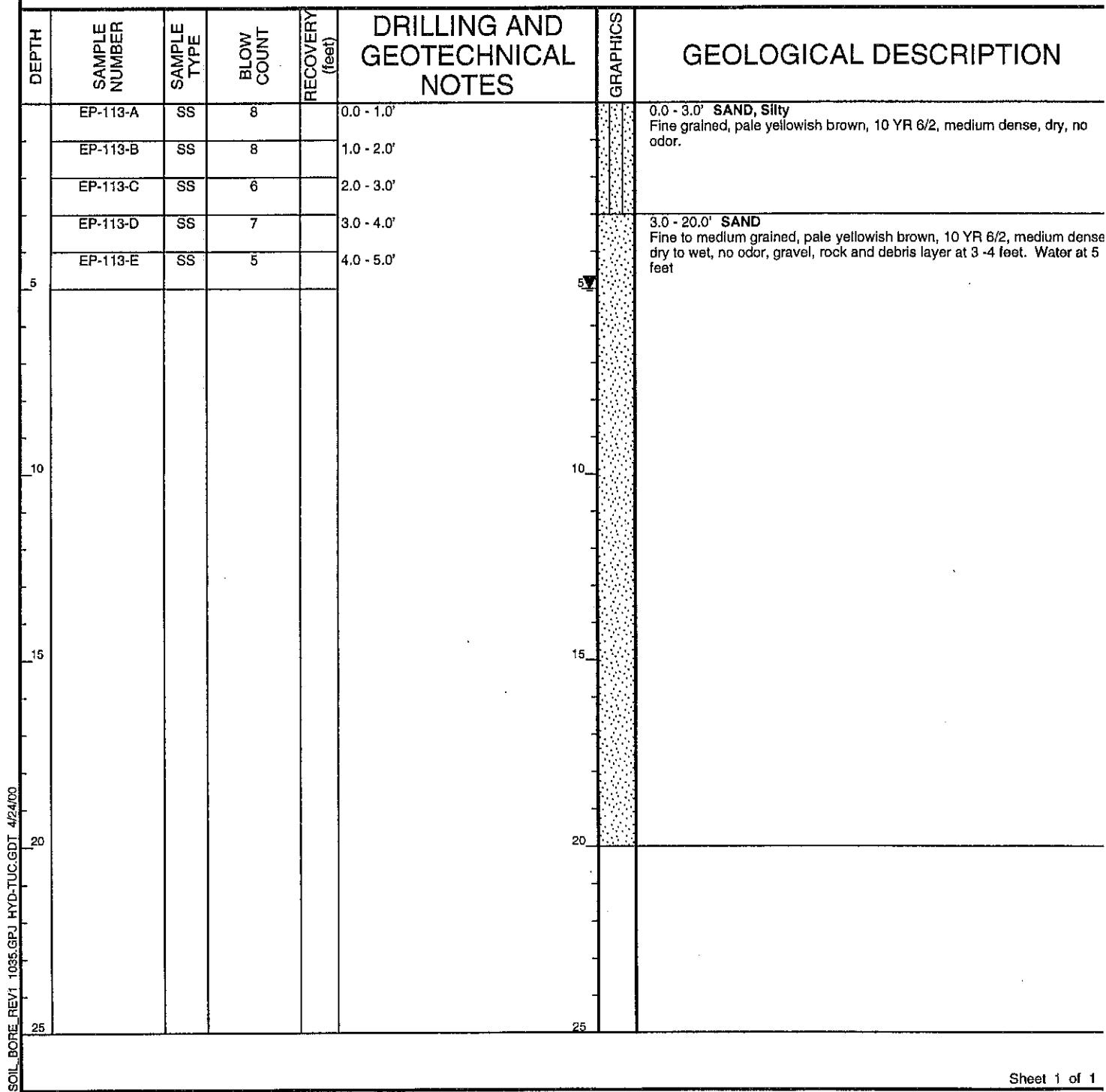
Descriptive Location: 2300' NW of Old Pump House on Rio
Grande flood plain

Hole Diameter (in): 8

Total Depth Drilled (ft): 20

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 2-inch diameter monitor well.





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Soil Boring Log

Hole Name: EP-114

Date Hole Started: 11/15/99 Date Hole Finished: 11/15/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Dave Hogan

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

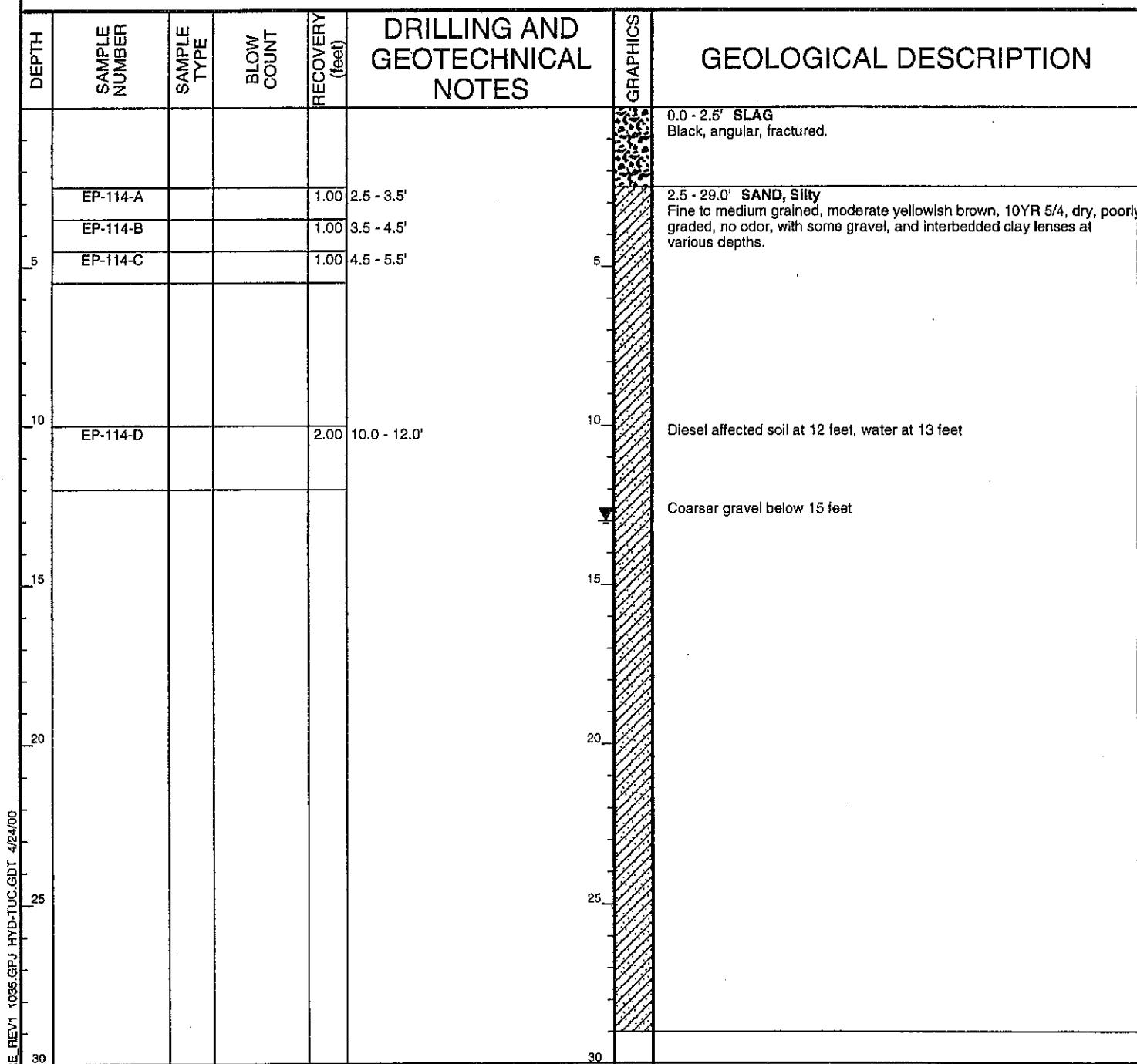
Descriptive Location: Front Slope, by railroad tracks, below Acid Mist Precipitator

Hole Diameter (in): 10.25

Total Depth Drilled (ft): 29

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 2-inch diameter monitor well.





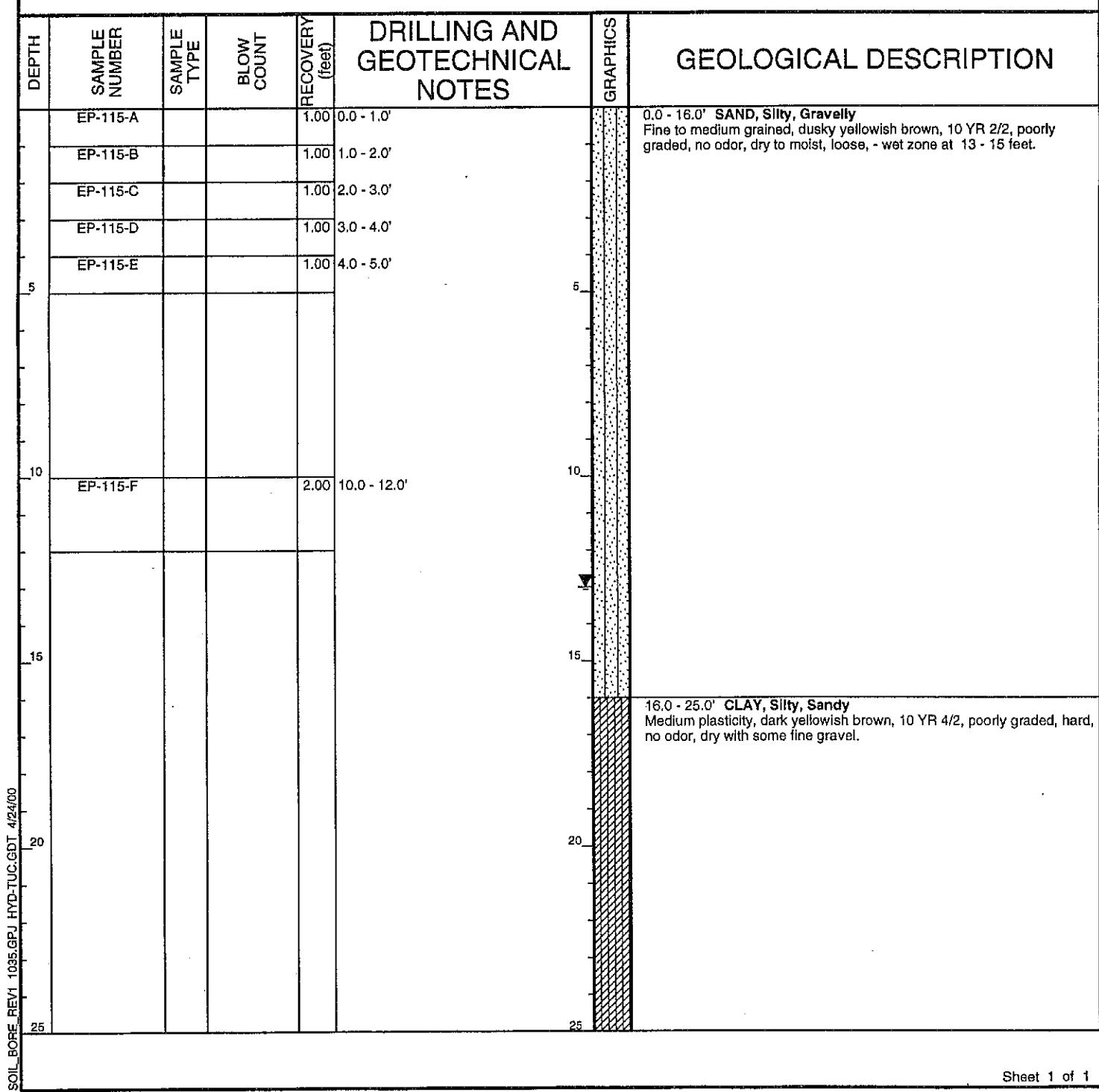
HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-115

Date Hole Started: 11/16/99 Date Hole Finished: 11/16/99

| | |
|---|--|
| Client: ASARCO, Inc. | Drilling Company: Alliance Environmental |
| Project: Remedial Investigation Phase II | Driller: Dave Hogan |
| County: El Paso | State: Texas |
| Property Owner: ASARCO, Inc. | Drilling Method: Hollow Stem Auger |
| Legal Description: ASARCO El Paso Plant | Drilling Fluids Used: None |
| Descriptive Location: Front Slope, by railroad tracks, below Medford Sump | Purpose of Hole: Install Well/Collect Soil Samples |
| Recorded By: H Kutz | Hole Diameter (in): 10.25 |
| Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 2-inch diameter monitor well. | Total Depth Drilled (ft): 25 |





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-116

Date Hole Started: 11/16/99 Date Hole Finished: 11/16/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Dave Hogan

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

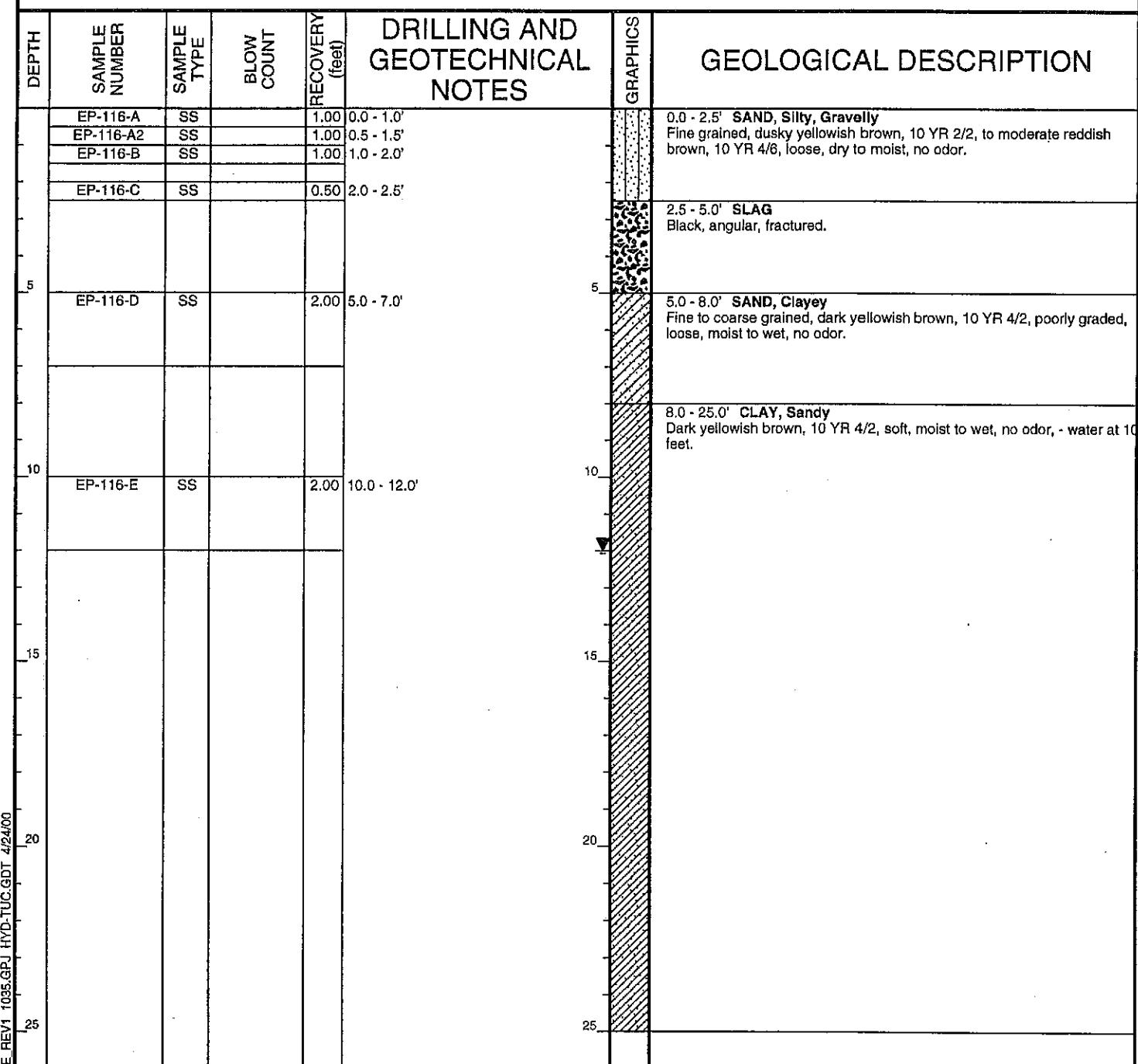
Descriptive Location: Front Slope, by railroad tracks, below former roasters

Hole Diameter (in): 10.25

Total Depth Drilled (ft): 25

Recorded By: H Kutz

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 2-inch diameter monitor well.





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

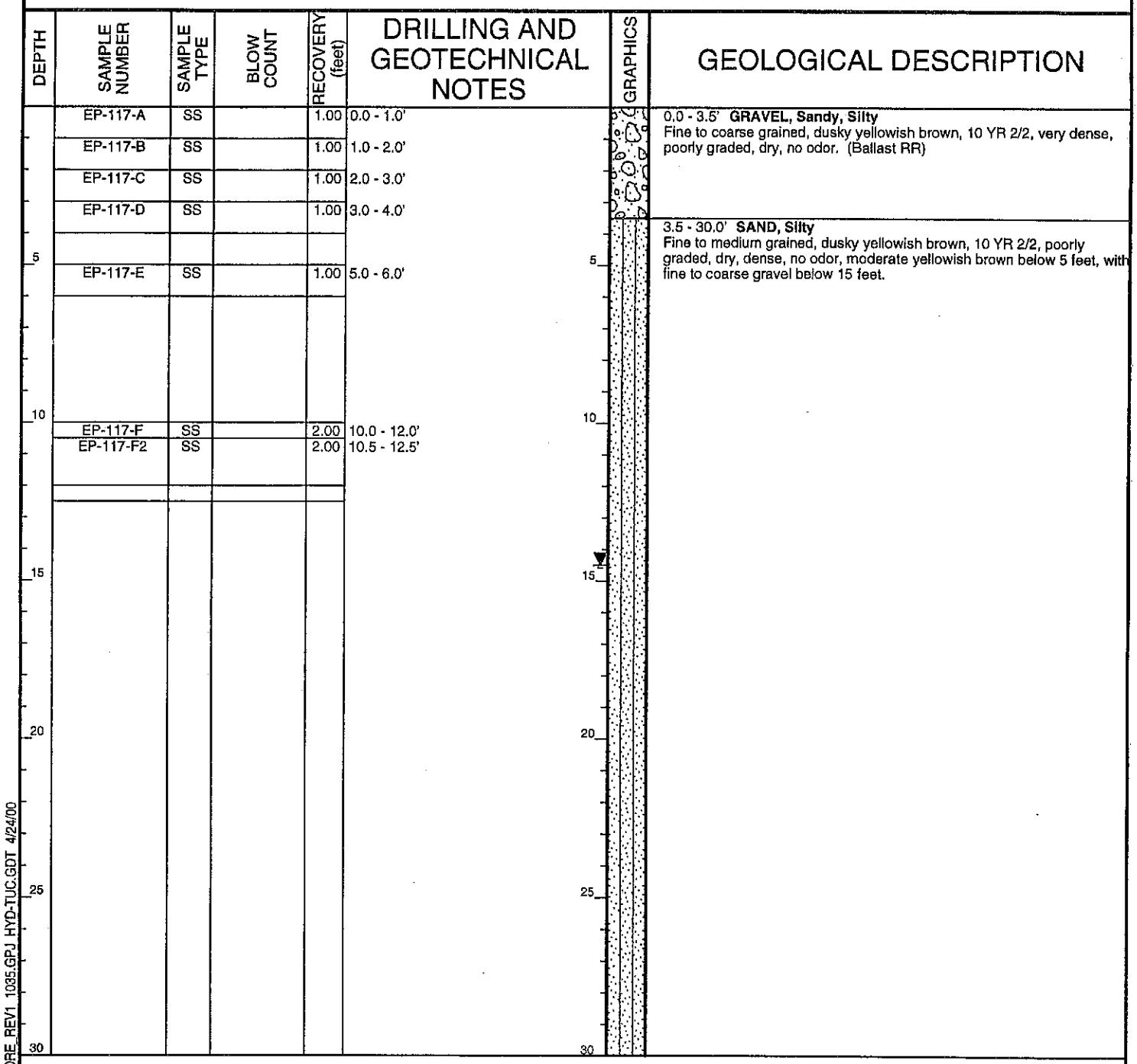
Hole Name: EP-117

Date Hole Started: 11/16/99 Date Hole Finished: 11/17/99

Client: ASARCO, Inc.
Project: Remedial Investigation Phase II
County: El Paso State: Texas
Property Owner: ASARCO, Inc.
Legal Description: ASARCO El Paso Plant
Descriptive Location: Front slope, by railroad tracks, below Old Baghouse
Recorded By: H Kutz

Drilling Company: Alliance Environmental
Driller: Dave Hogan
Drilling Method: Hollow Stem Auger
Drilling Fluids Used: None
Purpose of Hole: Install Well/Collect Soil Samples
Hole Diameter (in): 10.25
Total Depth Drilled (ft): 30

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 4-inch diameter monitor well.





HYDROMETRICS INC.
Consulting Scientists and Engineers
El Paso, Texas

Monitor Well Log

Hole Name: EP-118

Date Hole Started: 11/17/99 Date Hole Finished: 11/17/99

Client: ASARCO, Inc.

Drilling Company: Alliance Environmental

Project: Remedial Investigation Phase II

Driller: Dave Hogan

County: El Paso State: Texas

Drilling Method: Hollow Stem Auger

Property Owner: ASARCO, Inc.

Drilling Fluids Used: None

Legal Description: ASARCO El Paso Plant

Purpose of Hole: Install Well/Collect Soil Samples

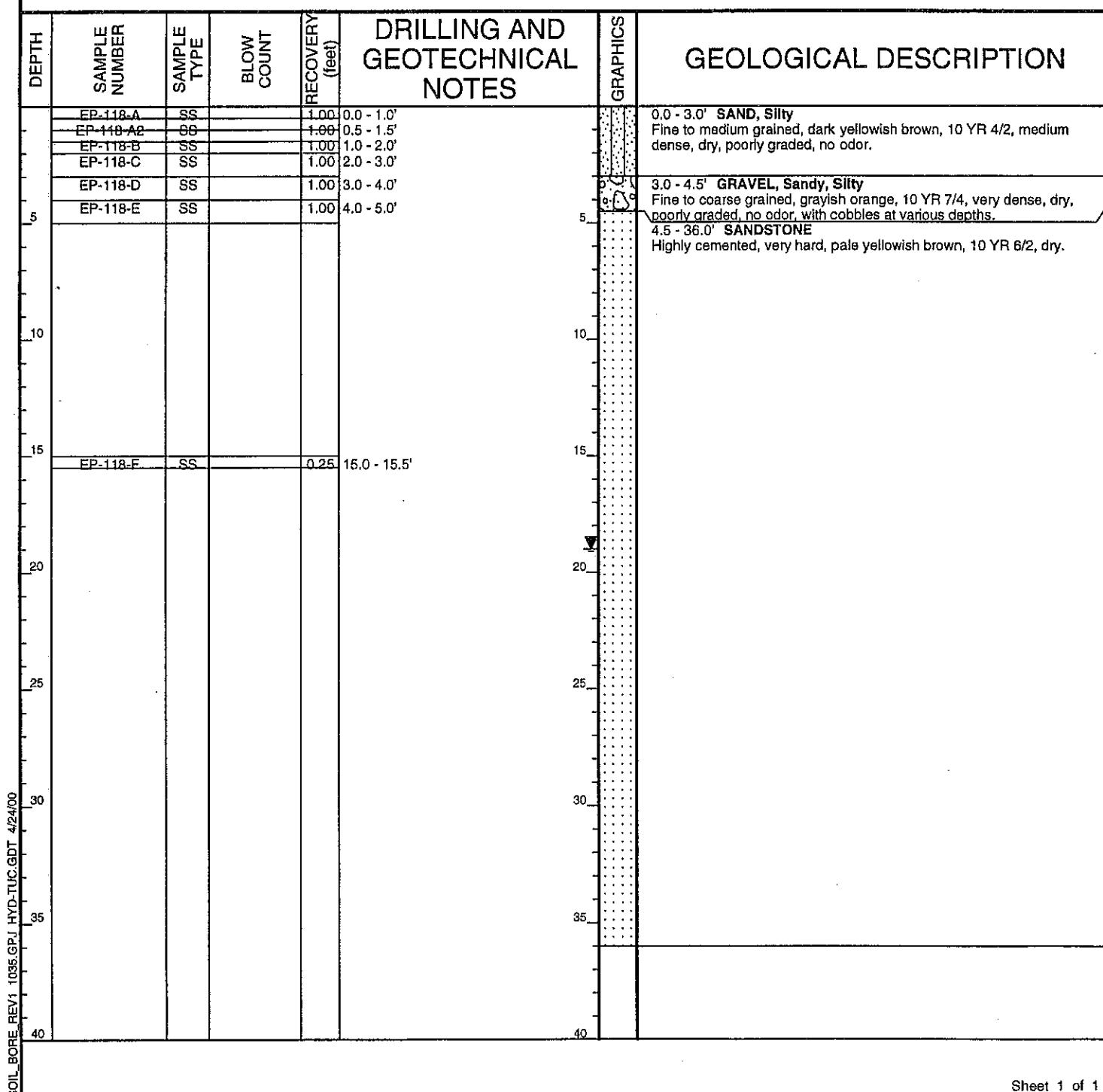
Descriptive Location: Front Slope by railroad tracks, below
Sample Mill Area

Hole Diameter (in): 10.25

Recorded By: H Kutz

Total Depth Drilled (ft): 36

Remarks: Initial boring 4 inches in diameter for sample collection. Hole reamed to 8 inches for installation of 2-inch diameter monitor well.



APPENDIX D

SUMMARY OF SOIL ANALYTICAL RESULTS

APPENDIX D

SUMMARY OF SOIL ANALYTICAL RESULTS

APPENDIX D

SUMMARY OF SOIL ANALYTICAL RESULTS

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**Table D-1. Summary of Soil Analytical Results,
Investigation Area 1 (Converter Building/Baghouse Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|---------------|----------|----------|---------------|--------------------|--------------------|---------------------|-------------------|-----------------|-----------------|---------------------|-----------------|
| BH1-1 | BH1-1A | 08/31/99 | 0.5-1.5 ft. | 30 | 10 U | 80 U | 100 | 2.3 | 62 | 10 U | 290 |
| | BH1-1B | 08/31/99 | 1.5-2.5 ft. | 200 | 58 | 80 U | 5500 | 2.4 | 1600 | 13 | 2400 |
| | BH1-1C | 08/31/99 | 10-12 ft. | 17 | 10 U | 80 U | 39 | 2.2 | 10 U | 10 U | 31 |
| | BH1-1D | 08/31/99 | 15-17 ft. | 10 | 10 U | 80 U | 20 U | 2.4 | 10 U | 10 U | 23 |
| | BH1-1E | 08/31/99 | 20-22 ft. | 20 | 10 U | 80 U | 23 | 2.7 | 10 U | 10 U | 32 |
| | BH1-1F | 08/31/99 | 25-27 ft. | 16 | 20 | 87 | 27 | 3.2 | 10 U | 10 U | 48 |
| | BH1-1G | 09/01/99 | 30-32 ft. | 48 | 10 U | 80 U | 20 U | 4.1 | 11 | 10 U | 57 |
| | BH1-1H | 09/01/99 | 35-37 ft. | 33 | 10 U | 80 U | 23 | 3.6 | 16 | 10 U | 30 |
| | BH1-1I | 09/01/99 | 40-42 ft. | 16 | 10 U | 80 U | 49 | 2.5 | 10 U | 12 | 36 |
| | BH1-1J | 09/01/99 | 45-47 ft. | 18 | 10 U | 80 U | 23 | 2.8 | 10 U | 10 U | 51 |
| BH1-2 | BH1-2A | 09/01/99 | 0-1 ft. | 720 | 590 | 80 U | 3100 | 2.2 | 710 | 31 | 3900 |
| | BH1-2B | 09/01/99 | 1-2 ft. | 77 | 160 | 80 U | 250 | 2 | 190 | 10 U | 1100 |
| | BH1-2C | 09/01/99 | 2-3 ft. | 16 | 10 U | 80 U | 93 | 2 | 100 | 10 U | 61 |
| | BH1-2D | 09/01/99 | 3-4 ft. | 30 | 10 U | 80 U | 160 | 2.3 | 140 | 10 U | 200 |
| | BH1-2E | 09/01/99 | 4-5 ft. | 12 | 10 U | 80 U | 99 | 2.1 | 46 | 10 U | 66 |
| | BH1-2F | 09/02/99 | 10-12 ft. | 10 | 10 U | 80 U | 20 U | 2.4 | 10 U | 10 U | 48 |
| | BH1-2G | 09/02/99 | 15-17 ft. | 12 | 10 U | 80 U | 20 U | 2.2 | 10 U | 10 U | 25 |
| | BH1-2H | 09/02/99 | 20-22 ft. | 23 | 10 U | 80 U | 50 | 3.2 | 11 | 10 U | 38 |
| | BH1-2I | 09/02/99 | 25-27 ft. | 12 | 10 U | 80 U | 20 U | 2.3 | 10 U | 10 U | 32 |
| | BH1-2J | 09/02/99 | 30-32 ft. | 48 | 10 U | 80 U | 56 | 3.9 | 10 U | 10 U | 40 |
| EP-100 | BH1-2K | 09/02/99 | 35-37 ft. | 24 | 10 U | 80 U | 20 U | 3 | 11 | 10 U | 17 |
| | BH1-2K2 | 09/02/99 | DUP | 25 | 10 U | 80 U | 25 | 3 | 12 | 10 U | 31 |
| | BH1-2L | 09/02/99 | 40-42 ft. | 21 | 11 | 80 U | 45 | 2.8 | 10 U | 10 U | 23 |
| | EP-100A | 9/8/99 | 0-1 ft. | 850 | 360 | 80 U | 2900 | 2.3 | 850 | 20 | 3100 |
| | EP-100B | 9/8/99 | 1-2 ft. | 2300 | 310 | 80 U | 4600 | 2.7 | 610 | 28 | 3600 |
| | EP-100C | 9/8/99 | 2-3 ft. | 720 | 210 | 92 | 11000 | 4.5 | 1900 | 19 | 3300 |
| | EP-100D | 9/8/99 | 3-4 ft. | 280 | 410 | 80 U | 7400 | 2.2 | 1900 | 22 | 6900 |
| | EP-100E | 9/8/99 | 4-5 ft. | 76 | 33 | 80 U | 2100 | 1.8 | 680 | 11 | 2400 |
| | EP-100F | 9/8/99 | 10-12 ft. | 290 | 61 | 80 U | 2000 | 2.1 | 440 | 10 U | 960 |
| | EP-100G | 9/8/99 | 15-17 ft. | 14 | 10 U | 96 | 750 | 1.6 | 240 | 10 U | 240 |
| | EP-100H | 9/8/99 | 20-22 ft. | 91 | 24 | 80 U | 2200 | 1.7 | 790 | 10 U | 1400 |
| | EP-100H2 | 9/8/99 | 20-22 ft. | 63 | 53 | 80 U | 1600 | 1.6 | 660 | 10 U | 1200 |
| | EP-100I | 9/8/99 | 25-27 ft. | 130 | 10 U | 80 U | 140 | 2.7 | 370 | 10 U | 110 |

**Table D-1. Summary of Soil Analytical Results,
Investigation Area 1 (Converter Building/Baghouse Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|---------------|----------|----------|---------------|--------------------|--------------------|---------------------|-------------------|-----------------|-----------------|---------------------|-----------------|
| EP-100 | EP-100J | 9/8/99 | 30-32 ft. | 28 | 10 U | 80 U | 41 | 2.9 | 37 | 10 U | 32 |
| | EP-100K | 9/8/99 | 35-37 ft. | 100 | 220 | 80 U | 77 | 2.7 | 50 | 10 U | 540 |
| | EP-100L | 9/8/99 | | 100 | 10 U | 80 U | 20 U | 12 | 10 U | 10 U | 64 |
| | EP-100L2 | 9/8/99 | | 73 | 10 U | 80 U | 20 U | 5.9 | 10 U | 10 U | 38 |
| | EP-100M | 9/8/99 | | 110 | 10 U | 80 U | 35 | 11 | 10 U | 10 U | 66 |
| | | | | | | | | | | | |
| EP-115 | EP-115A | 11/16/99 | 0-1 ft. | 2800 | 850 | 80 U | 16000 | 35000 | 7000 | 67 | 5300 |
| | EP-115B | 11/16/99 | 1-2 ft. | 950 | 400 | 80 U | 5900 | 39000 | 2800 | 21 | 2200 |
| | EP-115C | 11/16/99 | 2-3 ft. | 830 | 380 | 80 U | 5000 | 40000 | 2300 | 26 | 1900 |
| | EP-115D | 11/16/99 | 3-4 ft. | 1100 | 420 | 80 U | 5500 | 39000 | 2800 | 20 | 2100 |
| | EP-115E | 11/16/99 | 4-5 ft. | 750 | 320 | 80 U | 3500 | 39000 | 1700 | 18 | 1300 |
| | EP-115F | 11/16/99 | 10-12 ft. | 337 | 254 | 12 | 298 | 16810 | 432 | 5 U | 1193 |
| | EP-115F | 11/16/99 | 10-12 ft. | 360 | 270 | 80 U | 350 | 24000 | 510 | 10 U | 1200 |
| | | | | | | | | | | | |

Table D-2. Summary Soil Analytical Results
Investigation Area 2 (Boneyard/Slag Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH2-1 | BH2-1A | 08/10/99 | 63-65 ft. | 19 | 10 | U | 80 | U | 170 | 3.5 | 790 |
| | BH2-1B | 08/10/99 | 68-70 ft. | 12 | 10 | U | 80 | U | 26 | 2.7 | 10 |
| | BH2-1C | 08/10/99 | 73-75 ft. | 64 | 10 | U | 80 | U | 20 | U | 10 |
| | | | | | | | | | 2.7 | 10 | U |
| BH2-3 | BH2-3A | 08/13/99 | 40-42 ft. | 27 | 10 | U | 80 | U | 20 | 2 | 10 |
| | BH2-3B | 08/13/99 | 45-47 ft. | 10 | U | 10 | U | 80 | U | 2.3 | 10 |
| | BH2-3C | 08/13/99 | 50-52 ft. | 10 | U | 10 | U | 80 | U | 1.9 | 10 |
| | BH2-3D | 08/13/99 | 55-57 ft. | 10 | U | 10 | U | 83 | U | 1.8 | 10 |
| | BH2-3E | 08/13/99 | 60-62 ft. | 21 | 14 | U | 80 | U | 20 | 2 | 10 |
| | BH2-3E2 | 08/13/99 | DUP | 19 | 10 | U | 80 | U | 20 | 2 | 10 |
| | BH2-3F | 08/13/99 | 65-67 ft. | 36 | 10 | U | 80 | U | 20 | U | 10 |
| | BH2-3G | 08/13/99 | 70-72 ft. | 120 | 15 | U | 80 | U | 20 | 1.9 | 10 |
| | BH2-3H | 08/13/99 | 75-76 ft. | 100 | 10 | U | 80 | U | 49 | 3.1 | 10 |
| BH2-4 | BH2-4A | 08/16/99 | 54-55 ft. | 170 | 120 | U | 80 | U | 37 | 2.3 | 59 |
| | | | | | | | | | | 14 | 14 |
| BH2-5 | BH2-5A | 08/16/99 | 16-18 ft. | 10 | U | 10 | U | 80 | U | 20 | 1.8 |
| | BH2-5B | 08/16/99 | 20-22 ft. | 10 | U | 10 | U | 80 | U | 44 | 1.7 |
| | BH2-5C | 08/16/99 | 24-26 ft. | 10 | U | 10 | U | 80 | U | 40 | 2.1 |
| | BH2-5C2 | 08/16/99 | DUP | 10 | U | 10 | U | 80 | U | 45 | 2.1 |
| | | | | | | | | | | 12 | 10 |
| BH2-6 | BH2-6A | 08/16/99 | 9-11 ft. | 1100 | 450 | U | 80 | U | 160 | 1.4 | 56 |
| | BH2-6B | 08/16/99 | 15-17 ft. | 3700 | 210 | U | 80 | U | 1300 | 4.9 | 74 |
| | BH2-6C | 08/16/99 | 20-22 ft. | 870 | 1600 | U | 80 | U | 240 | 3 | 23 |
| | BH2-6D | 08/16/99 | 24-26 ft. | 400 | 630 | U | 80 | U | 20 | 2.9 | 15 |
| | BH2-6D2 | 08/16/99 | DUP | 410 | 690 | U | 80 | U | 40 | 3 | 14 |
| | BH2-6E | 08/16/99 | 30-32 ft. | 170 | 710 | U | 80 | U | 20 | 2.6 | 10 |
| | BH2-6F | 08/17/99 | 35-37 ft. | 85 | 670 | U | 80 | U | 48 | 2.7 | 10 |
| | BH2-6G | 08/17/99 | 40-42 ft. | 370 | 1400 | U | 80 | U | 37 | 3 | 10 |
| | BH2-6H | 08/17/99 | 45-47 ft. | 47 | 58 | U | 80 | U | 23 | 1.3 | 10 |
| BH2-7 | BH2-7A | 08/17/99 | 10-12 ft. | 13 | 10 | U | 80 | U | 20 | U | 2.4 |
| | BH2-7B | 08/17/99 | 15-17 ft. | 10 | U | 10 | U | 80 | U | 29 | 2.5 |
| | BH2-7C | 08/17/99 | 20-22 ft. | 11 | 10 | U | 80 | U | 20 | U | 2.6 |
| | BH2-7C2 | 08/17/99 | DUP | 11 | 10 | U | 86 | U | 20 | U | 2.6 |
| | BH2-7D | 08/17/99 | 25-27 ft. | 10 | U | 10 | U | 80 | U | 20 | 0.69 |
| | BH2-7E | 08/17/99 | 30-32 ft. | 22 | 10 | U | 80 | U | 20 | U | 3 |
| | BH2-7F | 08/17/99 | 35-37 ft. | 11 | 10 | U | 80 | U | 45 | 2.2 | 10 |
| | BH2-7G | 08/17/99 | 40-41 ft. | 11 | 14 | U | 80 | U | 21 | 2.6 | 10 |
| | BH2-7H | 08/17/99 | 45-46 ft. | 10 | U | 10 | U | 80 | U | 35 | 2.3 |
| EP-99 | EP-99A | 8/12/99 | 57-59 ft. | 10 | U | 10 | U | 80 | U | 54 | 45 |
| | EP-99B | 8/12/99 | 65-67 ft. | 10 | U | 10 | U | 80 | U | 20 | 2.4 |

Table D-3. Summary of Soil Analytical Results
Investigation Area 3 (Acid Plant 1 and 2 Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH3-1 | BH3-11A | 08/18/99 | 0-1 ft. | 300 | 110 | 110 | 3400 | 2.3 | 990 | 13 | 1200 |
| | BH3-11B | 08/18/99 | 1-2 ft. | 10 | U | 80 | U | 1.6 | 57 | 10 | U |
| | BH3-11C | 08/18/99 | 2-3 ft. | 18 | 14 | 80 | U | 1.8 | 340 | 10 | U |
| | BH3-11D | 08/18/99 | 3-4 ft. | 10 | U | 80 | U | 1.6 | 18 | 10 | U |
| | BH3-11E | 08/18/99 | 4-5 ft. | 10 | U | 80 | U | 1.5 | 10 | U | 35 |
| | BH3-11F | 08/18/99 | DUP | 10 | U | 80 | U | 1.5 | 10 | U | 32 |
| | BH3-11G | 08/23/99 | 30-32 ft. | 24 | 10 | U | 80 | U | 20 | U | 10 |
| | BH3-11H | 08/23/99 | 35-37 ft. | 22 | 10 | U | 88 | 20 | U | 10 | U |
| | BH3-11I | 08/23/99 | 40-42 ft. | 28 | 10 | U | 80 | U | 3.2 | 10 | U |
| | BH3-11J | 08/23/99 | 45-47 ft. | 19 | 10 | U | 80 | U | 20 | U | 10 |
| BH3-2 | BH3-11J2 | 08/23/99 | DUP | 12 | 10 | U | 80 | U | 2.4 | 10 | U |
| | BH3-11K | 08/23/99 | 49-51 ft. | 10 | U | 10 | U | 20 | U | 2.4 | 10 |
| | BH3-2A | 08/23/99 | 0-1 ft. | 890 | 560 | 80 | U | 4000 | 3 | 2500 | 19 |
| | BH3-2B | 08/23/99 | 1-2 ft. | 10 | U | 10 | U | 82 | 2 | 52 | 10 |
| | BH3-2B2 | 08/23/99 | 1-2 ft. | 74 | 37 | 80 | U | 310 | 2.1 | 280 | 10 |
| | BH3-2C | 08/23/99 | 25-27 ft. | 72 | 51 | 80 | U | 54 | 1.7 | 34 | 10 |
| | BH3-2D | 08/23/99 | 30-32 ft. | 10 | U | 14 | 80 | U | 2.1 | 10 | U |
| | BH3-2E | 08/23/99 | 35-37 ft. | 10 | U | 10 | U | 80 | U | 1.9 | 16 |
| | BH3-2F | 08/23/99 | 40-42 ft. | 16 | 10 | U | 80 | U | 2.6 | 10 | U |
| | BH3-2G | 08/23/99 | 45-47 ft. | 10 | U | 10 | U | 80 | U | 1.9 | 10 |
| BH3-3 | BH3-3A | 08/24/99 | 40-42 ft. | 10 | U | 10 | U | 80 | U | 23 | 100 |
| | BH3-3B | 08/24/99 | 45-47 ft. | 18 | 13 | 80 | U | 20 | U | 2.4 | 10 |
| | BH3-3C | 08/24/99 | 45-47 ft. | 18 | 13 | 80 | U | 20 | U | 2.7 | 10 |
| | BH3-3D | 08/24/99 | 45-47 ft. | 18 | 13 | 80 | U | 20 | U | 10 | U |
| | BH3-3E | 08/24/99 | 45-47 ft. | 18 | 13 | 80 | U | 20 | U | 10 | U |
| BH3-4 | BH3-4A | 08/24/99 | 0-1 ft. | 64 | 37 | 80 | U | 211 | 1.7 | 1300 | 10 |
| | BH3-4B | 08/24/99 | 1-2 ft. | 10 | U | 10 | U | 65 | 1.5 | 120 | 10 |
| | BH3-4C | 08/25/99 | 39-41 ft. | 370 | 360 | 80 | U | 93 | 1.8 | 72 | 10 |
| | BH3-4D | 08/25/99 | 45-47 ft. | 20 | 10 | U | 80 | U | 2.2 | 15 | 10 |
| | BH3-4E | 08/25/99 | 40-52 ft. | 19 | 10 | U | 80 | U | 2.4 | 10 | U |
| BH3-5 | BH3-5A | 08/25/99 | 3-4.5 ft. | 870 | 190 | 260 | 7400 | 3.1 | 3800 | 35 | 10000 |
| | BH3-5A2 | 08/25/99 | DUP | 550 | 150 | 200 | 5600 | 2.7 | 2400 | 22 | 7600 |
| | BH3-5B | 08/25/99 | 31 ft. | 2100 | 430 | 80 | U | 110 | 2.1 | 63 | 81 |
| | BH3-5C | 08/25/99 | 35 ft. | 420 | 300 | 80 | U | 65 | 1.7 | 14 | 13 |
| | BH3-5D | 08/25/99 | 40 ft. | 46 | 10 | U | 80 | U | 2 | 14 | 10 |
| | BH3-5E | 08/25/99 | 45 ft. | 25 | 10 | U | 80 | U | 1.7 | 10 | U |

**Table D-3. Summary Soil Analytical Results
Investigation Area 3 (Acid Plant 1 and 2 Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|----------|-------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH3-5 | BH3-5F | 08/25/99 | 50-52 ft. | 55 | 10 | U | 80 | U | 48 | 2 | 16 |
| BH3-6 | BH3-6A | 08/25/99 | 18-20 ft. | 10 | U | 41 | 80 | U | 20 | U | 1 |
| | BH3-6B | 08/25/99 | 25-27 ft. | 10 | U | 28 | 80 | U | 20 | U | 1 |
| | BH3-6C | 08/26/99 | 30-32 ft. | 10 | U | 10 | 80 | U | 20 | U | 1.1 |
| | BH3-6D | 08/26/99 | 35-37 ft. | 10 | U | 16 | 80 | U | 20 | U | 1.4 |
| | BH3-6E | 08/26/99 | 40-42 ft. | 40 | | 14 | 80 | U | 20 | U | 1.4 |
| | BH3-6F | 08/26/99 | 45-47 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | BH3-6G | 08/26/99 | 50-52 ft. | 330 | | 26 | 80 | U | 20 | U | 1 |
| BH3-6 | BH3-6G2 | 08/26/99 | DUP | 380 | | 26 | 80 | U | 20 | U | 1.1 |
| | BH3-6H | 08/26/99 | 55-57 ft. | 1100 | | 40 | 80 | U | 20 | U | 1 |
| | BH3-6I | 08/26/99 | 60-62 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | BH3-6J | 08/26/99 | 65-67 ft. | 72 | | 10 | U | 80 | U | 47 | 4.7 |
| | BH3-6J | 08/26/99 | 65-67 ft. | 72 | | 10 | U | 80 | U | 47 | 4.7 |
| | BH3-6J | 08/26/99 | 65-67 ft. | 72 | | 10 | U | 80 | U | 47 | 4.7 |
| | BH3-6J | 08/26/99 | 65-67 ft. | 72 | | 10 | U | 80 | U | 47 | 4.7 |
| BH3-7 | BH3-7A | 08/26/99 | 30-32 ft. | 10 | U | 10 | U | 80 | U | 32 | 1.9 |
| | BH3-7B | 08/26/99 | 35-37 ft. | 10 | U | 10 | U | 80 | U | 52 | 1.7 |
| | BH3-7C | 08/26/99 | 40-42 ft. | 17 | | 10 | U | 80 | U | 61 | 2 |
| | BH3-7C2 | 08/26/99 | DUP | 10 | U | 10 | U | 80 | U | 33 | 1.9 |
| | BH3-7D | 08/26/99 | 45-47 ft. | 18 | | 10 | U | 80 | U | 66 | 2.8 |
| | BH3-7E | 08/26/99 | 50-52 ft. | 15 | | 10 | U | 80 | U | 20 | U |
| | BH3-7F | 08/26/99 | 55-57 ft. | 56 | | 10 | U | 80 | U | 39 | 4.7 |
| BH3-7 | BH3-7G | 08/26/99 | 60-62 ft. | 10 | U | 10 | U | 80 | U | 45 | 1.1 |
| | BH3-7H | 08/26/99 | 65-67 ft. | 50 | | 10 | U | 80 | U | 27 | 3.1 |
| | BH3-7I | 08/27/99 | 69-70 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | BH3-7I | 08/27/99 | 69-70 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | BH3-7I | 08/27/99 | 69-70 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | BH3-7I | 08/27/99 | 69-70 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | BH3-7I | 08/27/99 | 69-70 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| BH3-8 | BH3-8A | 08/31/99 | 55-57 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | BH3-8B | 08/31/99 | 60-62 ft. | 180 | | 42 | 80 | U | 44 | 1.4 | 3.3 |
| | BH3-8B2 | 08/31/99 | 60-62 ft. | 170 | | 62 | 80 | U | 20 | U | 1.3 |
| EP-114 | EP-114A | 11/15/99 | 2.5-3.5 ft. | 514 | | 180 | 22 | 592 | 26760 | 860 | 5 |
| | EP-114A | 11/15/99 | 2.5-3.5 ft. | 600 | | 200 | 80 | U | 710 | 30000 | 840 |
| | EP-114B | 11/15/99 | 3.5-4.5 ft. | 291 | | 417 | 11 | 201 | 15280 | 222 | 5 |
| | EP-114B | 11/15/99 | 3.5-4.5 ft. | 310 | | 460 | 80 | U | 250 | 21000 | 270 |
| | EP-114C | 11/15/99 | 4.5-5.5 ft. | 18 | | 10 | U | 80 | U | 45 | 20000 |
| | EP-114D | 11/15/99 | 10-12 ft. | 110 | | 24 | 80 | U | 250 | 23000 | 210 |

Table D-4. Summary Soil Analytical Results

Investigation Area 4 (Front Slope/Western Plant Boundary Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|-------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH4-1 | BH4-1A | 11/17/99 | 0-1 ft. | 340 | 110 | J4 | 80 | U | 7300 | 2.6 | 3700 |
| | BH4-1A2 | 11/17/99 | 0-1 ft. | 240 | 66 | J4 | 80 | U | 6500 | 2.4 | 3500 |
| | BH4-1B | 11/17/99 | 1-2 ft. | 260 | 77 | J4 | 80 | U | 4600 | 2.5 | 4100 |
| | BH4-1C | 11/17/99 | 2-3 ft. | 200 | 60 | J4 | 80 | U | 4400 | 2.6 | 2800 |
| | BH4-1D | 11/17/99 | 3-4 ft. | 170 | 83 | J4 | 80 | U | 3400 | 2.3 | 3300 |
| | BH4-1E | 11/17/99 | 4-5 ft. | 140 | 54 | J4 | 80 | U | 3300 | 2.4 | 2200 |
| | BH4-1F | 11/17/99 | 10-12 ft. | 11 | 10 | J4 | 80 | U | 110 | 2 | 97 |
| BH4-2 | BH4-2A | 11/18/99 | 0-1 ft. | 760 | 380 | | 80 | U | 5800 | 28000 | 6500 |
| | BH4-2B | 11/18/99 | 1-2 ft. | 494 | 232 | | 16 | U | 3303 | 21050 | 4355 |
| | BH4-2B | 11/18/99 | 1-2 ft. | 650 | 320 | | 80 | U | 4900 | 32000 | 4800 |
| | BH4-2C | 11/18/99 | 2-3 ft. | 350 | 120 | | 80 | U | 2500 | 31000 | 23000 |
| | BH4-2D | 11/18/99 | 3-4 ft. | 132 | 53 | | 14 | U | 934 | 19400 | 1078 |
| | BH4-2D | 11/18/99 | 3-4 ft. | 200 | 83 | | 80 | U | 1500 | 29000 | 1400 |
| | BH4-2E | 11/18/99 | 4-5 ft. | 144 | 54 | | 23 | U | 951 | 19780 | 1136 |
| | BH4-2E | 11/18/99 | 4-5 ft. | 180 | 72 | | 80 | U | 1600 | 30000 | 1400 |
| | BH4-2F | 11/18/99 | 10-12 ft. | 23 | 10 | U | 80 | U | 58 | 18000 | 30 |
| | BH4-2G | 11/18/99 | 15-17 ft. | 13 | 10 | U | 80 | U | 23 | 21000 | 36 |
| BH4-3 | BH4-3A | 11/18/99 | 10-11 ft. | 54 | 10 | U | 80 | U | 350 | 3 | 390 |
| | BH4-4A | 11/18/99 | 0-1 ft. | 11000 | J4 | 2600 | J4 | 80 | U | 20000 | 4 |
| | BH4-4A2 | 11/18/99 | 0-1 ft. | 7100 | J4 | 1700 | J4 | 80 | U | 18000 | 3.9 |
| | BH4-4B | 11/18/99 | 1-2 ft. | 2000 | J4 | 580 | J4 | 80 | U | 4300 | 2.6 |
| | BH4-4C | 11/18/99 | 2-3 ft. | 3200 | J4 | 900 | J4 | 80 | U | 6300 | 3 |
| | BH4-4D | 11/18/99 | 3-4 ft. | 1900 | J4 | 530 | J4 | 80 | U | 3600 | 2.5 |
| | BH4-4E | 11/18/99 | 4-5 ft. | 410 | J4 | 82 | J4 | 80 | U | 570 | 2.1 |
| | BH4-4F | 11/18/99 | 10-12 ft. | 100 | J4 | 21 | J4 | 80 | U | 170 | 2.3 |
| | BH4-4F | 11/18/99 | 10-12 ft. | 130 | | 12 | | 80 | U | 500 | 2.4 |
| | BH4-4F | 11/18/99 | 10-12 ft. | 130 | | 12 | | 80 | U | 270 | 10 |
| BH4-5 | BH4-5A | 11/18/99 | 0-1 ft. | 4200 | 1500 | | 80 | U | 23000 | 4.8 | 8600 |
| | BH4-5A2 | 11/18/99 | 0-1 ft. | 4100 | 1400 | | 80 | U | 23000 | 4.9 | 8300 |
| | BH4-5B | 11/18/99 | 1-2 ft. | 2500 | 930 | | 80 | U | 11000 | 3.9 | 5300 |
| | BH4-5C | 11/18/99 | 2-3 ft. | 2000 | 700 | | 80 | U | 8900 | 3.5 | 4500 |
| | BH4-5D | 11/18/99 | 3-4 ft. | 910 | 100 | | 80 | U | 1500 | 3 | 3600 |
| | BH4-5E | 11/18/99 | 4-5 ft. | 300 | 84 | | 80 | U | 1400 | 2.6 | 950 |
| | BH4-5F | 11/18/99 | 10-12 ft. | 130 | | 12 | | 80 | U | 470 | 10 |

Table D-4. Summary Soil Analytical Results

Investigation Area 4 (Front Slope/Western Plant Boundary Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|----------|-------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH4-6 | BH4-6A | 11/18/99 | 0-1 ft. | 310 | 190 | 80 | U | 4000 | 3 | 1500 | 15 |
| | BH4-6B | 11/18/99 | 1-2 ft. | 50 | 24 | 80 | U | 620 | 1.8 | 380 | 10 |
| | BH4-6C | 11/18/99 | 2-3 ft. | 150 | 60 | 80 | U | 1700 | 2.7 | 890 | 10 |
| | BH4-6D | 11/18/99 | 3-4 ft. | 690 | 190 | 80 | U | 6600 | 3.3 | 2800 | 17 |
| | BH4-6E | 11/18/99 | 4-5 ft. | 29 | 10 | U | 80 | 230 | 1.4 | 210 | 10 |
| | BH4-6E2 | 11/18/99 | 4-5 ft. | 19 | 18 | 80 | U | 240 | 1.4 | 200 | 10 |
| EP-114 | BH4-6F | 11/18/99 | 10-12 ft. | 43 | 10 | U | 80 | 190 | 1.2 | 140 | 10 |
| | EP-114A | 11/15/99 | 2.5-3.5 ft. | 600 | 200 | 80 | U | 710 | 3 | 840 | 11 |
| | EP-114B | 11/15/99 | 3.5-4.5 ft. | 310 | 460 | 80 | U | 250 | 2.1 | 270 | 10 |
| | EP-114C | 11/15/99 | 4.5-5.5 ft. | 18 | 10 | U | 80 | 45 | 2 | 64 | 10 |
| | EP-114D | 11/15/99 | 10-12 ft. | 110 | 24 | 80 | U | 250 | 2.3 | 210 | 10 |
| | EP-115A | 11/16/99 | 0-1 ft. | 2800 | 850 | 80 | U | 16000 | 3.5 | 7000 | 67 |
| EP-115 | EP-115B | 11/16/99 | 1-2 ft. | 950 | 400 | 80 | U | 5900 | 3.9 | 2800 | 21 |
| | EP-115C | 11/16/99 | 2-3 ft. | 830 | 380 | 80 | U | 5000 | 4 | 2300 | 26 |
| | EP-115D | 11/16/99 | 3-4 ft. | 1100 | 420 | 80 | U | 5500 | 3.9 | 2800 | 20 |
| | EP-115E | 11/16/99 | 4-5 ft. | 750 | 320 | 80 | U | 3500 | 3.9 | 1700 | 18 |
| | EP-115F | 11/16/99 | 10-12 ft. | 360 | 270 | 80 | U | 350 | 2.4 | 510 | 10 |
| | EP-116A | 11/16/99 | 0-1 ft. | 18000 | J4 | 530 | J4 | 80 | U | 57000 | J4 |
| EP-116 | EP-116A2 | 11/16/99 | 0-1 ft. | 11000 | J4 | 340 | J4 | 90 | U | 82000 | J4 |
| | EP-116B | 11/16/99 | 1-2 ft. | 9800 | J4 | 360 | J4 | 80 | U | 97000 | J4 |
| | EP-116C | 11/16/99 | 2-2.5 ft. | 9200 | J4 | 360 | J4 | 80 | U | 100000 | J4 |
| | EP-116D | 11/16/99 | 5-7 ft. | 6800 | J4 | 960 | J4 | 83 | U | 23000 | J4 |
| | EP-116E | 11/16/99 | 10-12 ft. | 5300 | J4 | 1200 | J4 | 80 | U | 33000 | J4 |
| | EP-117 | 11/16/99 | 0-1 ft. | 2300 | J4 | 480 | 80 | U | 4100 | J4 | 3.2 |
| EP-117 | EP-117B | 11/16/99 | 1-2 ft. | 1700 | J4 | 300 | 80 | U | 2500 | J4 | 2.9 |
| | EP-117C | 11/16/99 | 2-3 ft. | 2300 | J4 | 460 | 80 | U | 5400 | J4 | 3.5 |
| | EP-117D | 11/16/99 | 3-4 ft. | 1200 | J4 | 230 | 80 | U | 2900 | J4 | 2.7 |
| | EP-117E | 11/16/99 | 5-6 ft. | 140 | J4 | 10 | U | 80 | U | 160 | J4 |
| | EP-117F | 11/16/99 | 10-12 ft. | 210 | J4 | 10 | U | 140 | J4 | 2.3 | 110 |
| | EP-117F2 | 11/16/99 | 10-12 ft. | 500 | J4 | 66 | J4 | 80 | U | 1100 | J4 |

Table D-4. Summary Soil Analytical Results

Investigation Area 4 (Front Slope/Western Plant Boundary Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|---------|----------|----------|-------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| EP-118 | EP-118A | 11/17/99 | 0-1 ft. | 1300 | 340 | 80 | U | 17000 | 4.3 | 10000 | 110 |
| | EP-118A2 | 11/17/99 | 0-1 ft. | 1000 | 240 | 80 | U | 12000 | 3.9 | 7400 | 65 |
| | EP-118B | 11/17/99 | 1-2 ft. | 720 | 200 | 80 | U | 8400 | 3.4 | 5900 | 57 |
| | EP-118C | 11/17/99 | 2-3 ft. | 120 | 56 | 80 | U | 1600 | 1.9 | 1700 | 12 |
| | EP-118D | 11/17/99 | 3-4 ft. | 61 | 29 | 80 | U | 860 | 1.7 | 950 | 10 |
| | EP-118E | 11/17/99 | 4-5 ft. | 75 | 43 | 80 | U | 1100 | 1.7 | 1300 | 10 |
| EP-118F | | 11/17/99 | 15-15.5 ft. | 54 | 20 | 80 | U | 560 | 1.6 | 630 | 10 |

Table D-5. Summary of Soil Analytical Results
Investigation Area No. 5 (Historic Smealertown Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|----------|---------------|--------------------|--------------------|---------------------|-------------------|-----------------|-----------------|---------------------|-----------------|
| EP-111 | EP-111A | 10/27/99 | 0 | 33 | 27 | 80 | U | 420 | 19000 | 430 | 10 |
| | EP-111B | 10/27/99 | 1 | 10 | U | 10 | U | 170 | 16000 | 52 | 10 |
| | EP-111C | 10/27/99 | 2 | 50 | 12 | 80 | U | 490 | 26000 | 600 | 10 |
| | EP-111D | 10/27/99 | 3 | 65 | 10 | U | 80 | U | 310 | 23000 | 330 |
| | EP-111E | 10/27/99 | 4 | 35 | 13 | 80 | U | 190 | 20000 | 240 | 10 |
| | | | | | | | | | | | U |
| EP-112 | EP-112A | 10/27/99 | 0 | 84 | 32 | 80 | U | 1300 | 23000 | 1200 | 10 |
| | EP-112B | 10/27/99 | 1 | 86 | 54 | 80 | U | 1100 | 20000 | 1500 | 10 |
| | EP-112C | 10/27/99 | 2 | 10 | U | 23 | 80 | U | 320 | 15000 | 430 |
| | EP-112D | 10/27/99 | 3 | 10 | U | 10 | U | 20 | U | 11000 | 22 |
| | EP-112E | 10/27/99 | 4 | 10 | U | 10 | U | 40 | U | 12000 | 27 |
| | | | | | | | | | | | 10 |
| EP-113 | EP-113A | 10/28/99 | 0 | 10 | U | 10 | U | 80 | U | 110 | 10 |
| | EP-113B | 10/28/99 | 1 | 26 | 20 | 80 | U | 570 | 21000 | 630 | 10 |
| | EP-113C | 10/28/99 | 2 | 33 | 10 | U | 86 | 370 | 19000 | 310 | 10 |
| | EP-113D | 10/28/99 | 3 | 24 | 11 | 80 | U | 310 | 22000 | 160 | 10 |
| | EP-113E | 10/28/99 | 4 | 10 | U | 10 | U | 20 | U | 10000 | 16 |
| | | | | | | | | | | | 10 |

**Table D-6. Summary of Analytical Results
Investigation Area 8 (Bedding and Unloading Buildings Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|----------------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH8-1 | BH8-1A | 10/29/99 | 31-33 ft. | 41 | 12 | 80 | U | 20 | U | 34 | 10 |
| | BH8-1B | 10/29/99 | 35-37 ft. | 19 | 10 | U | 80 | U | 2.5 | 28 | 10 |
| | BH8-1C | 10/30/99 | 40-42 ft. | 12 | 10 | U | 80 | U | 2.7 | 12 | 10 |
| | BH8-1D | 10/30/99 | 45-47 ft. | 10 | U | 80 | U | 50 | 1.5 | 14 | 10 |
| | BH8-1E | 10/30/99 | 50-52 ft. | 10 | U | 80 | U | 89 | 1.7 | 10 | U |
| | BH8-1F | 10/30/99 | 55-57 ft. | 10 | U | 80 | U | 20 | U | 10 | U |
| | BH8-1F2 | 10/30/99 | 55-57 ft. | 10 | U | 80 | U | 20 | U | 10 | U |
| | BH8-1G | 10/30/99 | 60-62 ft. | 10 | U | 10 | U | 80 | U | 10 | U |
| | BH8-1H | 10/30/99 | 65-67 ft. | 10 | U | 10 | U | 80 | U | 10 | U |
| | BH8-1I | 10/30/99 | 70-72 ft. | 10 | U | 10 | U | 80 | U | 10 | U |
| BH8-2 | BH8-2A | 11/1/99 | 10-12 ft. | 171 | 68 | 80 | U | 400 | 1.1 | 54 | 10 |
| | BH8-2B | 11/1/99 | 15-17 ft. | 64 | 610 | 80 | U | 47 | 2.5 | 30 | 10 |
| | BH8-2C | 11/1/99 | 20-22 ft. | 20 | 18 | 80 | U | 20 | U | 2.7 | 10 |
| | BH8-2D | 11/1/99 | 25-27 ft. | 12 | 10 | U | 80 | U | 36 | 2.4 | 10 |
| | BH8-2D2 | 11/1/99 | 25-27 ft. | 10 | 11 | 80 | U | 20 | U | 2.4 | 12 |
| | BH8-2E | 11/1/99 | 30-32 ft. | 10 | U | 10 | U | 80 | U | 1.9 | 10 |
| | BH8-2F | 11/1/99 | 35-37 ft. | 29 | 10 | 80 | U | 20 | U | 3.1 | 11 |
| | BH8-2G | 11/1/99 | 40-42 ft. | 10 | U | 10 | U | 80 | U | 2.2 | 10 |
| | BH8-2H | 11/1/99 | 45-47 ft. | 10 | U | 10 | U | 80 | U | 0.86 | 10 |
| | BH8-2I | 11/1/99 | 50-52 ft. | 10 | U | 10 | U | 48 | 1 | 1 | 10 |
| | BH8-2J | 11/1/99 | 50-52 ft. | 10 | U | 10 | U | 20 | U | 1.2 | 10 |
| | BH8-2J2 | 11/1/99 | 55-57 ft. | 25 | 10 | U | 80 | U | 20 | U | 3 |
| BH8-3 | BH8-2J | 11/1/99 | 60-62 ft. | 10 | U | 10 | U | 80 | U | 1.8 | 10 |
| | BH8-2K | 11/1/99 | 65-67 ft. | 12 | 10 | U | 80 | U | 20 | U | 2.2 |
| | BH8-2L | 11/1/99 | 65-67 ft. | 12 | 10 | U | 80 | U | 20 | U | 10 |
| | BH8-3A | 11/1/99 | 14-16 ft. | 63 | 11 | 80 | U | 65 | 2.1 | 143 | 10 |
| | BH8-3B | 11/1/99 | 20-22 ft. | 10 | U | 80 | U | 20 | U | 1.3 | 10 |
| | BH8-3C | 11/1/99 | 25-27 ft. | 10 | U | 10 | U | 80 | U | 45 | 1.2 |
| BH8-3C2 | BH8-3C2 | 11/1/99 | 25-27 ft. | 10 | U | 10 | U | 80 | U | 1.3 | 12 |
| | BH8-3D | 11/1/99 | 30-32 ft. | 116 | 10 | U | 80 | U | 79 | 2.4 | 10 |
| | BH8-3E | 11/1/99 | 35-37 ft. | 87 | 10 | U | 80 | U | 48 | 1.6 | 10 |
| | BH8-3F | 11/2/99 | 40-42 ft. | 54 | 10 | U | 80 | U | 43 | 3 | 29 |
| | BH8-3G | 11/2/99 | 45-47 ft. | 10 | U | 10 | U | 80 | U | 1.4 | 10 |
| | BH8-3H | 11/2/99 | 50-52 ft. | 10 | U | 10 | U | 80 | U | 1.4 | 10 |
| | BH8-3I | 11/2/99 | 55-57 ft. | 21 | 10 | U | 80 | U | 20 | U | 2.5 |
| | | | | | | | | | | 10 | U |
| | | | | | | | | | | 10 | U |
| | | | | | | | | | | 10 | U |

Table D-6. Summary Jil Analytical Results
Investigation Area 8 (Bedding and Unloading Buildings Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|---------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH8-4 | BH8-4A | 11/2/99 | 0-1 ft. | 6100 | 2600 | 1800 | 49000 | 5.1 | 29000 | 270 | 23000 |
| | BH8-4B | 11/2/99 | 1-2 ft. | 210 | 110 | 210 | 760 | 1.4 | 550 | 10 | U 2300 |
| | BH8-4C | 11/2/99 | 2-3 ft. | 130 | 170 | 100 | 140 | 1.4 | 120 | 10 | U 1900 |
| | BH8-4D | 11/2/99 | 3-4 ft. | 10 | U 150 | 80 | U 26 | 1.8 | 26 | 10 | U 110 |
| | BH8-4E | 11/2/99 | 4-5 ft. | 10 | U 170 | 80 | U 20 | U 1.8 | 15 | 10 | U 12 |
| | BH8-4F | 11/2/99 | 10-12 ft. | 31 | 48 | 80 | U 20 | U 3.4 | 10 | 10 | U 40 |
| | BH8-4G | 11/2/99 | 15-17 ft. | 10 | U 10 | 80 | U 20 | U 2.3 | 10 | U 10 | U 34 |
| | BH8-4G2 | 11/2/99 | 15-17 ft. | 13 | 10 | U 80 | U 60 | 2.4 | 14 | 10 | U 40 |
| | BH8-4H | 11/2/99 | 20-22 ft. | 11 | 10 | U 80 | U 20 | U 2.5 | 18 | 10 | U 39 |
| | BH8-4I | 11/2/99 | 25-27 ft. | 15 | 11 | 80 | U 49 | 2.3 | 11 | 10 | U 60 |
| | BH8-4J | 11/2/99 | 30-32 ft. | 11 | 10 | U 80 | U 20 | U 2.3 | 10 | U 10 | U 31 |
| | BH8-4K | 11/2/99 | 35-37 ft. | 10 | U 10 | 80 | U 20 | U 2.5 | 10 | U 10 | U 66 |
| | BH8-4L | 11/2/99 | 40-42 ft. | 10 | U 10 | U 80 | U 20 | U 1.3 | 10 | U 10 | U 34 |
| | BH8-4M | 11/2/99 | 45-47 ft. | 10 | U 10 | U 80 | U 20 | U 2.1 | 23 | 10 | U 33 |
| | BH8-4M2 | 11/2/99 | 45-47 ft. | 10 | U 10 | U 80 | U 20 | U 2 | 11 | 10 | U 10 |
| | BH8-4N | 11/2/99 | 50-52 ft. | 10 | U 10 | U 80 | U 20 | U 1.2 | 10 | U 10 | U 13 |
| | BH8-4O | 11/2/99 | 55-57 ft. | 10 | U 10 | U 80 | U 20 | U 1.1 | 10 | U 10 | U 23 |
| | BH8-4P | 11/2/99 | 60-62 ft. | 10 | U 10 | U 80 | U 20 | U 1.1 | 10 | U 10 | U 25 |
| | BH8-4Q | 11/2/99 | 65-67 ft. | 10 | U 10 | U 80 | U 21 | U 1.3 | 10 | U 10 | U 32 |
| EP-103 | EP-103A | 10/4/99 | 0-1 ft. | 12 | 13 | 80 | U 530 | 2 | 93 | 10 | U 91 |
| | EP-103B | 10/4/99 | 1-2 ft. | 10 | U 19 | 80 | U 310 | 1.7 | 390 | 13 | 290 |
| | EP-103C | 10/4/99 | 2-3 ft. | 300 | 160 | 80 | U 4500 | 3.2 | 7900 | 15 | 6100 |
| | EP-103D | 10/4/99 | 3-4 ft. | 1400 | 55 | 80 | U 12000 | 6.9 | 11000 | 16 | 4200 |
| | EP-103E | 10/4/99 | 4-5 ft. | 6600 | 13 | 80 | U 5000 | 7 | 9700 | 27 | 2100 |
| | EP-103F | 10/4/99 | 10-12 ft. | 15 | 10 | U 80 | U 310 | 1.6 | 61 | 10 | U 420 |
| | EP-103F2 | 10/4/99 | 10-12 ft. | 10 | U 10 | U 80 | U 71 | 1.6 | 61 | 10 | U 200 |
| | EP-103G | 10/4/99 | 15-17 ft. | 21 | 10 | U 80 | U 25 | 3.2 | 26 | 10 | U 410 |
| | EP-103H | 10/4/99 | 20-22 ft. | 19 | 10 | U 80 | U 20 | U 2.7 | 39 | 10 | U 410 |
| | EP-103I | 10/4/99 | 25-27 ft. | 11 | 10 | U 80 | U 49 | 2.7 | 33 | 10 | U 88 |
| | EP-103J | 10/4/99 | 30-32 ft. | 10 | U 10 | U 80 | U 20 | U 2.3 | 43 | 10 | U 45 |
| | EP-103K | 10/4/99 | 35-37 ft. | 10 | U 10 | U 80 | U 23 | 2.4 | 46 | 10 | U 26 |
| | EP-103L | 10/4/99 | 40-42 ft. | 14 | 10 | U 80 | U 22 | 2.6 | 50 | 10 | U 40 |
| | EP-103M | 10/4/99 | 45-47 ft. | 26 | 10 | U 80 | U 41 | 3.1 | 37 | 10 | U 49 |
| | EP-103N | 10/4/99 | 50-52 ft. | 10 | U 10 | U 80 | U 20 | U 2.8 | 32 | 10 | U 48 |
| | EP-103N2 | 10/4/99 | 50-52 ft. | 20 | 10 | U 80 | U 37 | 2.8 | 42 | 10 | U 51 |
| | EP-103O | 10/4/99 | 55-57 ft. | 10 | U 10 | U 80 | U 20 | U 2.6 | 41 | 10 | U 52 |
| | EP-103P | 10/4/99 | 60-62 ft. | 10 | U 10 | U 80 | U 31 | 2.5 | 36 | 10 | U 42 |

**Table D-6. Summary of Analytical Results
Investigation Area 8 (Bedding and Unloading Buildings Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|---------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| EP-104 | EP-104A | 10/5/99 | 0-1 ft. | 110 | 36 | 80 | U | 6700 | 2.5 | 2800 | 10 |
| | EP-104B | 10/5/99 | 1-2 ft. | 10 | 10 | 80 | U | 380 | 1.6 | 190 | 10 |
| | EP-104C | 10/5/99 | 2-3 ft. | 46 | 63 | 80 | U | 4700 | 2.4 | 1900 | 10 |
| | EP-104I | 10/5/99 | 25-27 ft. | 10 | U | 80 | U | 20 | U | 2.5 | 47 |
| | EP-104J | 10/5/99 | 30-32 ft. | 20 | 10 | U | 80 | U | 23 | 2.9 | 27 |
| | EP-104K | 10/5/99 | 35-37 ft. | 10 | U | 80 | U | 36 | U | 2.5 | 41 |
| | EP-104L | 10/5/99 | 40-42 ft. | 20 | 10 | U | 80 | U | 49 | 3.3 | 24 |
| | EP-104M | 10/5/99 | 45-47 ft. | 10 | U | 10 | U | 80 | U | 53 | 2.4 |
| | EP-104D | 10/6/99 | 3-4 ft. | 16 | 12 | 80 | U | 990 | 2.1 | 580 | 10 |
| | EP-104E | 10/6/99 | 4-5 ft. | 10 | U | 10 | U | 200 | U | 1.5 | 220 |
| | EP-104E2 | 10/6/99 | 4-5 ft. | 10 | U | 10 | U | 80 | U | 140 | U |
| | EP-104F | 10/6/99 | 10-12 ft. | 10 | U | 10 | U | 80 | U | 24 | 1.1 |
| | EP-104G | 10/6/99 | 15-17 ft. | 10 | U | 10 | U | 80 | U | 25 | 2 |
| | EP-104G | 10/6/99 | 15-17 ft. | 11 | 5 | U | 19 | U | 17 | U | 1.27 |
| | EP-104H | 10/6/99 | 20-22 ft. | 16 | 10 | U | 80 | U | 20 | U | 2.3 |
| | EP-104N | 10/6/99 | 50-52 ft. | 16 | 10 | U | 80 | U | 69 | U | 2.7 |
| | EP-104N2 | 10/6/99 | 50-52 ft. | 13 | 10 | U | 80 | U | 21 | U | 2.6 |
| | EP-104O | 10/6/99 | 55-57 ft. | 10 | U | 10 | U | 80 | U | 33 | U |
| | EP-104P | 10/6/99 | 60-62 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | EP-104P | 10/6/99 | 60-62 ft. | 5 | 5 | U | 14 | U | 14 | U | 1.8 |
| | EP-104Q | 10/6/99 | 65-67 ft. | 10 | U | 10 | U | 80 | U | 20 | U |

| | EP-105A | 10/7/99 | 0-1 ft. | 42 | 10 | U | 80 | U | 130 | U | 1.7 | 76 | 10 | U | 70 | |
|--------|----------|---------|-----------|------|-----|----|-----|----|-------|----|------|-------|-----|----|------|----|
| EP-105 | EP-105B | 10/7/99 | 1-2 ft. | 1600 | 600 | U | 80 | U | 16000 | | 4.7 | 13000 | 120 | | 7400 | |
| | EP-105C | 10/7/99 | 2-3 ft. | 2400 | 120 | U | 80 | U | 17000 | | 6 | 10000 | 72 | | 6400 | |
| | EP-105D | 10/7/99 | 3-4 ft. | 1100 | 39 | U | 80 | U | 19000 | | 5 | 1900 | 13 | | 5700 | |
| | EP-105E | 10/7/99 | 4-5 ft. | 410 | 59 | U | 80 | U | 20000 | | 8.4 | 680 | 10 | U | 3000 | |
| | EP-105E2 | 10/7/99 | 4-5 ft. | 470 | 40 | U | 80 | U | 21000 | | 6.3 | 910 | 10 | U | 3700 | |
| | EP-105F | 10/7/99 | 10-12 ft. | 170 | 17 | U | 80 | U | 2200 | | 5.3 | 480 | 10 | U | 320 | |
| | EP-105G | 10/7/99 | 15-17 ft. | 10 | 10 | U | 120 | | 20 | U | 0.89 | 130 | 10 | U | 35 | |
| | EP-105H | 10/7/99 | 20-22 ft. | 11 | 10 | U | 80 | U | 86 | | 2.3 | 55 | 10 | U | 40 | |
| | EP-105I | 10/7/99 | 25-27 ft. | 14 | 10 | U | 80 | U | 31 | | 2.7 | 48 | 10 | U | 53 | |
| | EP-105J | 10/7/99 | 30-32 ft. | 10 | 10 | U | 80 | U | 33 | | 2.6 | 47 | 10 | U | 37 | |
| | EP-105K | 10/7/99 | 35-37 ft. | 13 | 10 | U | 80 | | 20 | U | 2.4 | 51 | 10 | U | 60 | |
| | EP-105L | 10/7/99 | 40-42 ft. | 17 | 10 | U | 80 | U | 68 | | 2.3 | 39 | 10 | U | 31 | |
| | EP-105M | 10/7/99 | 45-47 ft. | 10 | U | 10 | U | 80 | U | 47 | | 42 | 10 | U | 33 | |
| | EP-105N | 10/8/99 | 50-52 ft. | 21 | 10 | U | 80 | U | 29 | | 3 | 40 | 10 | U | 47 | |
| | EP-105N2 | 10/8/99 | 50-52 ft. | 17 | 10 | U | 80 | U | 20 | | 3 | 33 | 10 | U | 63 | |
| | EP-105O | 10/8/99 | 55-57 ft. | 10 | U | 10 | U | 80 | U | 34 | | 2 | 47 | 10 | U | 33 |

Table D-6. Summary Soil Analytical Results
Investigation Area 8 (Bedding and Unloading Buildings Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| EP-105 | EP-105P | 10/8/99 | 60-62 ft. | 10 U | 10 U | 92 | 20 U | 1.6 | 40 | 10 U | 36 |
| | EP-105Q | 10/8/99 | 75-77 ft. | 10 U | 10 U | 80 | U 20 | 1.6 | 46 | 10 U | 14 |
| EP-106 | EP-106A | 10/16/99 | 0-1 ft. | 270 | 82 | 85 | 3700 | 2.4 | 2800 | 10 U | 1800 |
| | EP-106B | 10/16/99 | 1-2 ft. | 75 | 26 | 80 | U 930 | 2.6 | 720 | 10 U | 370 |
| | EP-106C | 10/16/99 | 2-3 ft. | 54 | 10 U | 80 | U 450 | 2.3 | 470 | 10 U | 250 |
| | EP-106D | 10/16/99 | 3-4 ft. | 92 | 28 | 80 | U 520 | 2.2 | 590 | 10 U | 370 |
| | EP-106E | 10/16/99 | 4-5 ft. | 380 | 130 | 80 | U 320 | 2.2 | 490 | 10 U | 920 |
| | EP-106F | 10/16/99 | 10-12 ft. | 23 | 10 U | 80 | U 27 | 2.3 | 57 | 10 U | 31 |
| | EP-106F2 | 10/16/99 | 10-12 ft. | 13 | 10 U | 80 | U 80 | 2.3 | 48 | 10 U | 49 |
| | EP-106G | 10/16/99 | 15-17 ft. | 21 | 10 U | 80 | U 23 | 2.9 | 34 | 10 U | 40 |
| | EP-106H | 10/16/99 | 20-22 ft. | 10 U | 10 U | 80 | U 39 | 2.5 | 43 | 10 U | 59 |
| | EP-106I | 10/16/99 | 25-27 ft. | 10 U | 10 U | 80 | U 28 | 2.2 | 48 | 10 U | 31 |
| | EP-106J | 10/16/99 | 30-32 ft. | 24 | 10 U | 80 | U 36 | 3.3 | 27 | 10 U | 53 |
| | EP-106K | 10/16/99 | 35-37 ft. | 17 | 10 U | 80 | U 46 | 2.5 | 38 | 10 U | 46 |
| | EP-106L | 10/16/99 | 40-42 ft. | 22 | 10 U | 80 | U 20 | 2.9 | 27 | 10 U | 29 |
| | EP-106M | 10/16/99 | 45-47 ft. | 25 | 10 U | 80 | U 20 | U 3 | 25 | 10 U | 27 |
| | EP-106N | 10/16/99 | 50-52 ft. | 10 U | 10 U | 80 | U 20 | 2.1 | 32 | 10 U | 26 |
| | EP-106O | 10/16/99 | 55-57 ft. | 10 U | 11 U | 80 | U 20 | U 1.7 | 25 | 10 U | 10 |
| | EP-106O2 | 10/16/99 | 55-57 ft. | 10 U | 12 U | 80 | U 20 | U 1.7 | 24 | 10 U | 18 |
| EP-107 | EP-107A | 10/11/99 | 0-1 ft. | 69 | 15 | 100 | 330 | 1.5 | 150 | 10 U | 140 |
| | EP-107B | 10/11/99 | 1-2 ft. | 22 | 10 U | 92 | 30 | 1.3 | 43 | 10 U | 52 |
| | EP-107C | 10/11/99 | 2-3 ft. | 10 U | 10 U | 80 | U 28 | 1.4 | 51 | 10 U | 13 |
| | EP-107D | 10/11/99 | 3-4 ft. | 10 U | 12 | 80 | U 41 | 1.7 | 80 | 10 U | 34 |
| | EP-107E | 10/11/99 | 4-5 ft. | 31 | 29 | 80 | U 710 | 1.8 | 500 | 10 U | 310 |
| | EP-107F | 10/11/99 | 15-17 ft. | 77 | 13 | 80 | U 39 | 1.9 | 67 | 10 U | 55 |
| | EP-107F2 | 10/11/99 | 15-17 ft. | 63 | 12 | 80 | U 35 | 1.9 | 85 | 10 U | 100 |
| | EP-107G | 10/11/99 | 20-22 ft. | 10 U | 10 U | 80 | U 25 | 1.3 | 54 | 10 U | 18 |
| | EP-107H | 10/11/99 | 25-27 ft. | 10 U | 10 U | 80 | U 81 | 1.2 | 71 | 10 U | 28 |
| | EP-107I | 10/11/99 | 30-32 ft. | 10 U | 10 U | 80 | U 20 | U 1.1 | 68 | 10 U | 18 |
| | EP-107J | 10/11/99 | 35-37 ft. | 11 | 10 U | 80 | U 20 | U 2.1 | 49 | 10 U | 42 |
| | EP-107K | 10/11/99 | 40-42 ft. | 14 | 10 U | 80 | U 20 | U 2.5 | 32 | 10 U | 30 |
| | EP-107K2 | 10/11/99 | 40-42 ft. | 17 | 14 | 80 | U 37 | 2.7 | 37 | 10 U | 42 |
| | EP-107L | 10/11/99 | 45-47 ft. | 10 U | 11 U | 80 | U 20 | U 2.4 | 44 | 10 U | 43 |
| | EP-107M | 10/11/99 | 50-52 ft. | 10 U | 10 U | 80 | U 23 | 1.8 | 41 | 10 U | 40 |
| | EP-107N | 10/12/99 | 55-57 ft. | 10 U | 10 U | 80 | U 33 | 1.4 | 44 | 10 U | 11 |
| | EP-107O | 10/12/99 | 60-62 ft. | 10 U | 10 U | 80 | U 28 | 1.3 | 26 | 10 U | 31 |
| | EP-107P | 10/12/99 | 65-67 ft. | 10 U | 11 U | 80 | U 45 | 1.9 | 40 | 10 U | 24 |

**Table D-7. Summary of Soil Analytical Results
Investigation Area 9 (Ponds 1, 5 and 6)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|---------|----------|--------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH9-5-1 | BH9-5-1A | 2/9/00 | 0-1 ft. | 1800 | 120 | 80 | U | 6900 | 54000 | 7900 | 34 |
| | BH9-5-1B | 2/9/00 | 1-2 ft. | 190 | 10 | U | 80 | 720 | 44000 | 890 | 10 |
| | BH9-5-1C | 2/9/00 | 2-3 ft. | 210 | 10 | U | 80 | 280 | 45000 | 1400 | 10 |
| | BH9-5-1D | 2/9/00 | 3-4 ft. | 650 | 35 | | 82 | 1100 | 49000 | 7500 | 17 |
| | BH9-5-1E | 2/9/00 | 4-5 ft. | 270 | 10 | U | 80 | 250 | 49000 | 1200 | 10 |
| | BH9-5-1F | 2/9/00 | 5-6 ft. | 91 | 10 | U | 80 | 95 | 47000 | 320 | 10 |
| | BH9-5-1G | 2/9/00 | 10-11 ft. | 20 | 11 | | 80 | 580 | 23000 | 510 | 10 |
| BH9-5-2 | BH9-5-2A | 2/9/00 | 0-1 ft. | 1000 | | 390 | 80 | U | 27000 | 52000 | 12000 |
| | BH9-5-2B | 2/9/00 | 1-2 ft. | 1400 | 130 | | 80 | U | 12000 | 53000 | 9600 |
| | BH9-5-2C | 2/9/00 | 2-3 ft. | 1200 | 74 | | 80 | U | 3900 | 47000 | 6000 |
| | BH9-5-2D | 2/9/00 | 3-4 ft. | 560 | 33 | | 120 | 1800 | 48000 | 3600 | 10 |
| | BH9-5-2E | 2/9/00 | 4-5 ft. | 1200 | 54 | | 88 | 3800 | 49000 | 6200 | 20 |
| | BH9-5-2F | 2/9/00 | 5-6 ft. | 220 | 25 | | 80 | U | 1600 | 43000 | 2600 |
| | BH9-5-2G | 2/9/00 | 7-8 ft. | 22 | 10 | U | 80 | U | 190 | 27000 | 190 |
| BH9-5-3 | BH9-5-3A | 2/9/00 | 0-1 ft. | 1600 | 700 | 80 | U | 30000 | 56000 | 18000 | 120 |
| | BH9-5-3B | 2/9/00 | 1-2 ft. | 28 | 22 | 80 | U | 770 | 26000 | 710 | 10 |
| | BH9-5-3C | 2/9/00 | 2-3 ft. | 32 | 30 | 94 | 1400 | | 26000 | 1200 | 10 |
| | BH9-5-3D | 2/9/00 | 3-4 ft. | 24 | 23 | | 80 | U | 970 | 26000 | 900 |
| BH9-5-4 | BH9-5-4A | 2/9/00 | 0-1 ft. | 1800 | 790 | 110 | | 45000 | 62000 | 23000 | 160 |
| | BH9-5-4B | 2/9/00 | 1-2 ft. | 1200 | 550 | 80 | U | 31000 | 55000 | 17000 | 130 |
| | BH9-5-4C | 2/9/00 | 2-3 ft. | 180 | 54 | 80 | U | 2300 | 46000 | 3100 | 13 |
| | BH9-5-4D | 2/9/00 | 3-4 ft. | 200 | 13 | 80 | U | 420 | 51000 | 3600 | 10 |
| | BH9-5-4E | 2/9/00 | 4-5 ft. | 74 | 11 | | 80 | U | 880 | 44000 | 1300 |
| | BH9-5-4F | 2/9/00 | 5-6 ft. | 43 | 10 | U | 80 | U | 690 | 41000 | 1000 |
| | | | | | | | | | | | |
| BH9-5-5 | BH9-5-5A | 2/9/00 | 0-1 ft. | 4000 | 1300 | 92 | | 57000 | 68000 | 30000 | 180 |
| | BH9-5-5B | 2/9/00 | 1-2 ft. | 1400 | 370 | 80 | U | 20000 | 48000 | 12000 | 42 |
| | BH9-5-5C | 2/9/00 | 2-3 ft. | 750 | 63 | 97 | | 7700 | 42000 | 6700 | 18 |
| | BH9-5-5D | 2/9/00 | 3-4 ft. | 71 | 10 | U | 80 | U | 860 | 29000 | 940 |
| | | | | | | | | | | | |

**Table D-7. Summary Soil Analytical Results
Investigation Area 9 (Ponds 1, 5 and 6)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|---------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH9-5-6 | BH9-5-6A | 2/9/00 | 0-1 ft. | 1500 | 840 | 80 | U | 19000 | 50000 | 12000 | 64 |
| | BH9-5-6B | 2/9/00 | 1-2 ft. | 1700 | 760 | 80 | U | 37000 | 59000 | 20000 | 150 |
| | BH9-5-6C | 2/9/00 | 2-3 ft. | 88 | 44 | 80 | U | 3000 | 18000 | 1900 | 10 |
| | BH9-5-6D | 2/9/00 | 3-4 ft. | 10 | U | 80 | U | 110 | 22000 | 120 | 10 |
| BH9-5-7 | BH9-5-7A | 2/9/00 | 0-1 ft. | 3900 | 1200 | 80 | U | 50000 | 66000 | 31000 | 170 |
| | BH9-5-7B | 2/9/00 | 1-2 ft. | 900 | 300 | 80 | U | 14000 | 43000 | 9700 | 64 |
| | BH9-5-7C | 2/9/00 | 2-3 ft. | 240 | 85 | 130 | 4400 | 16000 | 3700 | 10 | U |
| | BH9-5-7D | 2/9/00 | 3-4 ft. | 27 | 10 | U | 110 | 290 | 13000 | 560 | 10 |
| EP-116 | EP-116A | 11/16/99 | 0-1 ft. | 18000 | J4 | 530 | J4 | 80 | U | 57000 | J4 |
| | EP-116A2 | 11/16/99 | 0-1 ft. | 11000 | J4 | 340 | J4 | 90 | 82000 | J4 | 110000 |
| | EP-116B | 11/16/99 | 1-2 ft. | 9800 | J4 | 360 | J4 | 80 | U | 97000 | J4 |
| | EP-116C | 11/16/99 | 2-2.5 ft. | 9200 | J4 | 360 | J4 | 80 | U | 100000 | 26000 |
| | EP-116D | 11/16/99 | 5-7 ft. | 6800 | J4 | 960 | J4 | 83 | 23000 | J4 | 100000 |
| | EP-116E | 11/16/99 | 10-12 ft. | 5300 | J4 | 1200 | J4 | 80 | U | 33000 | J4 |
| | | | | | | | | | 72000 | 13000 | J4 |
| EP-117 | EP-117A | 11/16/99 | 0-1 ft. | 2300 | J4 | 480 | | 80 | U | 4100 | J4 |
| | EP-117B | 11/16/99 | 1-2 ft. | 1700 | J4 | 300 | | 80 | U | 2500 | J4 |
| | EP-117C | 11/16/99 | 2-3 ft. | 2300 | J4 | 460 | | 80 | U | 5400 | J4 |
| | EP-117D | 11/16/99 | 3-4 ft. | 1200 | J4 | 230 | | 80 | U | 2900 | J4 |
| | EP-117E | 11/16/99 | 5-6 ft. | 140 | J4 | 10 | J4 | 80 | U | 160 | J4 |
| | EP-117F | 11/16/99 | 10-12 ft. | 210 | J4 | 10 | J4 | 80 | U | 140 | J4 |
| | EP-117F2 | 11/16/99 | 10-12 ft. | 500 | J4 | 66 | J4 | 80 | U | 1100 | J4 |

**Table D-8. Summary of Soil Analytical Results
Investigation Area 10 (Plant Entrance Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|----------|---------------|--------------------|--------------------|---------------------|-------------------|-----------------|-----------------|---------------------|-----------------|
| EP-110 | EP-110A | 10/18/99 | 0-1 ft. | 490 | 100 | 80 | 11000 | 4 | 3000 | 14 | 2800 |
| | EP-110B | 10/18/99 | 1-2 ft. | 190 | 67 | 80 | 2300 | 2.9 | 3100 | 17 | 2400 |
| | EP-110C | 10/18/99 | 2-3 ft. | 72 | 25 | 80 | 110 | 2.2 | 210 | 10 U | 170 |
| | EP-110D | 10/18/99 | 3-4 ft. | 71 | 10 | 80 | 30 | 2.5 | 60 | 10 U | 46 |
| | EP-110E | 10/18/99 | 4-5 ft. | 51 | 10 | 80 | 25 | 2.5 | 43 | 10 U | 35 |
| | EP-110F | 10/18/99 | 7-8 ft. | 11 | 10 | 80 | 91 | 2.5 | 84 | 10 U | 120 |
| | EP-110F2 | 10/18/99 | 7-8 ft. | 12 | 10 | 80 | 62 | 2.5 | 68 | 10 U | 89 |

Table D-9. Summary of Soil Analytical Results
Investigation Area 11 (Arroyos East of I-10)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) | |
|---------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|----|
| BH11-2 | BH11-2F | 08/04/99 | 10-12 ft. | 17 | 10 | U | 80 | U | 2.4 | 10 | U | |
| | BH11-2G | 08/04/99 | 15-17 ft. | 10 | U | 10 | U | 20 | 1.5 | 10 | U | |
| | BH11-2H | 08/04/99 | 20-22 ft. | 10 | U | 80 | U | 27 | 2.1 | 10 | U | |
| | BH11-2I | 08/05/99 | 25-27 ft. | 10 | U | 10 | U | 39 | 1.5 | 10 | U | |
| | BH11-2J | 08/05/99 | 30-32 ft. | 10 | U | 10 | U | 20 | 2.4 | 10 | U | |
| | BH11-2K | 08/05/99 | 35-37 ft. | 10 | U | 10 | U | 20 | 1.5 | 10 | U | |
| | BH11-2K2 | 08/05/99 | DUP | 10 | U | 80 | U | 24 | 1.5 | 10 | U | |
| | BH11-2L | 08/05/99 | 40-42 ft. | 10 | U | 10 | U | 20 | 1.8 | 10 | U | |
| BH11-3 | BH11-3F | 08/05/99 | 10-12 ft. | 55 | 17 | 80 | U | 830 | 3.3 | 1000 | 10 | |
| BH11-4 | BH11-4B | 08/05/99 | 1-2 ft. | 46 | 10 | U | 80 | U | 73 | 2.4 | 17 | |
| | BH11-4C | 08/05/99 | 2-3 ft. | 33 | 10 | U | 80 | U | 46 | 3 | 20 | |
| | BH11-4D | 08/05/99 | 3-4 ft. | 10 | U | 10 | U | 80 | 69 | 2.3 | 10 | |
| | BH11-4E | 08/05/99 | 4-5 ft. | 19 | 10 | U | 80 | U | 35 | 2.4 | 11 | |
| | BH11-4F | 08/05/99 | 10-12 ft. | 10 | U | 10 | U | 80 | 20 | 1.2 | 10 | |
| | BH11-4G | 08/05/99 | 15-17 ft. | 10 | U | 10 | U | 80 | U | 2.1 | 10 | |
| SSI11-1 | SSI11-1A | 07/19/99 | 0-1 ft. | 170 | 50 | 160 | U | 2900 | 3.4 | 1500 | 10 | |
| | SSI11-1B | 07/19/99 | 1-2 ft. | 33 | 16 | 80 | U | 740 | 1.7 | 520 | 0 | |
| | SSI11-1C | 07/19/99 | 2-3 ft. | 10 | U | 10 | U | 330 | 1.7 | 290 | 10 | |
| SSI11-2 | SSI11-2A | 07/19/99 | 0-1 ft. | 82 | 25 | 80 | U | 1500 | 2.5 | 1100 | 10 | |
| | SSI11-2B | 07/19/99 | 1-2 ft. | 12 | 10 | U | 80 | U | 170 | 1.9 | 150 | 10 |
| SSI11-3 | SSI11-3A | 07/20/99 | 0-1 ft. | 2200 | 940 | 270 | U | 29000 | 4.4 | 14000 | 92 | |
| | SSI11-3C | 07/20/99 | 2-3 ft. | 1700 | 580 | 620 | U | 18000 | 3.4 | 11000 | 36 | |
| | SSI11-3D | 07/20/99 | 3-4 ft. | 1800 | 570 | 2000 | U | 21000 | 4.4 | 12000 | 17 | |
| | SSI11-3E | 07/20/99 | 4-5 ft. | 430 | 140 | 80 | U | 8000 | 3.1 | 4400 | 14 | |
| SSI11-4 | SSI11-4A | 07/20/99 | | 790 | 300 | 92 | | 11000 | 3.9 | 11000 | 10 | |
| | SSI11-4B | 07/20/99 | | 160 | 70 | 240 | | 2400 | 2.4 | 3100 | 10 | |
| | SSI11-4C | 07/20/99 | | 52 | 21 | 80 | U | 890 | 2.5 | 1200 | 10 | |
| | SSI11-4D | 07/20/99 | | 25 | 20 | 80 | U | 820 | 1.9 | 1100 | 10 | |
| | SSI11-4E | 07/20/99 | | 23 | 11 | 80 | U | 600 | 1.7 | 850 | 10 | |

**Table D-9. Summary of Soil Analytical Results
Investigation Area 11 (Arroyos East of I-10)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|-----------|------------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| SSIA11-5 | SSIA11-5A | 07/20/99 | 0-1 ft. | 20 | U | 10 | U | 140 | 1.4 | 150 | 10 |
| | SSIA11-5A2 | 07/20/99 | DUP | 20 | U | 10 | U | 140 | 1.5 | 150 | 10 |
| | SSIA11-5C | 07/20/99 | 2-3 ft. | 23 | | 10 | U | 80 | 1.7 | 750 | 10 |
| | SSIA11-5E | 07/20/99 | 4-5 ft. | 44 | | 31 | U | 80 | 1.6 | 1200 | 10 |
| SSIA11-6 | SSIA11-6A | 07/20/99 | 0-1 ft. | 480 | | 120 | U | 80 | 2.9 | 2000 | 10 |
| | SSIA11-6B | 07/20/99 | 1-2 ft. | 920 | | 380 | | 290 | 2.8 | 12000 | 29 |
| | SSIA11-6C | 07/20/99 | 2-3 ft. | 4400 | | 350 | | 180 | 3.5 | 2100 | 10 |
| | SSIA11-6D | 07/20/99 | 3-4 ft. | 7300 | | 620 | | 80 | 4.2 | 3100 | 10 |
| | SSIA11-6E | 07/20/99 | 4-5 ft. | 14000 | | 1400 | | 170 | 3.8 | 21000 | 110 |
| SSIA11-7 | SSIA11-7A | 07/20/99 | 0-1 ft. | 2500 | | 250 | | 80 | U | 11000 | 4.2 |
| | SSIA11-7A2 | 07/20/99 | DUP | 2500 | | 150 | | 120 | | 11000 | 3.8 |
| | SSIA11-7B | 07/20/99 | 1-2 ft. | 15000 | | 260 | | 110 | | 6600 | 2.9 |
| | SSIA11-7C | 07/20/99 | 2-3 ft. | 720 | | 180 | | 230 | | 4600 | 2.7 |
| | SSIA11-7D | 07/20/99 | 3-4 ft. | 750 | | 170 | | 130 | | 4800 | 2.6 |
| | SSIA11-7E | 07/20/99 | 4-5 ft. | 2800 | | 240 | | 80 | | 6400 | 3 |
| SSIA11-8 | SSIA11-8A | 07/21/99 | 0-1 ft. | 560 | | 610 | | 230 | | 3400 | 2.8 |
| | SSIA11-8B | 07/21/99 | 1-2 ft. | 880 | | 290 | | 150 | | 5000 | 3 |
| | SSIA11-8C | 07/21/99 | 2-3 ft. | 1700 | | 360 | | 270 | | 10000 | 3.6 |
| | SSIA11-8D | 07/21/99 | 3-4 ft. | 1700 | | 330 | | 170 | | 11000 | 3.6 |
| | SSIA11-8E | 07/21/99 | 4-5 ft. | 890 | | 230 | | 170 | | 7500 | 3.4 |
| SSIA11-9 | SSIA11-9A | 08/04/99 | 0-1 ft. | 160 | | 12 | | 80 | | 980 | 4.4 |
| | SSIA11-9B | 08/04/99 | 1-2 ft. | 23 | | 10 | | 80 | | 140 | 2.1 |
| | SSIA11-9C | 08/04/99 | 3-4 ft. | 10 | | 10 | | U | | 20 | 1.9 |
| SSIA11-10 | SSIA11-10A | 08/14/99 | 0-1 ft. | 65 | | 22 | | 100 | | 640 | 3.4 |
| | SSIA11-10B | 08/14/99 | 1-2 ft. | 42 | | 10 | | 80 | | 270 | 3.2 |
| | SSIA11-10C | 08/14/99 | 2-3 ft. | 17 | | 10 | | 80 | | 20 | 2.7 |
| | SSIA11-10D | 08/14/99 | 3-4 ft. | 11 | | 10 | | U | | 80 | 1.9 |
| SSIA11-11 | SSIA11-11A | 08/14/99 | 0-1 ft. | | | | | | | 450 | 10 |
| | SSIA11-11B | 08/14/99 | 1-2 ft. | | | | | | | 180 | 10 |
| | SSIA11-11C | 08/14/99 | 2-3 ft. | | | | | | | 20 | 10 |
| | SSIA11-11D | 08/14/99 | 3-4 ft. | | | | | | | U | 10 |
| | SSIA11-11E | 08/14/99 | 4-5 ft. | | | | | | | 20 | 10 |

Table D-9. Summary of Soil Analytical Results
Investigation Area 11 (Arroyos East of I-10)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) | |
|-----------|-------------|------------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|------|
| SSIA11-14 | SSIA11-14B | 08/06/99 | 1-2 ft. | 17 | 13 | 80 | U | 52 | 2 | 10 | U | |
| | SSIA11-14C | 08/06/99 | 2-3 ft. | 23 | 10 | U | 80 | 29 | 2.7 | 10 | U | |
| | SSIA11-14D | 08/06/99 | 3-4 ft. | 13 | 10 | U | 80 | 20 | 2.5 | 10 | U | |
| | SSIA11-14E | 08/06/99 | 4-5 ft. | 17 | 10 | U | 80 | 14 | 2.6 | 10 | U | |
| SSIA11-15 | SSIA11-15A | 08/06/99 | 0-1 ft. | 51 | 10 | U | 80 | 210 | 2.9 | 130 | 22 | |
| | SSIA11-15B | 08/06/99 | 1-2 ft. | 30 | 10 | U | 80 | 300 | 3.1 | 380 | 10 | |
| | SSIA11-15C | 08/06/99 | 2-3 ft. | 44 | 10 | U | 80 | 350 | 4.3 | 950 | 10 | |
| | SSIA11-15D | 08/06/99 | 3-4 ft. | 84 | 14 | U | 80 | 480 | 2.6 | 430 | 10 | |
| | SSIA11-15E | 08/06/99 | 4-5 ft. | 13 | 10 | U | 80 | 64 | 2 | 35 | 10 | |
| SSIA11-16 | SSIA11-16B | 08/06/99 | 1-2 ft. | 21 | 10 | U | 80 | U | 63 | 2.1 | 34 | |
| | SSIA11-16C | 08/06/99 | 2-3 ft. | 19 | 10 | U | 80 | U | 20 | U | 10 | |
| | SSIA11-16D | 08/06/99 | 3-4 ft. | 20 | 10 | U | 80 | U | 33 | 2.5 | 10 | |
| | SSIA11-16E | 08/06/99 | 4-5 ft. | 10 | U | 10 | U | U | 20 | U | 10 | |
| | SSIA11-16E2 | 08/06/99 | DUP | 10 | U | 10 | U | 80 | U | 41 | 2 | |
| SSIA11-17 | SSIA11-17A | 11/04/99 | 0-1 ft. | 110 | 15 | U | 80 | U | 1000 | 31000 | 920 | |
| | SSIA11-18 | SSIA11-18A | 11/05/99 | 0-1 ft. | 136 | 38 | U | 20 | U | 1276 | 26020 | 1041 |
| EP-93 | EP-93A | 07/21/99 | 0-1 ft. | 27 | 10 | U | 80 | U | 66 | 26000 | 93 | |
| | EP-93B | 07/21/99 | 1-2 ft. | 33 | 10 | U | 180 | U | 97 | 33000 | 74 | |
| | EP-93D | 07/21/99 | 3-4 ft. | 770 | 210 | U | 80 | U | 5900 | 29000 | 100 | |
| | EP-93E | 07/21/99 | 4-5 ft. | 7100 | 14000 | U | 300 | U | 14000 | 80000 | 54000 | |
| | EP-93F | 07/21/99 | 10-12 ft. | 110 | 270 | U | 80 | U | 1600 | 22000 | 5600 | |
| | EP-93G | 07/21/99 | 15-17 ft. | 360 | 88 | U | 240 | U | 3700 | 43000 | 3900 | |
| | EP-93H | 07/21/99 | 20-22 ft. | 160 | 35 | U | 170 | U | 840 | 27000 | 1600 | |
| | EP-93I | 07/21/99 | 25-27 ft. | 20 | 10 | U | 80 | U | 39 | 22000 | 38 | |
| | EP-93J | 07/21/99 | 30-32 ft. | 20 | U | 10 | U | 140 | 20 | U | 23000 | |
| | EP-93L | 07/21/99 | 30-32 ft. | 20 | U | 13 | U | 140 | 20 | U | 24000 | |
| | EP-93M | 07/21/99 | 30-32 ft. | 20 | U | 10 | U | 80 | U | 20 | U | |
| | EP-93N | 07/21/99 | 35-37 ft. | 20 | U | 10 | U | 80 | U | 20 | U | |
| | EP-93K | 07/21/99 | 40-42 ft. | 20 | U | 10 | U | 80 | U | 57 | 24000 | |
| | EP-93L | 07/21/99 | 2-3 ft. | 27 | 10 | U | 80 | U | 130 | 26000 | 170 | |
| | EP-93M | 07/21/99 | 45-47 ft. | 10 | U | 10 | U | 80 | U | 20 | U | |
| | EP-93N | 07/21/99 | 50-52 ft. | 10 | U | 10 | U | 80 | U | 21 | U | |

Table D-9. Summary of Soil Analytical Results
Investigation Area 11 (Arroyos East of I-10)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) | | |
|---------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|----------|------|
| EP-94 | EP-94A | 07/26/99 | 0-1 ft. | 760 J4 | 560 | 80 U | 4800 | 26000 | 5600 | 59 | 3500 J4 | | |
| | EP-94A2 | 07/26/99 | 0-1 ft. | 1300 J4 | 700 | 80 U | 6700 | 33000 | 8000 | 61 | 5200 J4 | | |
| | EP-94B | 07/26/99 | 1-2 ft. | 990 J4 | 180 | 80 U | 3500 | 27000 | 8000 | 91 | 2400 J4 | | |
| | EP-94C | 07/26/99 | 2-3 ft. | 620 J4 | 180 | 93 | 8900 | 36000 | 5200 | 35 | 3300 J4 | | |
| | EP-94E | 07/26/99 | 4-5 ft. | 680 J4 | 170 | 80 U | 150000 | 65000 | 3400 | 34 | 2900 J4 | | |
| | EP-94E | 07/26/99 | | 459 | 152 | 28 | 84860 | 77000 | 4368 | 14 | 3490 | | |
| | EP-94F | 07/26/99 | 10-12 ft. | 36 J4 | 17 | 80 U | 1900 | 15000 | 580 | 10 U | 370 J4 | | |
| | EP-94F | 07/26/99 | | 65 | 12 | 22 | 1458 | 9000 | 420 | 10 U | 408 | | |
| | EP-94H | 07/26/99 | 20-22 ft. | 130 J4 | 85 | 80 U | 2000 | 22000 | 1200 | 10 U | 990 J4 | | |
| | EP-94I | 07/26/99 | 25-27 ft. | 10 UJ4 | 10 | U | 80 | 22000 | 40 | 10 U | 33 J4 | | |
| EP-95 | EP-94J | 07/26/99 | 30-32 ft. | 10 UJ4 | 10 | U | 80 | 88 | 21000 | 10 U | 47 J4 | | |
| | EP-94K | 07/26/99 | 35-37 ft. | 27 J4 | 10 | U | 80 | 54 | 32000 | 40 | 10 U | 33 J4 | |
| | EP-94L | 07/26/99 | 40-42 ft. | 10 UJ4 | 10 | U | 80 | 72 | 12000 | 10 U | 12 | 20 J4 | |
| | EP-94M | 07/26/99 | 45-47 ft. | 10 UJ4 | 10 | U | 80 | 26 | 12000 | 10 U | 10 | 10 U,UJ4 | |
| | EP-94N | 07/26/99 | 50-52 ft. | 10 UJ4 | 10 | U | 80 | 150 | 11000 | 10 U | 10 | 29 J4 | |
| | EP-94O | 07/26/99 | 55-57 ft. | 10 UJ4 | 10 | U | 80 | 49 | 18000 | 10 U | 10 | 12 J4 | |
| | EP-95A | 07/28/99 | 0 ft. | 10 U | 10 | U | 80 | 230 | 20000 | 190 | 10 U | 140 | |
| | EP-95B | 07/28/99 | 1 ft. | 10 U | 10 | U | 80 | 75 | 22000 | 120 | 10 U | 94 | |
| | EP-95C | 07/28/99 | 2 ft. | 13 | 10 | U | 80 | 160 | 22000 | 150 | 10 U | 110 | |
| | EP-95D | 07/28/99 | 3 ft. | 10 U | 10 | U | 80 | 20 | U | 16000 | 21 | 10 U | 24 |
| EP-95 | EP-95D2 | 07/28/99 | 3 ft. | 10 U | 10 | U | 80 | 20 | U | 15000 | 30 | 10 U | 30 |
| | EP-95E | 07/28/99 | 4 ft. | 10 U | 10 | U | 80 | 50 | 14000 | 10 U | 10 | 22 | |
| | EP-95RA | 10/18/99 | 0-1 ft. | 26 | 10 | U | 80 | 290 | 23000 | 250 | 10 U | 260 | |
| | EP-95RB | 10/18/99 | 1-2 ft. | 10 U | 10 | U | 80 | 79 | 20000 | 130 | 10 U | 98 | |
| | EP-95RC | 10/18/99 | 2-3 ft. | 10 U | 10 | U | 80 | 20 | U | 22000 | 68 | 10 U | 50 |
| | EP-95RD | 10/18/99 | 3-4 ft. | 10 U | 10 | U | 80 | 20 | U | 18000 | 87 | 10 U | 25 |
| | EP-95RE | 10/18/99 | 4-5 ft. | 10 U | 10 | U | 80 | 94 | 19000 | 110 | 10 U | 61 | |
| | EP-95RF | 10/18/99 | 10-12 ft. | 10 U | 10 | U | 80 | 20 | U | 13000 | 48 | 10 U | 10 U |
| | EP-95RF2 | 10/18/99 | 10-12 ft. | 10 U | 10 | U | 80 | 31 | 14000 | 50 | 10 U | 29 | |
| | EP-95RG | 10/18/99 | 15-17 ft. | 10 U | 10 | U | 80 | 20 | U | 11000 | 40 | 10 U | 10 U |
| | EP-95RH | 10/18/99 | 20-22 ft. | 10 U | 10 | U | 80 | 21 | 5700 | 39 | 10 U | 10 U | |
| | EP-95RI | 10/18/99 | 25-27 ft. | 16 | 10 | U | 80 | 20 | U | 24000 | 39 | 10 U | 43 |
| EP-95RK | EP-95RJ | 10/20/99 | 30-32 ft. | 10 U | 10 | U | 80 | 20 | U | 18000 | 30 | 10 U | 35 |
| | EP-95RK | 10/20/99 | 35-37 ft. | 10 U | 10 | U | 80 | 20 | U | 21000 | 39 | 10 U | 15 |

**Table D-9. Summary of Soil Analytical Results
Investigation Area 11 (Arroyos East of I-10)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|-------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| EP-96 | EP-96A | 07/20/99 | 0-1 ft. | 500 | 180 | 80 | U | 1900 | 23000 | 5100 | 61 |
| | EP-96B | 07/20/99 | 1-2 ft. | 27 | 14 | 80 | U | 110 | 21000 | 160 | 10 |
| | EP-96C | 07/20/99 | 2-3 ft. | 42 | 10 | U | 80 | 110 | 35000 | 90 | J4 |
| | EP-96D | 07/20/99 | 3-4 ft. | 32 | 10 | U | 80 | U | 33000 | 150 | 10 |
| | EP-96E | 07/20/99 | 4-5 ft. | 20 | U | 10 | U | 100 | U | 15000 | 49 |
| | EP-96F | 07/20/99 | 10-12 ft. | 20 | U | 10 | U | 130 | U | 20000 | 59 |
| | EP-96G | 07/20/99 | 15-17 ft. | 20 | U | 10 | U | 80 | U | 20000 | 49 |
| | EP-96H | 07/20/99 | 20-22 ft. | 20 | U | 10 | U | 80 | U | 27000 | 31 |
| | EP-96I | 07/20/99 | 25-27 ft. | 20 | U | 10 | U | 80 | U | 24000 | 50 |
| | EP-96J | 07/20/99 | 30-32 ft. | 25 | 10 | U | 84 | 20 | U | 27000 | 11 |
| | EP-96J2 | 07/20/99 | 30-32 ft. | 20 | U | 10 | U | 80 | U | 27000 | 41 |
| | EP-96K | 07/20/99 | 35-37 ft. | 20 | U | 10 | U | 80 | U | 23000 | 49 |
| | EP-96L | 07/20/99 | 40-42 ft. | 20 | U | 10 | U | 80 | U | 23000 | 54 |
| | EP-96M | 07/20/99 | 45-47 ft. | 20 | U | 10 | U | 80 | U | 20000 | 46 |
| | EP-96N | 07/20/99 | 50-52 ft. | 20 | U | 10 | U | 188 | U | 20000 | 49 |
| | EP-96N2 | 07/20/99 | 50-52 ft. | 20 | U | 10 | U | 160 | U | 19000 | 51 |
| | EP-96O | 07/20/99 | 55-57 ft. | 31 | 10 | U | 80 | U | U | 28000 | 37 |
| | EP-96P | 07/20/99 | 60-62 ft. | 20 | U | 10 | U | 80 | U | 21000 | 27 |
| EP-97 | EP-97A | 08/04/99 | 0-1 ft. | 64 | 19 | 80 | U | 690 | 33000 | 340 | 10 |
| | EP-97A2 | 08/04/99 | 0-1 ft. | 62 | 10 | U | 80 | U | 730 | 33000 | 380 |
| | EP-97B | 08/04/99 | 1-2 ft. | 46 | 20 | 80 | U | 640 | 32000 | 340 | 10 |
| | EP-97C | 08/04/99 | 2-3 ft. | 71 | 16 | 80 | U | 800 | 30000 | 500 | 10 |
| EP-98 | EP-98A | 08/06/99 | 0-1 ft. | 41 | 12 | 80 | U | 210 | J4 | 25000 | 250 |
| | EP-98A2 | 08/06/99 | 0-1 ft. | 60 | 11 | 80 | U | 360 | J4 | 26000 | 320 |
| | EP-98B | 08/06/99 | 1-2 ft. | 10 | U | 10 | U | 44 | J4 | 20000 | 10 |
| | EP-98C | 08/06/99 | 1-3 ft. | 10 | U | 10 | U | 80 | U | 10000 | 37 |
| | EP-98D | 08/06/99 | 3-4 ft. | 10 | U | 10 | U | 80 | U | 20, UJ4 | 8500 |
| | EP-98E | 08/06/99 | 4-5 ft. | 10 | U | 10 | U | 80 | U | 89 | J4 |
| | EP-98F | 08/06/99 | 10-12 ft. | 10 | U | 10 | U | 80 | U | 41 | J4 |
| | EP-98G | 08/06/99 | 15-17 ft. | 10 | U | 10 | U | 80 | U | 20, UJ4 | 13000 |
| | EP-98H | 08/06/99 | 20-22 ft. | 10 | U | 10 | U | 80 | U | 20, UJ4 | 14000 |

Table D-10. Summary of Soil Analytical Results
Investigation Area 12 (Ephemeral Pond and Pond Sediment Storage Area)

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|---------|---------------|--------------------|--------------------|---------------------|-------------------|-----------------|-----------------|---------------------|-----------------|
| BH12-1 | BH12-1A | 11/3/99 | 0-1 ft. | 490 | 300 | 80 | U | 4300 | 4.2 | 2700 | 24 |
| | BH12-1B | 11/3/99 | 3-4 ft. | 10 | U | 80 | U | 99 | 2.2 | 140 | 10 |
| | BH12-1C | 11/3/99 | 4-5 ft. | 10 | U | 80 | U | 120 | 1.8 | 150 | 10 |
| | BH12-1D | 11/3/99 | 10-12 ft. | 10 | U | 80 | U | 20 | U | 10 | U |
| | BH12-1E | 11/3/99 | 15-16 ft. | 10 | U | 80 | U | 27 | 1.1 | 10 | U |
| | BH12-1E2 | 11/3/99 | 15-16 ft. | 10 | U | 80 | U | 20 | U | 10 | U |
| BH12-2 | BH12-2A | 11/3/99 | 6-7 ft. | 10 | U | 10 | U | 80 | U | 93 | 1.5 |
| | BH12-2B | 11/3/99 | 10-12 ft. | 67 | 10 | 80 | U | 570 | 2.4 | 610 | 10 |
| BH12-3 | BH12-3A | 11/3/99 | 6-7 ft. | 10 | U | 10 | U | 80 | U | 170 | 10 |
| | BH12-3B | 11/3/99 | 10-12 ft. | 10 | U | 80 | U | 26 | U | 10 | U |
| | BH12-3C | 11/3/99 | 15-17 ft. | 10 | U | 80 | U | 20 | U | 10 | U |
| BH12-4 | BH12-4A | 11/3/99 | 0-1 ft. | 3100 | 3100 | 230 | | 17000 | 3.4 | 22000 | 220 |
| | BH12-4B | 11/3/99 | 1-2 ft. | 3400 | 3400 | 240 | | 18000 | 3.7 | 23000 | 220 |
| | BH12-4C | 11/3/99 | 2-3 ft. | 1200 | 1700 | 160 | | 7700 | 3 | 14000 | 110 |
| | BH12-4D | 11/3/99 | 3-4 ft. | 10 | U | 10 | U | 64 | J4 | 2.3 | 110 |
| | BH12-4D2 | 11/3/99 | 10-12 ft. | 15 | U | 10 | U | 80 | U | 20 | J4 |
| | BH12-4E | 11/3/99 | 15-17 ft. | 10 | U | 10 | U | 80 | U | 20 | U,U4 |
| BH12-5 | BH12-5A | 11/4/99 | 8-10 ft. | 10 | U | 15 | U | 80 | U | 45 | 1.5 |
| | BH12-6A | 11/4/99 | 12-13 ft. | 120 | 10 | U | 80 | U | 37 | 2.3 | 21 |
| BH12-6 | BH12-6A | 11/4/99 | 12-13 ft. | 120 | 10 | U | 80 | U | 37 | 2.3 | 21 |
| | BH12-7A | 11/4/99 | 6-8 ft. | 10 | U | 10 | U | 82 | 32 | 1.3 | 33 |
| | BH12-7B | 11/4/99 | 10-12 ft. | 33 | 38 | 80 | U | 94 | 1.6 | 52 | 12 |
| BH12-7 | BH12-7B2 | 11/4/99 | 10-12 ft. | 33 | 51 | 80 | U | 61 | 1.6 | 41 | 18 |
| | BH12-8A | 11/4/99 | 2-3 ft. | 23 | 10 | U | 80 | U | 64 | 1.6 | 130 |
| | BH12-8B | 11/4/99 | 3-4 ft. | 10 | U | 10 | U | 80 | U | 91 | 1.7 |
| | BH12-8C | 11/4/99 | 4-5 ft. | 25 | 10 | U | 80 | U | 120 | 1.7 | 130 |
| | BH12-9B | 11/4/99 | 8-9 ft. | 76 | 10 | U | 98 | 48 | 2.7 | 10 | U |

**Table D-10. Summary of Soil Analytical Results
Investigation Area 12 (Ephemeral Pond and Pond Sediment Storage Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|----------|----------|-----------|-------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH12-9 | BH12-9A | 11/4/99 | 4-5 ft. | 52 | 10 | U | 80 | U | 42 | 1.9 | 10 |
| | BH12-9A2 | 11/4/99 | 4-5 ft. | 59 | 10 | U | 80 | U | 20 | U | 10 |
| EP-108 | EP-108A | 10/14/99 | 10-12 ft. | 19 | 10 | U | 80 | U | 68 | 1.6 | 41 |
| | EP-108B | 10/14/99 | 15-16 ft. | 82 | 10 | U | 80 | U | 100 | 2.9 | 67 |
| EP-109 | EP-109XA | 7/28/99 | 5-5.5 ft. | 380 | 50 | 80 | U | 2500 | 8.9 | 2900 | 10 |
| | EP-109XB | 7/28/99 | 10-11.5 ft. | 180 | 18 | 80 | U | 940 | 2.3 | 660 | 10 |
| | EP-109A | 10/15/99 | 0-1 ft. | 380 | 59 | 80 | U | 2700 | 7.7 | 2000 | 13 |
| | EP-109B | 10/15/99 | 1-2 ft. | 320 | 36 | 80 | U | 1900 | 8.8 | 1900 | 10 |
| | EP-109C | 10/15/99 | 2-3 ft. | 440 | 25 | 80 | U | 2800 | 11 | 3600 | 10 |
| | EP-109D | 10/15/99 | 3-4 ft. | 680 | 30 | 90 | | 3700 | 14 | 5000 | 10 |
| | EP-109E | 10/15/99 | 4-5 ft. | 460 | 32 | 94 | | 3000 | 11 | 4000 | 10 |
| | EP-109F | 10/15/99 | 10-12 ft. | 14 | 10 | U | 80 | 230 | 2.1 | 310 | 10 |
| | EP-109G | 10/15/99 | 15-17 ft. | 10 | U | 10 | U | 80 | 20 | U | 1.9 |
| | EP-109H | 10/15/99 | 20-22 ft. | 10 | U | 10 | U | 91 | 20 | U | 1.5 |
| EP-109H2 | 10/15/99 | 20-22 ft. | 10 | U | 10 | U | 80 | U | 39 | 1.4 | 38 |

**Table D-11. Summary of Soil Analytical Results
Investigation Area 13 (Sample Mill Area)**

| Site | Sample # | Date | Depth (ft.) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|---------|-------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| EP-101 | EP-101A | 9/29/99 | 0-1 ft. | 940 | 690 | 80 | U | 3000 | 1.8 | 11000 | 110 |
| | EP-101B | 9/29/99 | 1-2 ft. | 7700 | 2100 | 80 | U | 16000 | 3.2 | 42000 | 180 |
| | EP-101C | 9/29/99 | 3-4 ft. | 5200 | 1300 | 80 | U | 5600 | 3.8 | 21000 | 170 |
| | EP-101C | 9/29/99 | 3-4 ft. | 3350 | 1000 | 16 | | 3430 | 3.12 | 21800 | 126 |
| | EP-101D | 9/29/99 | 4-5 ft. | 1100 | 8000 | 80 | U | 4700 | 3 | 12000 | 150 |
| | EP-101E | 9/29/99 | 15-17 ft. | 16 | 560 | 80 | U | 20 | 1.5 | 140 | 17 |
| | EP-101F | 9/29/99 | 20-22 ft. | 23 | 190 | 80 | U | 20 | 2.3 | 69 | 12 |
| | EP-101G | 9/29/99 | 25-27 ft. | 84 | 670 | 80 | U | 50 | 2.7 | 87 | 16 |
| | EP-101H | 9/29/99 | 30-32 ft. | 71 | 10 | U | 80 | U | 2.6 | 54 | 10 |
| | EP-101H2 | 9/29/99 | 30-32 ft. | 64 | 10 | U | 80 | U | 41 | 2.6 | 54 |
| | EP-101I | 9/29/99 | 35-37 ft. | 65 | 10 | U | 100 | U | 20 | 45 | 10 |
| | EP-101J | 9/29/99 | 40-42 ft. | 34 | 10 | U | 80 | U | 20 | 60 | 10 |
| | EP-101K | 9/29/99 | 45-47 ft. | 33 | 10 | U | 80 | U | 28 | 2.1 | 53 |
| | EP-101L | 9/29/99 | 50-52 ft. | 190 | 10 | U | 80 | U | 55 | 3.9 | 19 |
| | EP-101L2 | 9/29/99 | 50-52 ft. | 160 | 10 | U | 80 | U | 34 | 3.8 | 23 |
| | EP-101M | 9/29/99 | | 91 | 10 | U | 80 | U | 66 | 3.3 | 57 |
| EP-102 | EP-102A | 9/30/99 | 0-1 ft. | 4100 | 3500 | 80 | U | 3900 | 2.3 | 27000 | 380 |
| | EP-102B | 9/30/99 | 1-2 ft. | 6300 | 7100 | 80 | U | 8100 | 3.1 | 34000 | 390 |
| | EP-102C | 9/30/99 | 2-3 ft. | 7700 | 6000 | 80 | U | 8900 | 3.1 | 41000 | 340 |
| | EP-102D | 9/30/99 | 3-4 ft. | 8000 | 3900 | 80 | U | 11000 | 3.4 | 40000 | 380 |
| | EP-102E | 9/30/99 | 4-5 ft. | 950 | 11000 | 80 | U | 6000 | 1.4 | 8700 | 120 |
| | EP-102F | 9/30/99 | 10-12 ft. | 130 | 2100 | 80 | U | 1100 | 1.9 | 200 | 20 |
| | EP-102G | 9/30/99 | 15-17 ft. | 48 | 940 | 80 | U | 37 | 1.7 | 130 | 10 |
| | EP-102G2 | 9/30/99 | 15-17 ft. | 34 | 720 | 80 | U | 20 | 1.7 | 88 | 10 |
| | EP-102G2 | 9/30/99 | 15-17 ft. | 18 | 614 | 18 | | 16 | 1.16 | 20 | 5 |
| | EP-102H | 9/30/99 | 20-22 ft. | 56 | 1500 | 80 | U | 20 | 2.9 | 57 | 10 |
| | EP-102I | 9/30/99 | 25-27 ft. | 52 | 190 | 80 | U | 20 | 3 | 63 | 10 |

**Table D-11. Summary of Soil Analytical Results
Investigation Area 13 (Sample Mill Area)**

| Site | Sample # | Date | Depth (ft.) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|----------|--------------------------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| | EP-102J | 9/30/99 | 30-32 ft. | 50 | 340 | 80 | U | 20 | U | 3.2 | 54 |
| | EP-102K | 9/30/99 | 35-37 ft. | 36 | 28 | 80 | U | 22 | U | 2.3 | 77 |
| | EP-102L | 9/30/99 | 40-42 ft. | 31 | 14 | 80 | U | 34 | U | 2.7 | 57 |
| | EP-102M | 9/30/99 | 45-47 ft. | 38 | 15 | 80 | U | 20 | U | 2.5 | 61 |
| | EP-102N | 9/30/99 | 50-52 ft. | 27 | 10 | U | 80 | U | 20 | U | 2.4 |
| | EP-102N2 | 9/30/99 | 50-52 ft. | 35 | 10 | U | 80 | U | 20 | U | 2.4 |
| | EP-102O | 9/30/99 | 55-57 ft. | 35 | 10 | U | 87 | U | 20 | U | 2.8 |
| | EP-102P | 10/4/99 | 60-62 ft. sample for analysis. | | | | | | | | |
| | EP-102Q | 10/4/99 | 70-72 ft. | 10 | U | 10 | U | 80 | U | 20 | U |
| | | | | | | | | | | 34 | 10 |
| | | | | | | | | | | | 42 |
| EP-118 | EP-118A | 11/17/99 | 0-1 ft. | 1300 | 340 | 80 | U | 17000 | U | 43000 | 10000 |
| | EP-118A2 | 11/17/99 | 0-1 ft. | 1000 | 240 | 80 | U | 12000 | U | 39000 | 7400 |
| | EP-118B | 11/17/99 | 1-2 ft. | 720 | 200 | 80 | U | 8400 | U | 34000 | 5900 |
| | EP-118C | 11/17/99 | 2-3 ft. | 120 | 56 | 80 | U | 1600 | U | 19000 | 1700 |
| | EP-118D | 11/17/99 | 3-4 ft. | 61 | 29 | 80 | U | 860 | U | 17000 | 950 |
| | EP-118E | 11/17/99 | 4-5 ft. | 75 | 43 | 80 | U | 1100 | U | 17000 | 1300 |
| | EP-118F | 11/17/99 | 15-15.5 ft. | 54 | 20 | 80 | U | 560 | U | 16000 | 630 |
| | | | | | | | | | | | 10 |
| | | | | | | | | | | | UJ4 |
| | | | | | | | | | | | 450 |
| BH13-1 | BH13-1A | 10/21/99 | 0-1 ft. | 67 | 46 | 80 | U | 1500 | U | 1.9 | 860 |
| | BH13-1C | 10/21/99 | 19-21 ft. | 45 | 3100 | 80 | U | 25 | U | 1.8 | 10 |
| | BH13-1D | 10/21/99 | 25-27 ft. | 65 | 22 | 80 | U | 20 | U | 2.4 | 10 |
| | BH13-1E | 10/21/99 | 30-32 ft. | 76 | 10 | U | 80 | U | 24 | U | 10 |
| | BH13-1E2 | 10/21/99 | 30-32 ft. | 65 | 10 | U | 80 | U | 20 | U | 2.8 |
| | BH13-1F | 10/21/99 | 35-37 ft. | 39 | 10 | U | 80 | U | 20 | U | 2.8 |
| | BH13-1G | 10/21/99 | 40-42 ft. | 54 | 10 | U | 86 | U | 20 | U | 10 |
| | BH13-1H | 10/21/99 | 45-47 ft. | 80 | 10 | U | 80 | U | 20 | U | 2.5 |
| | BH13-1I | 10/21/99 | 50-52 ft. | 69 | 10 | U | 80 | U | 20 | U | 2.6 |
| | BH13-1J | 10/21/99 | 55-57 ft. | 1000 | 17 | 80 | U | 22 | U | 2 | 10 |
| | BH13-1K | 10/29/99 | 60-62 ft. | 87 | 10 | U | 80 | U | 20 | U | 2.8 |
| | | | | | | | | | | | 20 |
| | | | | | | | | | | | 10 |
| | | | | | | | | | | | U |
| | | | | | | | | | | | 31 |

**Table D-12. Summary of Soil Analytical Results
Investigation Area 14 (South Terrace Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|----------|-------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BH14-1 | BH14-1A | 11/5/99 | 13.2-15 ft. | 100 | 84 | 80 U | 100 | 1.1 | 31 | 10 U | 210 |
| | BH14-1B | 11/5/99 | 15-17 ft. | 110 | 92 | 80 U | 20 U | 1.3 | 20 | 10 U | 300 |
| | BH14-1C | 11/5/99 | 20-22 ft. | 150 | 70 | 80 U | 56 | 1.8 | 10 U | 10 U | 400 |
| | BH14-1D | 11/5/99 | 25-27 ft. | 36 | 10 U | 80 U | 28 | 1.9 | 21 | 10 U | 34 |
| | BH14-1E | 11/5/99 | 30-32 ft. | 12 | 10 U | 80 U | 21 | 2 | 17 | 10 U | 36 |
| | BH14-1F | 11/5/99 | 35-37 ft. | 10 U | 10 U | 80 U | 56 | 2.4 | 10 U | 10 U | 37 |
| | BH14-1F2 | 11/5/99 | 35-37 ft. | 10 U | 10 U | 80 U | 20 U | 2.5 | 10 U | 10 U | 34 |
| | BH14-1G | 11/5/99 | 40-42 ft. | 16 | 10 U | 80 U | 20 U | 2.4 | 10 U | 10 U | 25 |
| | BH14-1H | 11/5/99 | 45-47 ft. | 10 U | 10 U | 80 U | 20 U | 2.1 | 13 | 10 U | 40 |
| | BH14-1I | 11/5/99 | 50-52 ft. | 10 U | 10 U | 80 U | 35 | 1.5 | 10 U | 10 U | 26 |
| | BH14-1J | 11/5/99 | 55-57 ft. | 10 U | 10 U | 80 U | 41 | 1.7 | 10 U | 10 U | 13 |
| | BH14-1K | 11/5/99 | 60-62 ft. | 40 | 10 U | 80 U | 20 U | 2.4 | 10 U | 10 U | 63 |
| | BH14-1L | 11/8/99 | 65-67 ft. | 10 U | 10 U | 80 U | 32 | 1.5 | 10 U | 10 U | 10 U |
| | BH14-1L2 | 11/8/99 | 65-67 ft. | 10 U | 10 U | 80 U | 20 U | 1.6 | 10 U | 10 U | 21 |
| | BH14-1M | 11/8/99 | 70-72 ft. | 10 U | 10 U | 80 U | 42 | 1.9 | 10 U | 10 U | 23 |
| BH14-2 | BH14-2A | 12/16/99 | 0 ft. | 210 | 130 | 55000 | 3.5 | 1400 | 64 | 2300 | |
| | BH14-2B | 12/16/99 | 1 ft. | 170 | 87 | 80 U | 3300 | 2.1 | 2800 | 15 | 1500 |
| | BH14-2C | 12/16/99 | 2 ft. | 210 | 140 | 80 U | 4400 | 2.4 | 4400 | 15 | 1500 |
| | BH14-2D | 12/16/99 | 3 ft. | 62 | 18 | 80 U | 1500 | 2 | 510 | 10 U | 190 |
| | BH14-2E | 12/16/99 | 4 ft. | 210 | 18 | 80 U | 2400 | 2.3 | 970 | 10 U | 230 |
| | BH14-2F | 12/16/99 | 10 ft. | 10 U | 12 | 80 U | 26 | 1.2 | 26 J4 | 10 U | 16 |
| | BH14-2G | 12/16/99 | 15 ft. | 10 U | 10 U | 80 U | 25 | 1.6 | 10 U,UJ4 | 10 U | 40 |
| | BH14-2H | 12/16/99 | 20 ft. | 11 | 10 U | 80 U | 65 | 1.5 | 10 U,UJ4 | 10 U | 29 |
| | BH14-2I | 12/16/99 | 25 ft. | 17 | 10 U | 80 U | 20 U | 1.8 | 21 J4 | 10 U | 28 |
| | BH14-2J2 | 12/16/99 | 25 ft. | 10 U | 10 U | 80 U | 20 U | 1.8 | 42 J4 | 10 U | 15 |
| | BH14-2J | 12/16/99 | 30 ft. | 10 | 12 | 80 U | 38 | 2.1 | 50 J4 | 10 U | 49 |
| | BH14-2K | 12/16/99 | 35 ft. | 17 | 10 U | 80 U | 34 | 2.5 | 48 J4 | 10 U | 43 |
| | BH14-2L | 12/16/99 | 40 ft. | 16 | 10 U | 80 U | 32 | 2.5 | 47 J4 | 10 U | 60 |
| | BH14-2M | 12/16/99 | 45 ft. | 26 | 10 U | 80 U | 32 | 2.6 | 15 J4 | 10 U | 56 |
| | BH14-2O | 12/16/99 | 50 ft. | 10 U | 12 | 80 U | 38 | 2.1 | 10 U,UJ4 | 10 U | 34 |
| | BH14-2P | 12/16/99 | 55 ft. | 16 | 10 U | 80 U | 20 U | 2.6 | 10 J4 | 10 U | 46 |
| | BH14-2Q | 12/16/99 | 60 ft. | 10 U | 10 U | 80 U | 20 U | 2.1 | 10 U | 10 U | 50 |
| | BH14-2Q2 | 12/16/99 | 60 ft. | 10 U | 10 U | 80 U | 20 U | 2.1 | 10 U | 10 U | 48 |

**Table D-12. Summary of Soil Analytical Results
Investigation Area 14 (South Terrace Area)**

| Site | Sample # | Date | Depth (ft) | Arsenic (mg/kg) | Cadmium (mg/kg) | Chromium (mg/kg) | Copper (mg/kg) | Iron (mg/kg) | Lead (mg/kg) | Selenium (mg/kg) | Zinc (mg/kg) |
|--------|----------|----------|------------|-----------------|-----------------|------------------|----------------|--------------|--------------|------------------|--------------|
| BHI4-3 | BHI4-3A | 12/15/99 | 0 ft. | 10 U | 16 | 80 U | 1800 | 2 | 2600 | 10 U | 210 |
| | BHI4-3B | 12/15/99 | 1 ft. | 27 | 10 U | 80 U | 520 | 2.2 | 420 | 10 U | 68 |
| | BHI4-3C | 12/15/99 | 2 ft. | 10 U | 10 U | 82 | 73 | 1.8 | 250 | 10 U | 11 |
| | BHI4-3D | 12/15/99 | 3 ft. | 10 U | 10 U | 80 U | 36 | 1.6 | 190 | 10 U | 10 U |
| | BHI4-3E | 12/15/99 | 4 ft. | 10 U | 10 U | 80 U | 20 U | 1.4 | 65 | 10 U | 29 |
| | BHI4-3F | 12/15/99 | 10 ft. | 10 U | 10 U | 80 U | 70 | 1.1 | 74 | 10 U | 11 |
| | BHI4-3G | 12/15/99 | 15 ft. | 43 | 10 U | 90 | 72 | 2.9 | 530 | 10 U | 74 |
| | BHI4-3H | 12/15/99 | 20 ft. | 19 | 11 | 80 U | 20 U | 2.1 | 33 | 10 U | 36 |
| | BHI4-3I | 12/15/99 | 25 ft. | 23 | 10 U | 80 U | 61 | 2.4 | 62 | 10 U | 59 |
| | BHI4-3J | 12/15/99 | 30 ft. | 20 | 10 U | 80 U | 55 | 2.3 | 31 | 10 U | 32 |
| | BHI4-3J2 | 12/15/99 | 30 ft. | 15 | 10 U | 80 U | 39 | 2.2 | 28 | 10 U | 40 |
| | BHI4-3K | 12/15/99 | 35 ft. | 10 U | 10 U | 80 U | 73 | 1.9 | 65 | 10 U | 27 |
| | BHI4-3L | 12/15/99 | 40 ft. | 11 | 10 U | 80 U | 48 | 2.6 | 54 | 10 U | 54 |
| | BHI4-3M | 12/15/99 | 45 ft. | 10 U | 10 U | 80 U | 20 U | 2 | 10 U | 10 U | 49 |
| | BHI4-3N | 12/15/99 | 50 ft. | 12 | 10 U | 80 U | 41 | 2.1 | 10 U | 10 U | 32 |
| | BHI4-3O | 12/15/99 | 55 ft. | 10 U | 12 | 80 U | 34 | 2 | 10 U | 10 U | 40 |
| | BHI4-3P | 12/15/99 | 60 ft. | 10 U | 13 | 80 U | 45 | 1.5 | 10 U | 10 U | 21 |
| | BHI4-3Q | 12/15/99 | 65 ft. | 10 U | 10 U | 80 U | 20 U | 1.3 | 10 U | 10 U | 44 |
| | BHI4-3Q2 | 12/15/99 | 65 ft. | 10 U | 10 U | 80 U | 32 | 1.4 | 10 U | 10 U | 43 |

APPENDIX E

GRAPHS OF SOIL SAMPLE METAL ANALYSIS

CONCENTRATIONS VERSUS DEPTH

APPENDIX E

GRAPHS OF SOIL SAMPLE METAL ANALYSIS

CONCENTRATIONS VERSUS DEPTH

APPENDIX E

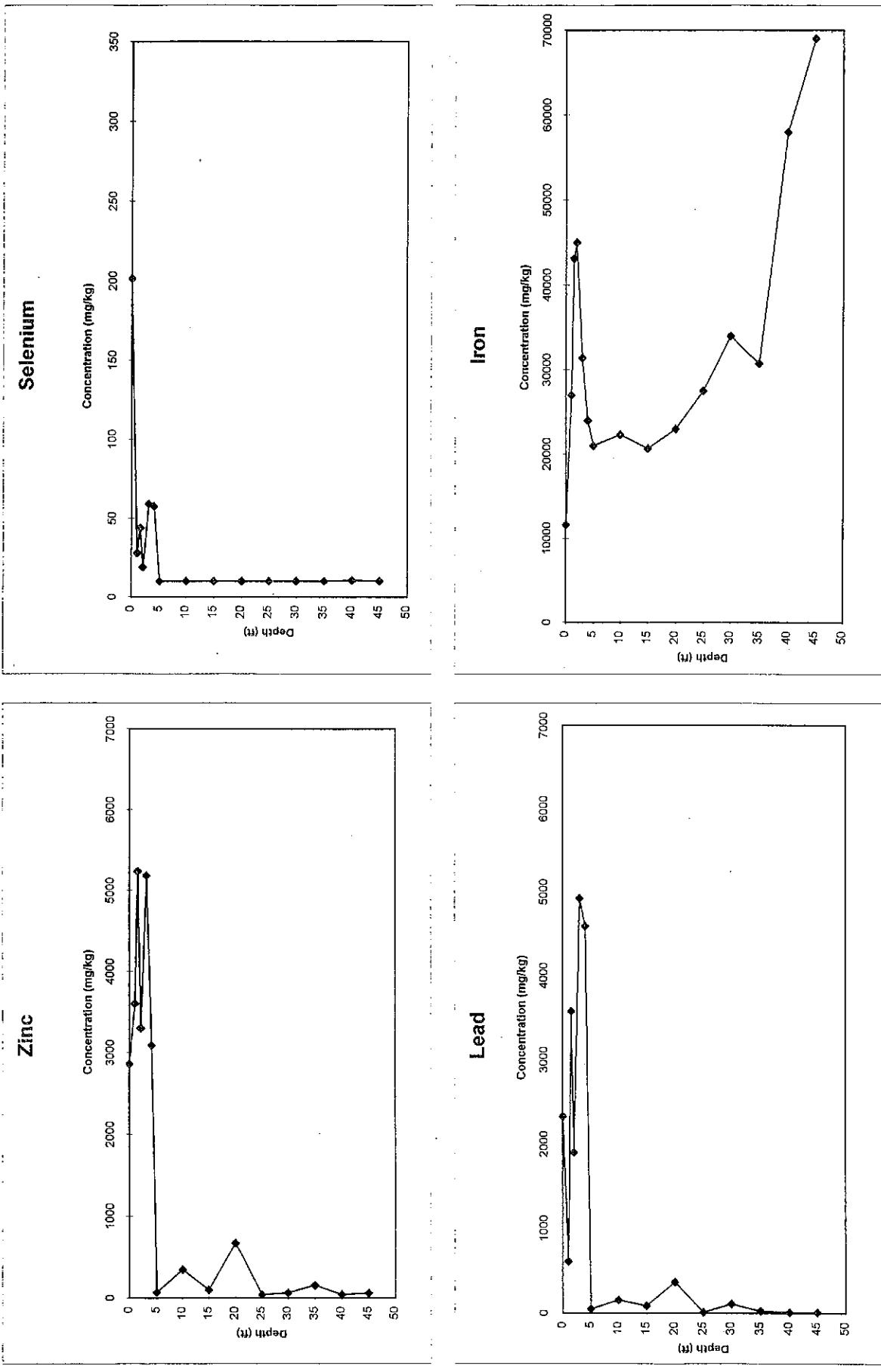
GRAPHS OF SOIL SAMPLE METAL ANALYSIS

CONCENTRATIONS VERSUS DEPTH

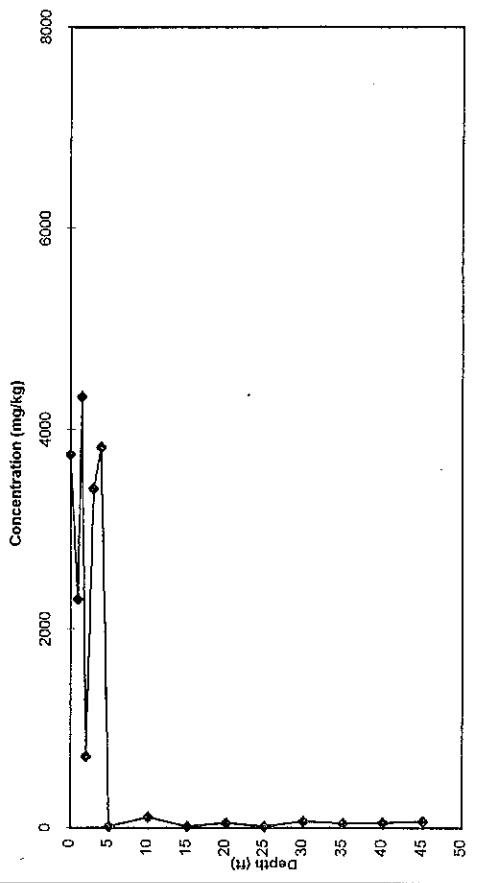
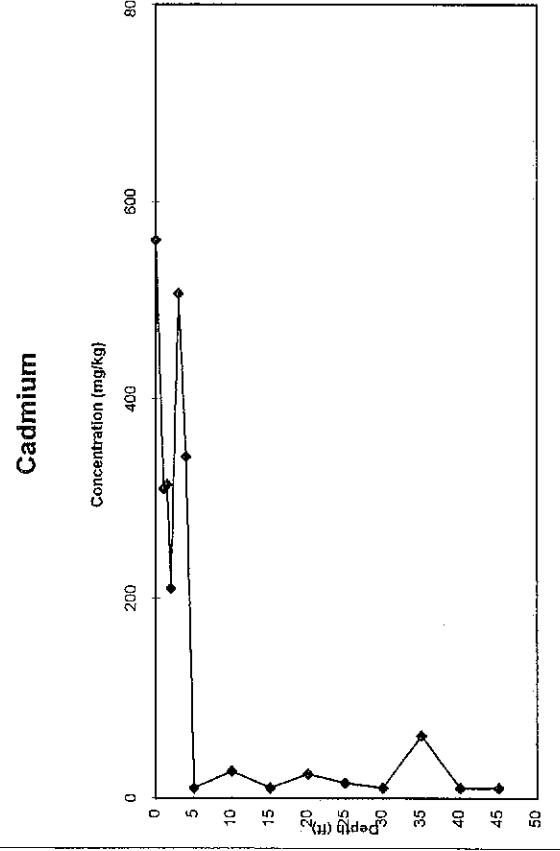
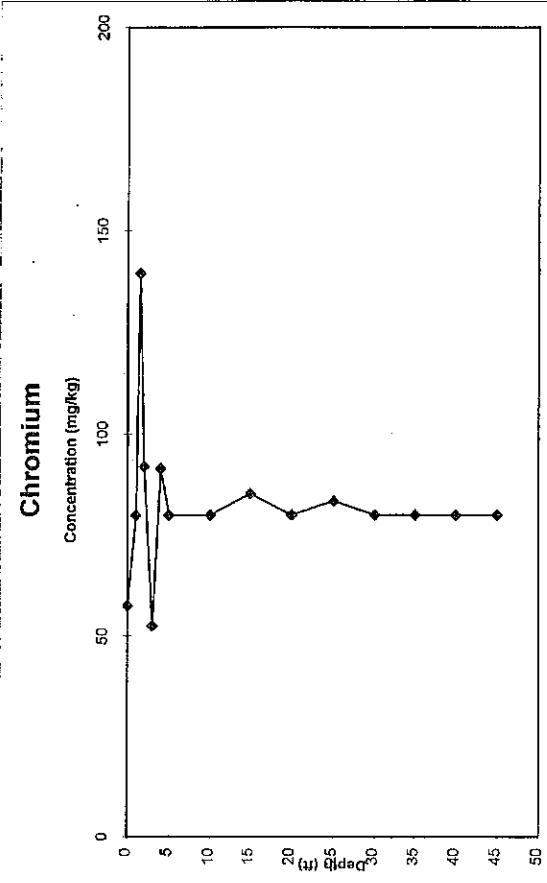
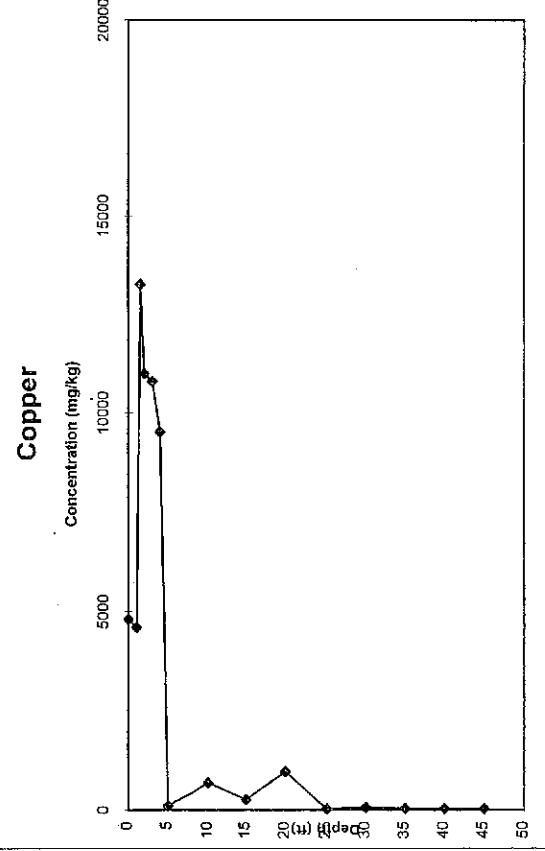
This appendix contains graphs of the analytical results for eight metals (arsenic, cadmium, chromium, copper, iron, lead, selenium and zinc) for soil samples. The first graphs present averaged data per Investigation Area. The concentrations shown are the averaged concentrations for all phase I and phase II borings drilled in the Investigation Area. The subsequent graphs present the data per well for soil samples collected during well construction. Soil samples were collected at five-foot intervals in monitor wells EP-67 through EP-118. Only RI phase II soil data for individual monitor wells (EP-93 through EP-118) is presented in this appendix.

Graphs indicate the concentrations in milligrams per kilogram (mg/kg) versus depth (feet below ground surface). Scales vary for each constituent and nondetectable concentrations are not indicated. Refer to the tabulated summaries of soil data for detection limits (Appendix D).

Average Soil Concentrations by Depth, Investigation Area 1
(Converter Building/Baghouse Area)

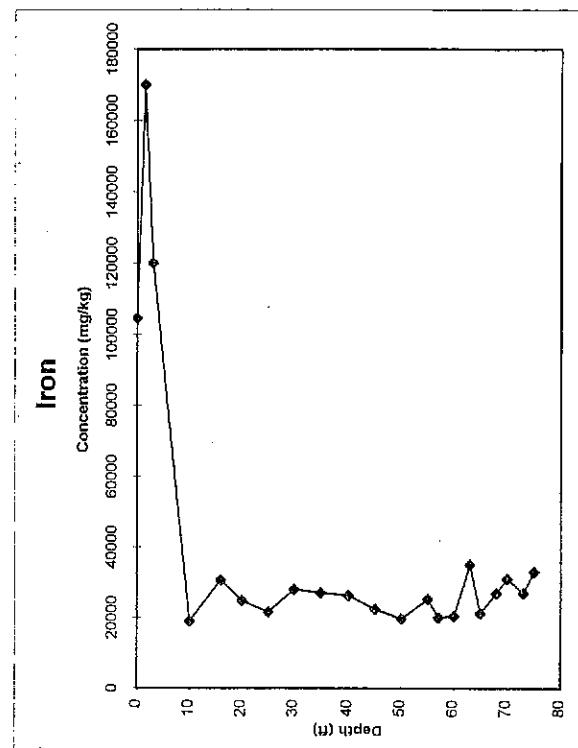
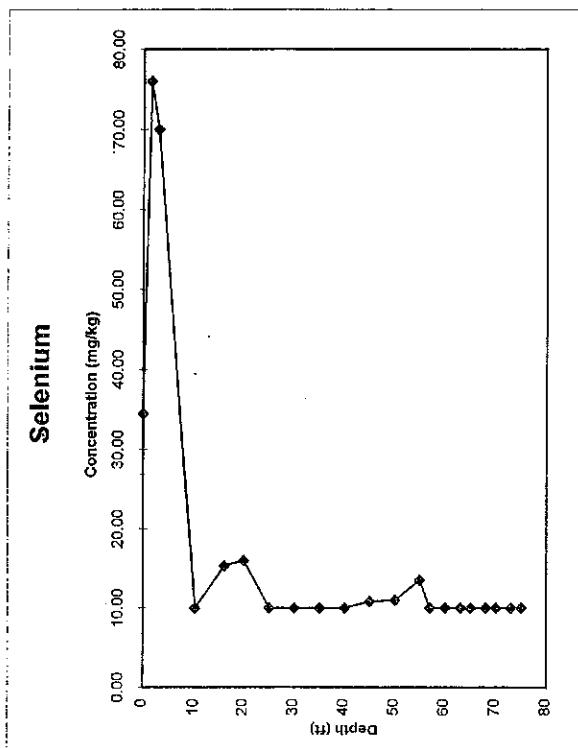
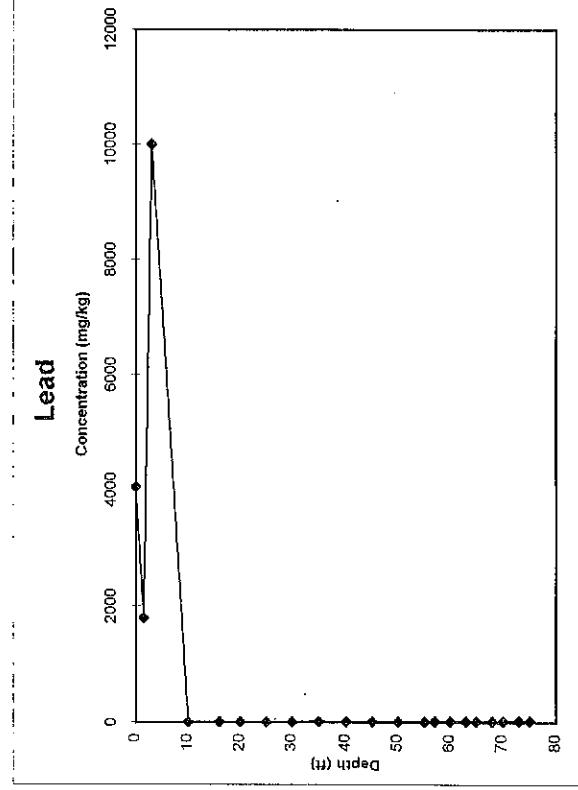
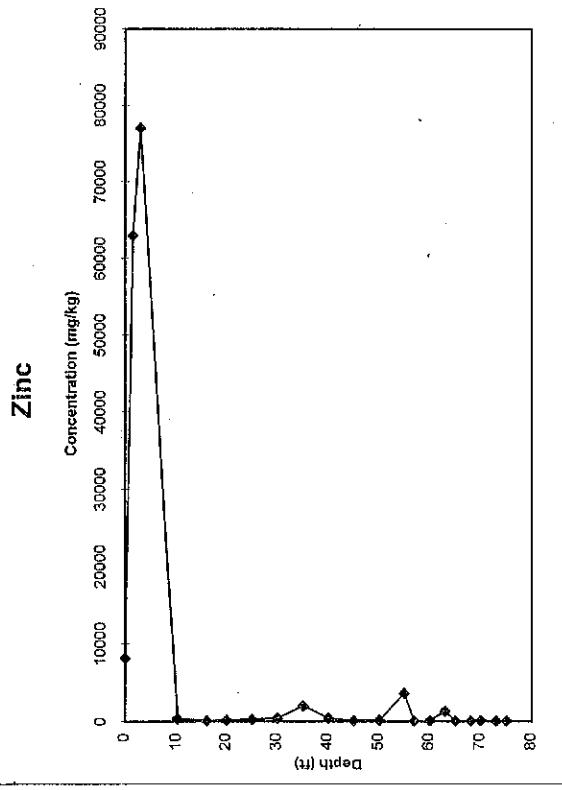


**Average Soil Concentrations by Depth, Investigation Area I
(Converter Building/Baghouse Area)**

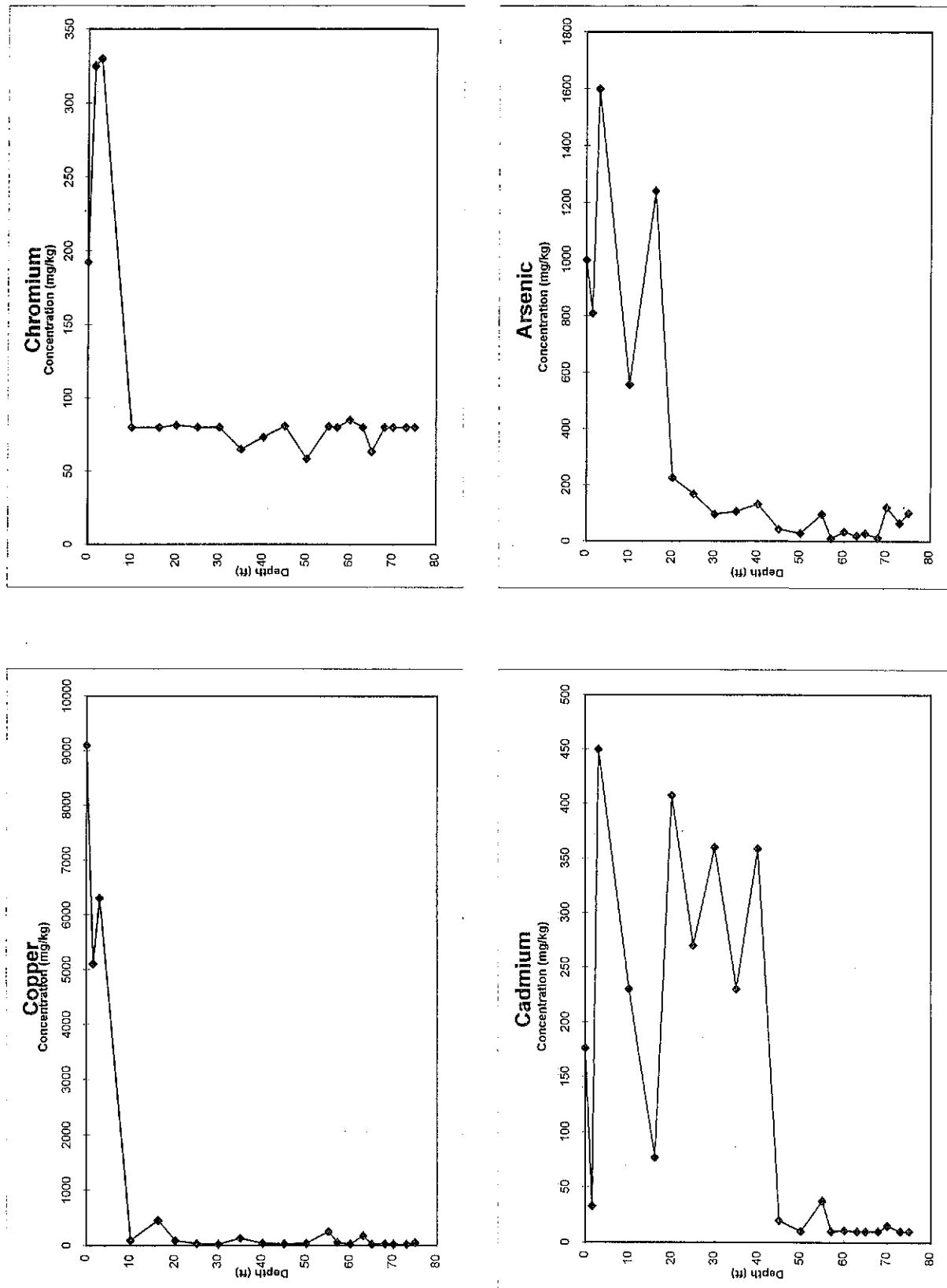


Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Concentrations by Depth, Investigation Area 2
(Boneyard/Slag Area)

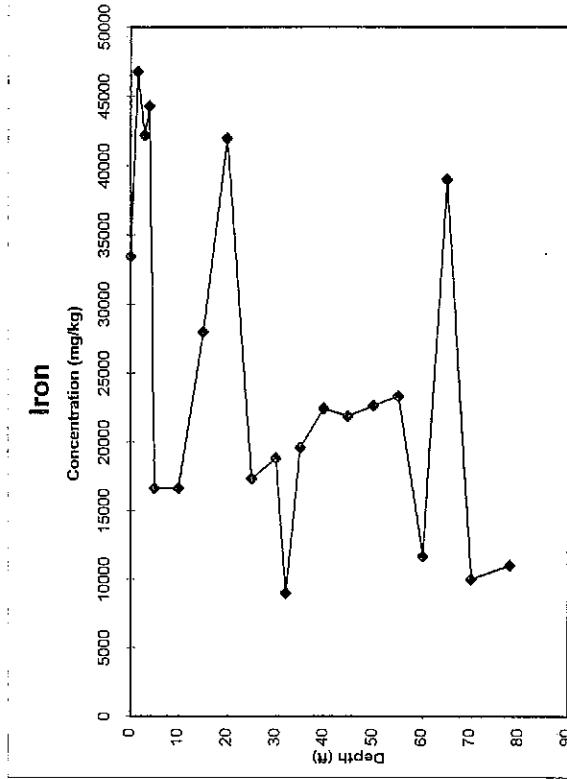
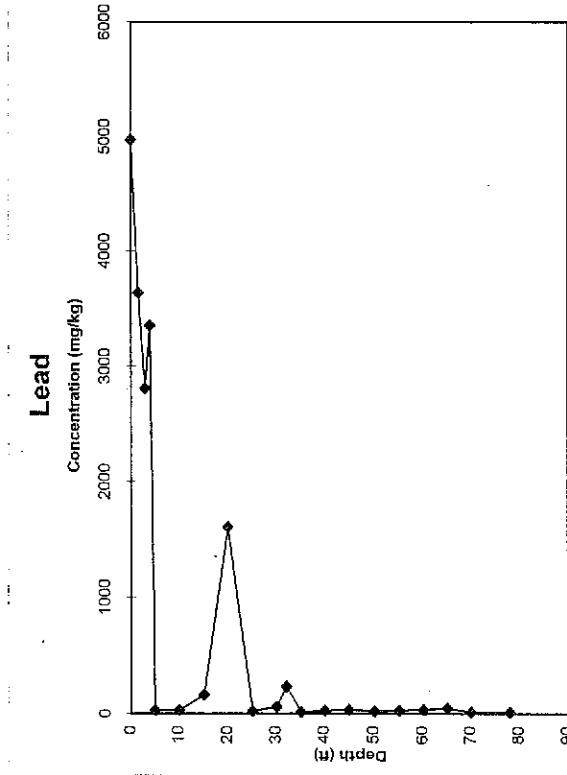
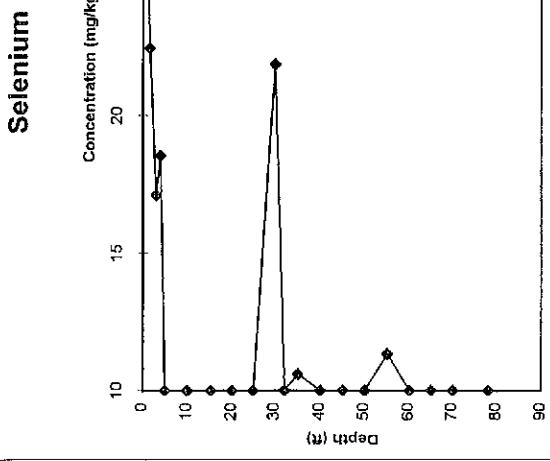
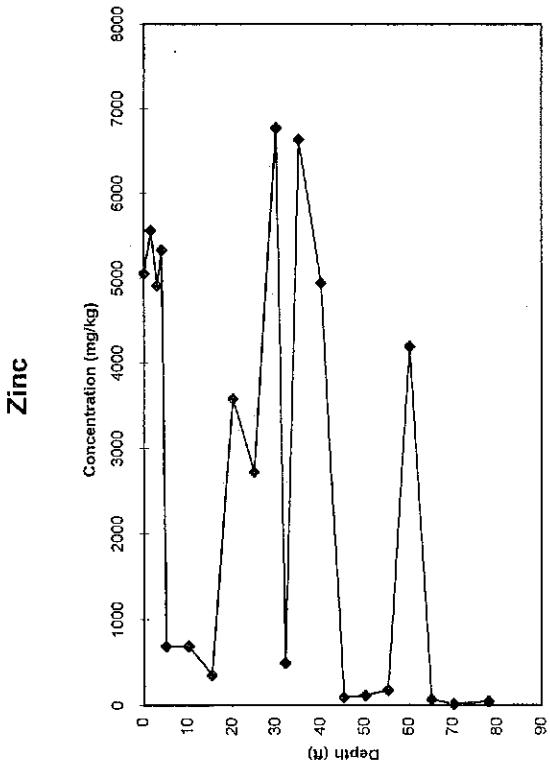


Average Concentrations by Depth, Investigation Area 2
(Boneyard/Slag Area)

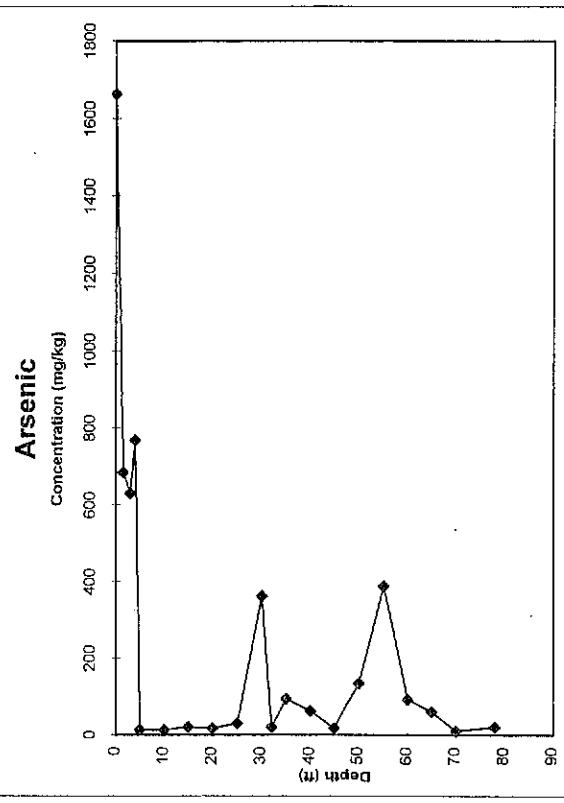
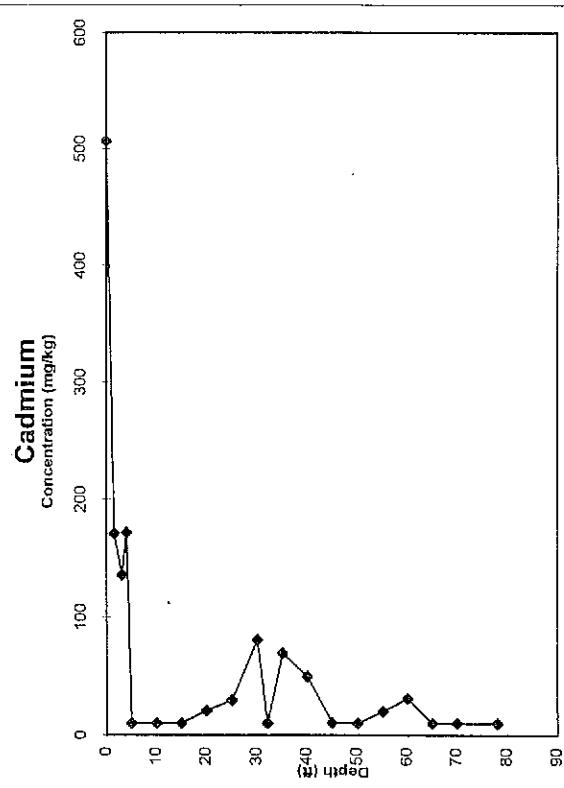
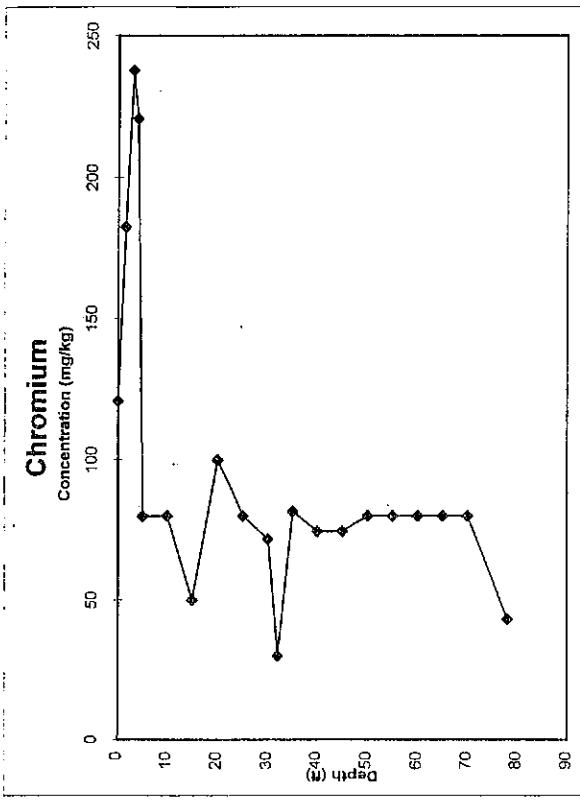
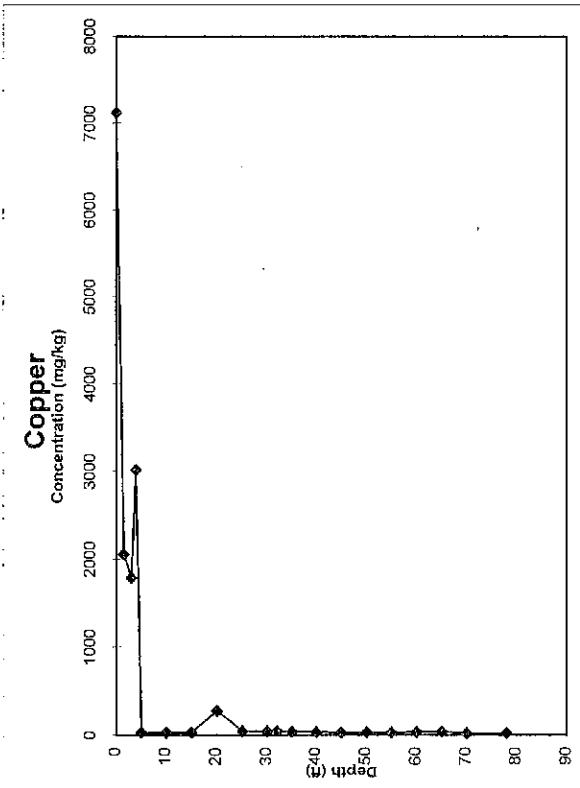


Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Concentrations by Depth, Investigation Area 3
(Acid Plants 1 and 2 Area)

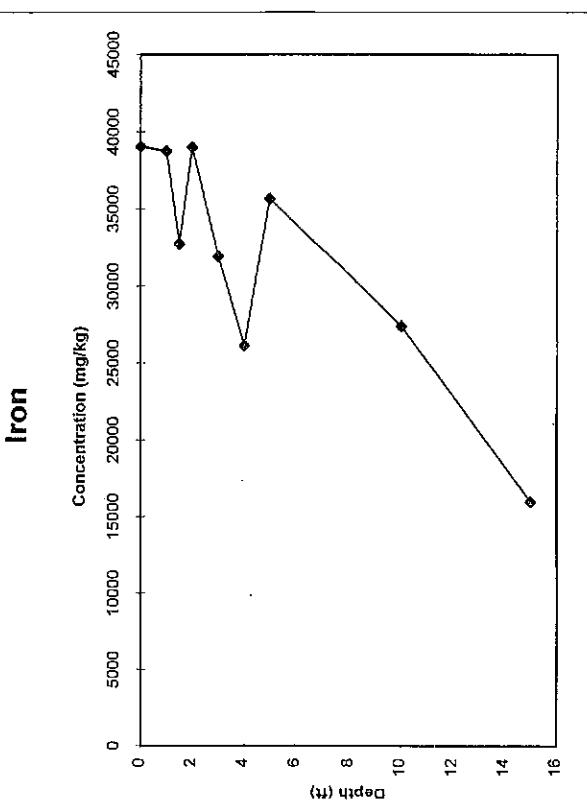
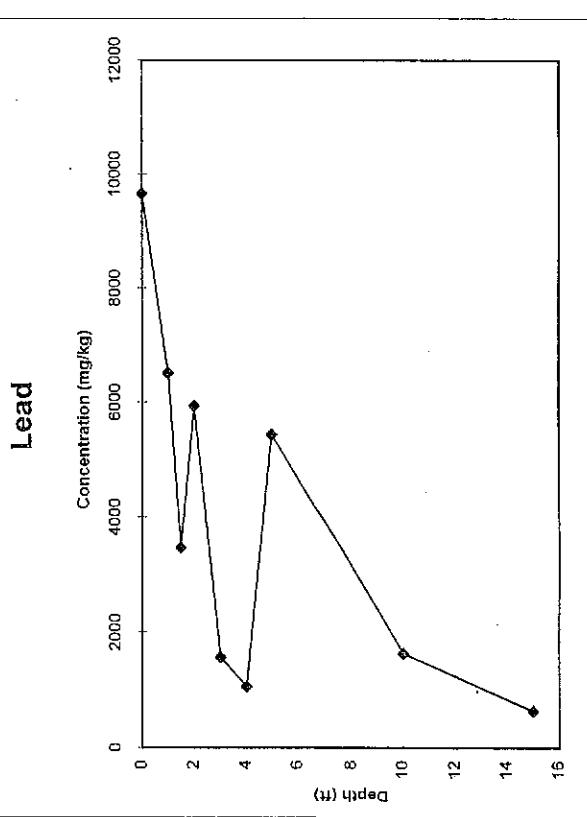
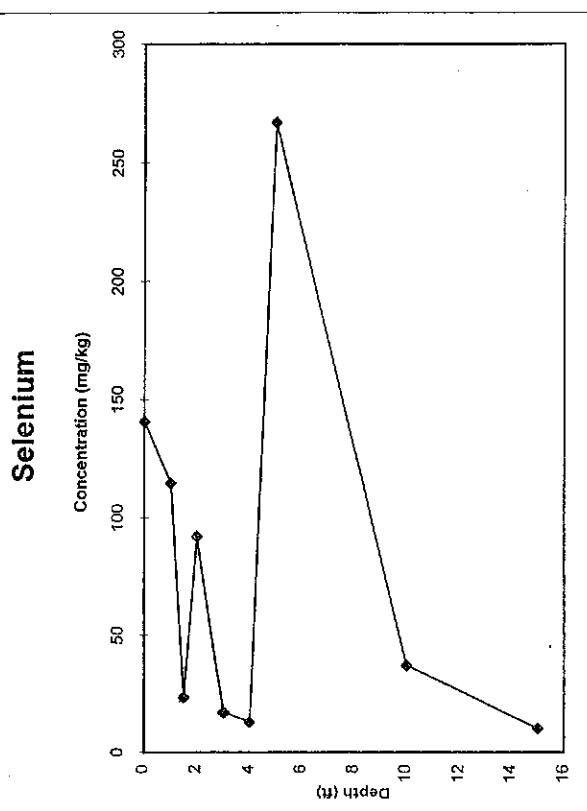
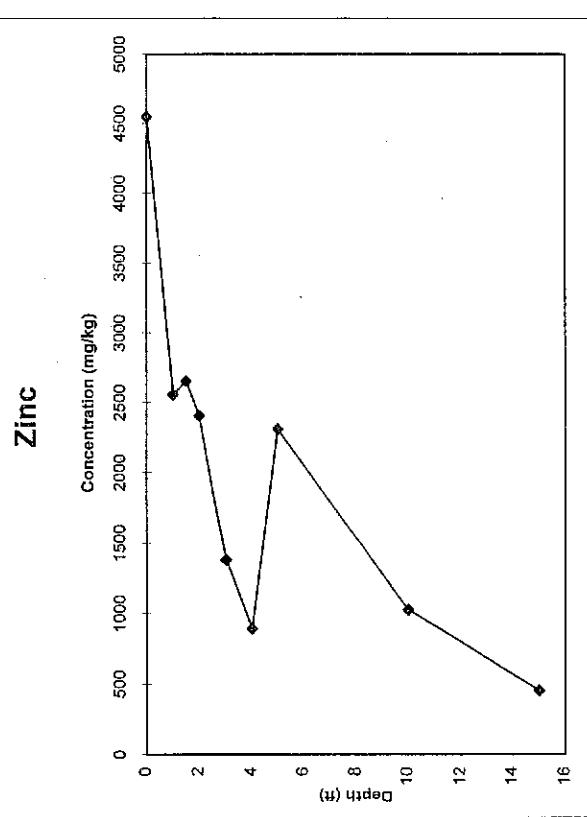


Average Concentrations by Depth, Investigation Area 3
(Acid Plants 1 and 2 Area)

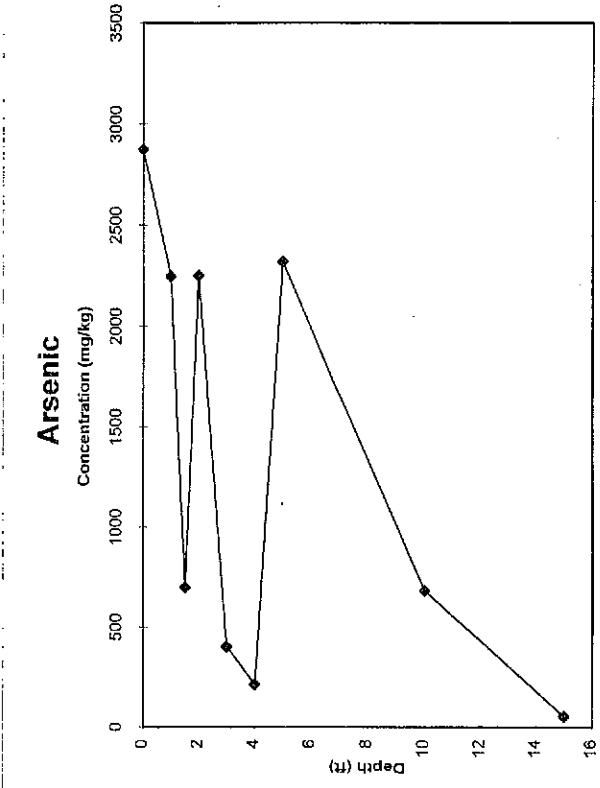
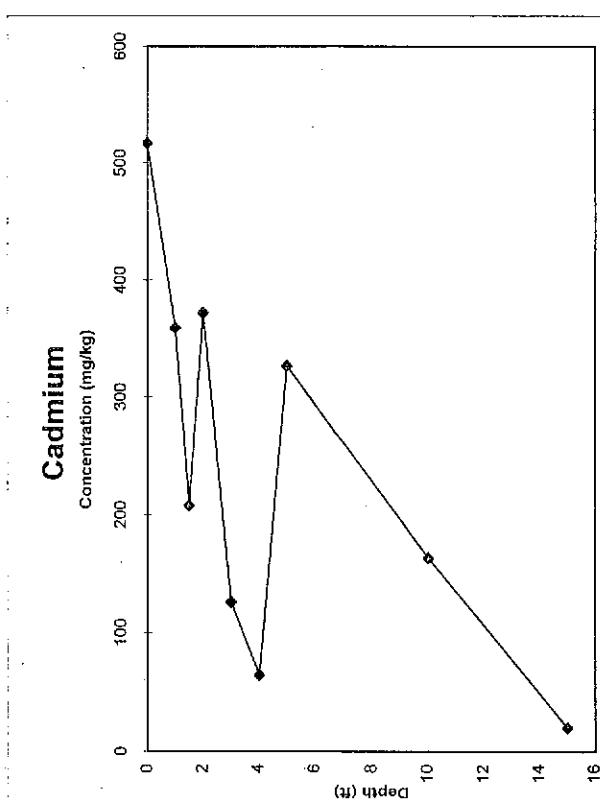
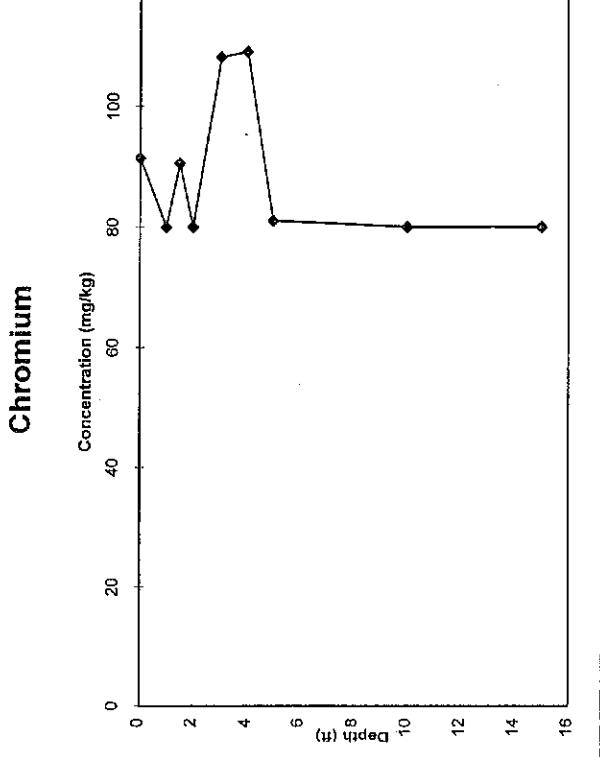
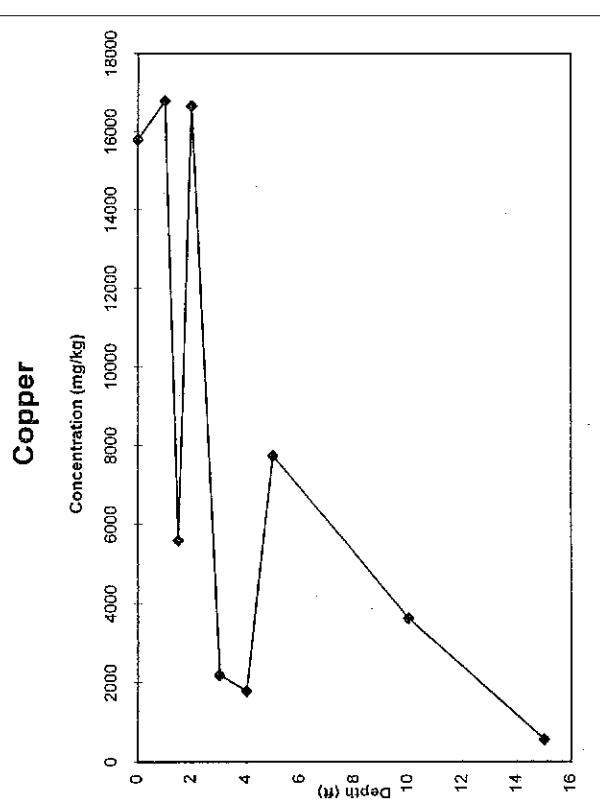


Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Concentrations by Depth, Investigation Area 4
(Front Slope/Western Plant Boundary Area)



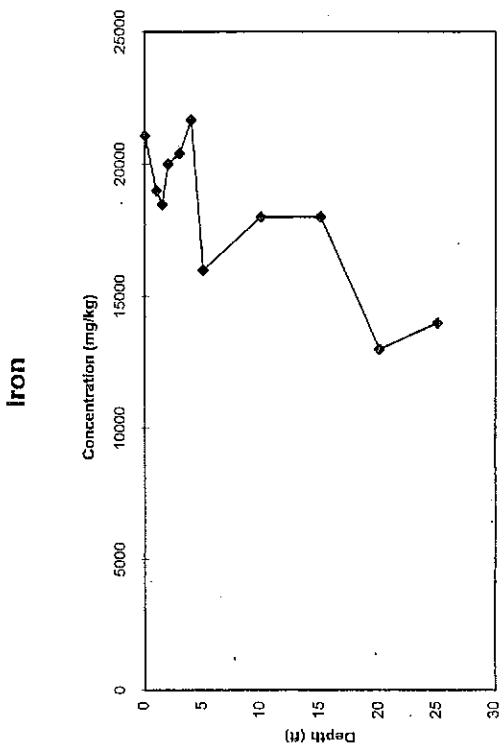
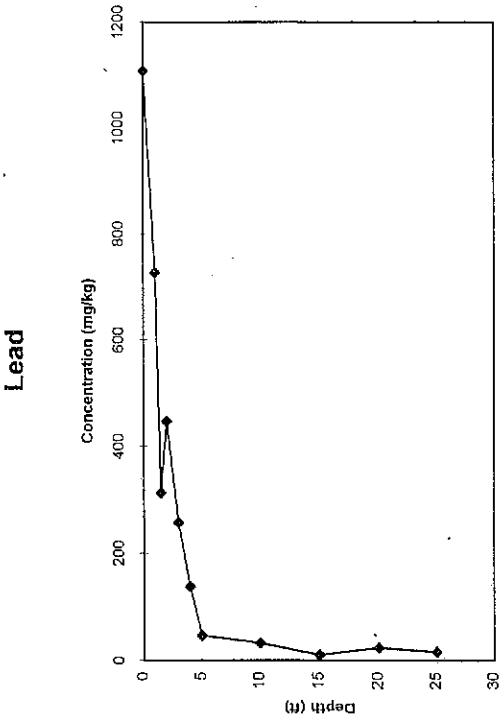
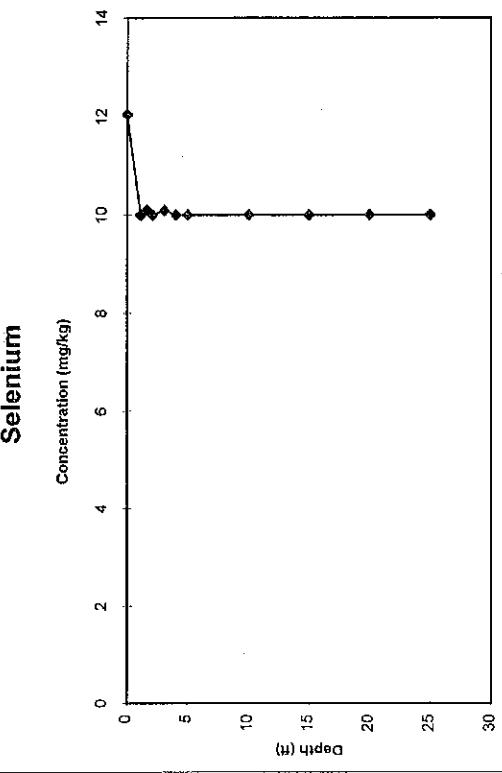
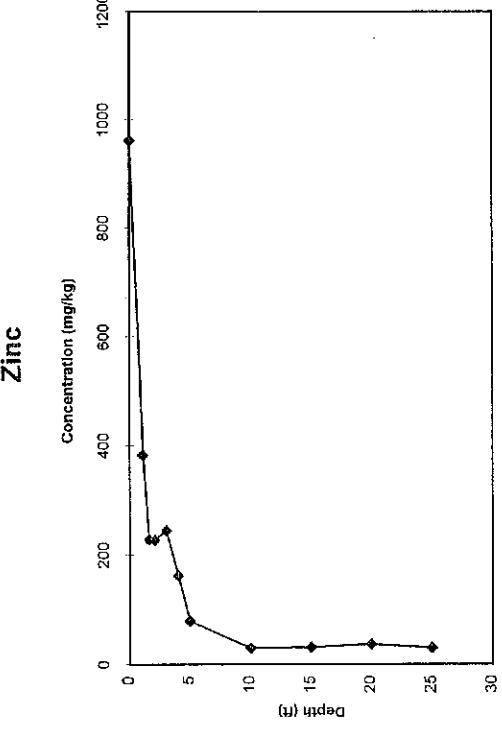
Average Concentrations by Depth, Investigation Area 4
(Front Slope/Western Plant Boundary Area)



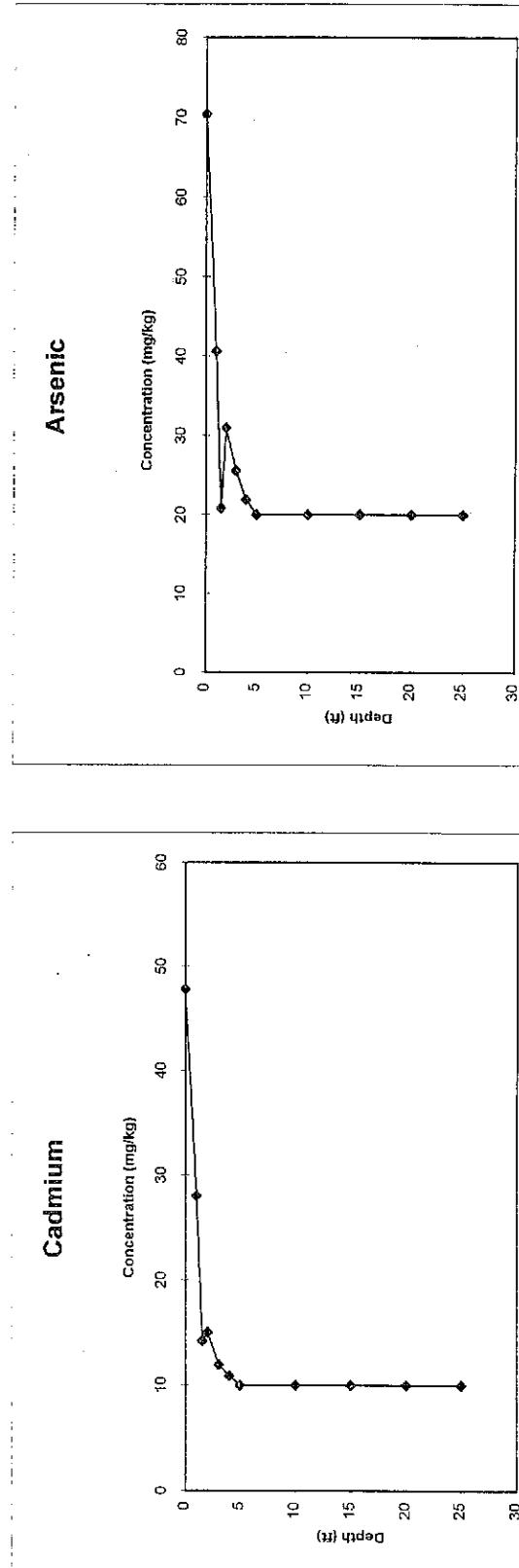
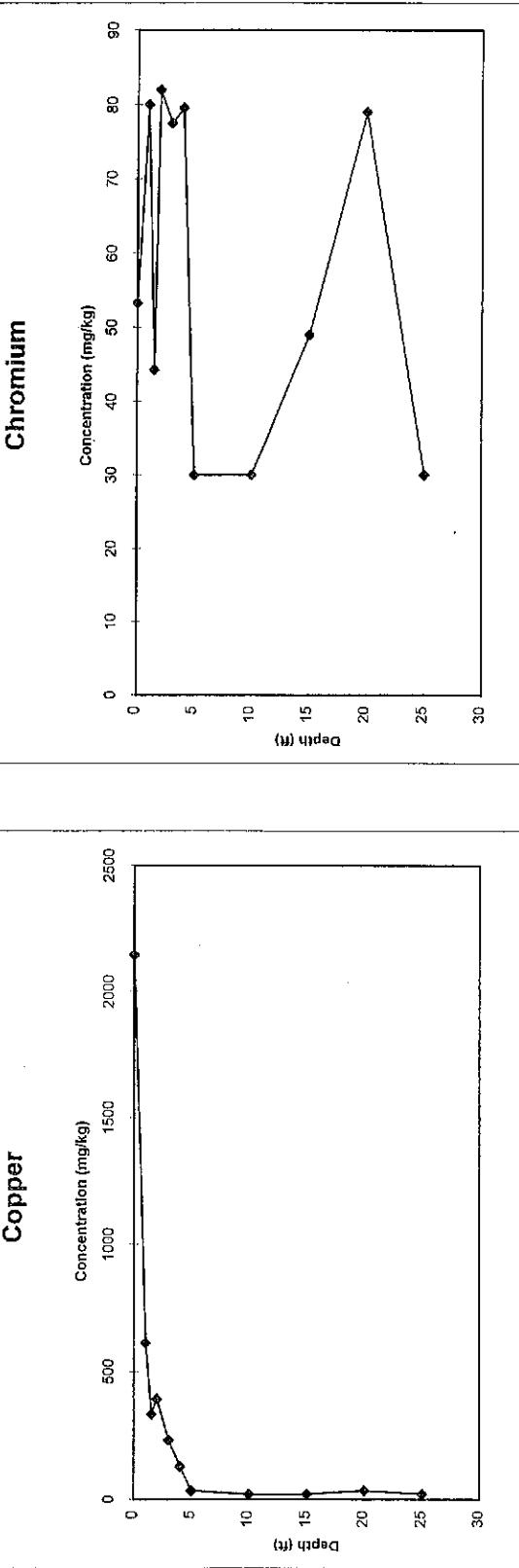
Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

HARFest28\CoSRT Report 2006 Appendices\APPENDIX C\Soil Graphs_By IA

Average Concentration by Depth, Investigation Area 5
(Historic Smeltertown Area)



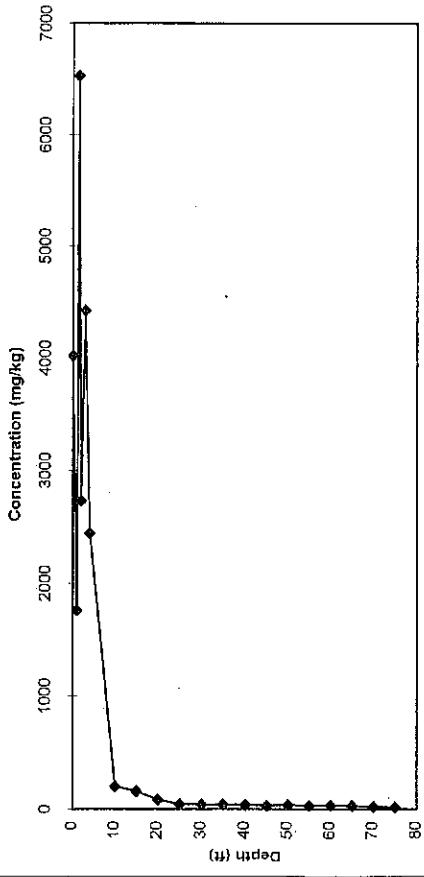
Average Concentration by Depth, Investigation Area 5
(Historic Smeltertown Area)



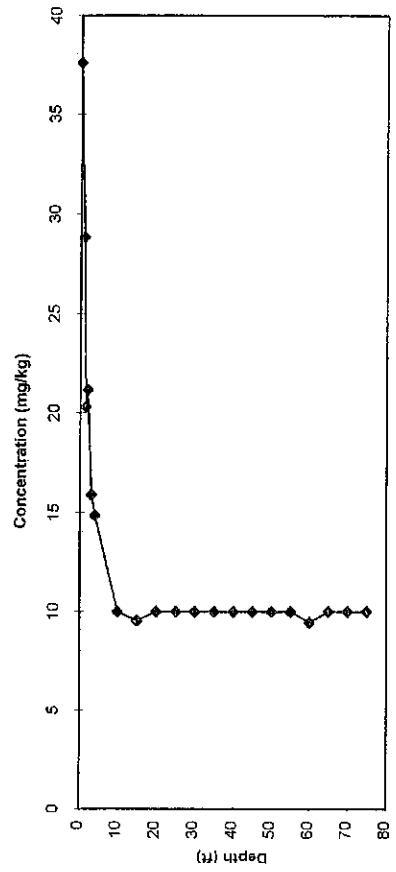
Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Concentrations by Depth, Investigation Area 8
(Bedding and Unloading Buildings Area)

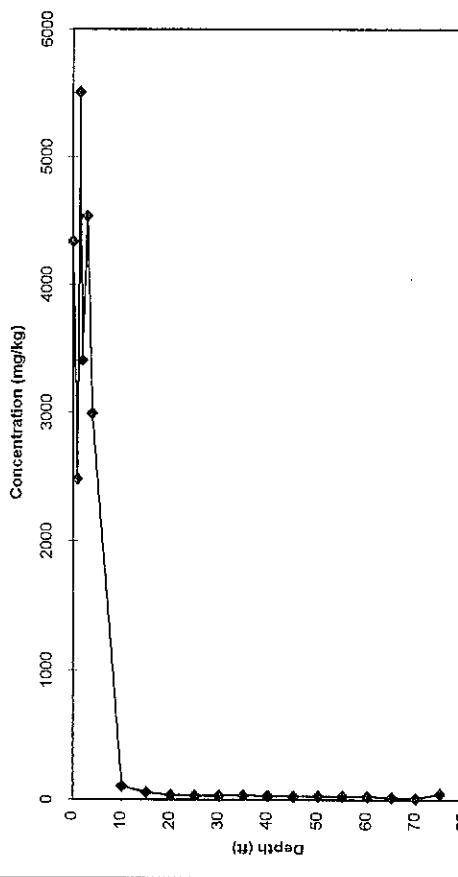
Zinc



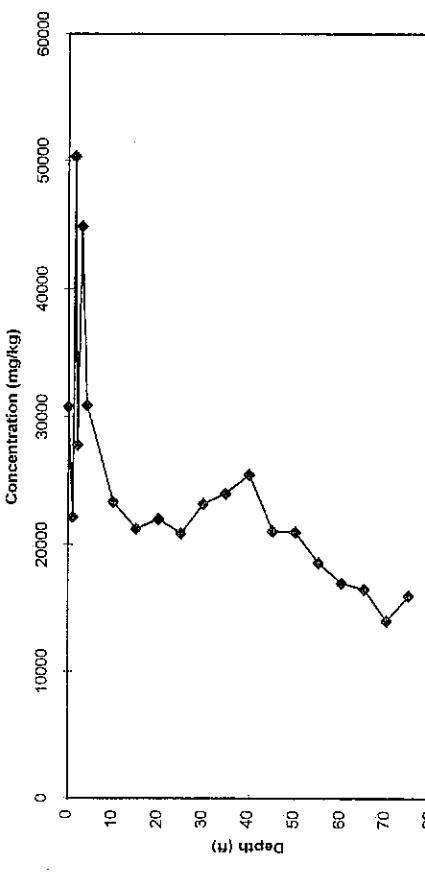
Selenium



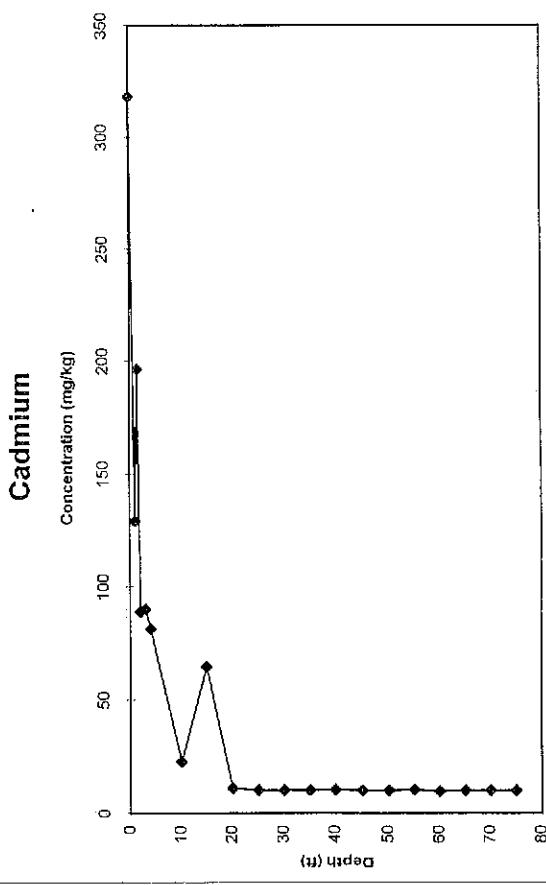
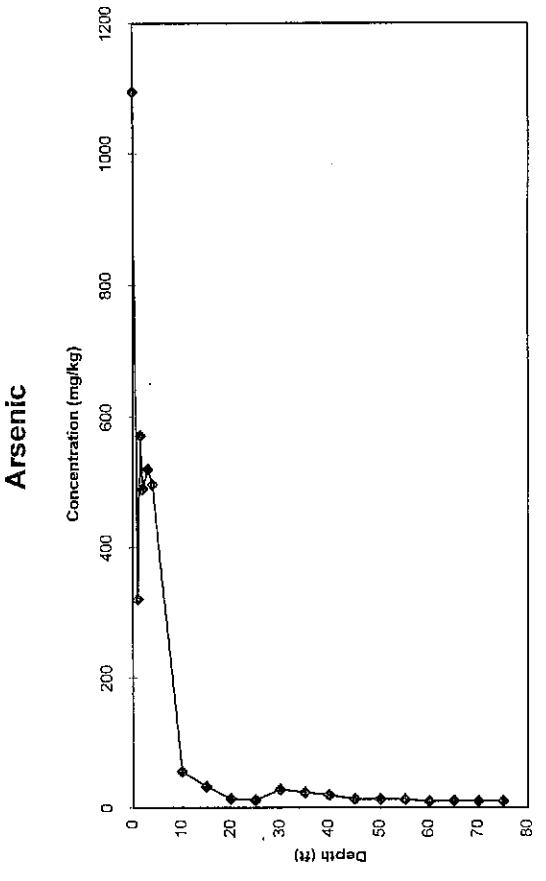
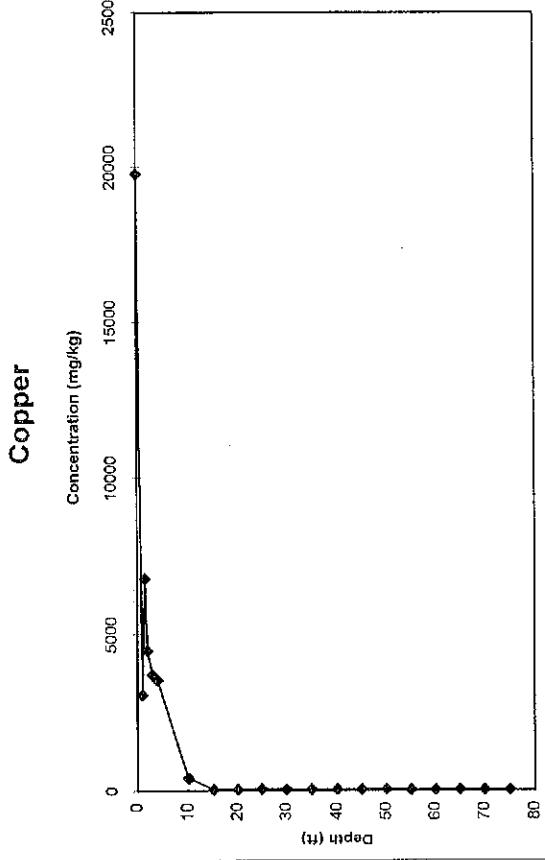
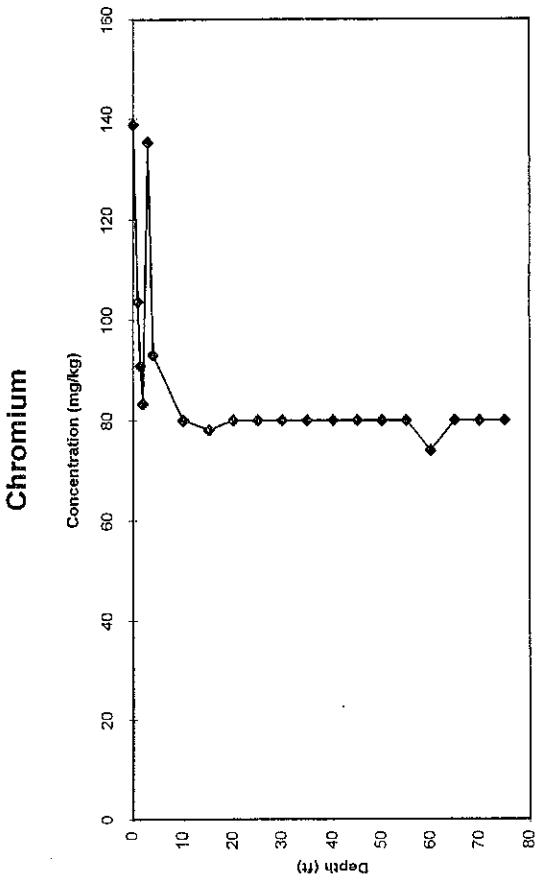
Lead



Iron

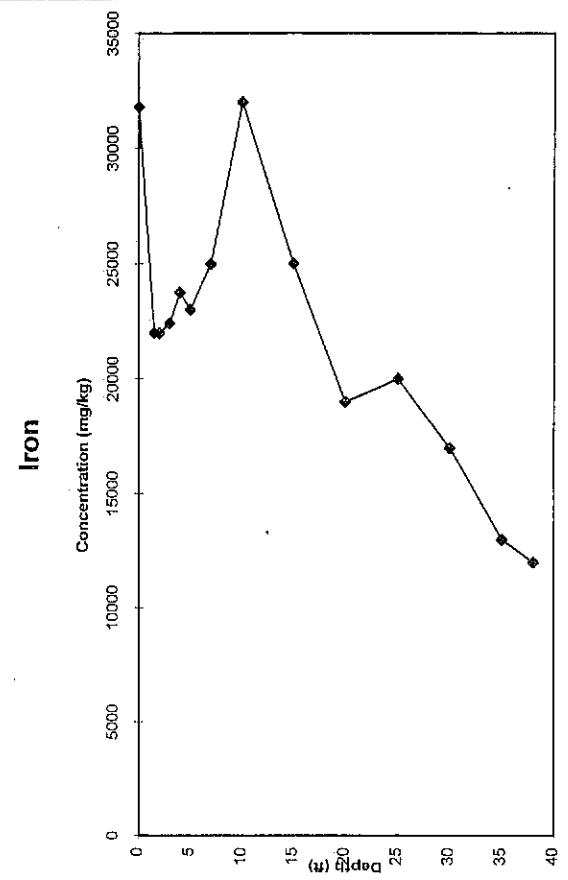
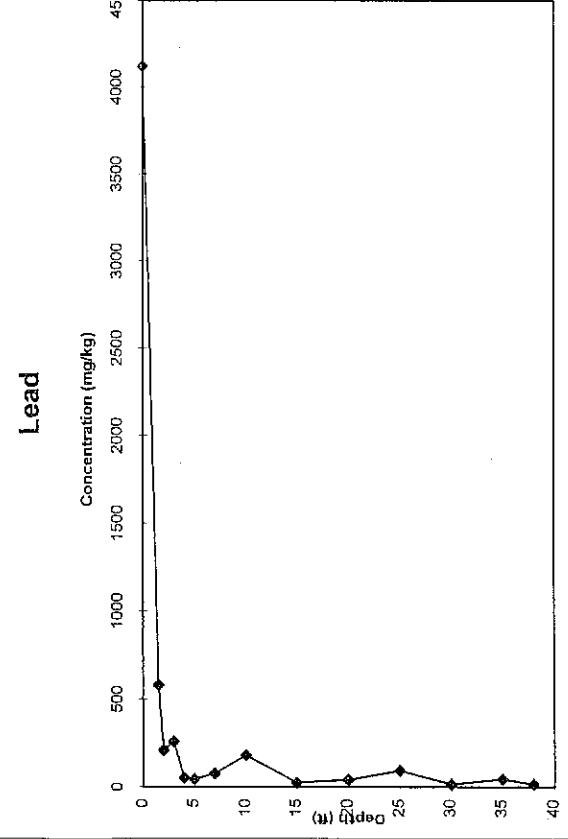
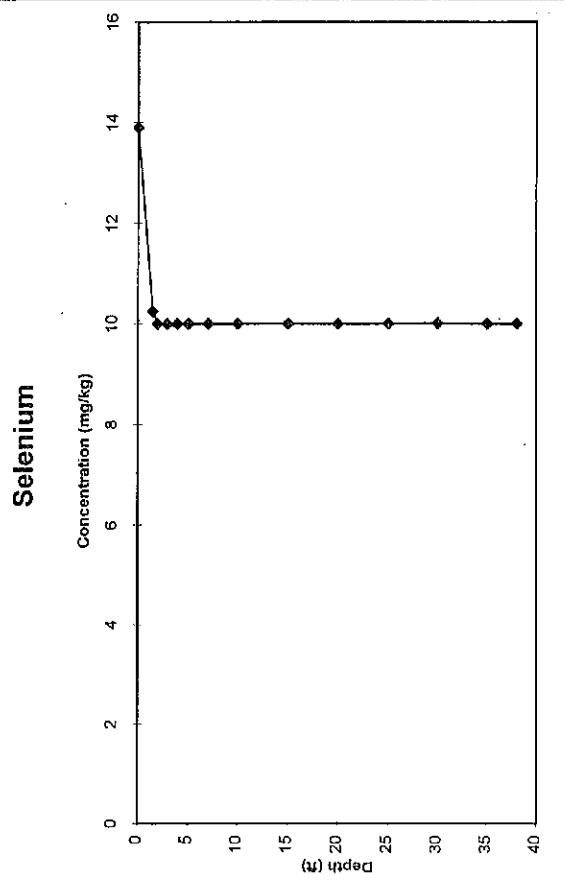
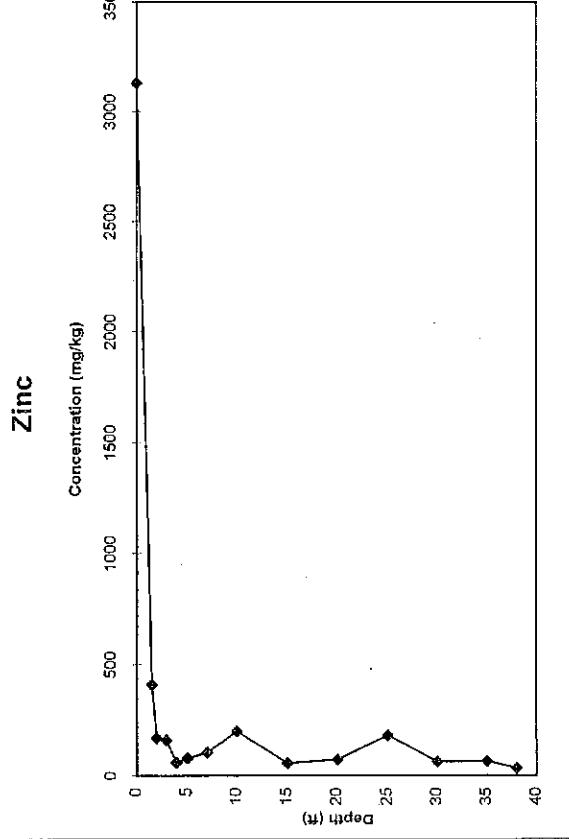


Average Concentrations by Depth, Investigation Area 8
(Bedding and Unloading Buildings Area)

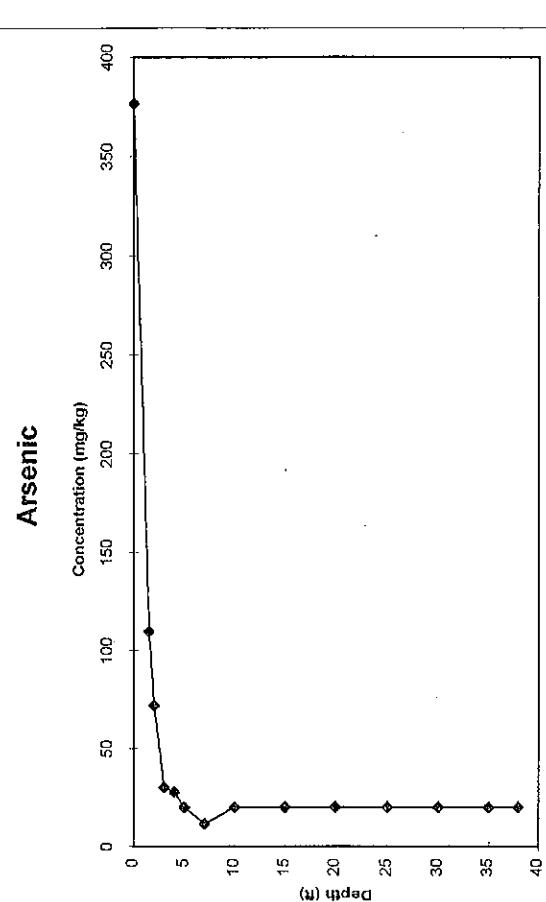
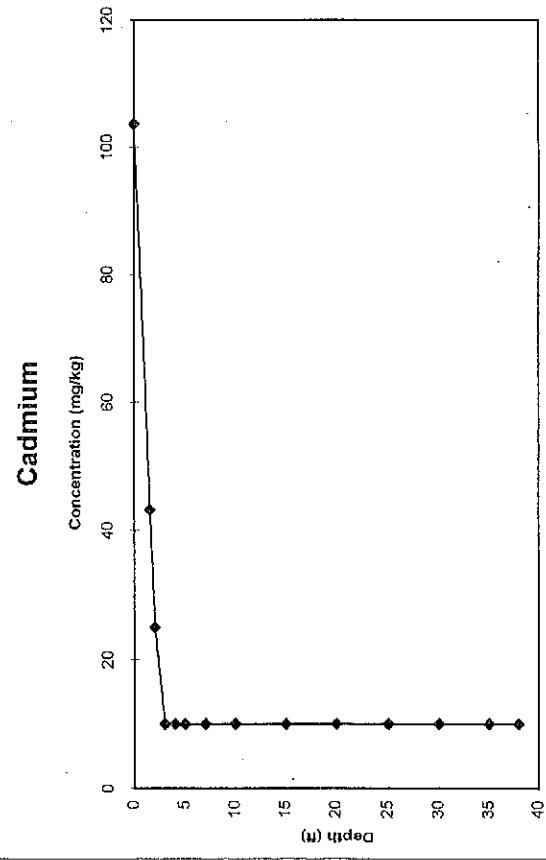
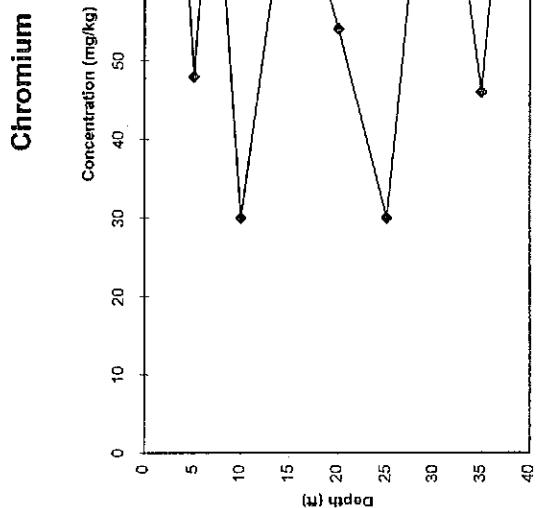
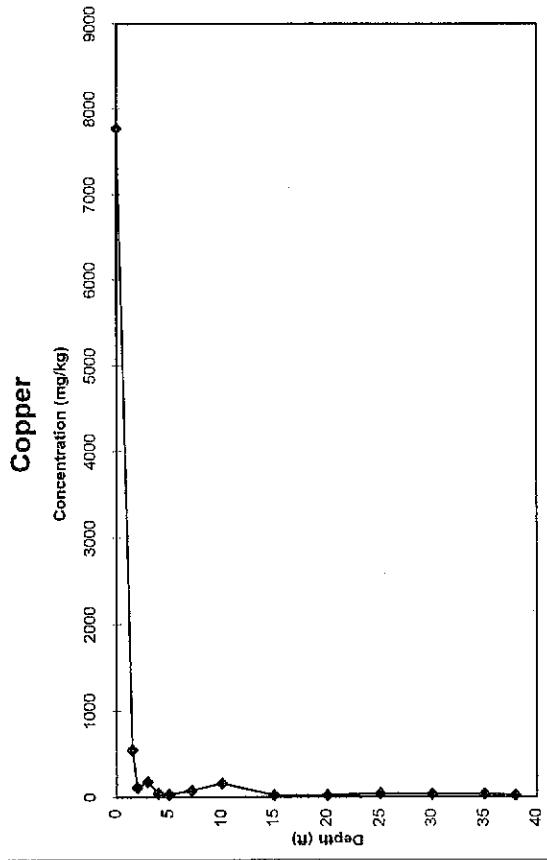


Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Soil Concentrations by Depth, Investigation Area 10
(Plant Entrance Area)



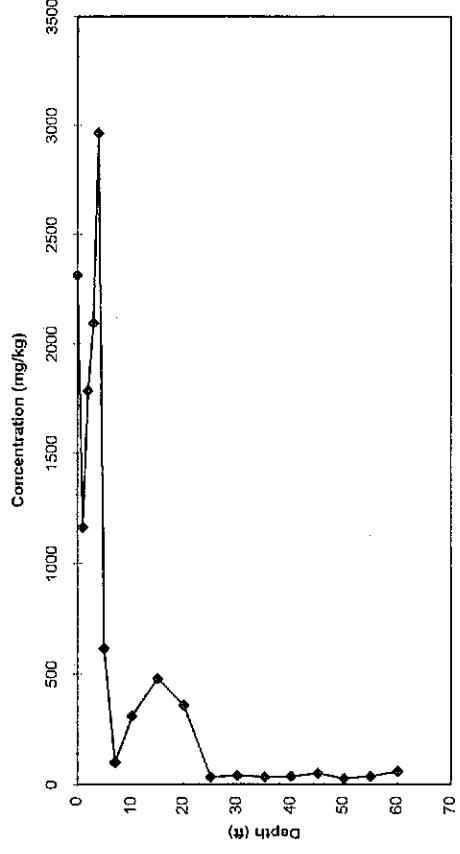
**Average Soil Concentrations by Depth, Investigation Area 10
(Plant Entrance Area)**



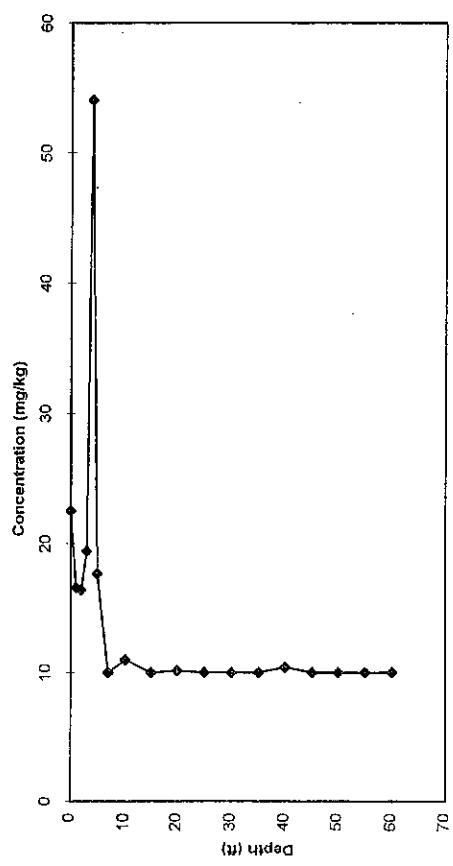
Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Concentrations by Depth, Investigation Area 11
(Southern Arroyo Area)

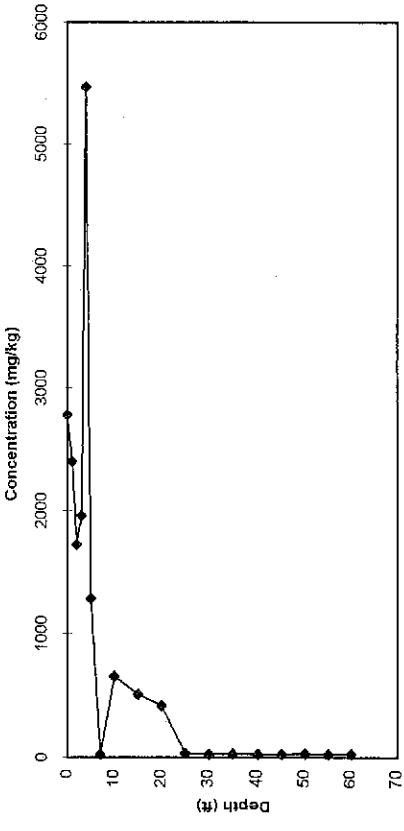
Zinc



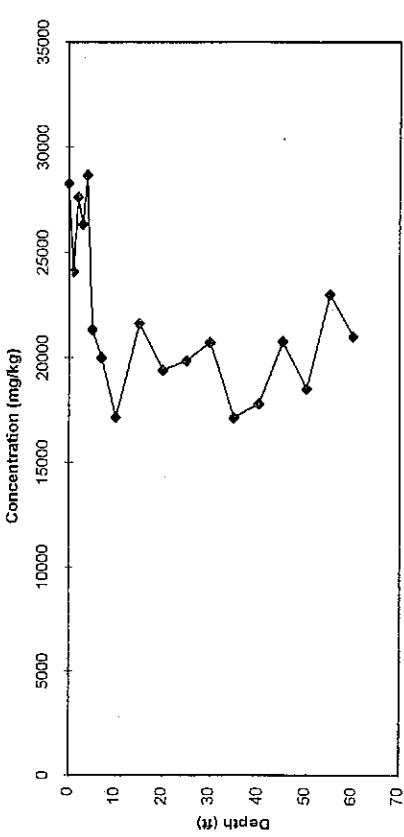
Selenium



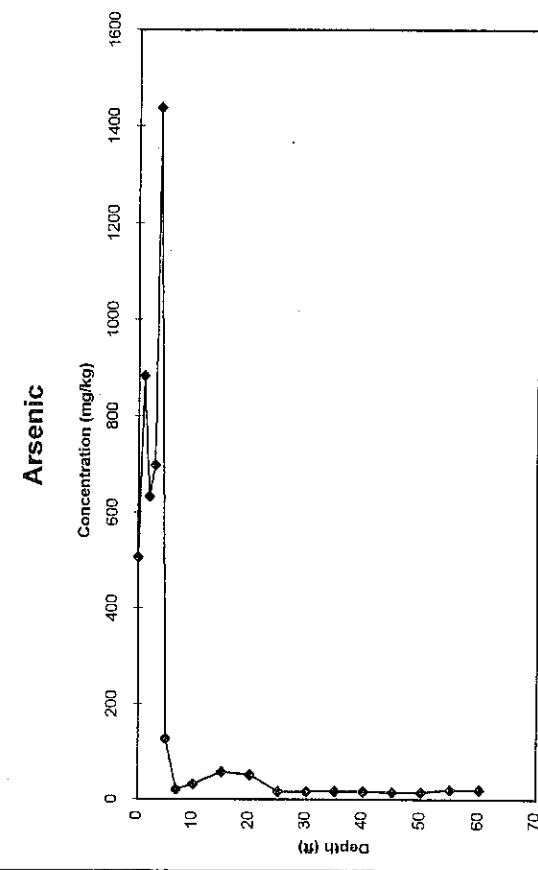
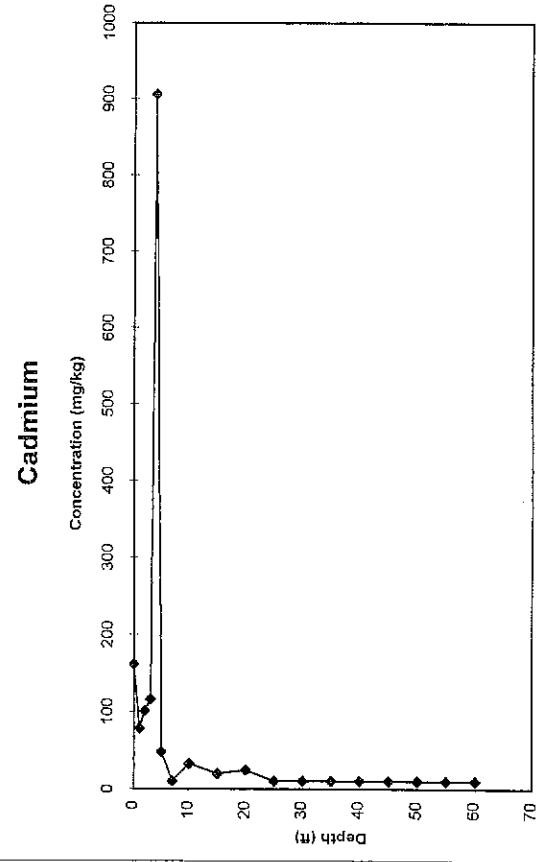
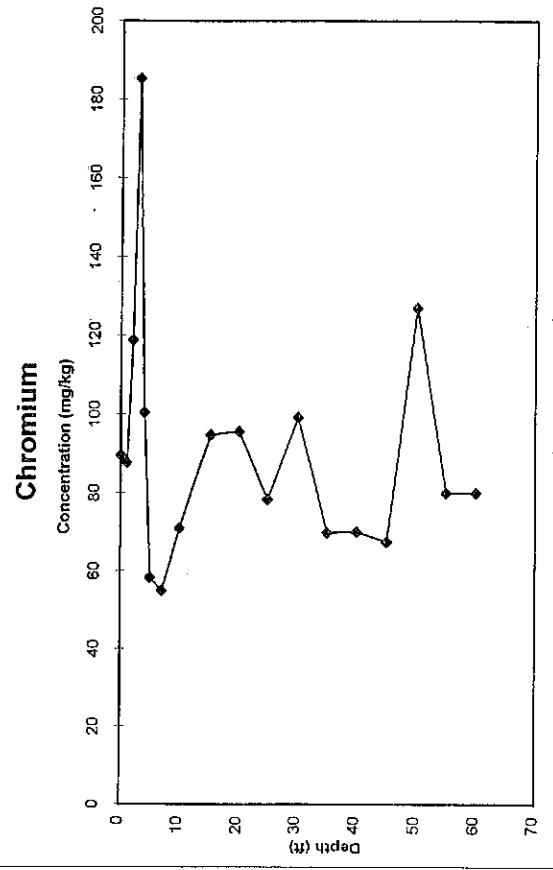
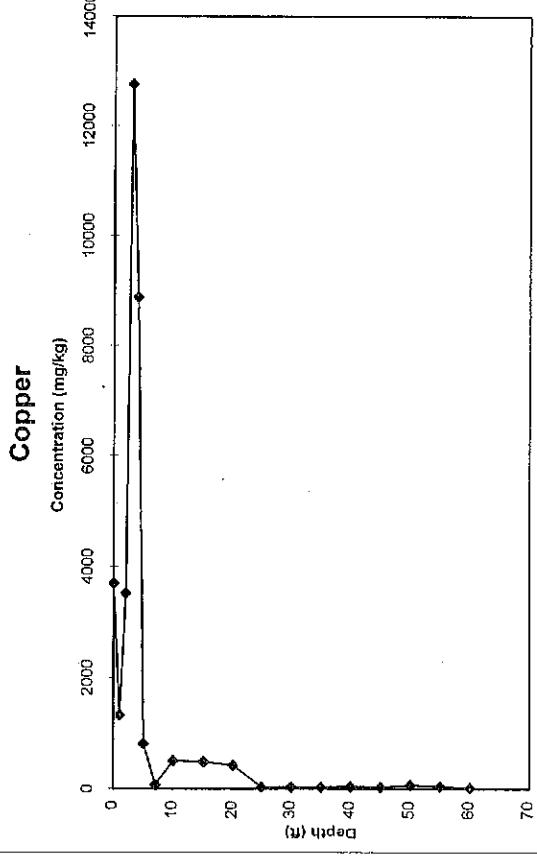
Lead



Iron



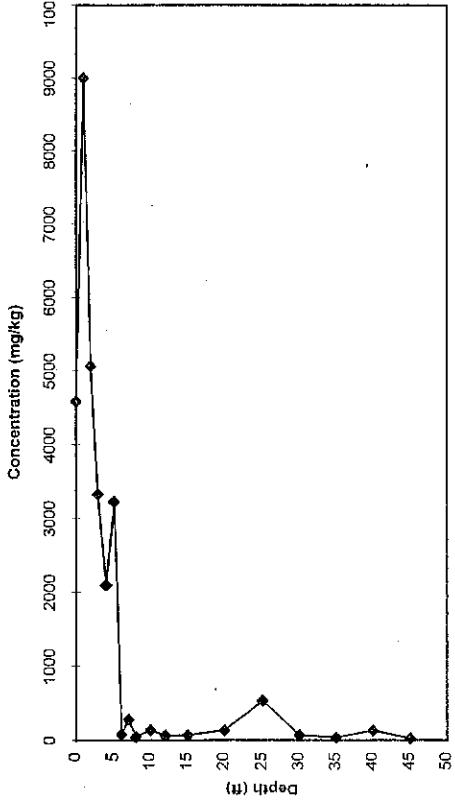
Average Concentrations by Depth, Investigation Area 11
(Southern Arroyo Area)



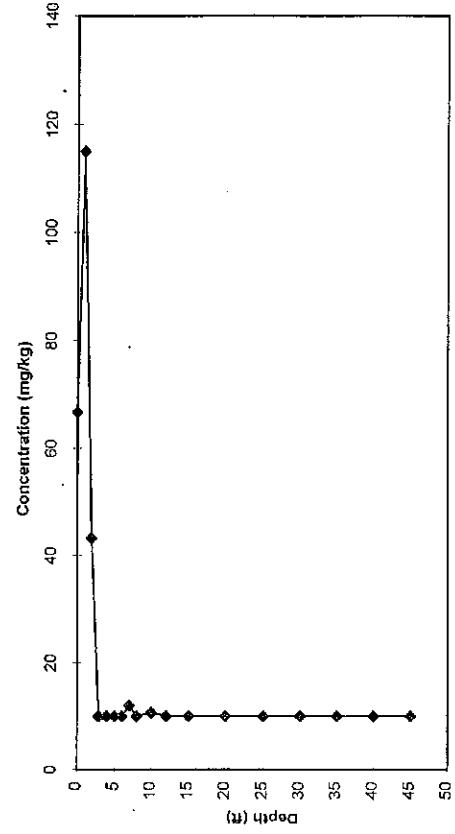
Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Soil Concentrations by Depth, Investigation Area 12
(Ephemeral Pond and Pond Sediment Storage Area)

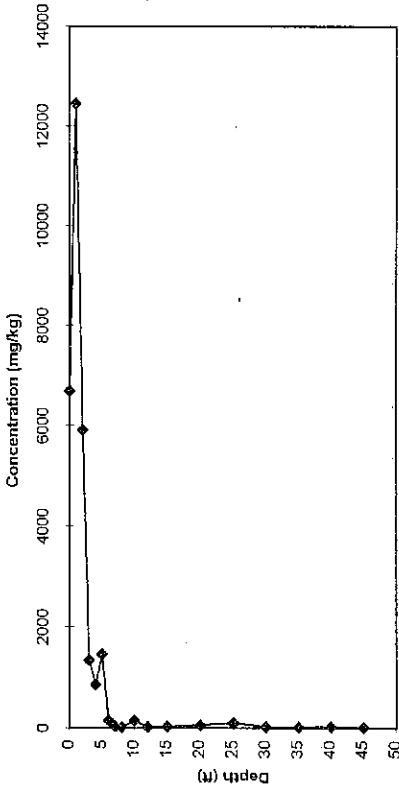
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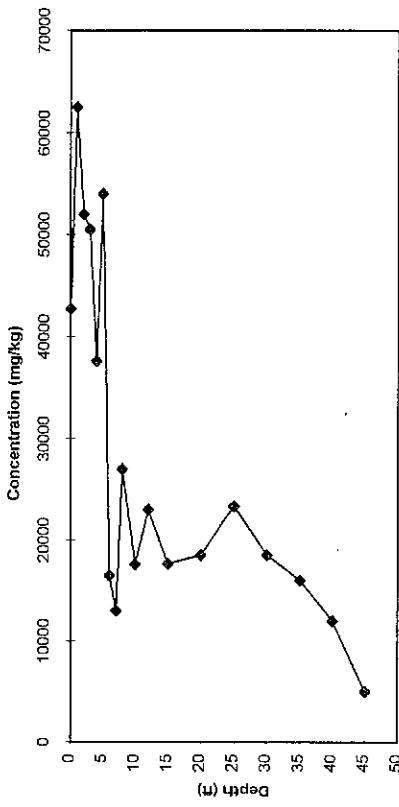
Selenium



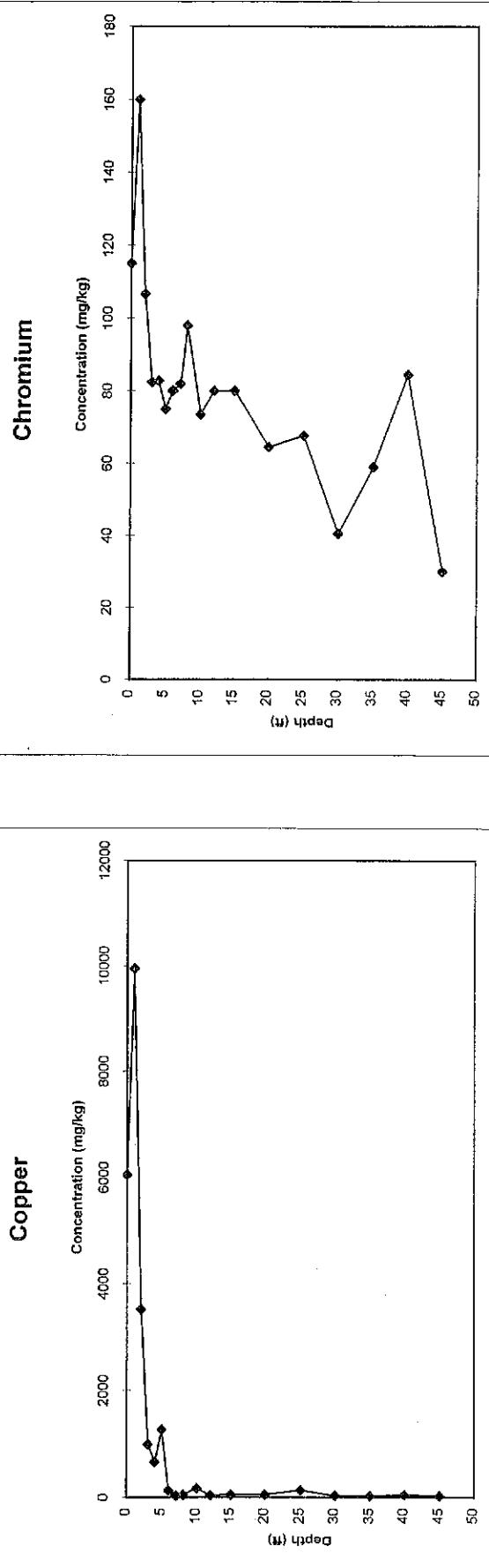
Lead



Iron

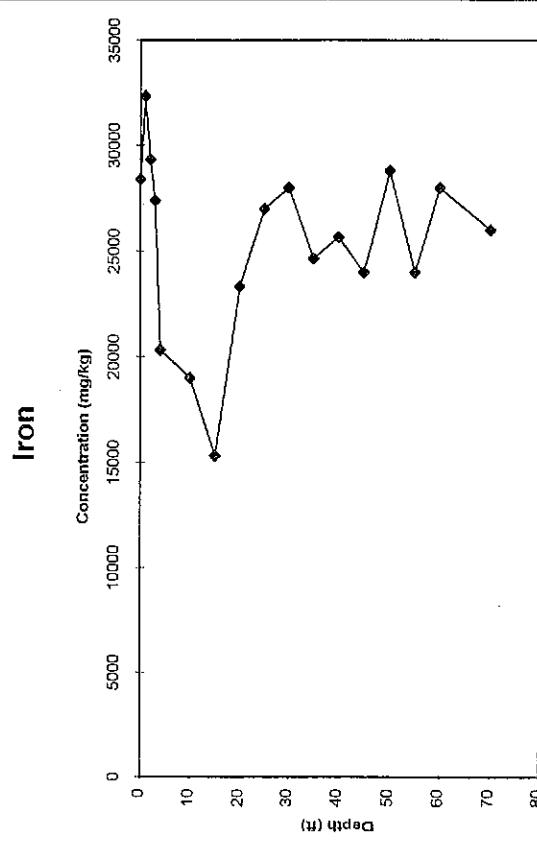
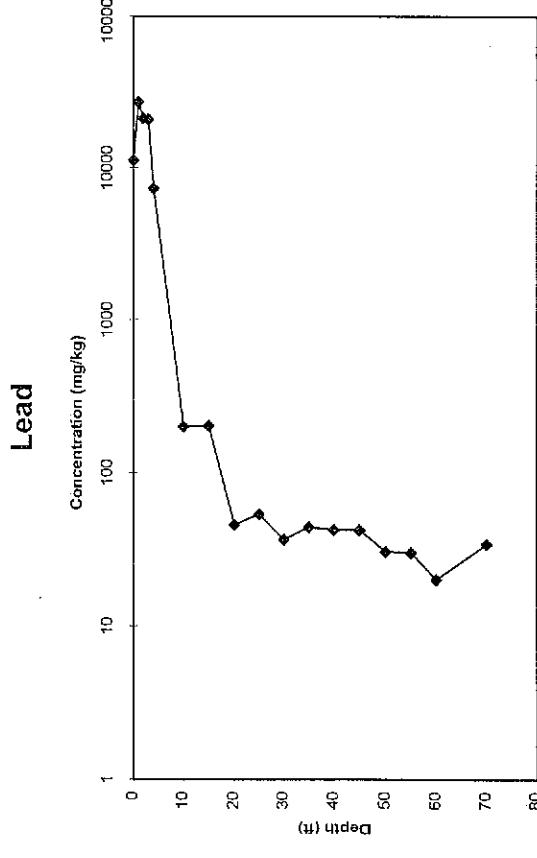
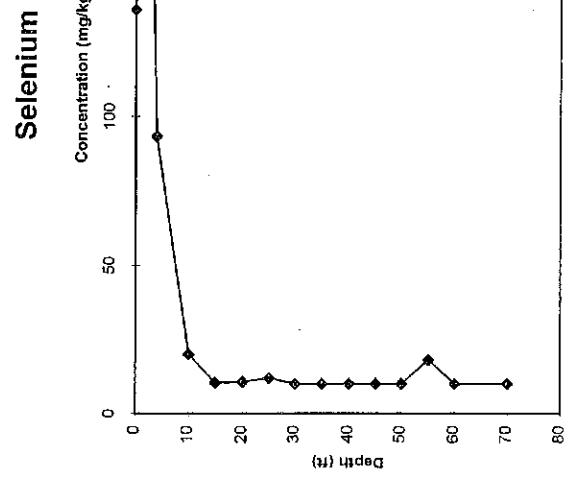
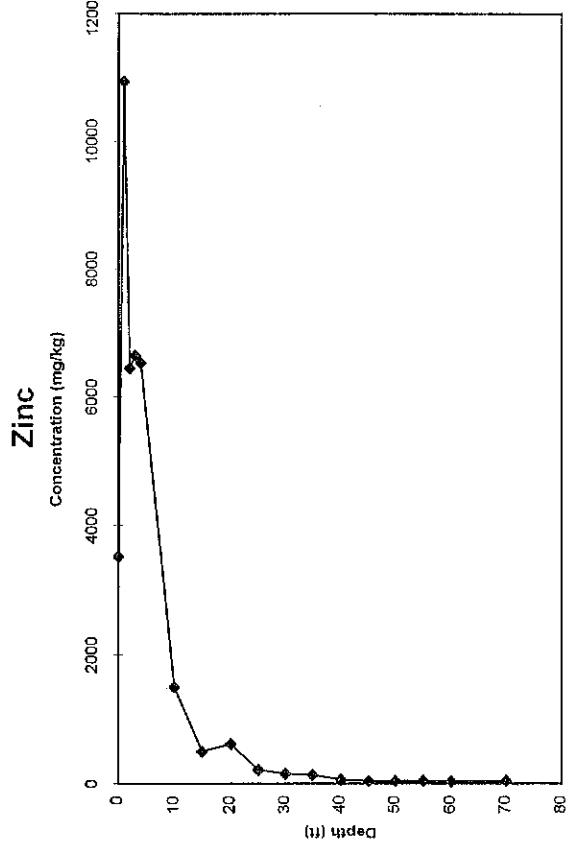


Average Soil Concentrations by Depth, Investigation Area 12
 (Ephemeral Pond and Pond Sediment Storage Area)



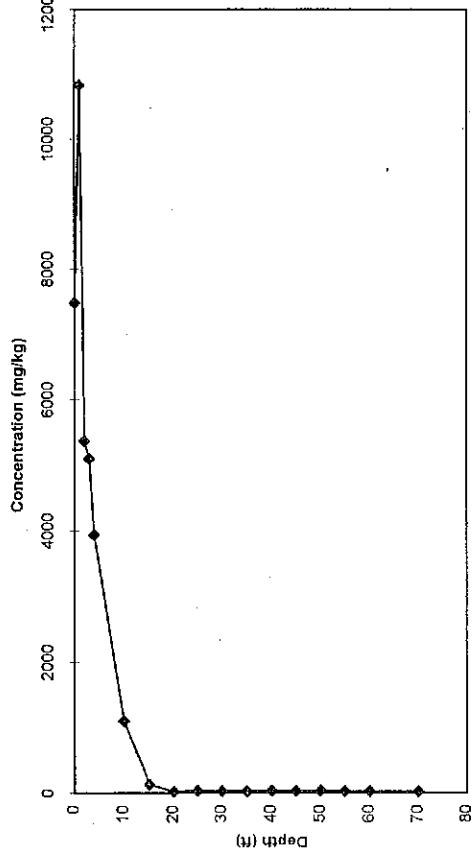
Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Concentrations by Depth, Investigation Area 13
(Sample Mill Area)

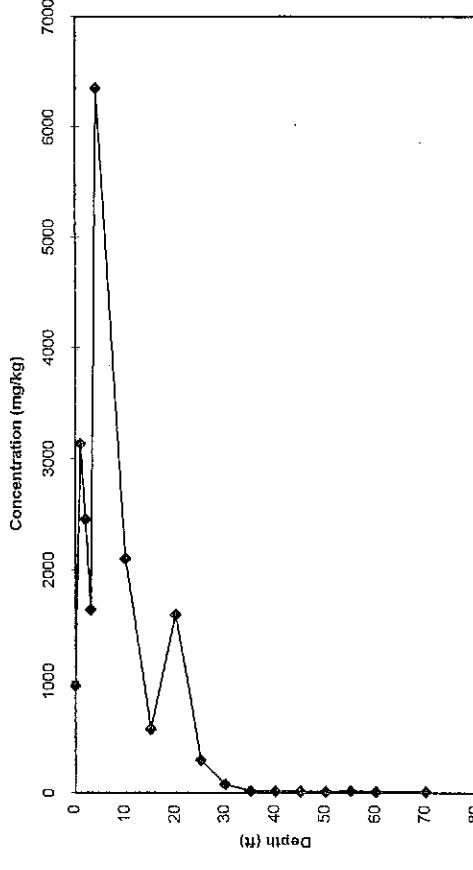


Average Concentrations by Depth, Investigation Area 13
(Sample Mill Area)

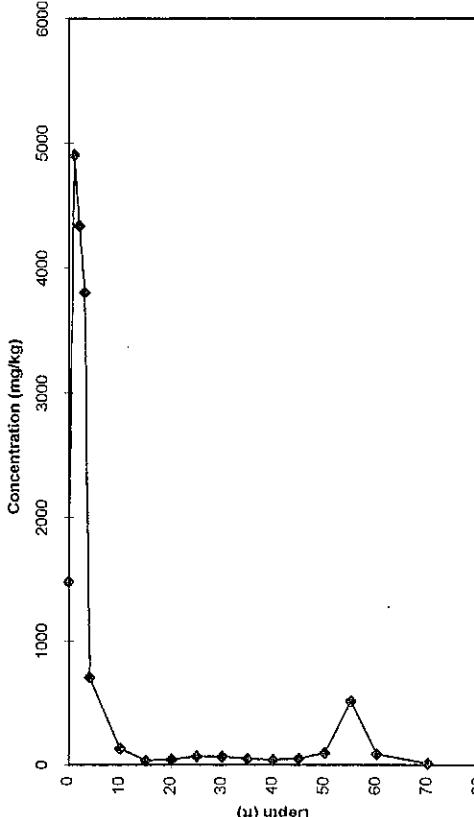
Copper



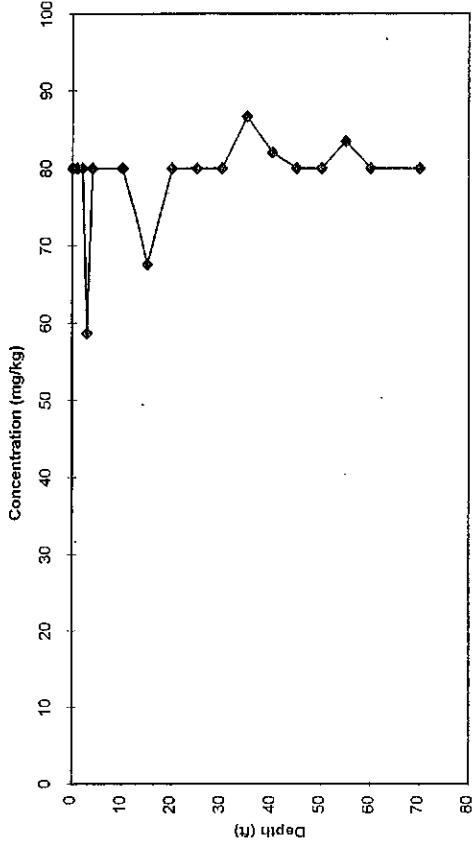
Cadmium



Arsenic

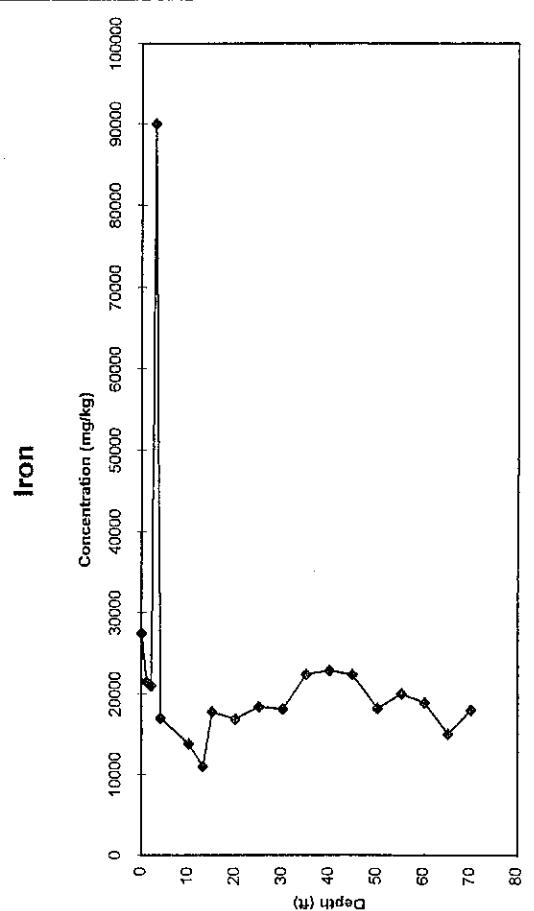
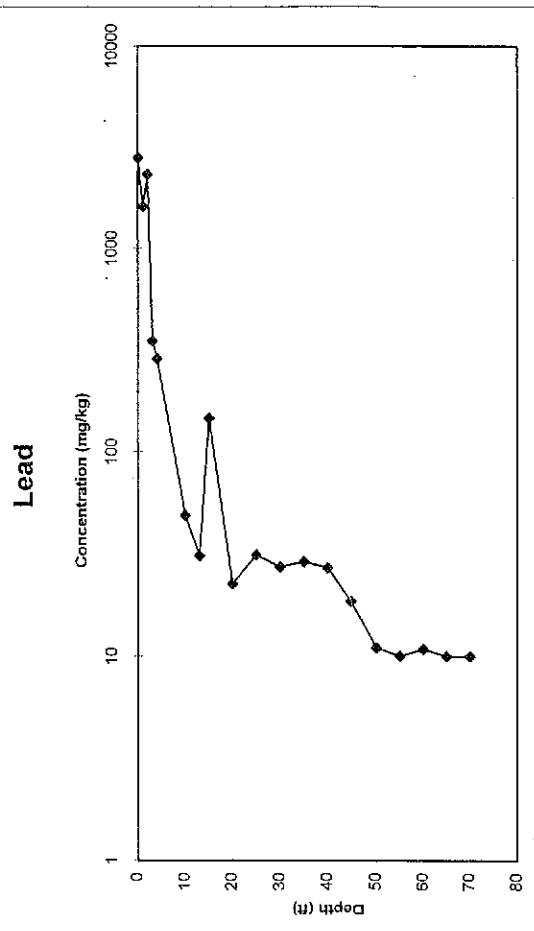
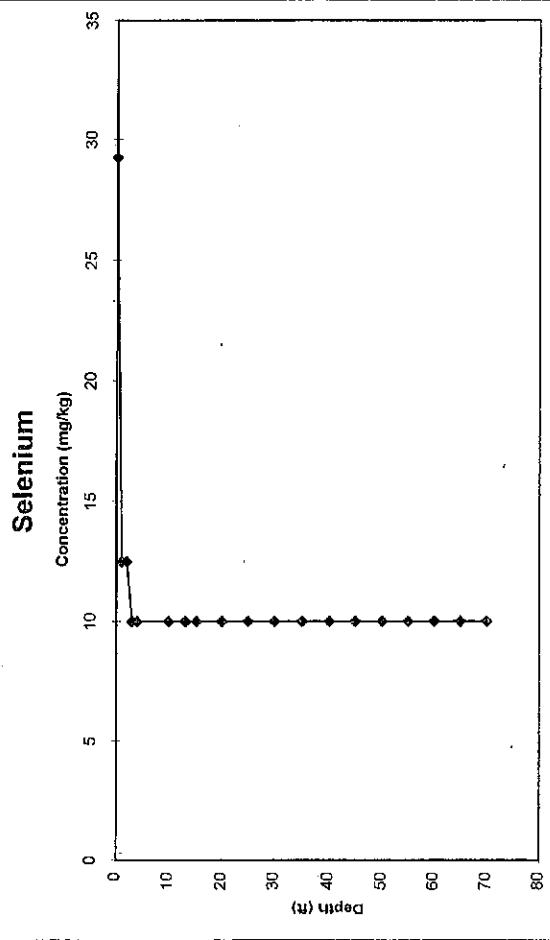
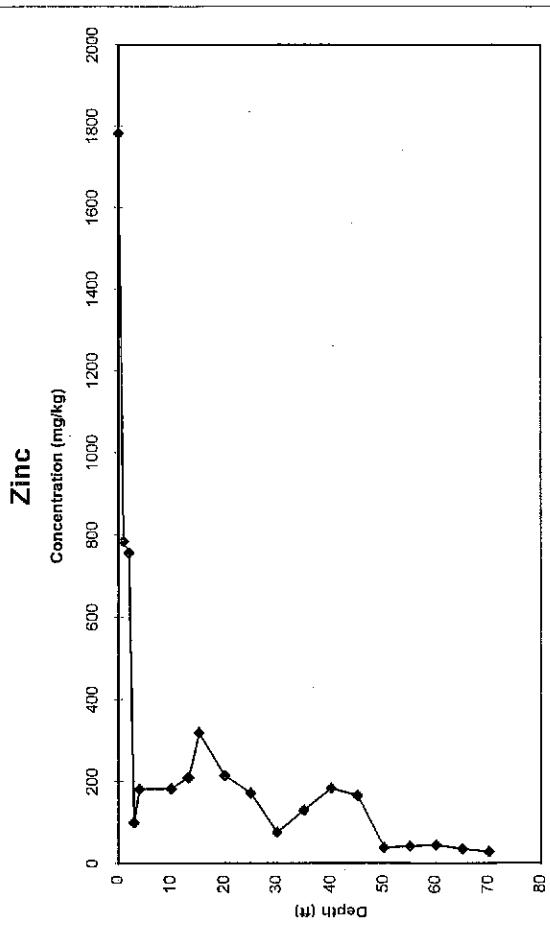


Chromium



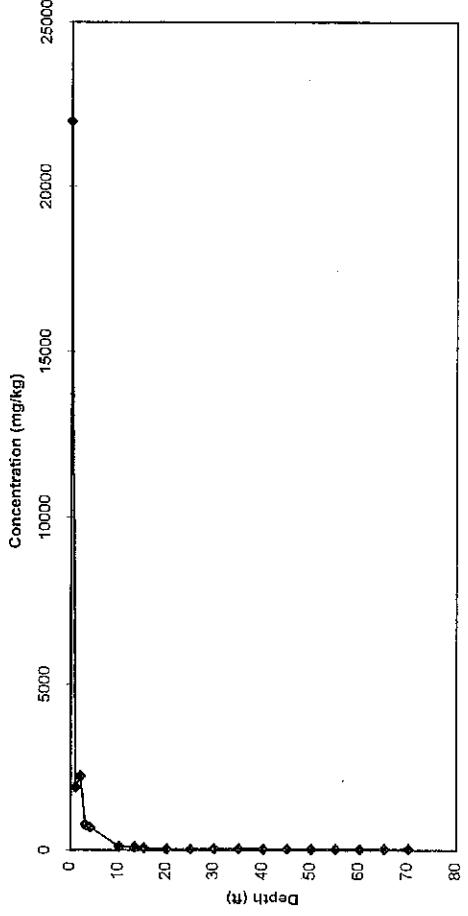
Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Concentrations by Depth, Investigation Area 14
(South Staging Area)

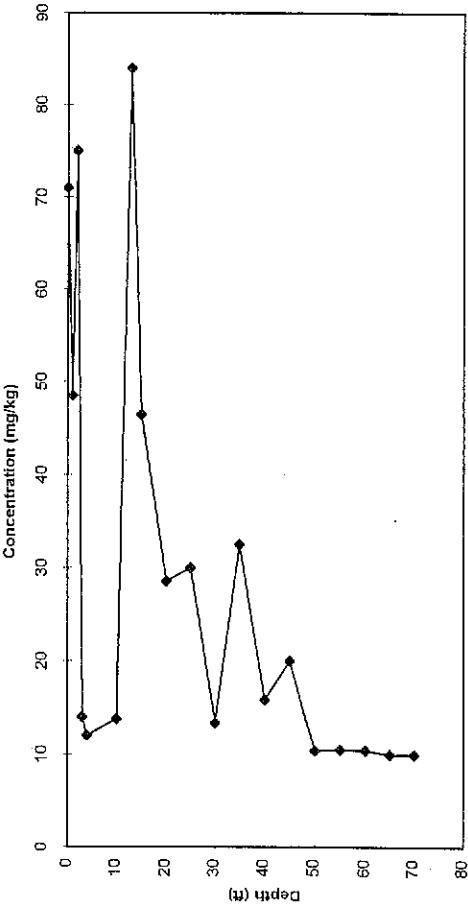


Average Concentrations by Depth, Investigation Area 14
(South Staging Area)

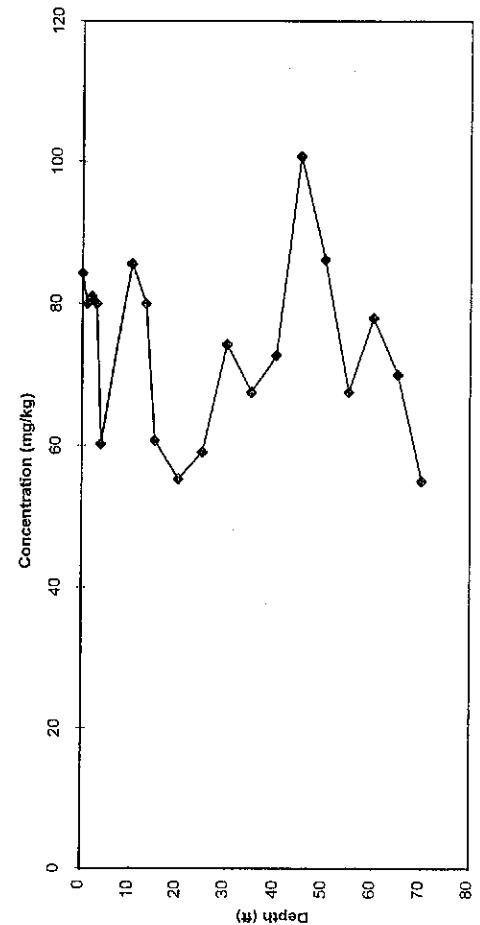
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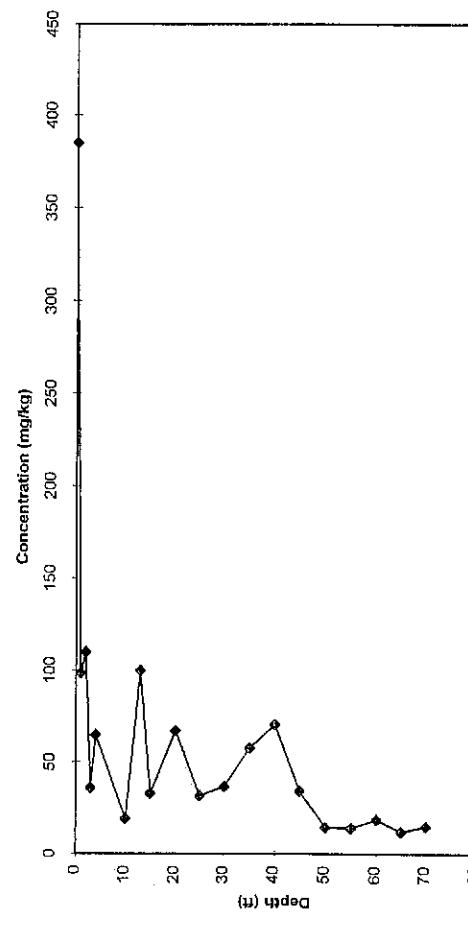
Cadmium



Chromium



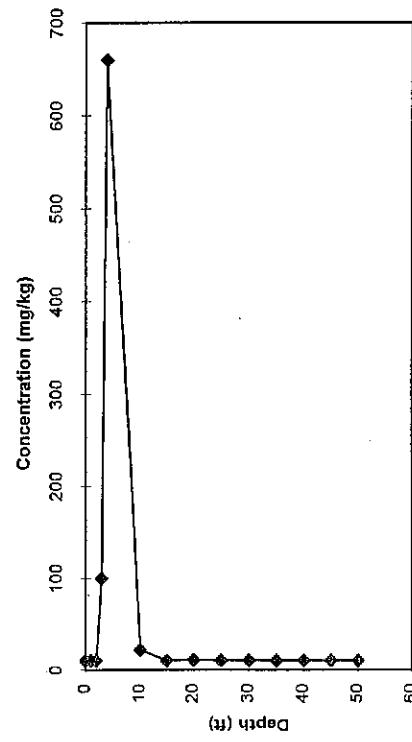
Arsenic



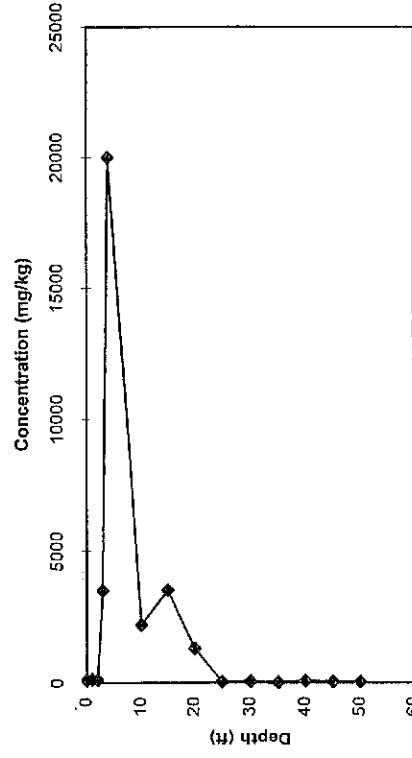
Note: Graphs include soil concentrations for all Phase I and Phase II borings and monitor wells.

Average Soil Concentrations by Depth, EP-93

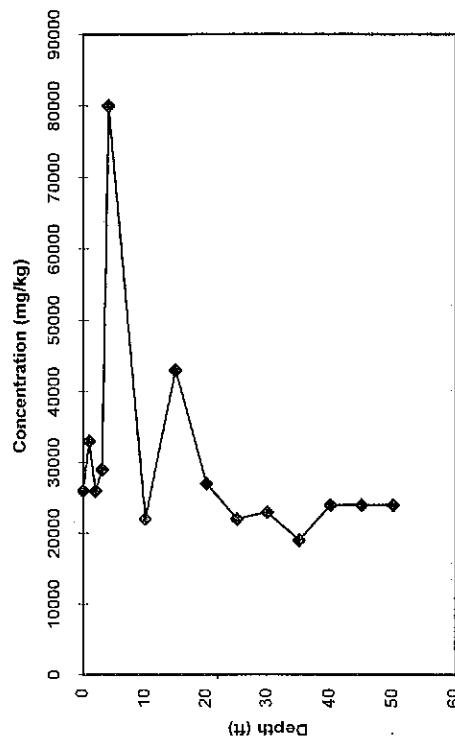
Selenium



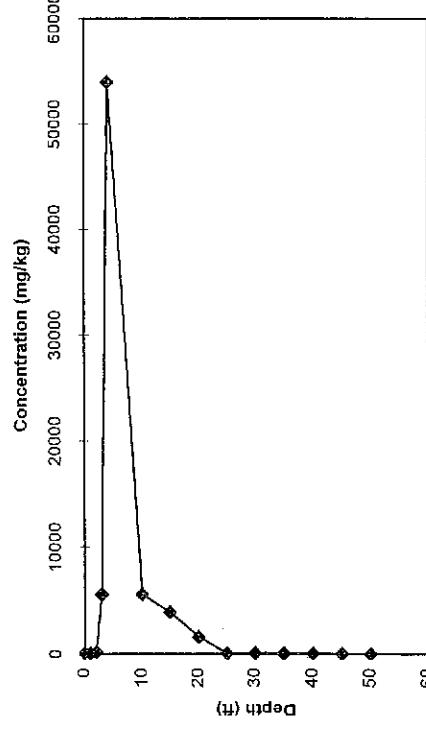
Zinc



Iron

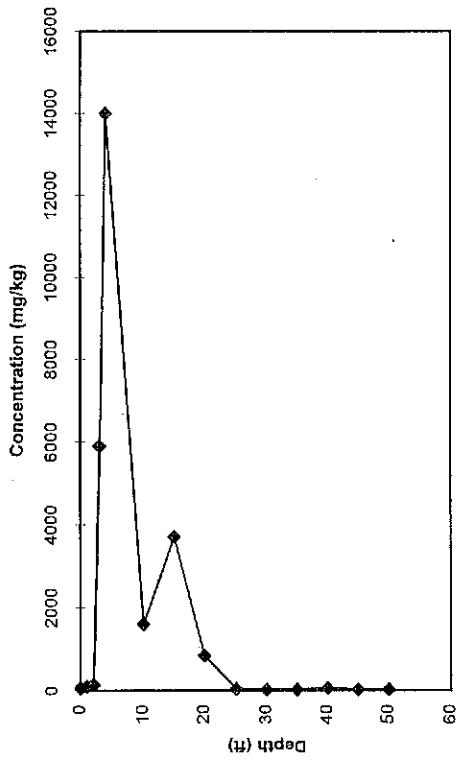


Lead

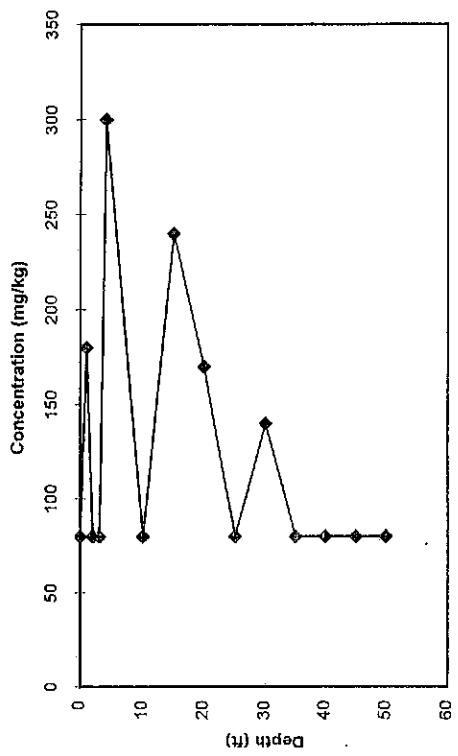


Average Soil Concentrations by Depth, EP-93

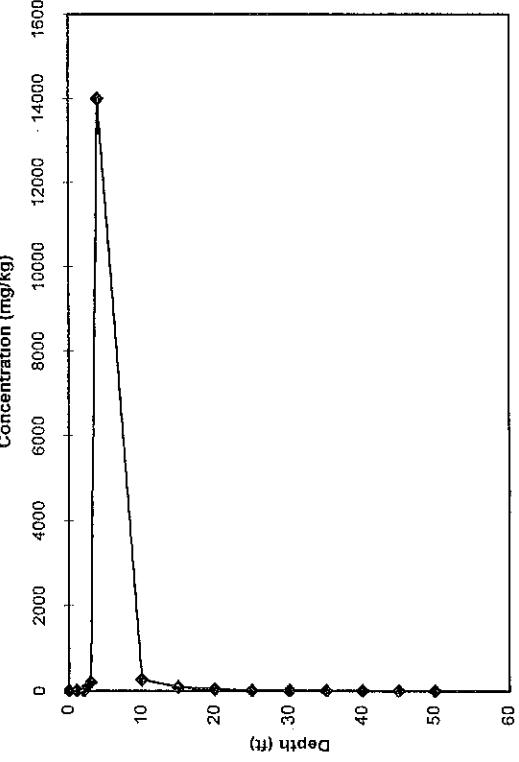
Copper



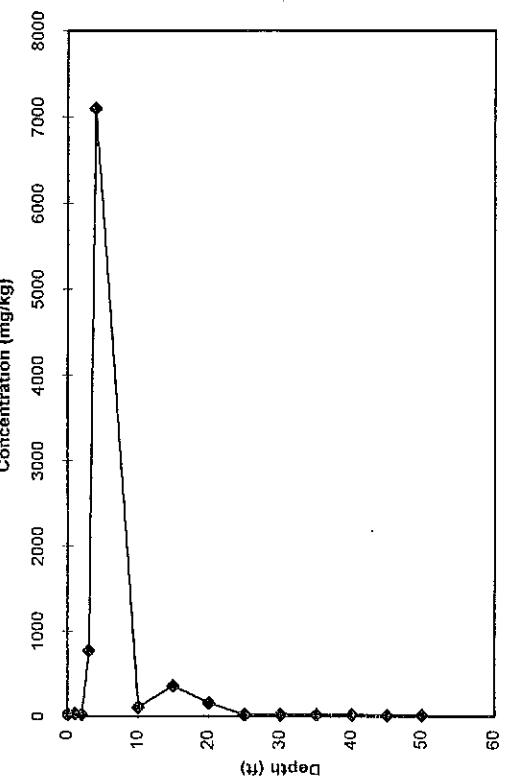
Chromium



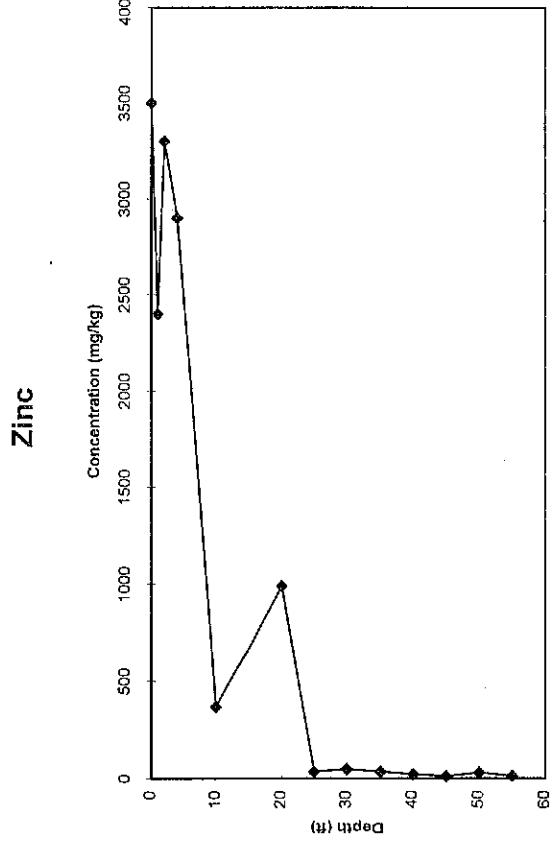
Cadmium



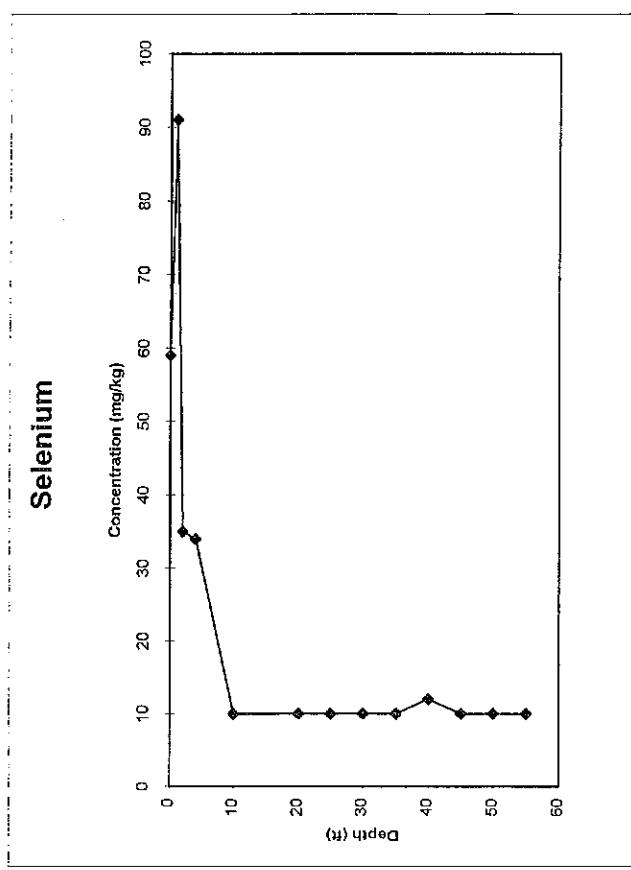
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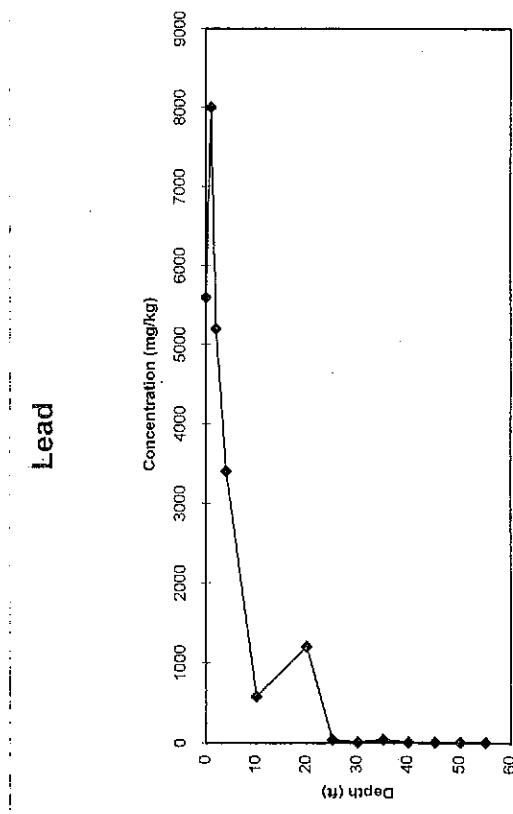
Average Soil Concentrations by Depth, EP-94



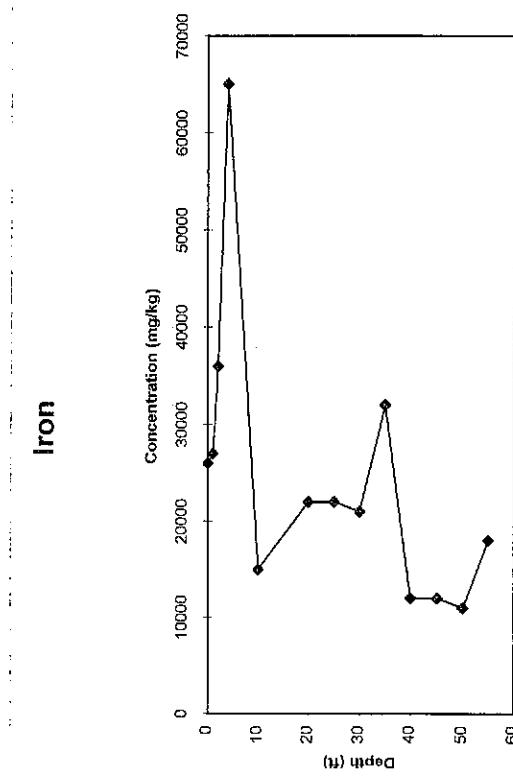
Selenium



Lead

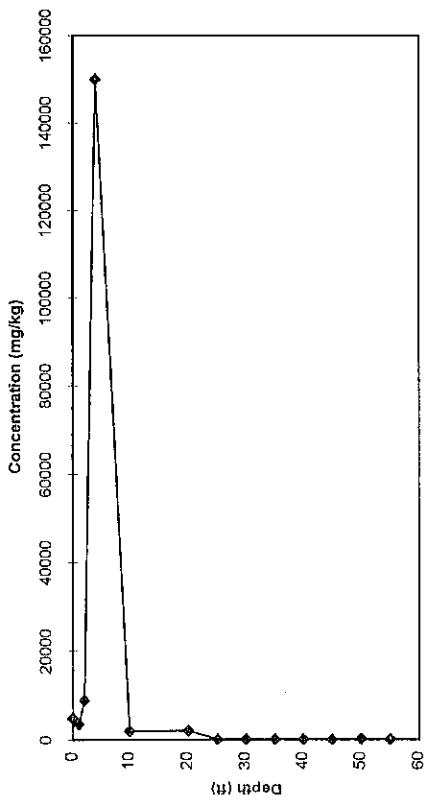


Iron

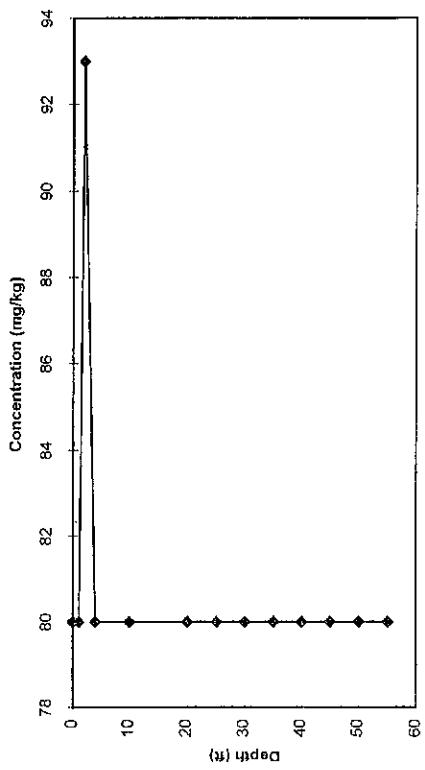


Average Soil Concentrations by Depth, EP-94

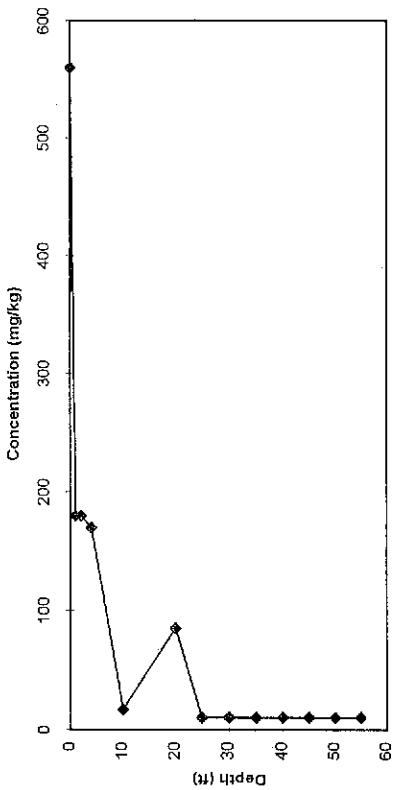
Copper



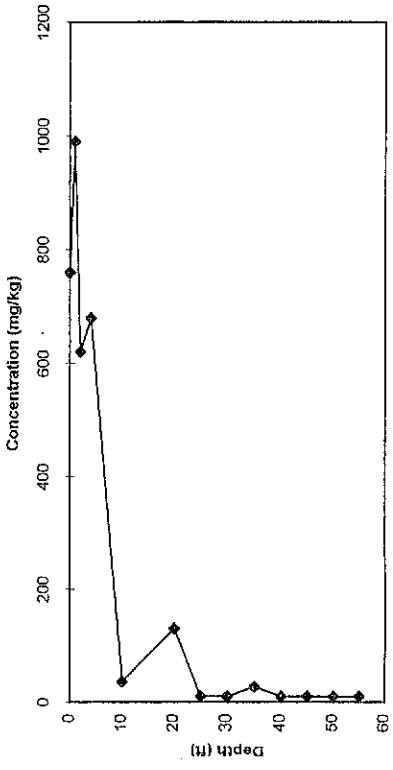
Chromium



Cadmium

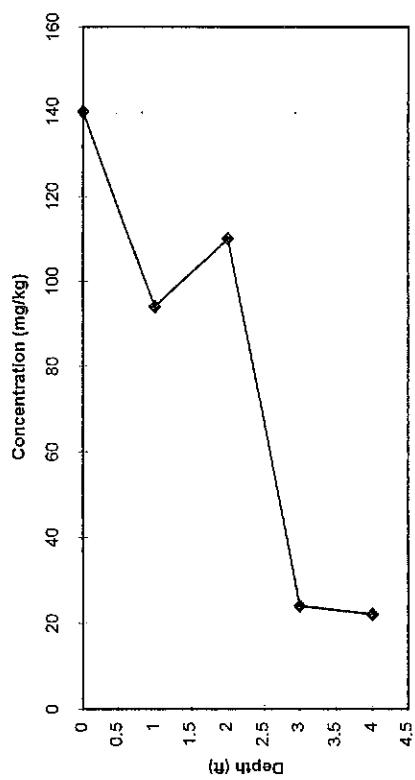


Arsenic

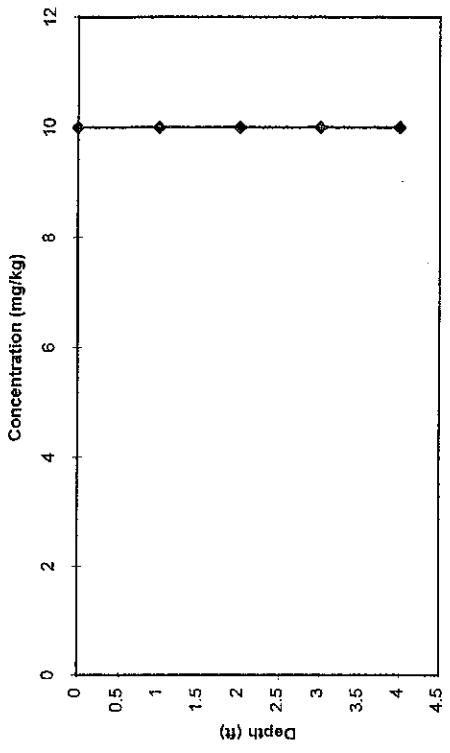


Average Soil Concentrations by Depth, EP-95

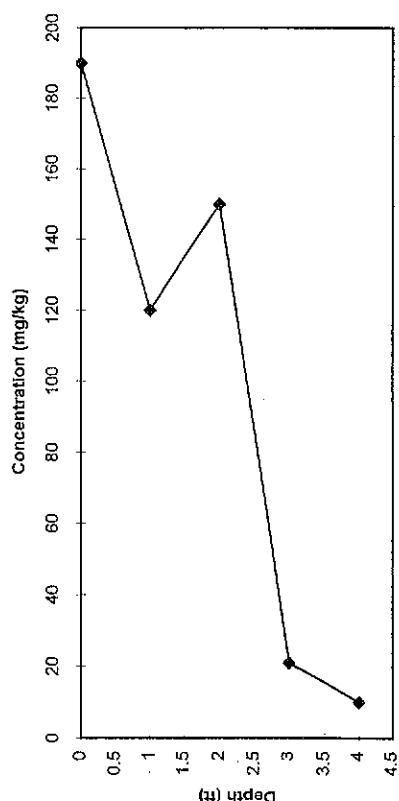
Zinc



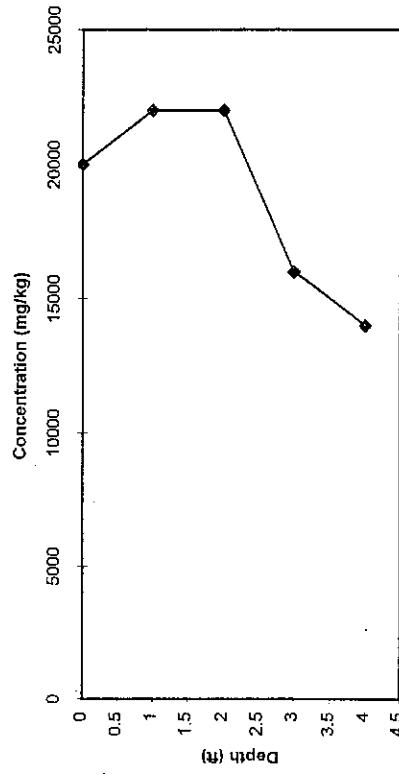
Selenium



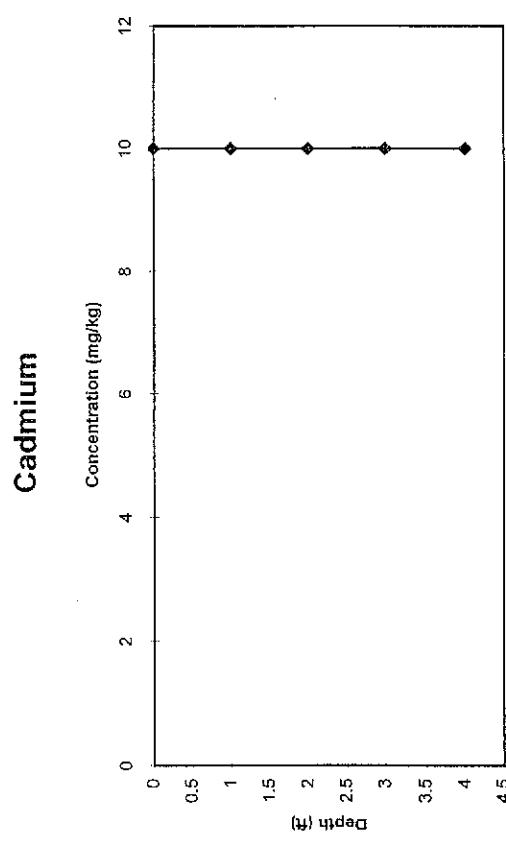
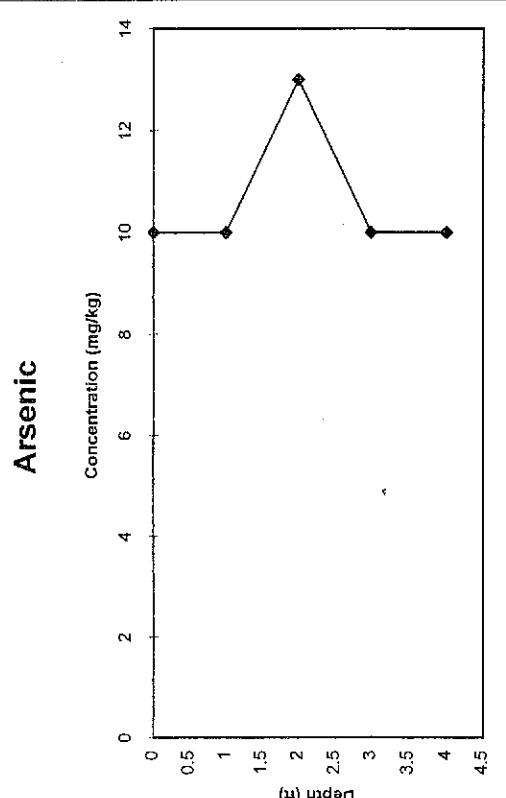
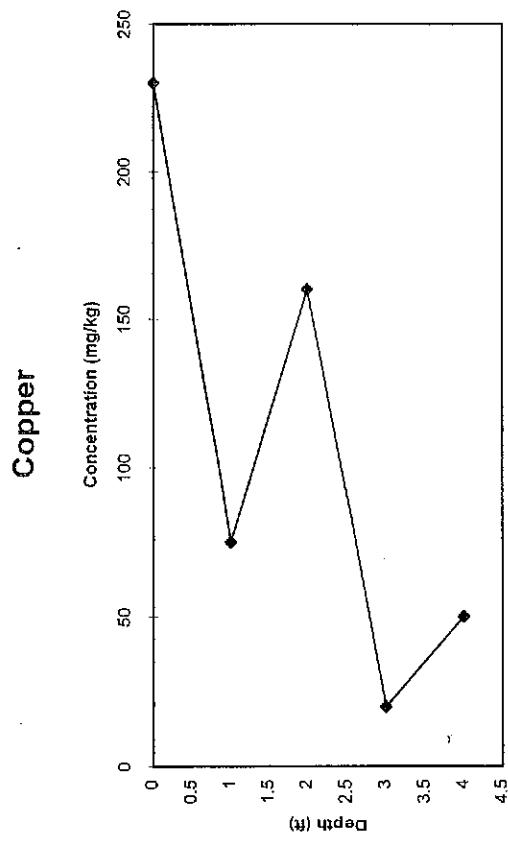
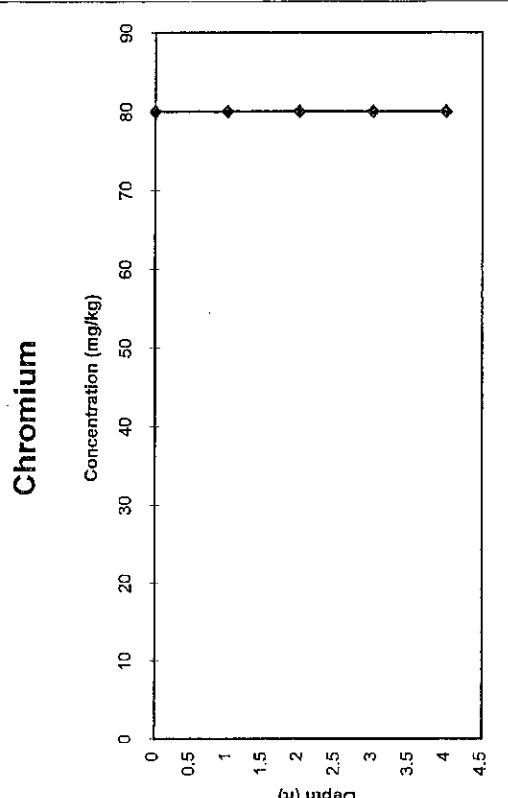
Lead



Iron

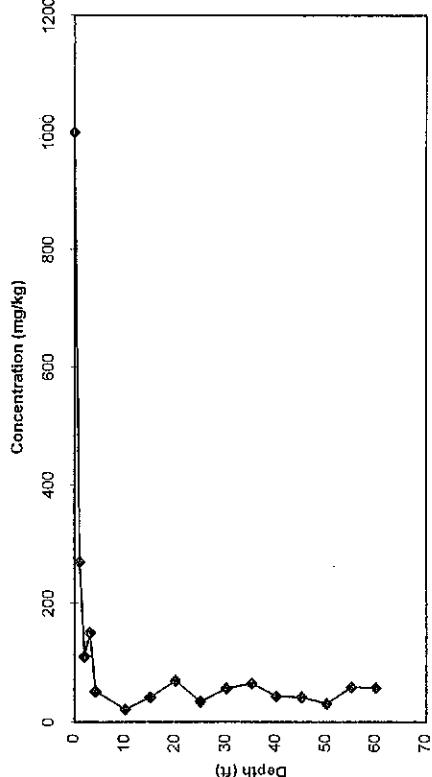


Average Soil Concentrations by Depth, EP-95

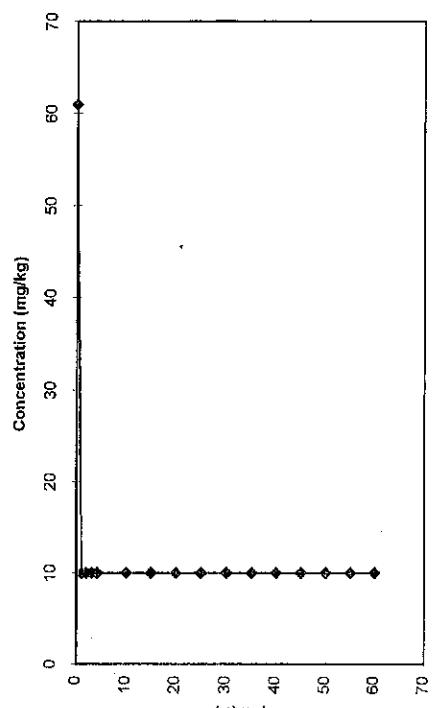


Average Soil Concentrations by Depth, EP-96

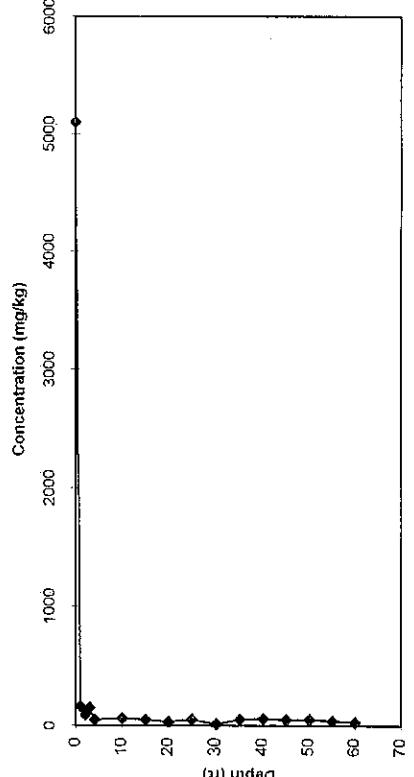
Zinc



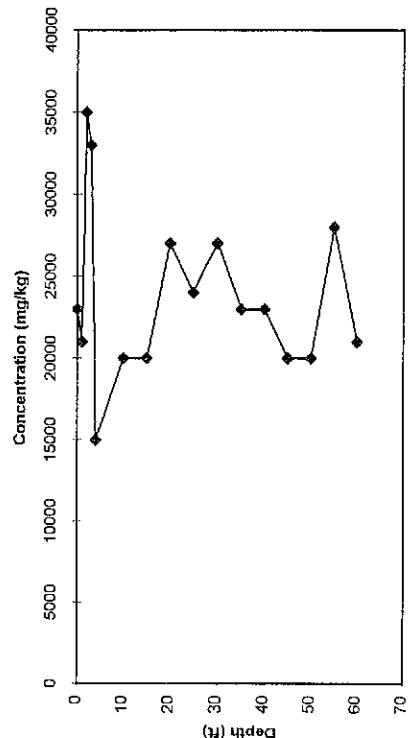
Selenium



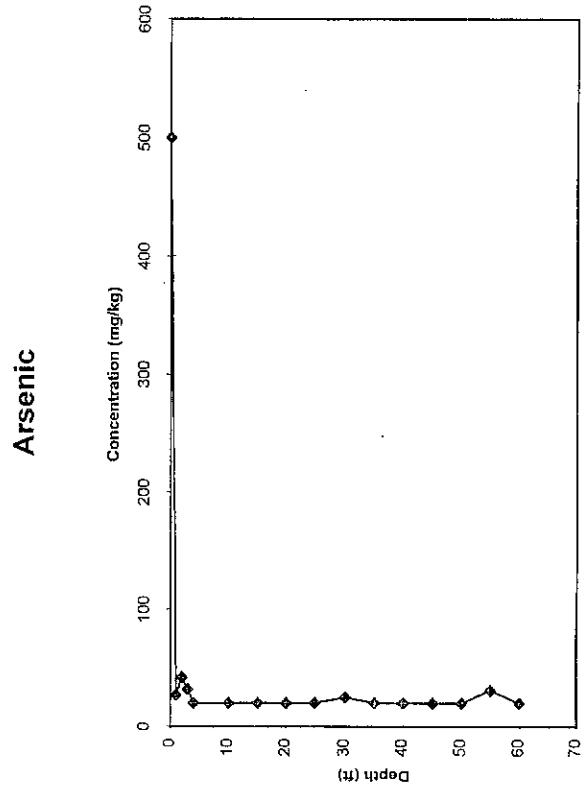
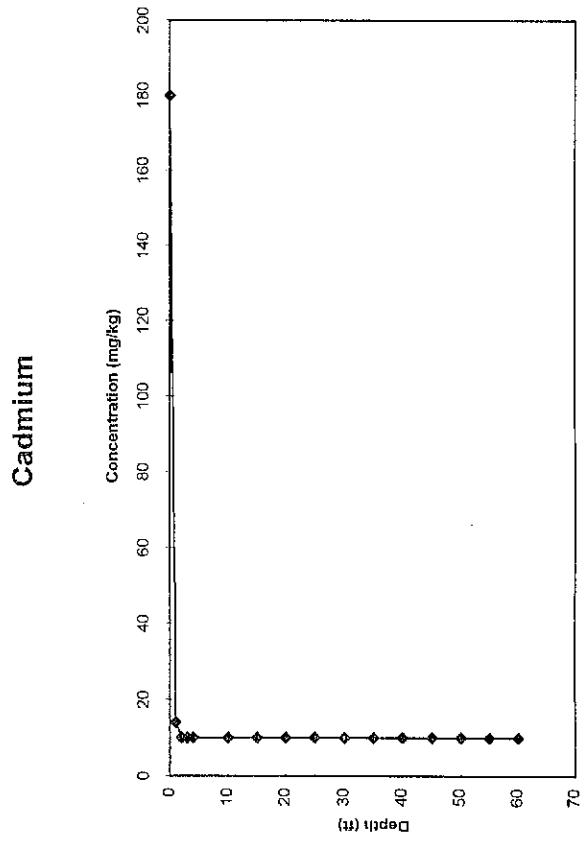
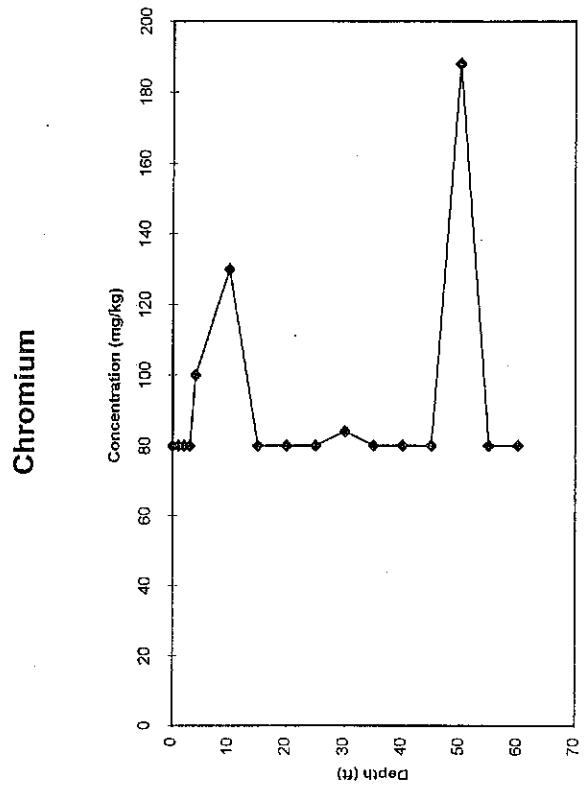
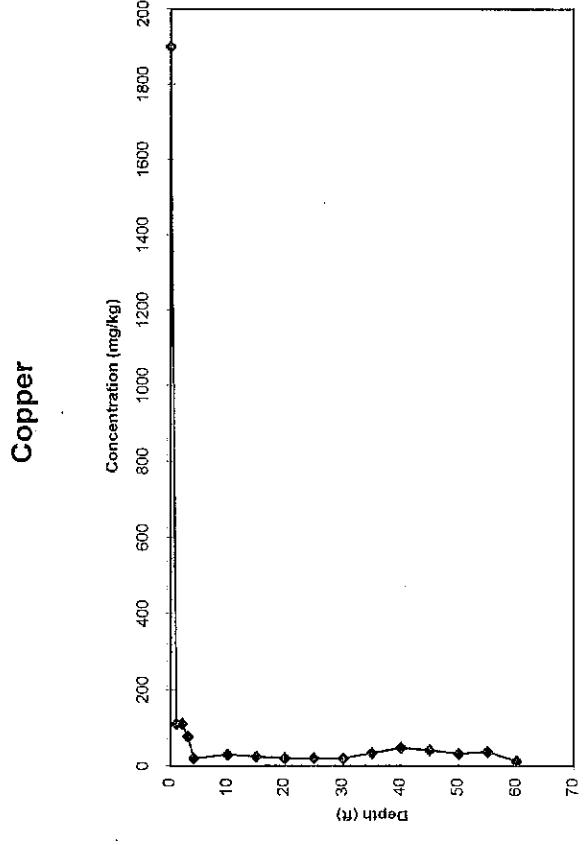
Lead



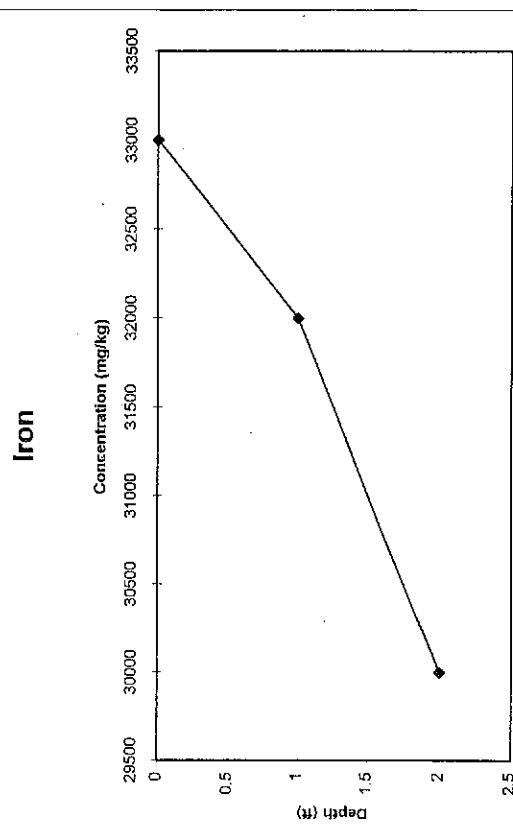
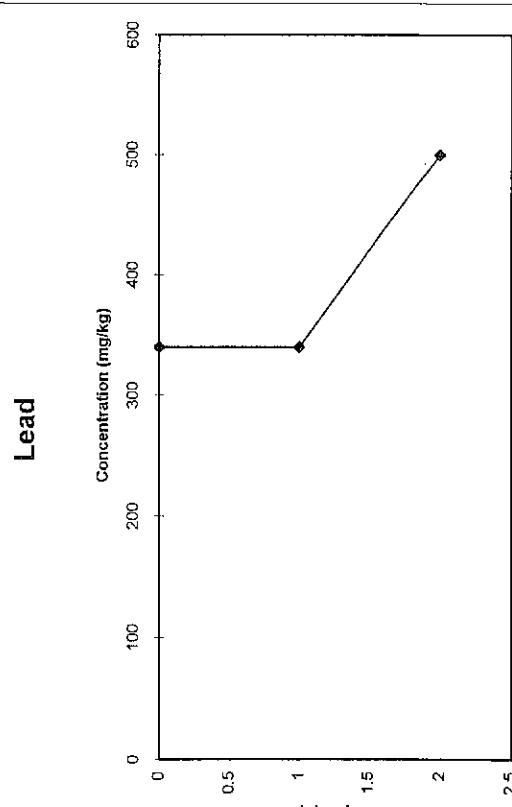
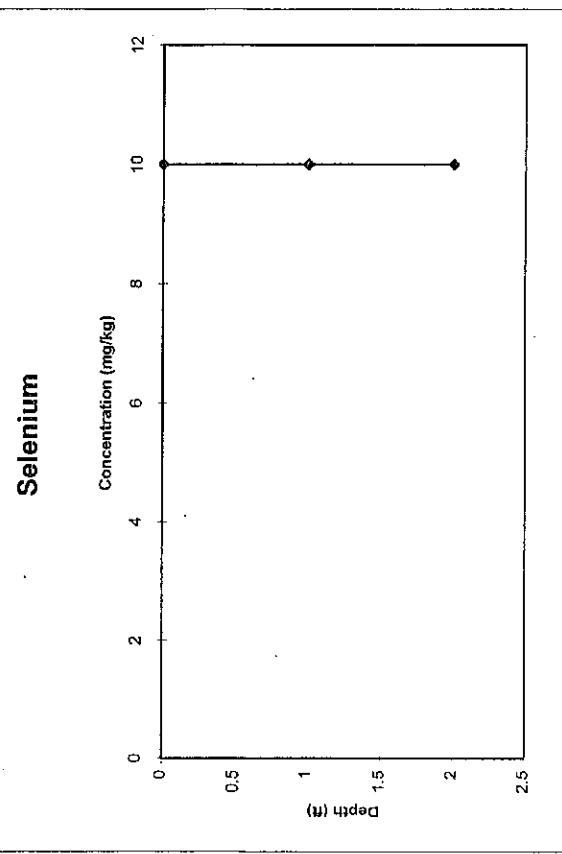
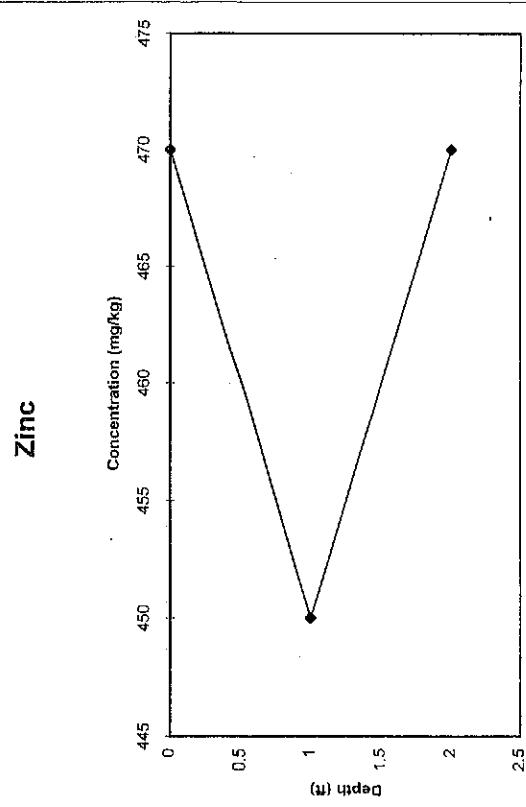
Iron



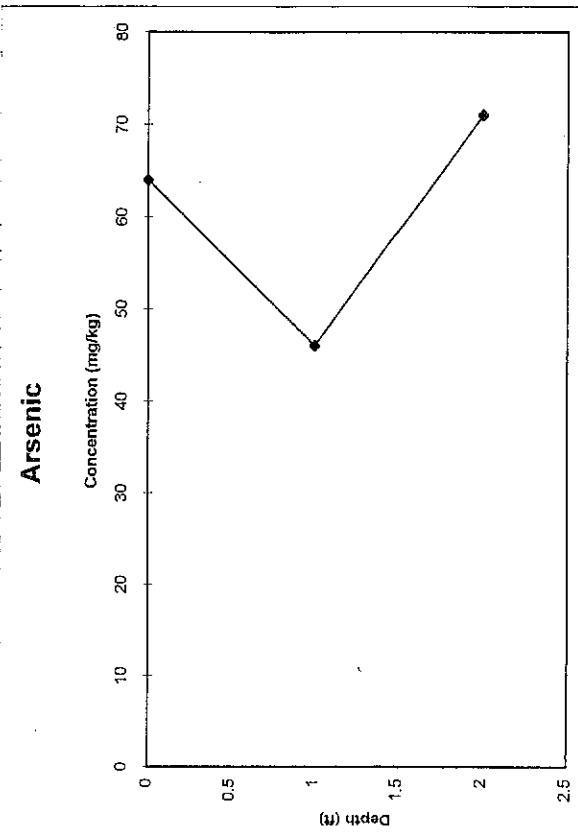
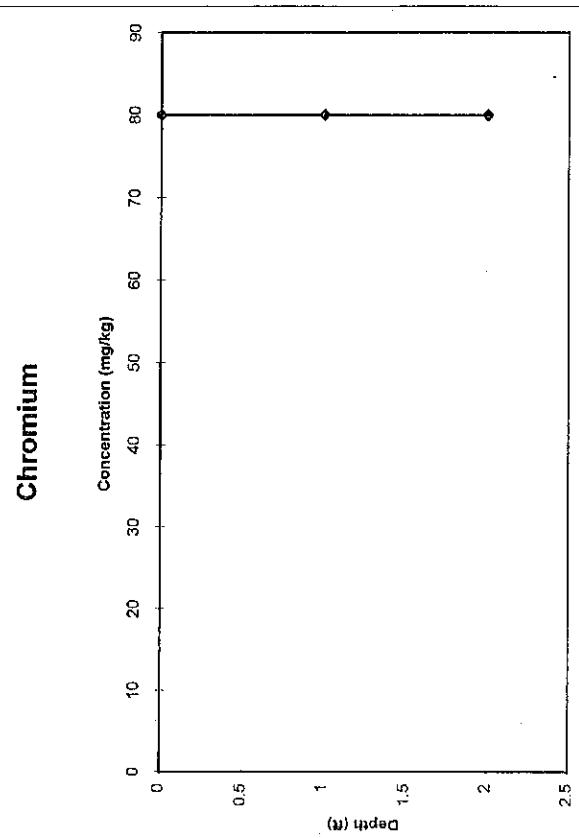
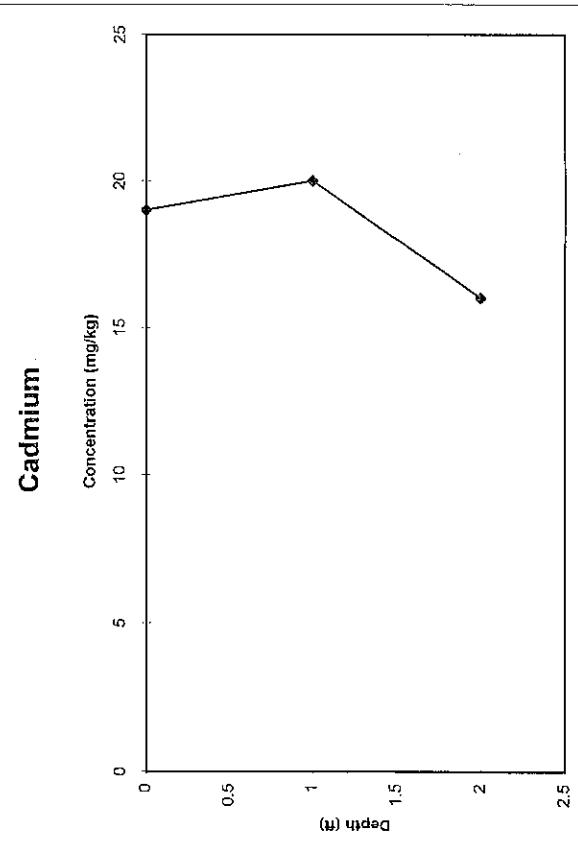
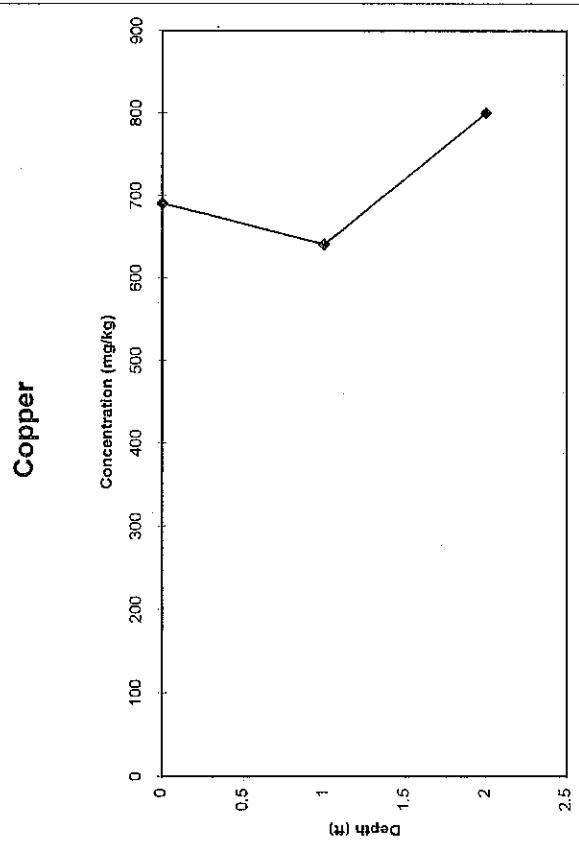
Average Soil Concentrations by Depth, EP-96



Average Soil Concentrations by Depth, EP-97

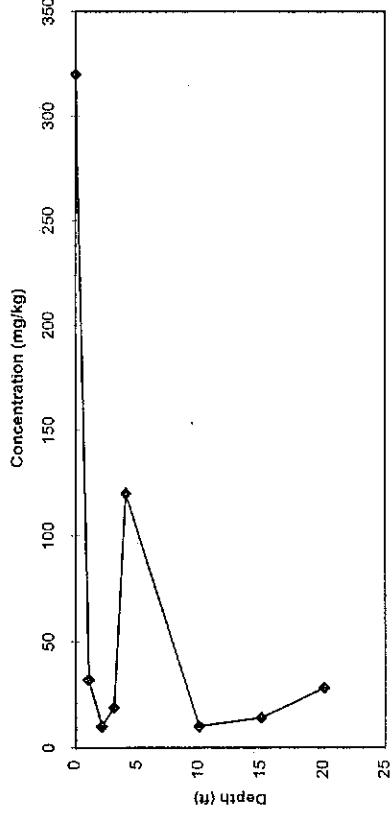


Average Soil Concentrations by Depth, EP-97

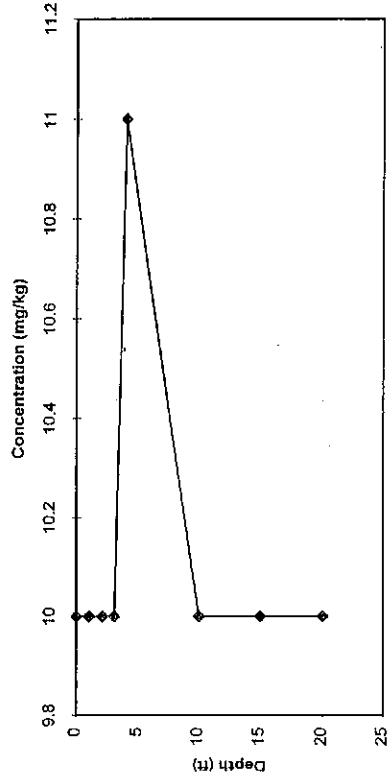


Average Soil Concentrations by Depth, EP-98

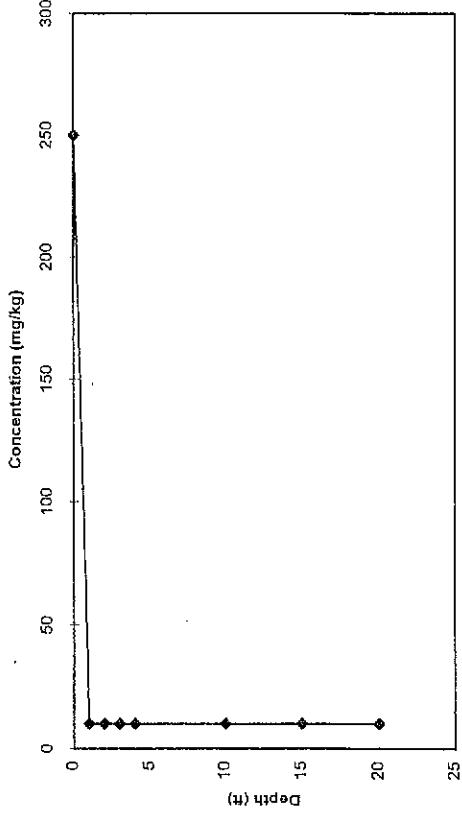
Zinc



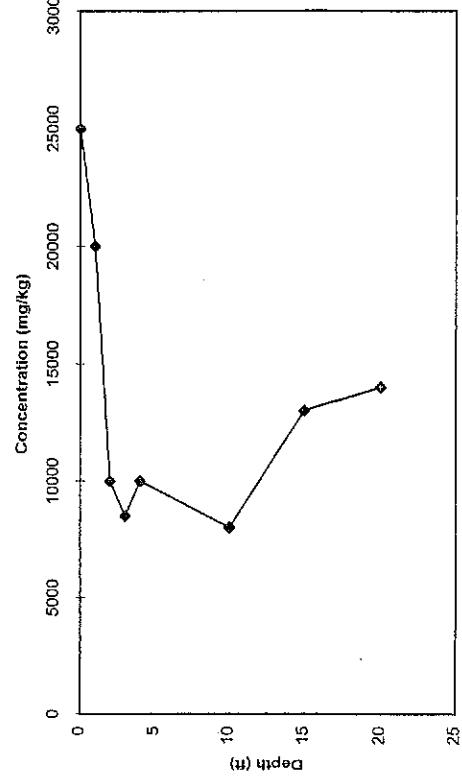
Selenium



Lead

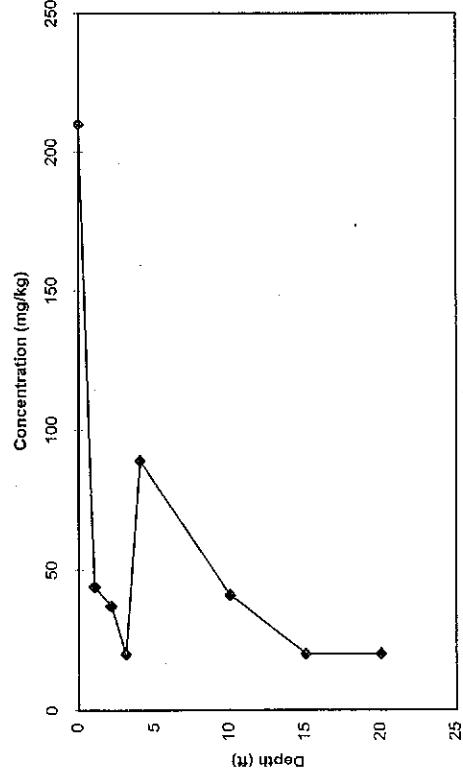


Iron

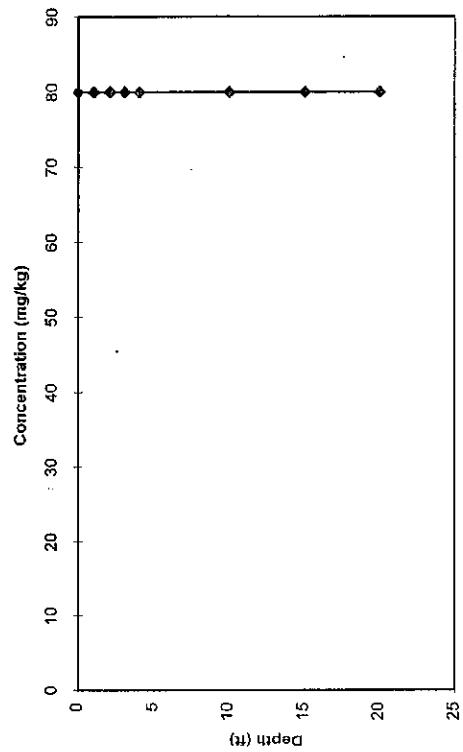


Average Soil Concentrations by Depth, EP-98

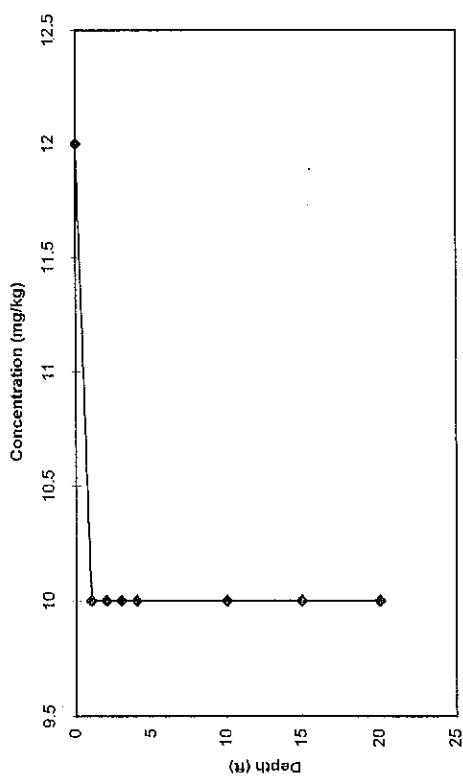
Copper



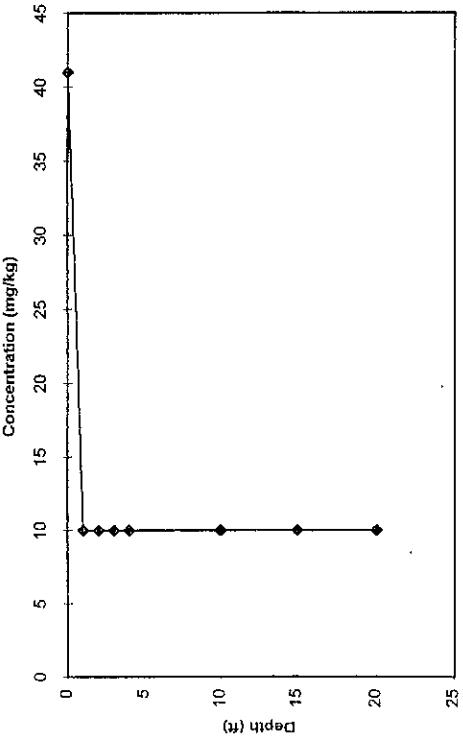
Chromium



Cadmium

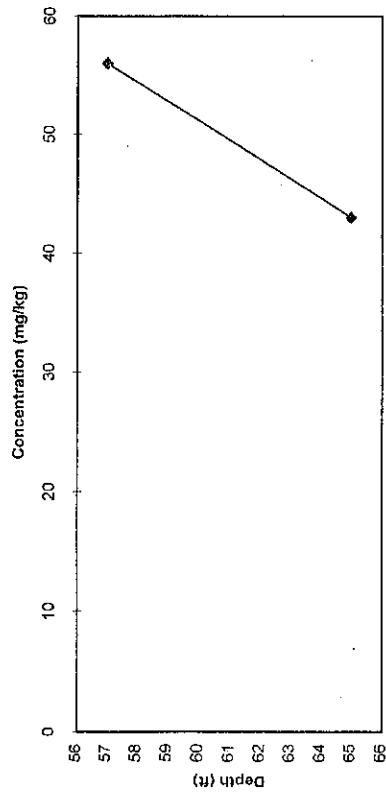


Arsenic

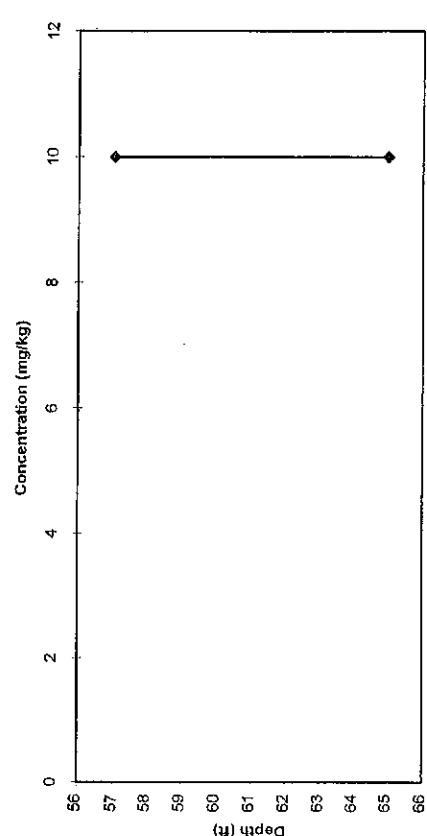


Average Soil Concentrations by Depth, EP-99

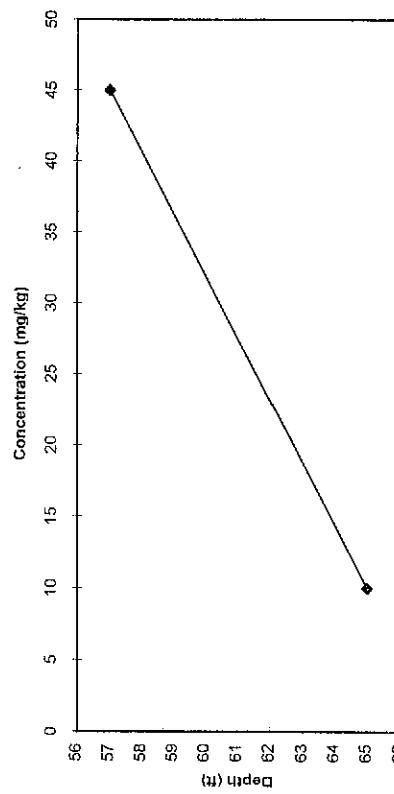
Zinc



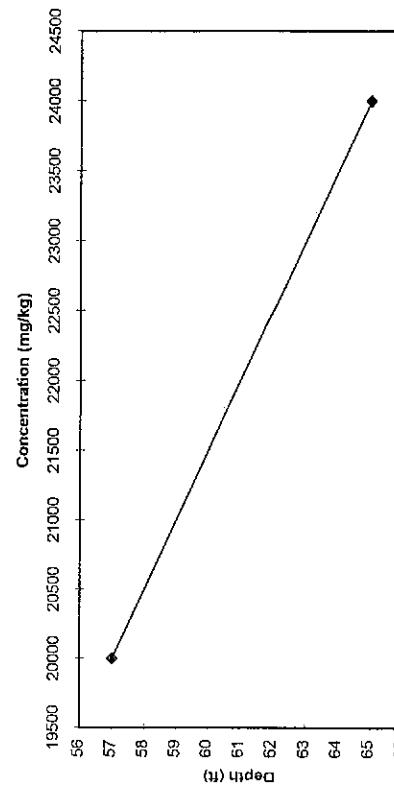
Selenium



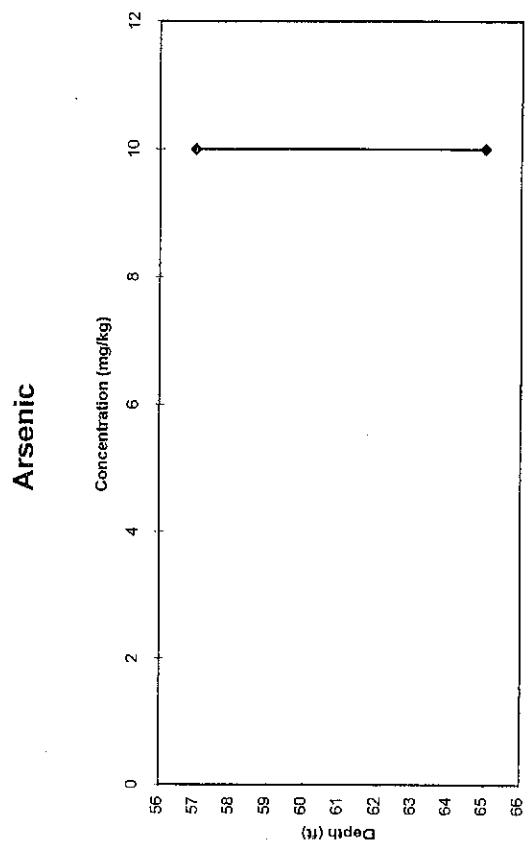
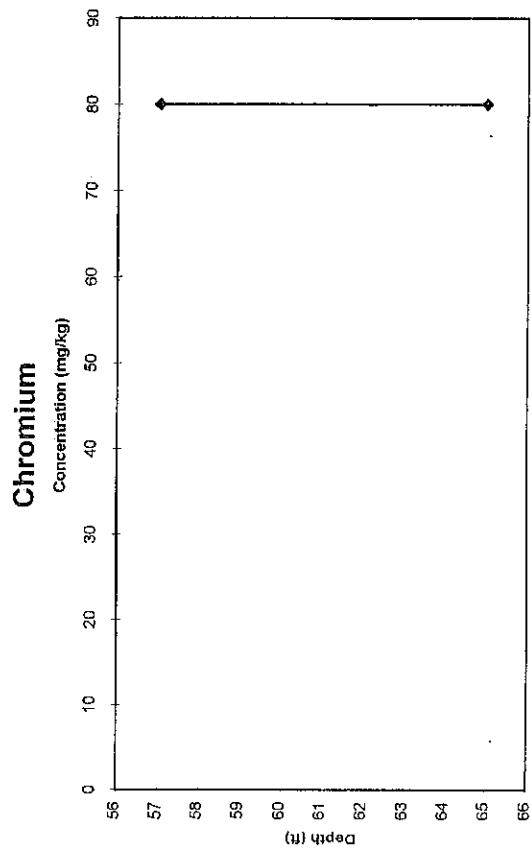
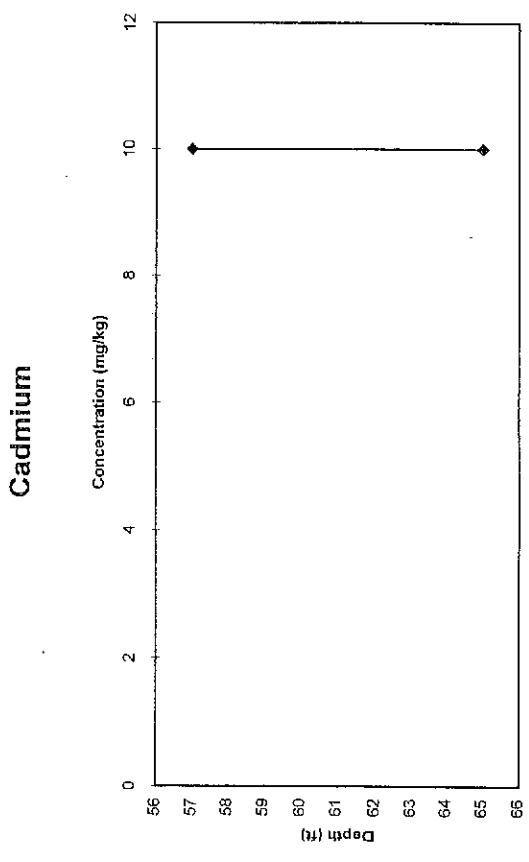
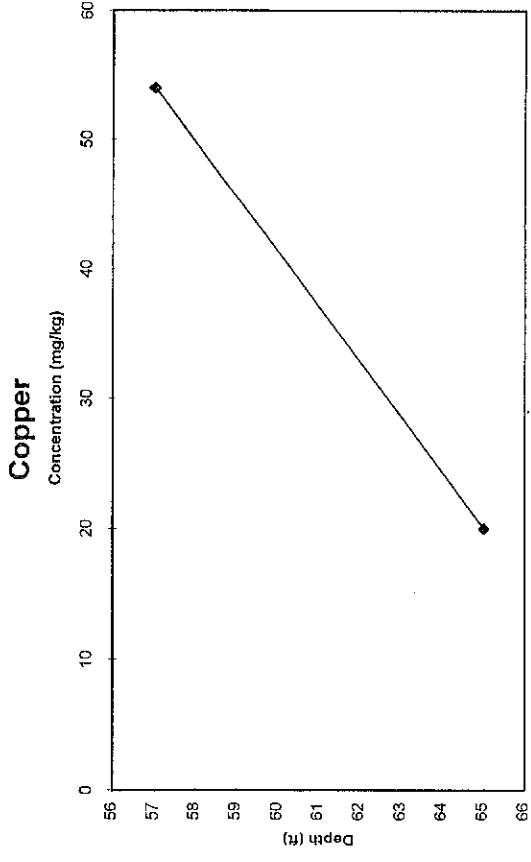
Lead



Iron

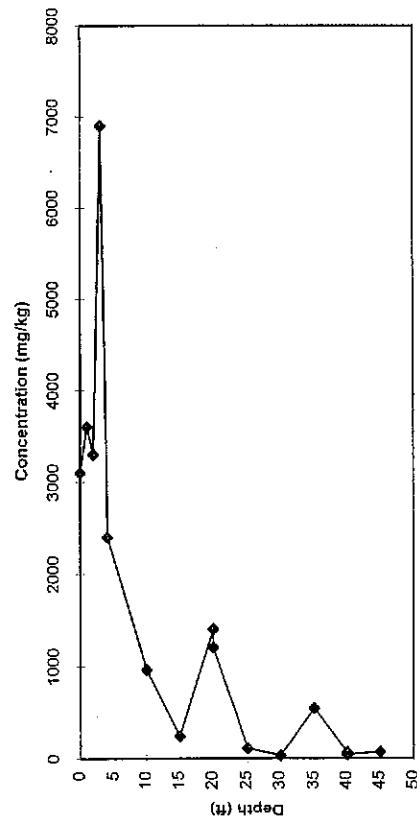


Average Soil Concentrations by Depth, EP-99

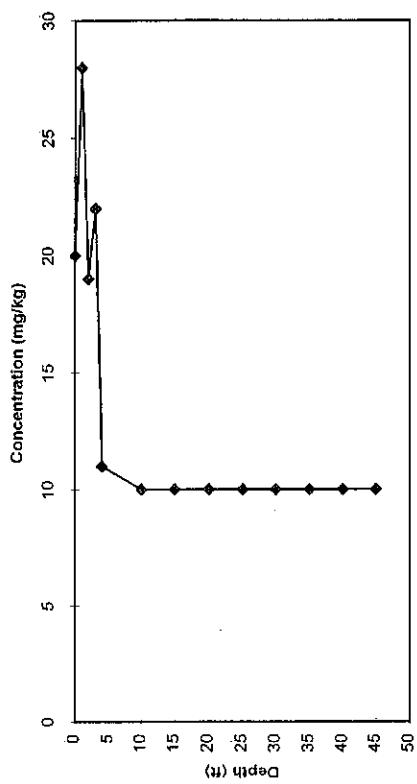


Average Soil Concentrations by Depth, EP-100

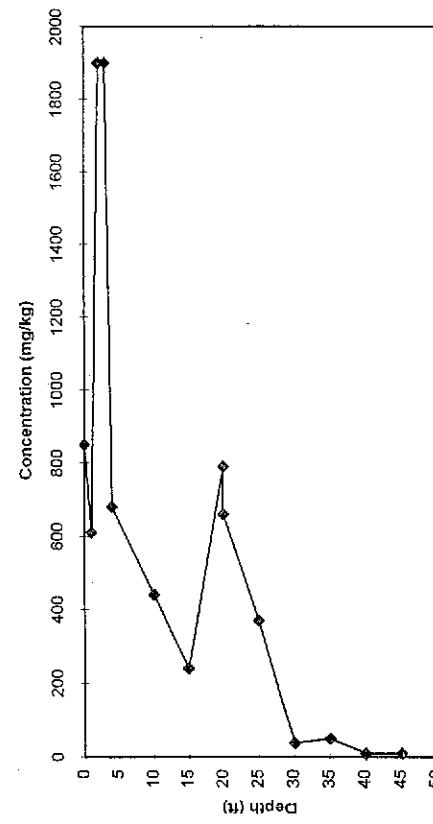
Zinc



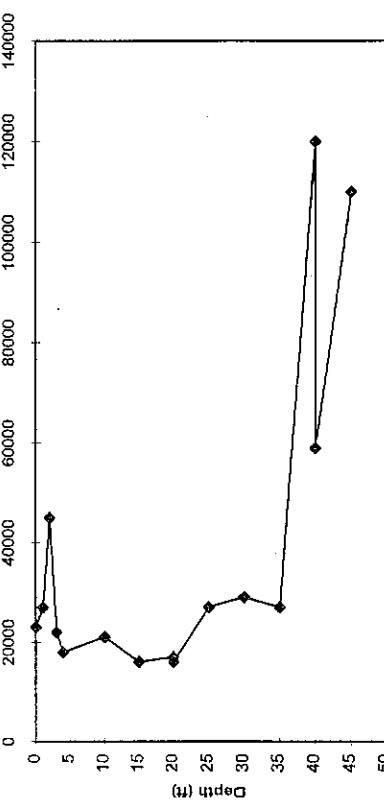
Selenium



Lead

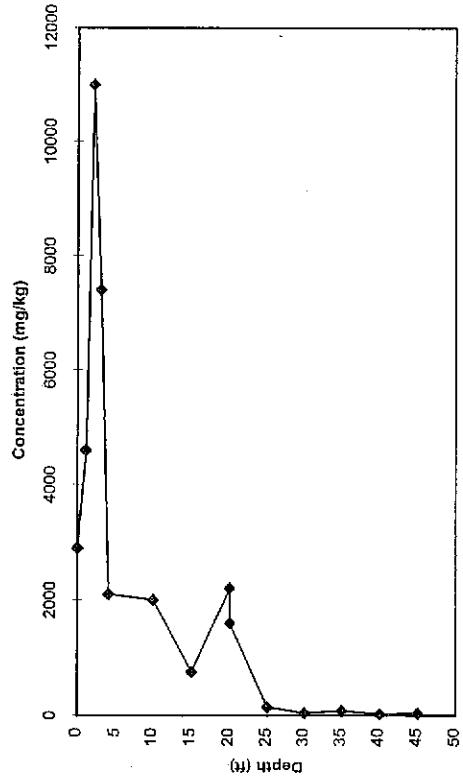


Iron

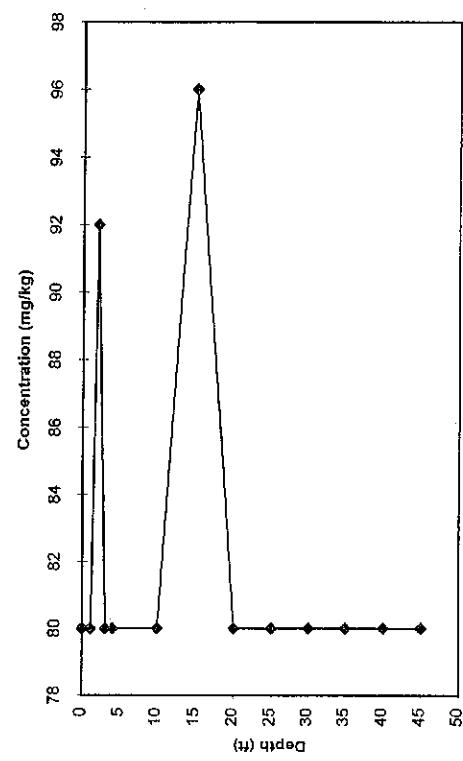


Average Soil Concentrations by Depth, EP-100

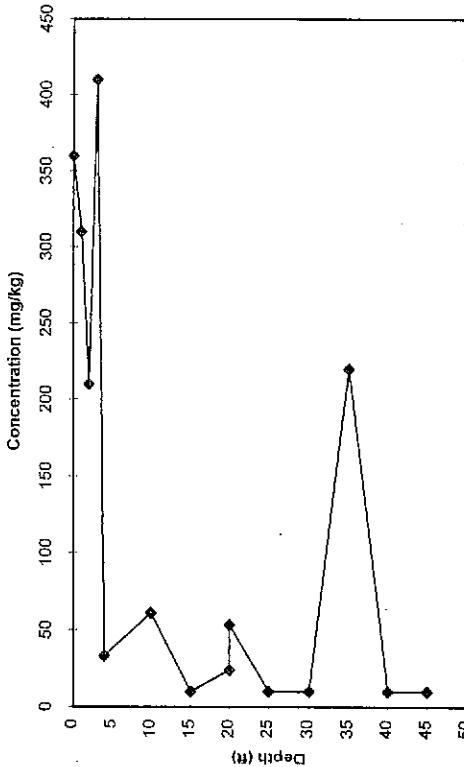
Copper



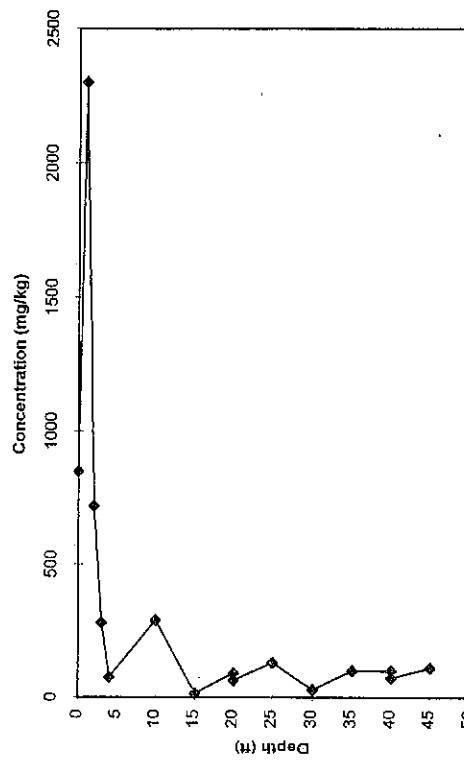
Chromium



Cadmium

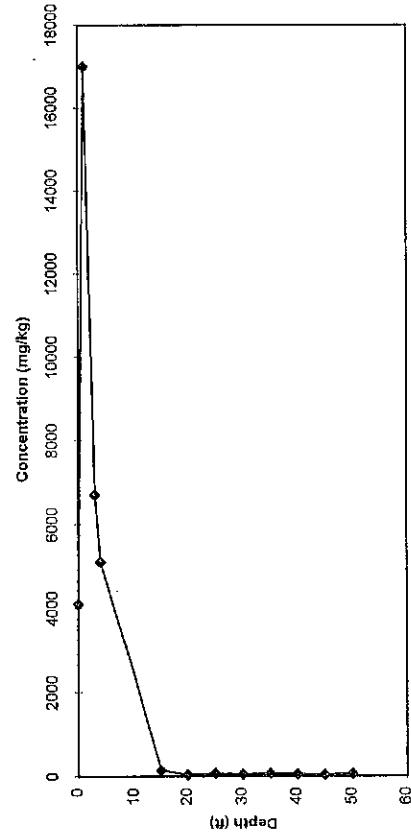


Arsenic

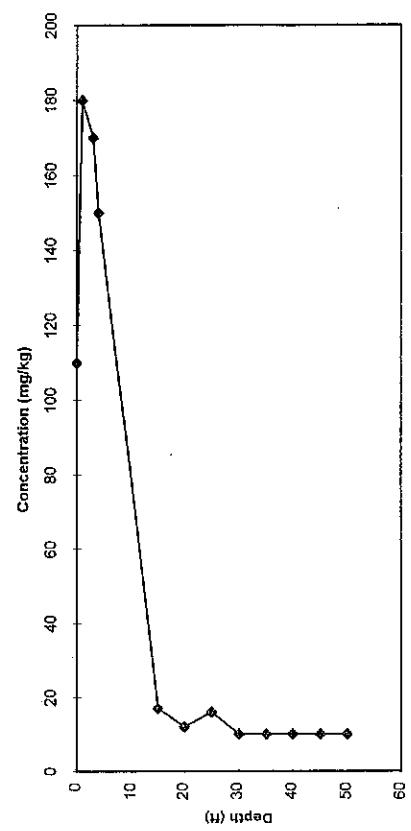


Average Soil Concentrations by Depth, EP-101

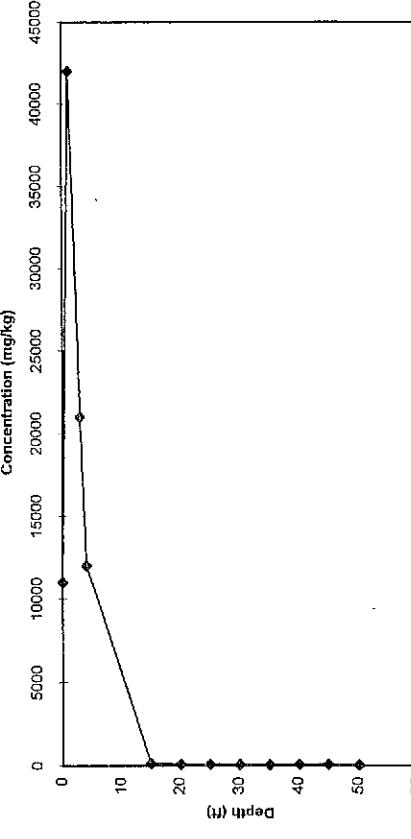
Zinc



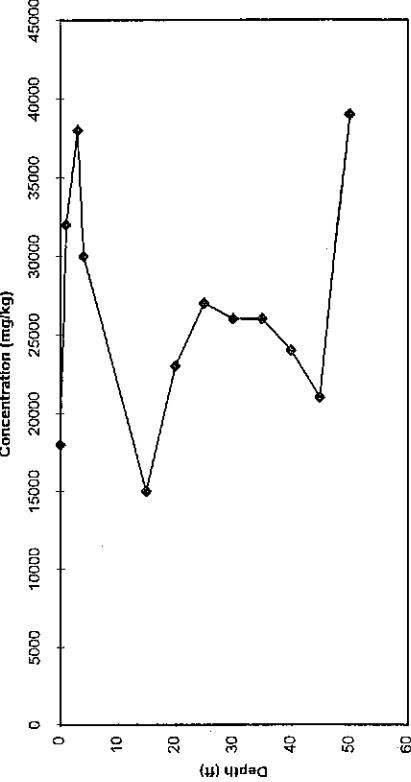
Selenium



Lead

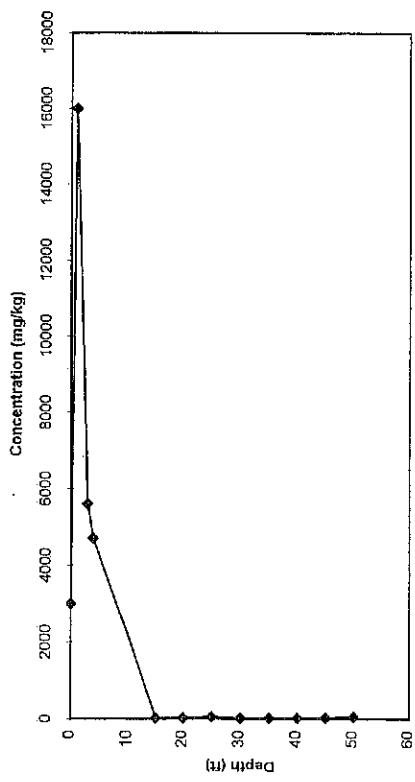


Iron

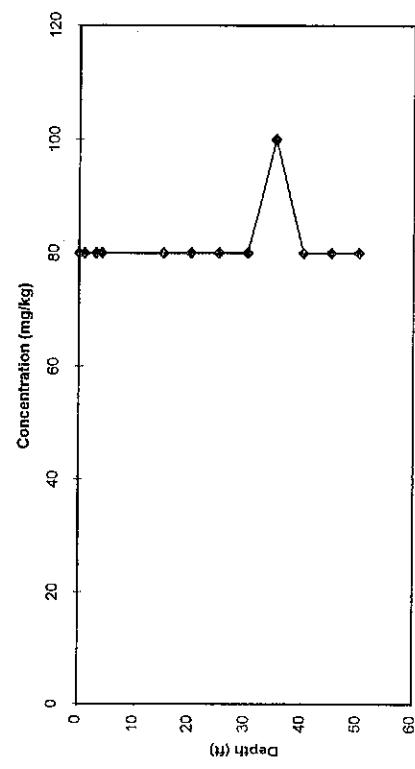


Average Soil Concentrations by Depth, EP-101

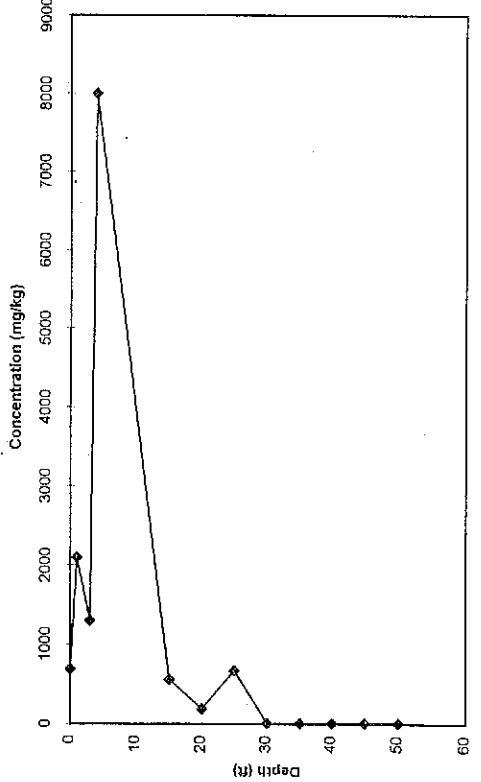
Copper



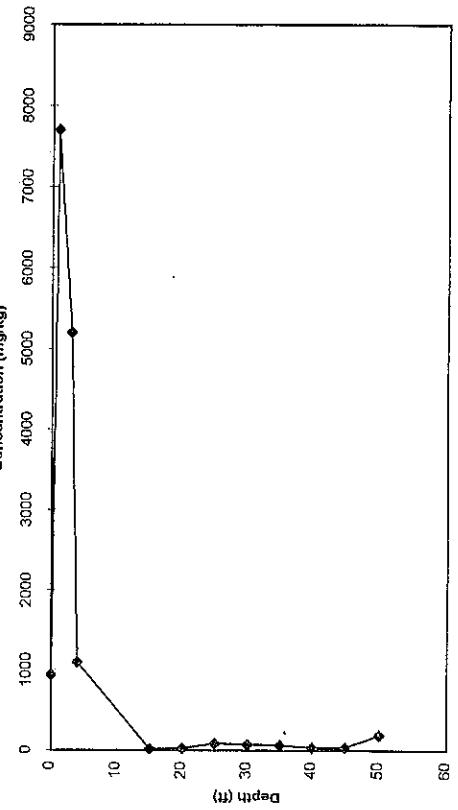
Chromium



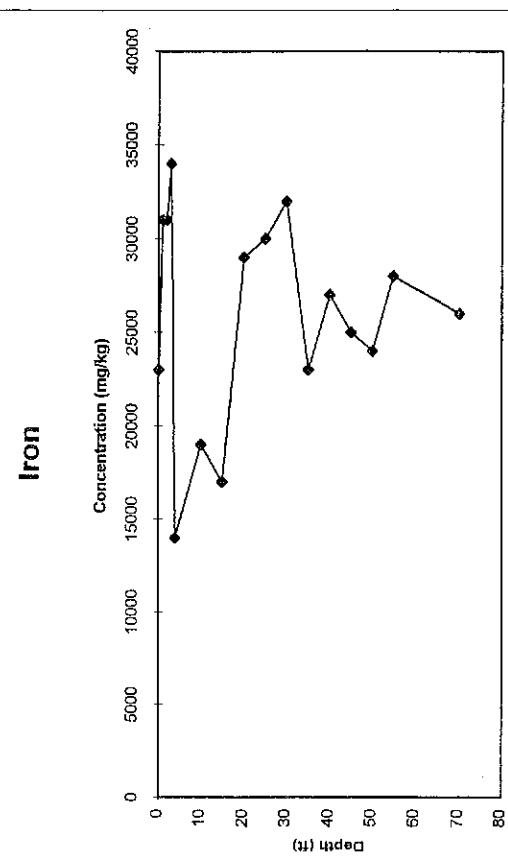
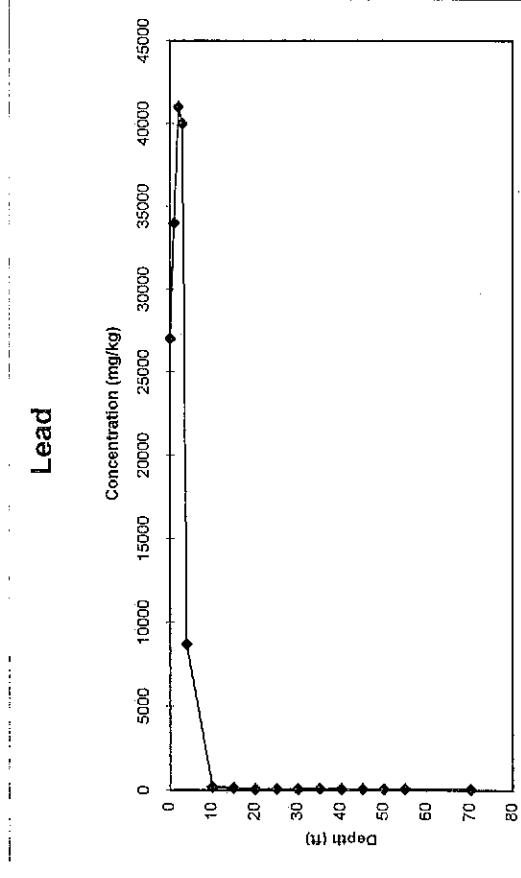
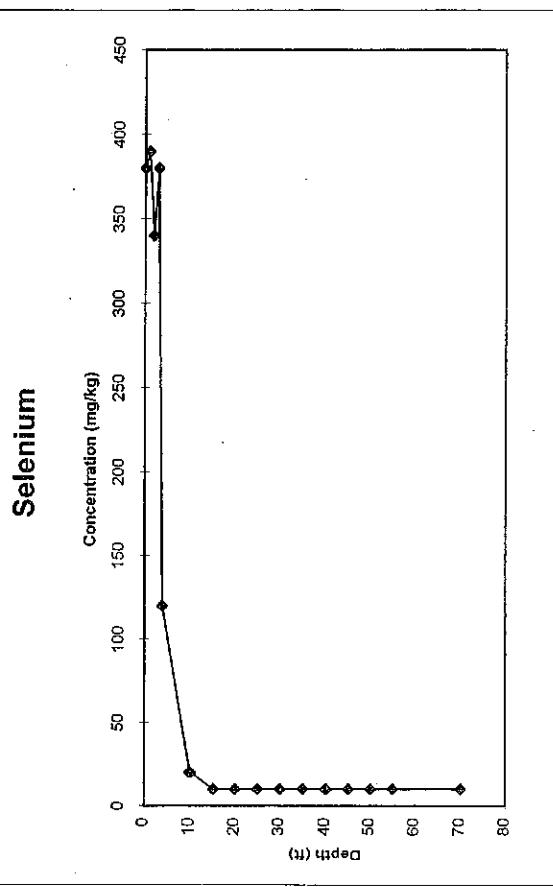
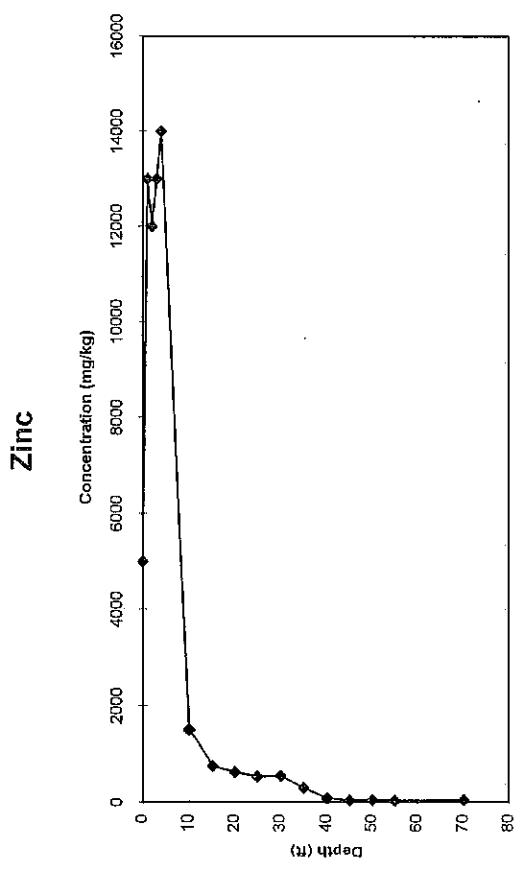
Cadmium



Arsenic

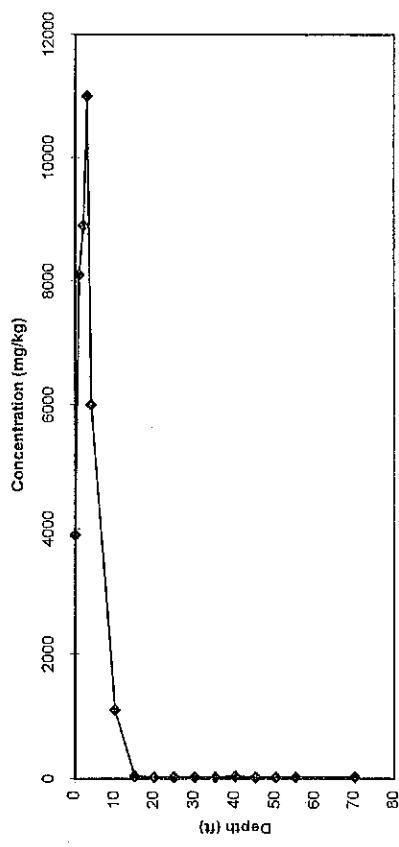


Average Soil Concentrations by Depth, EP-102

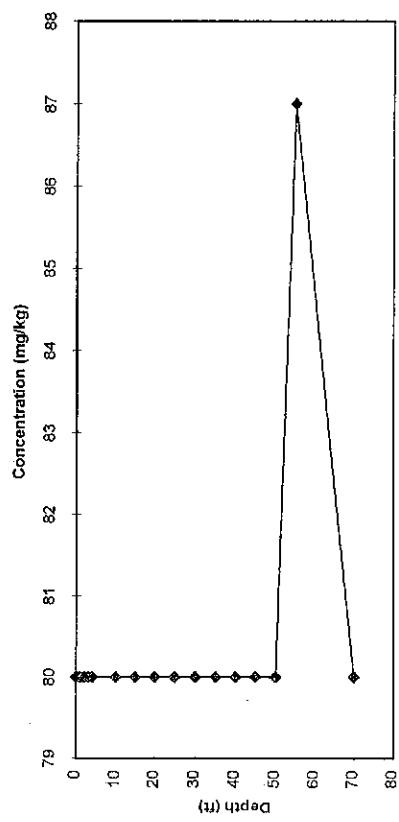


Average Soil Concentrations by Depth, EP-102

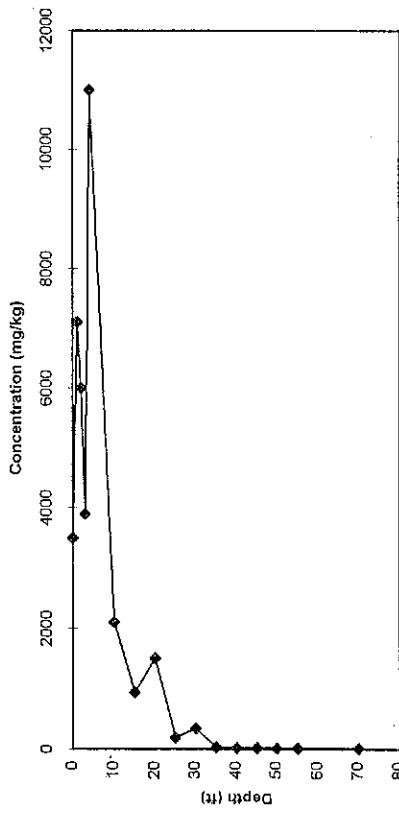
Copper



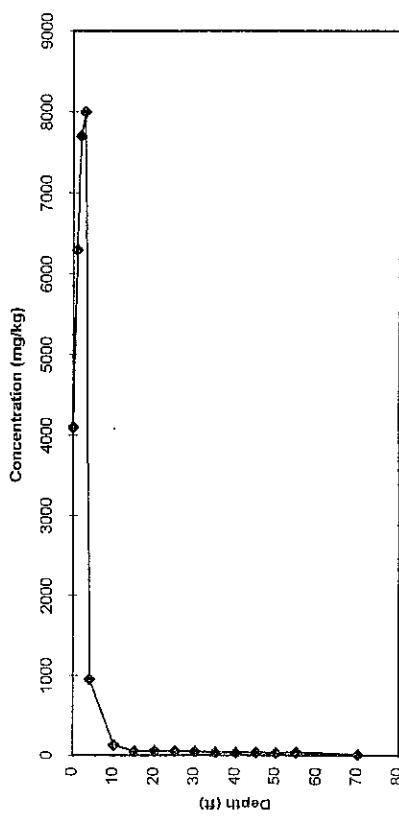
Chromium



Cadmium

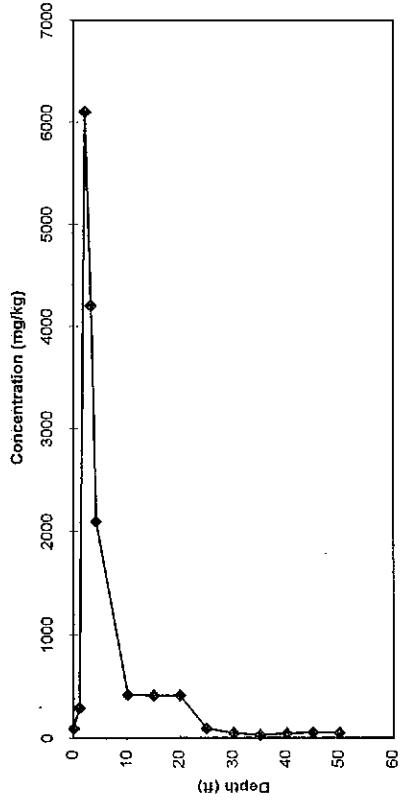


Arsenic

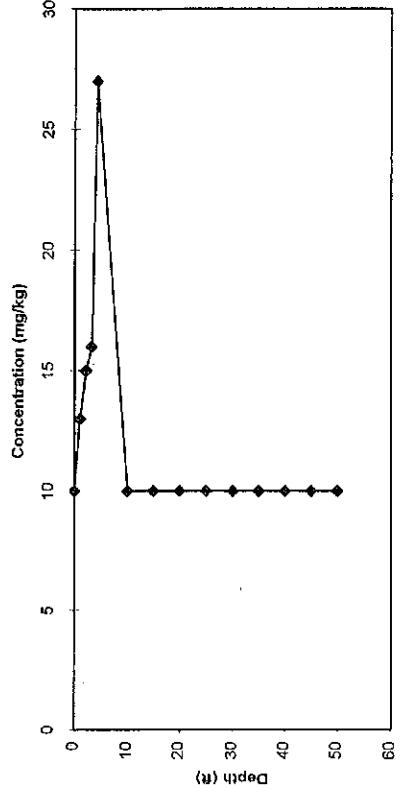


Average Soil Concentrations by Depth, EP-103

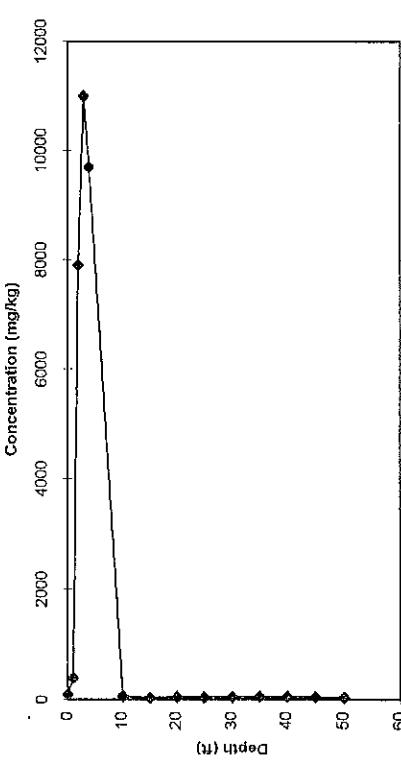
Zinc



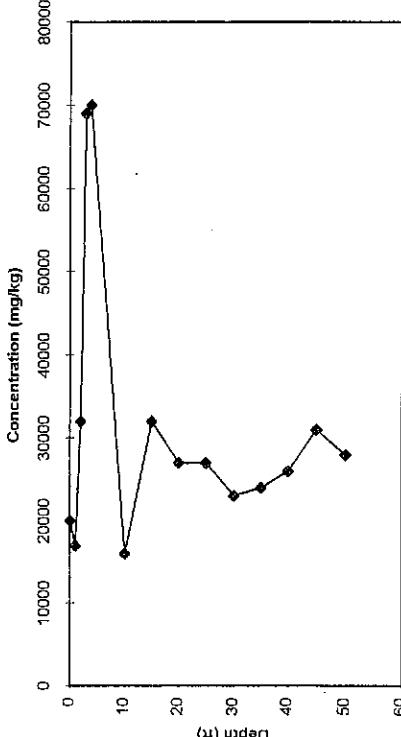
Selenium



Lead

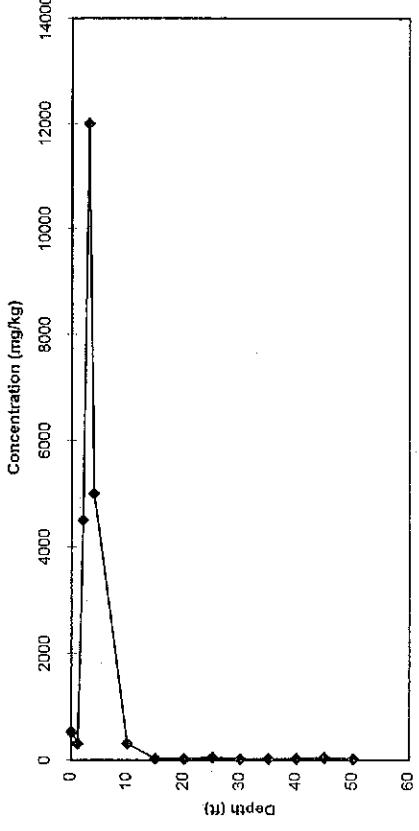


Iron

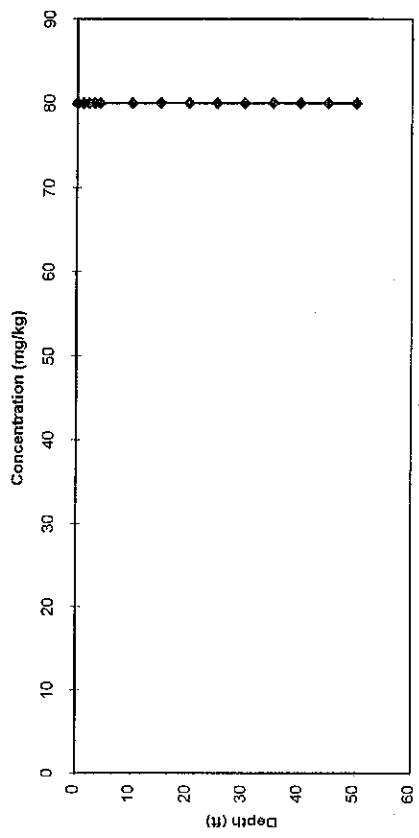


Average Soil Concentrations by Depth, EP-103

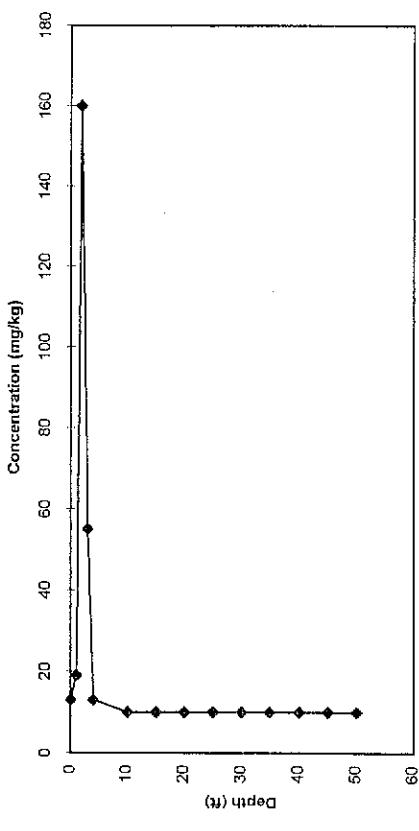
Copper



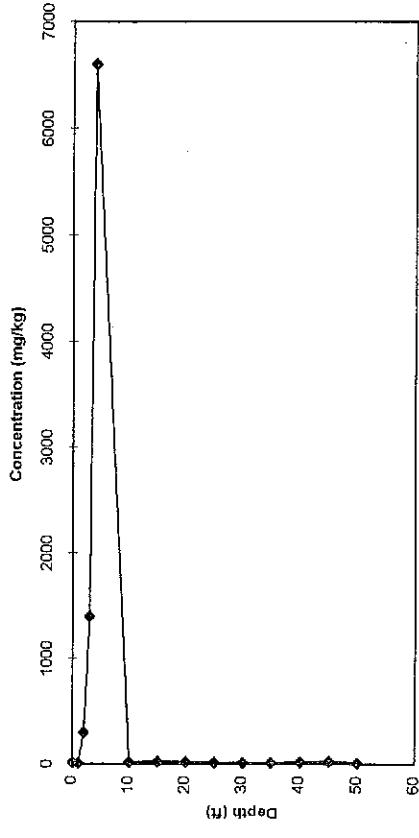
Chromium



Cadmium

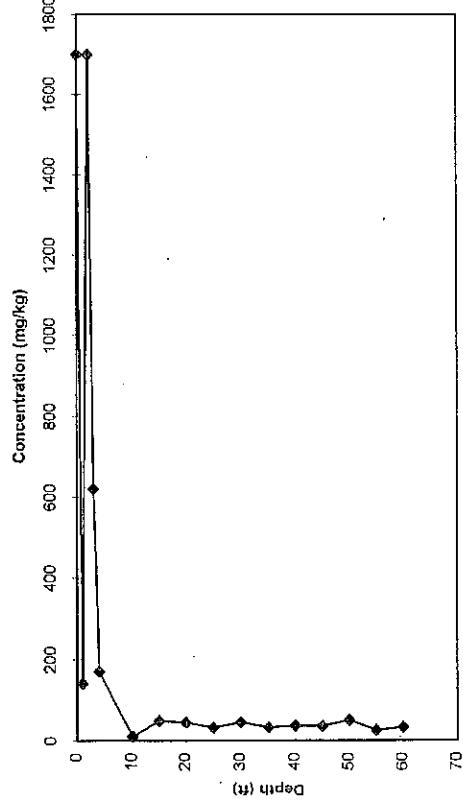


Arsenic

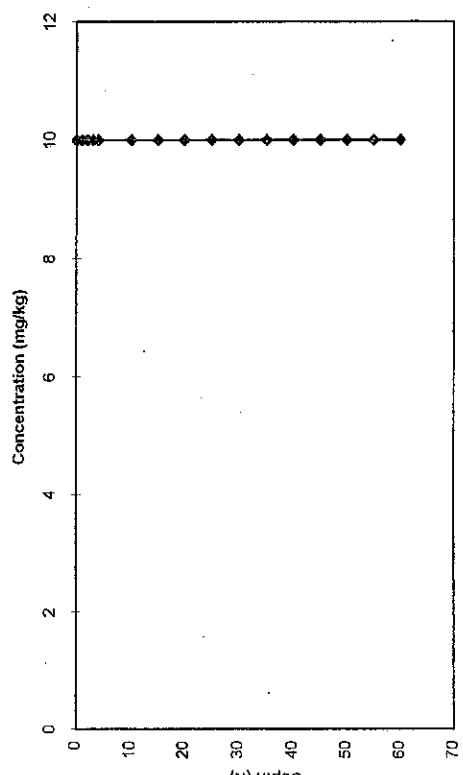


Average Soil Concentrations by Depth, EP-104

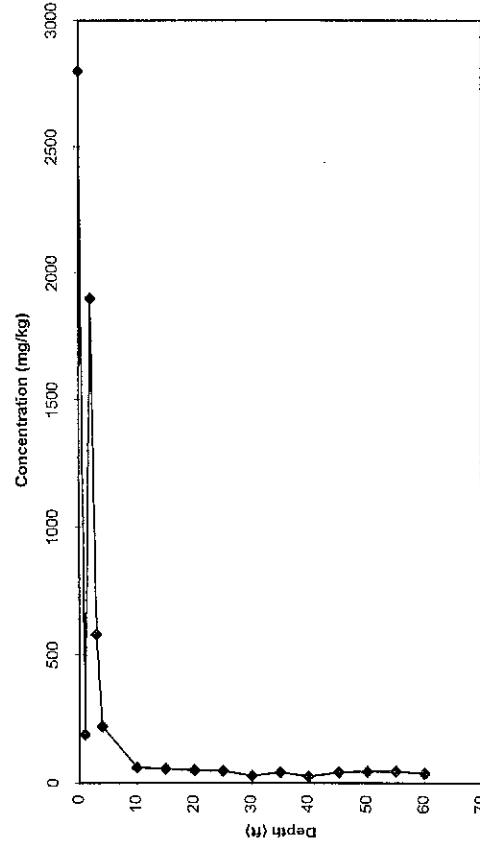
Zinc



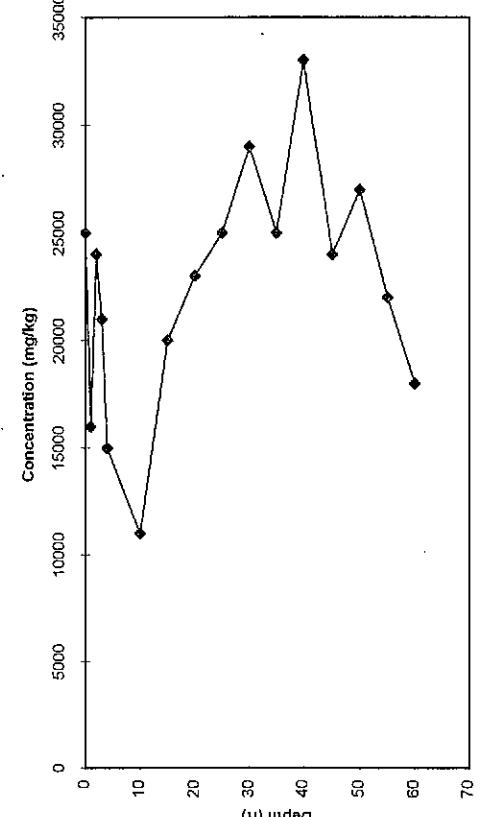
Selenium



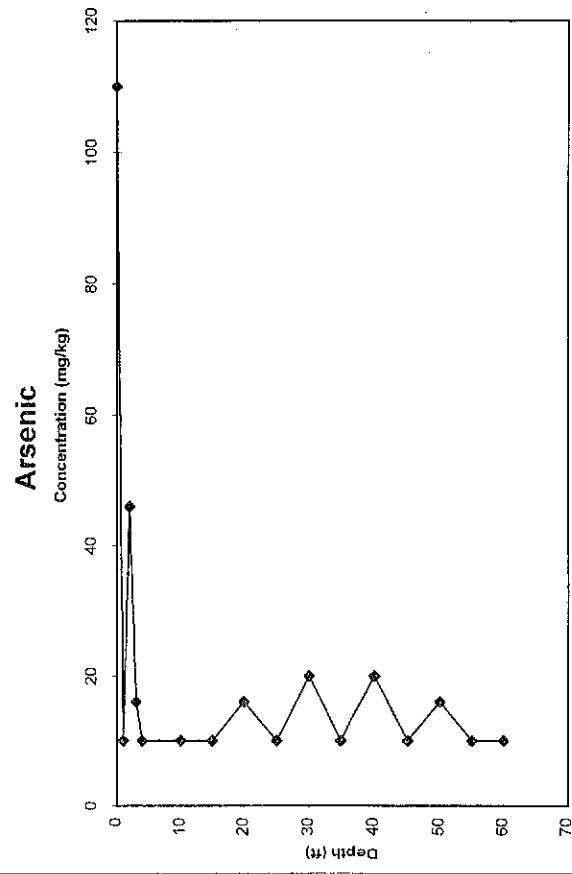
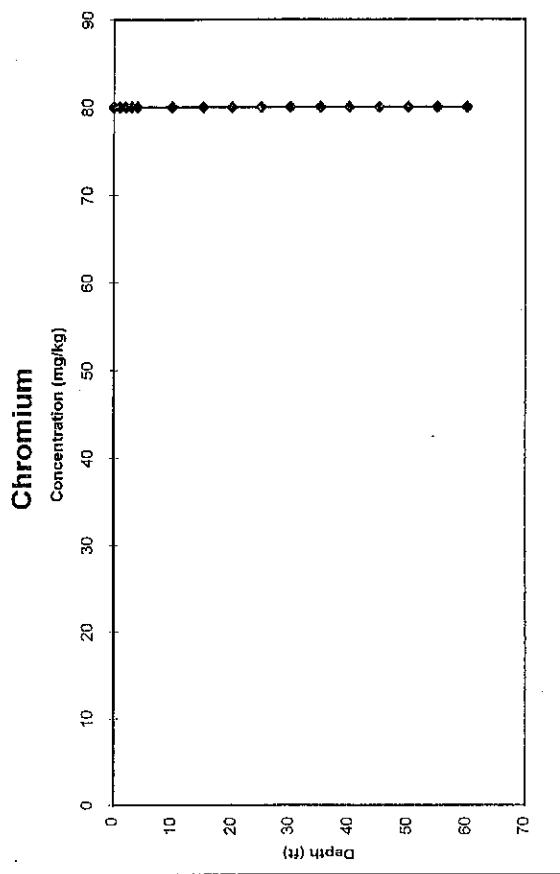
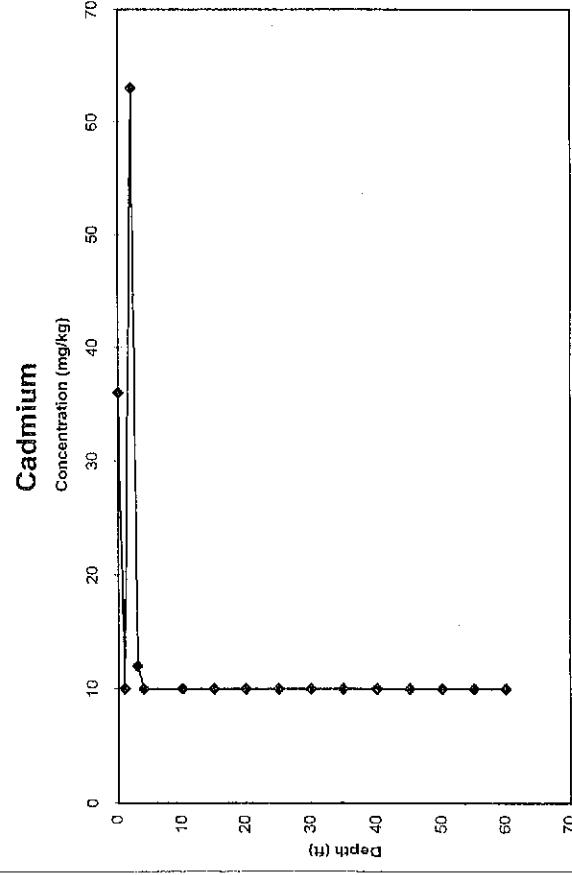
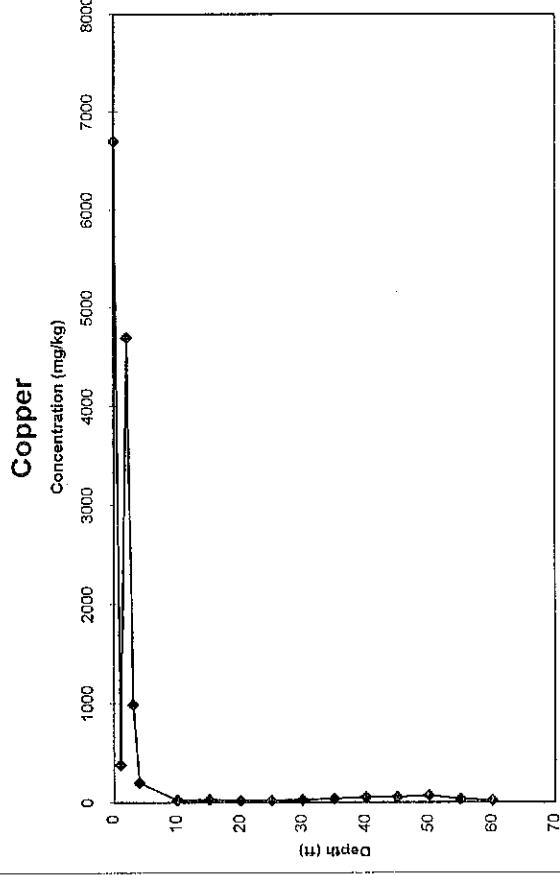
Lead



Iron

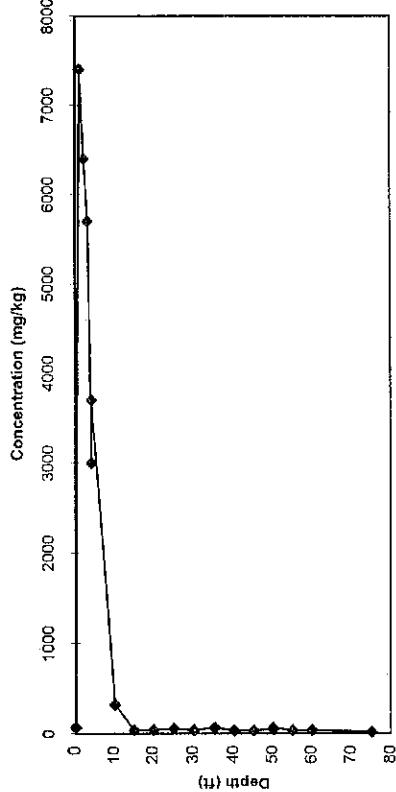


Average Soil Concentrations by Depth, EP-104

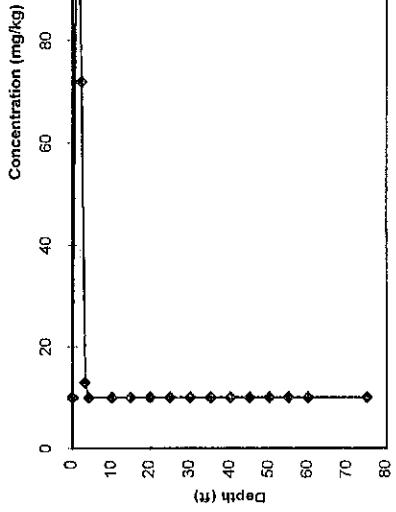


Average Soil Concentrations by Depth, EP-105

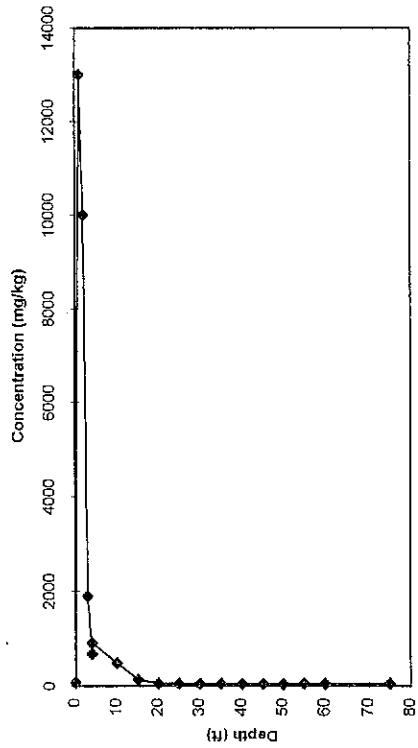
Zinc



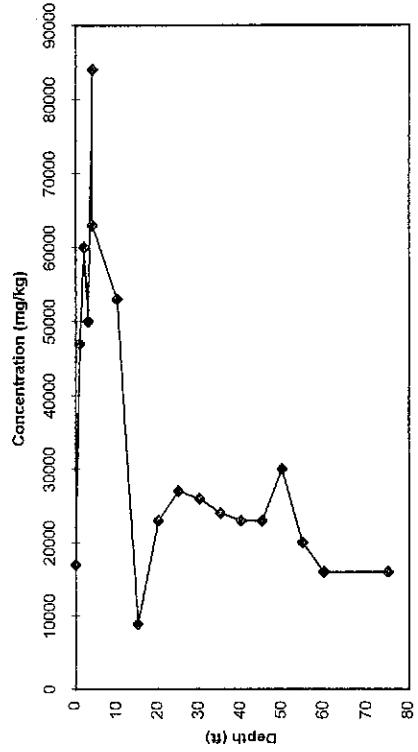
Selenium



Lead

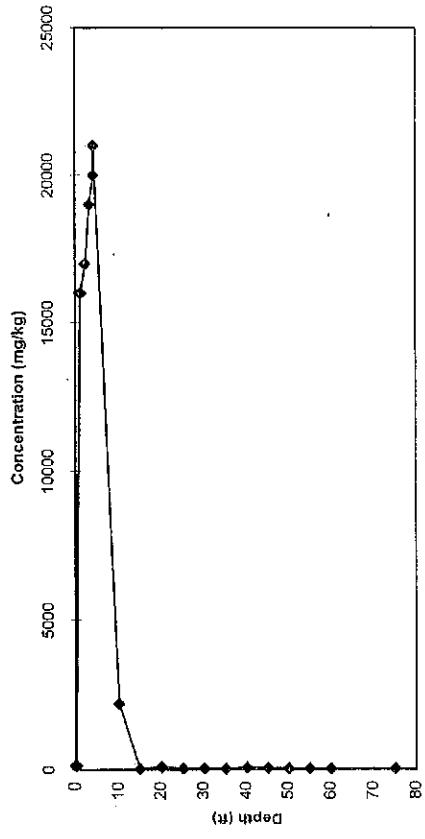


Iron

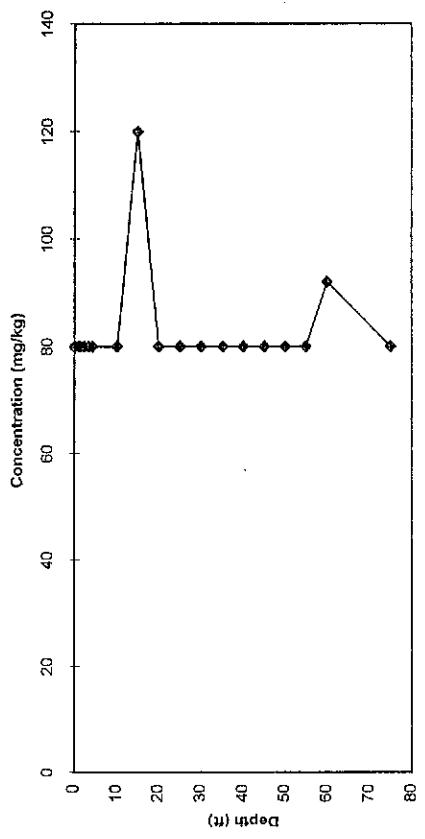


Average Soil Concentrations by Depth, EP-105

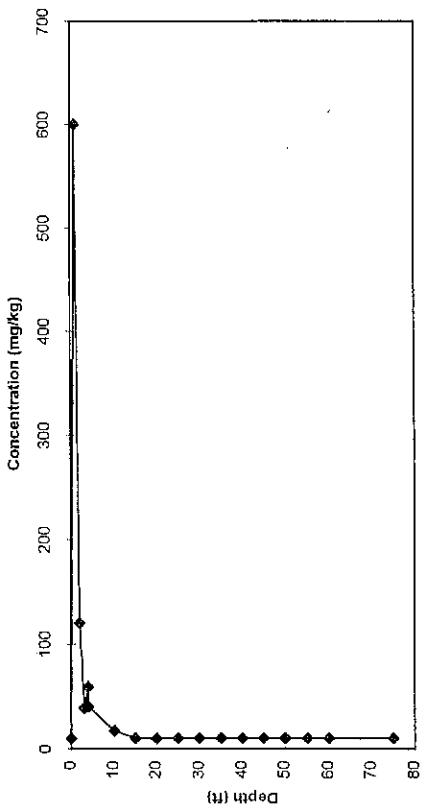
Copper



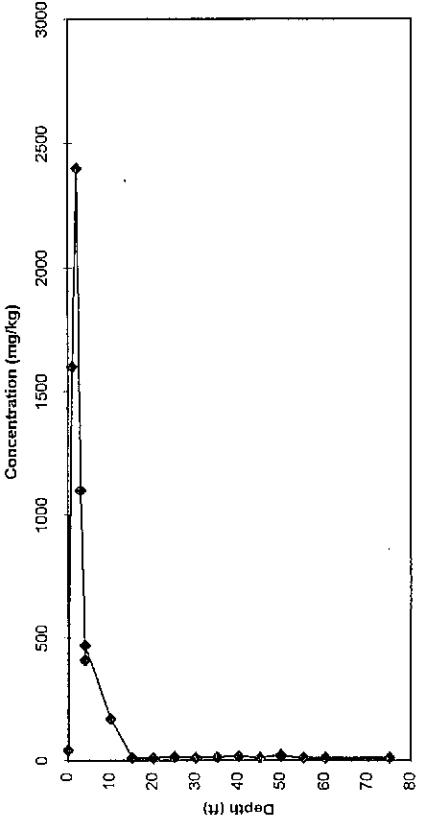
Chromium



Cadmium

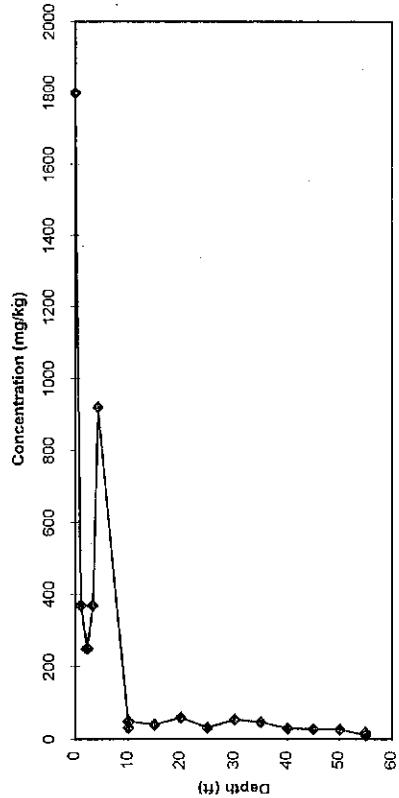


Arsenic

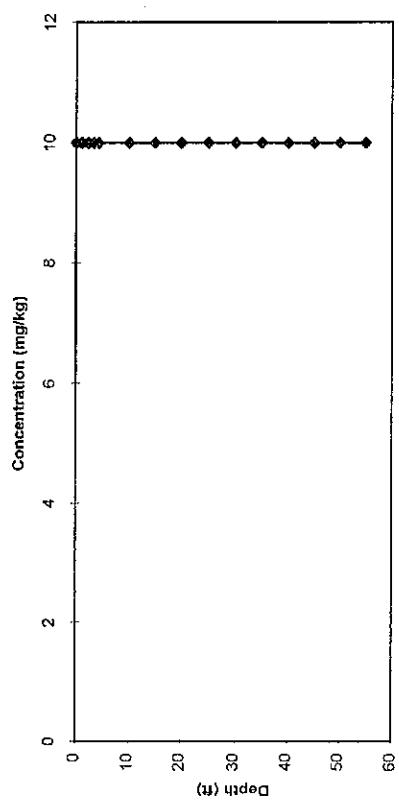


Average Soil Concentrations by Depth, EP-106

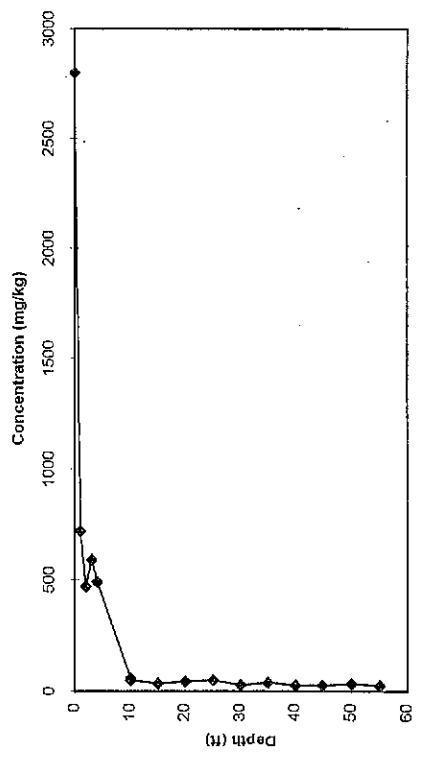
Zinc



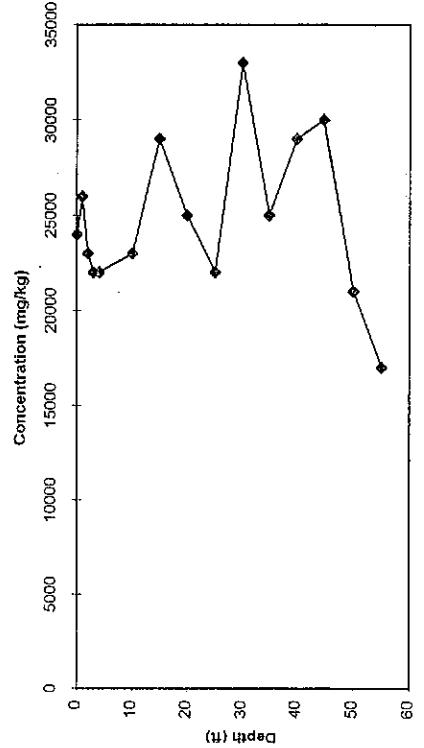
Selenium



Lead

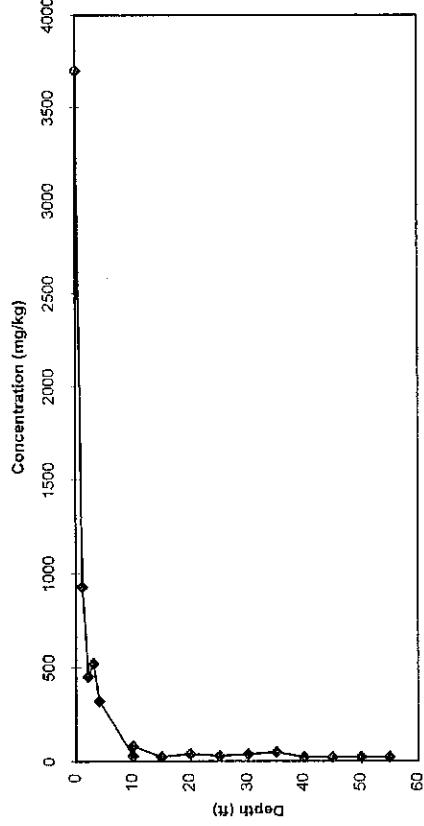


Iron

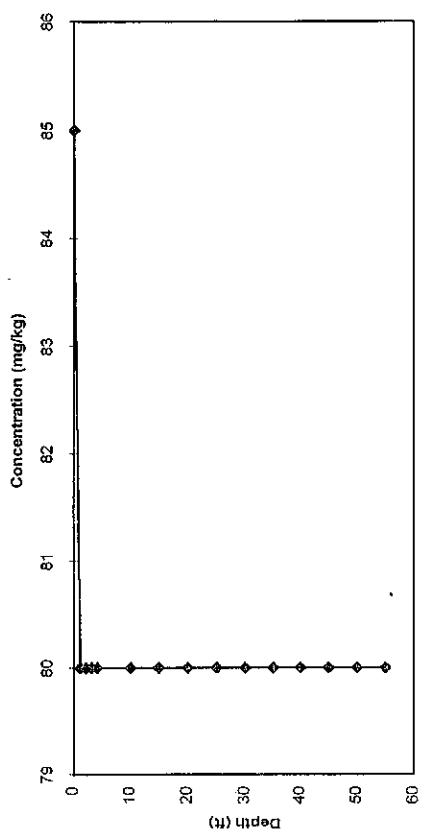


Average Soil Concentrations by Depth, EP-106

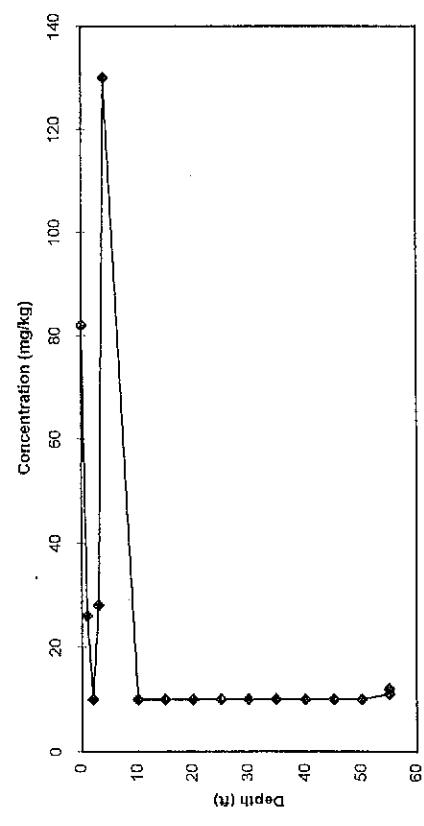
Copper



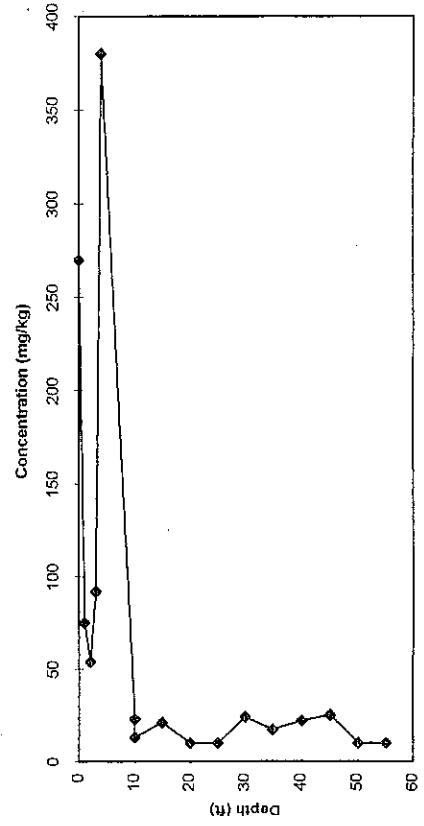
Chromium



Cadmium

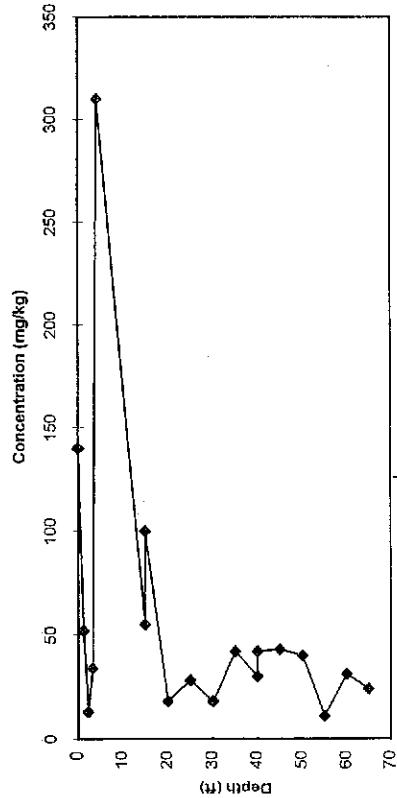


Arsenic

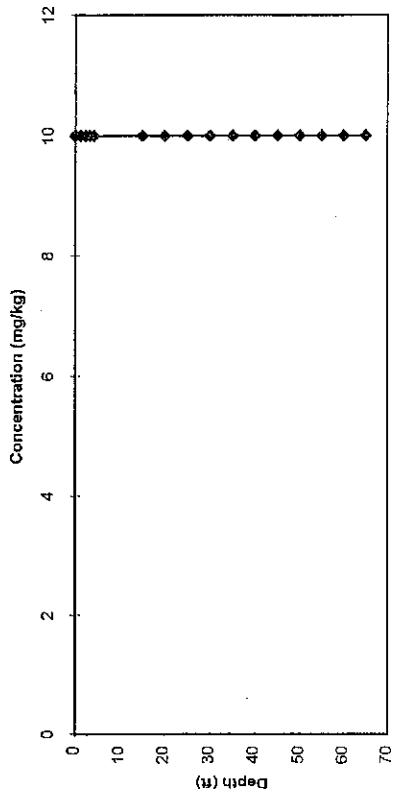


Average Soil Concentrations by Depth, EP-107

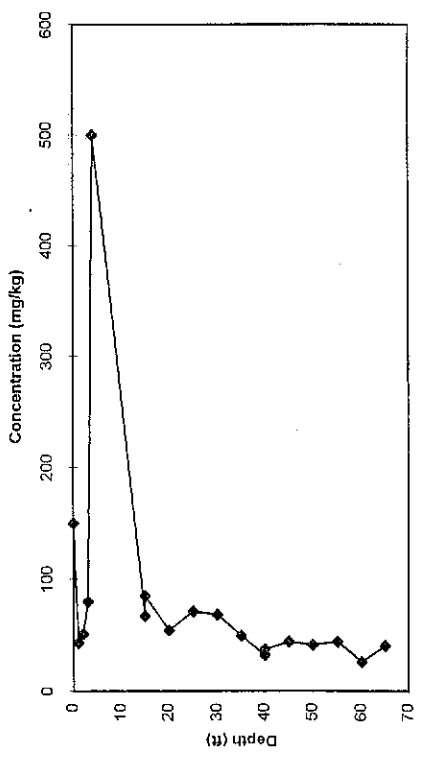
Zinc



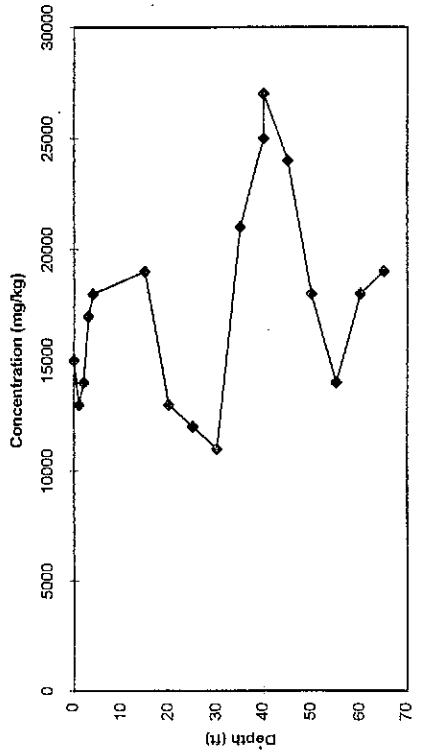
Selenium



Lead

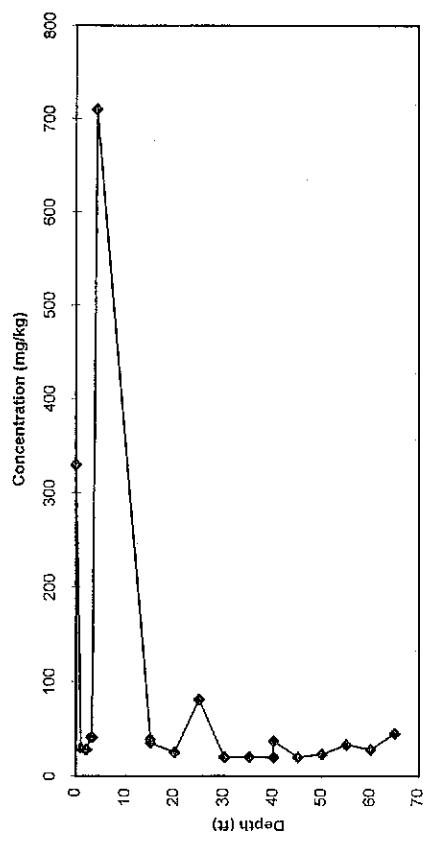


Iron

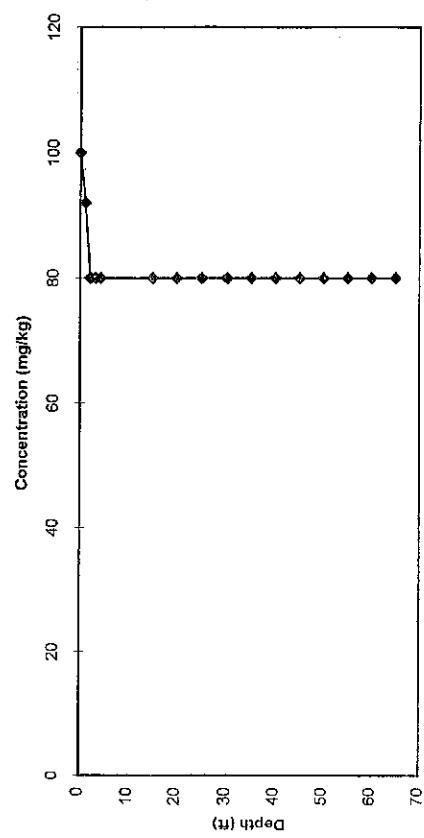


Average Soil Concentrations by Depth, EP-107

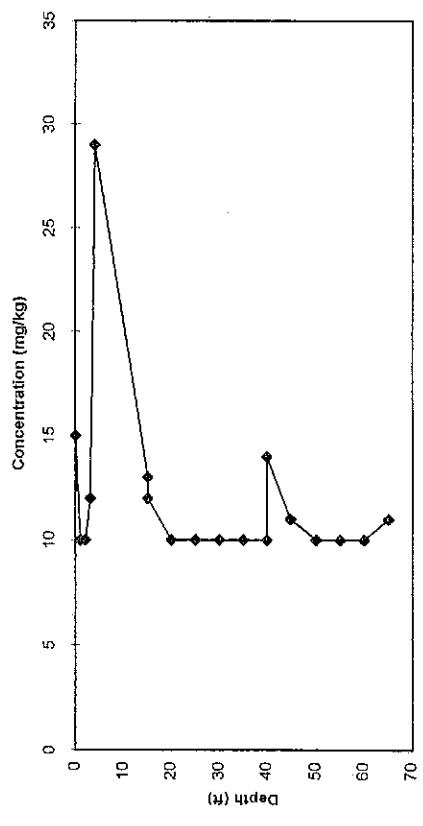
Copper



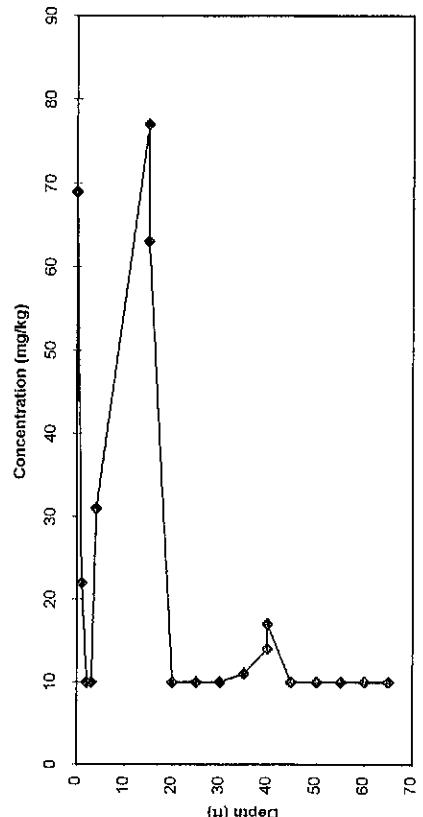
Chromium



Cadmium

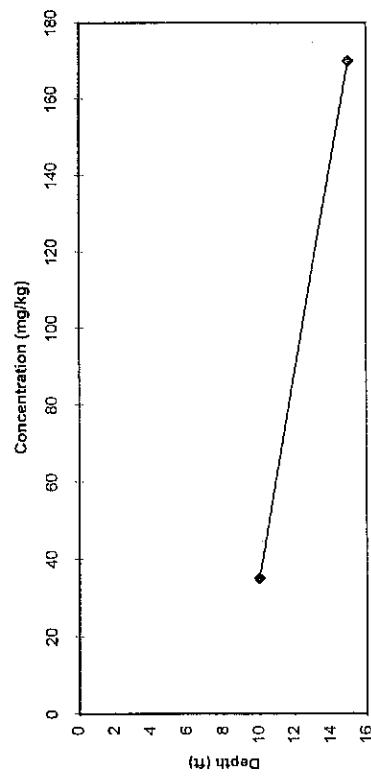


Arsenic

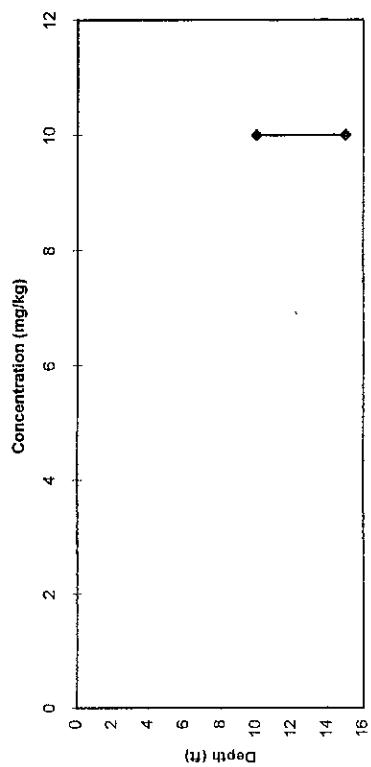


Average Soil Concentrations by Depth, EP-108

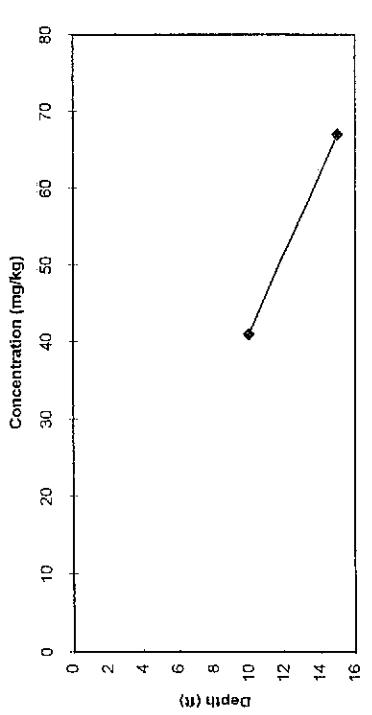
Zinc



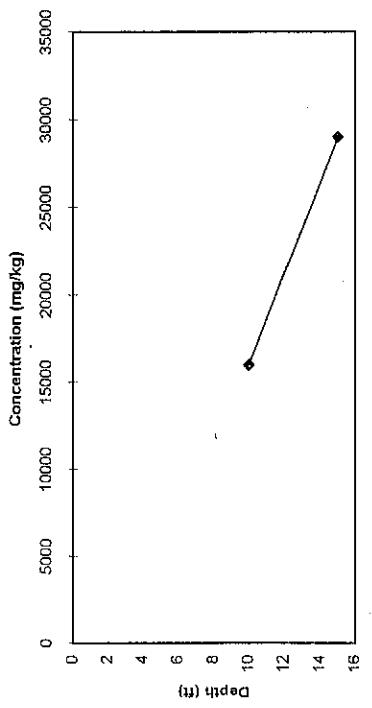
Selenium



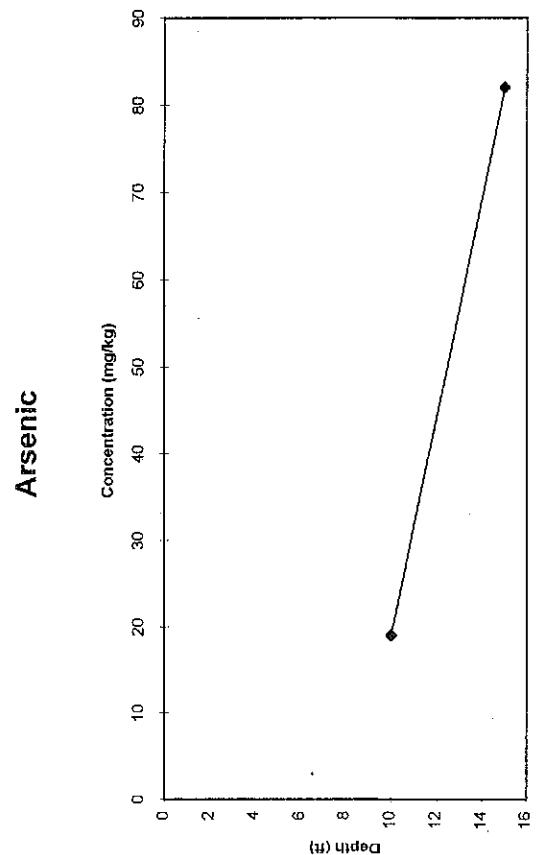
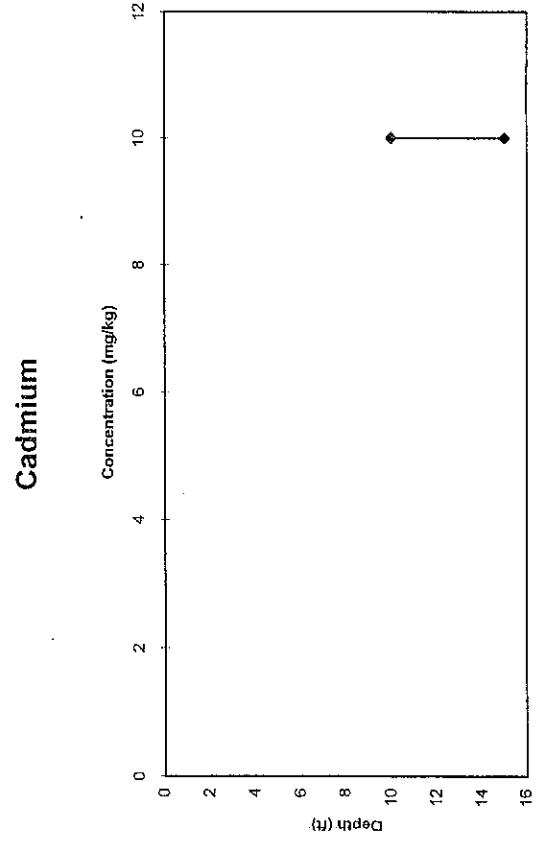
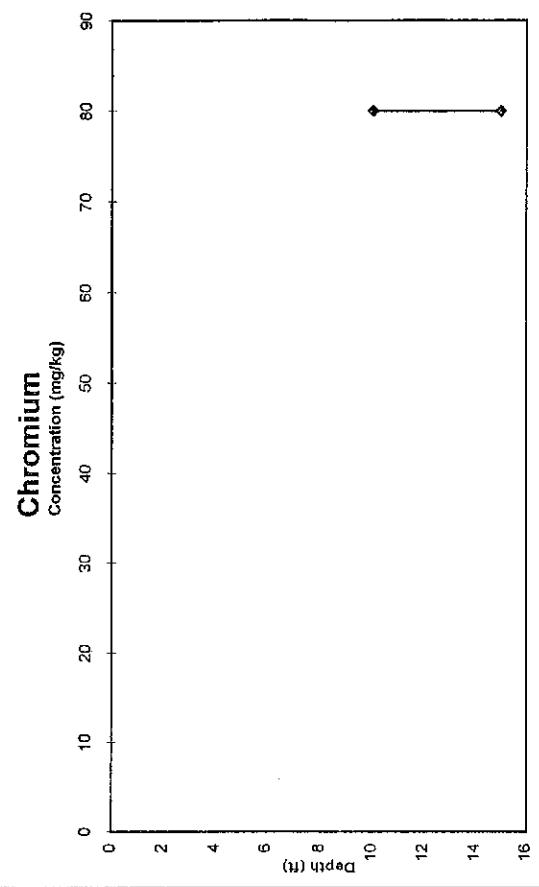
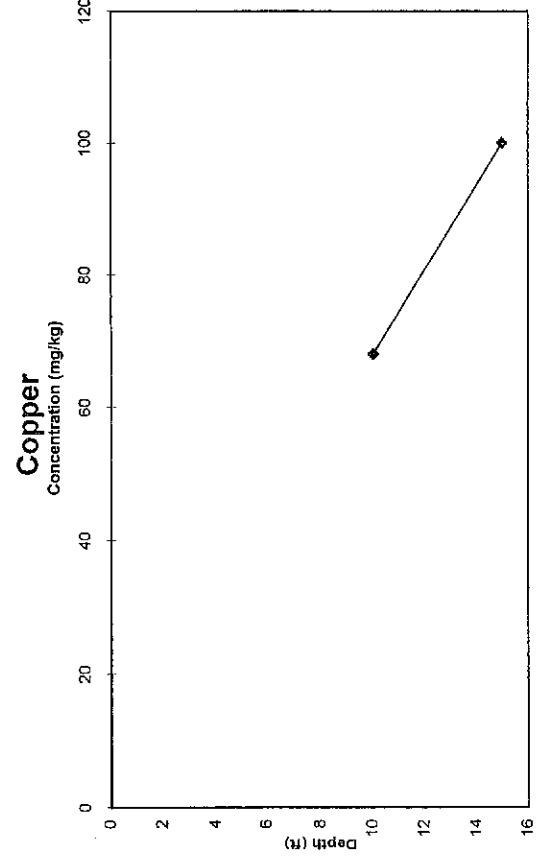
Lead



Iron

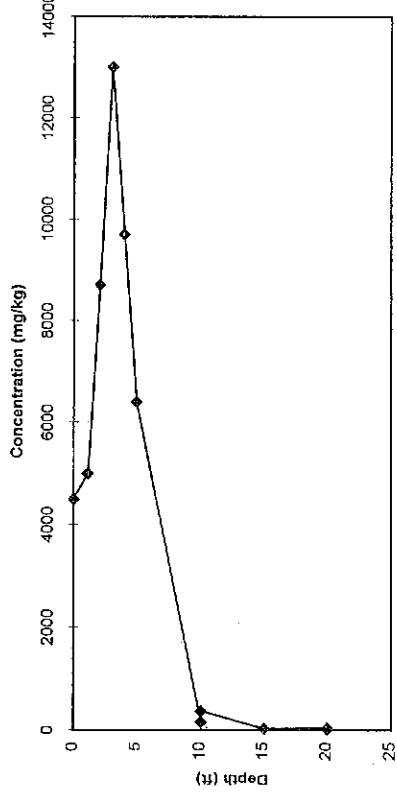


Average Soil Concentrations by Depth, EP-108

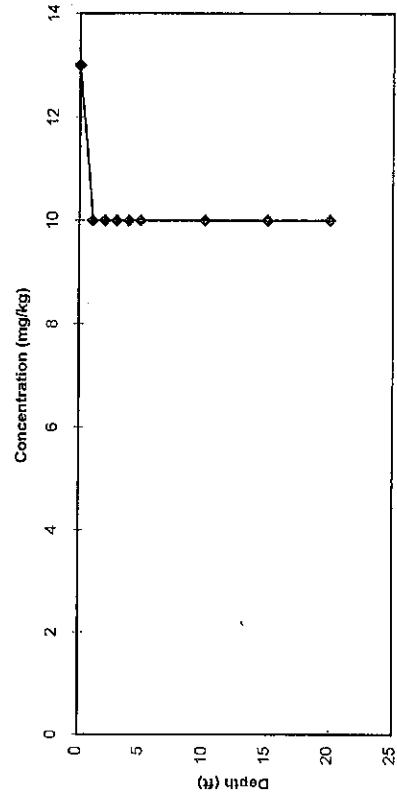


Average Soil Concentrations by Depth, EP-109

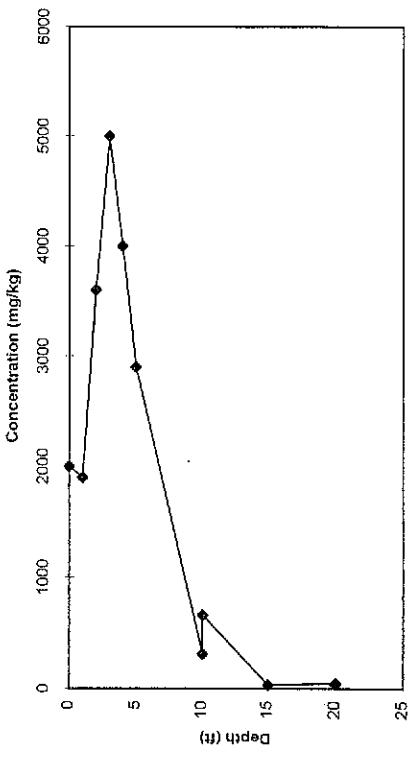
Zinc



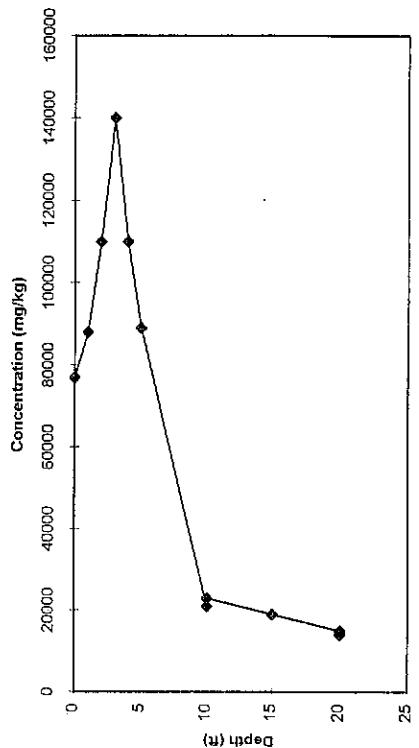
Selenium



Lead

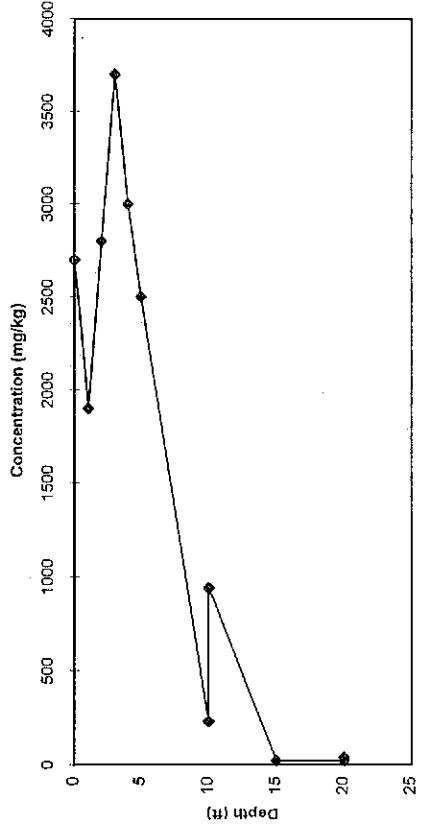


Iron

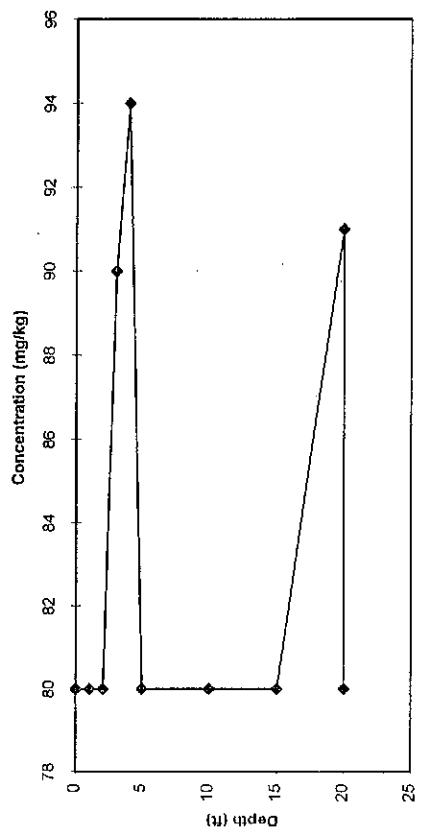


Average Soil Concentrations by Depth, EP-109

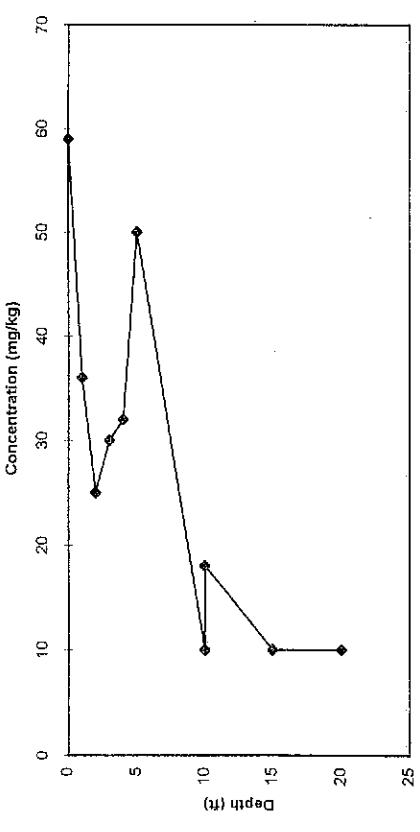
Copper



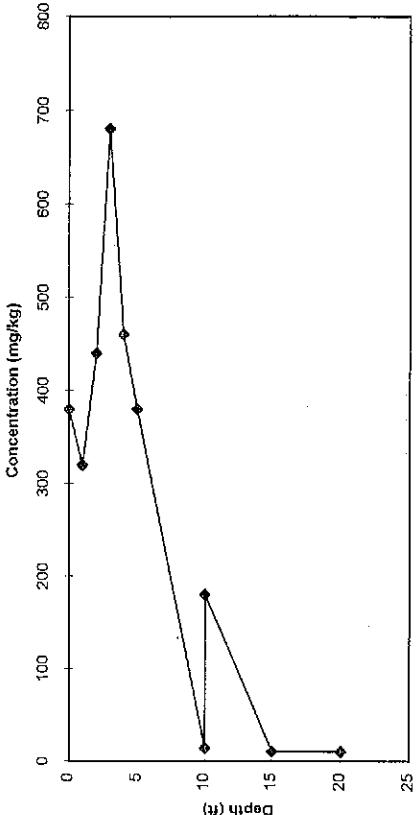
Chromium



Cadmium

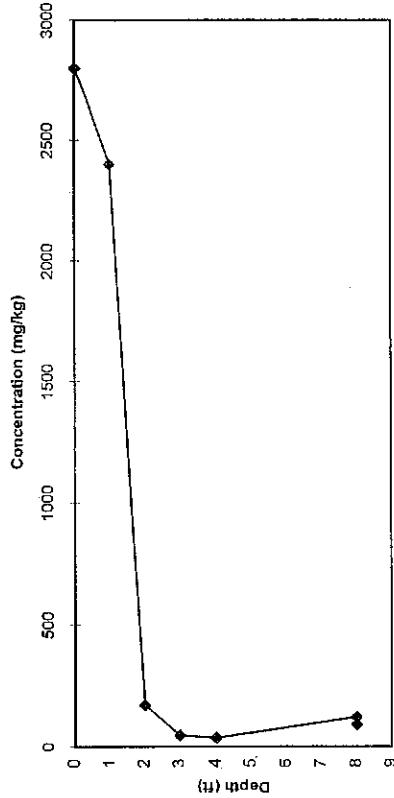


Arsenic

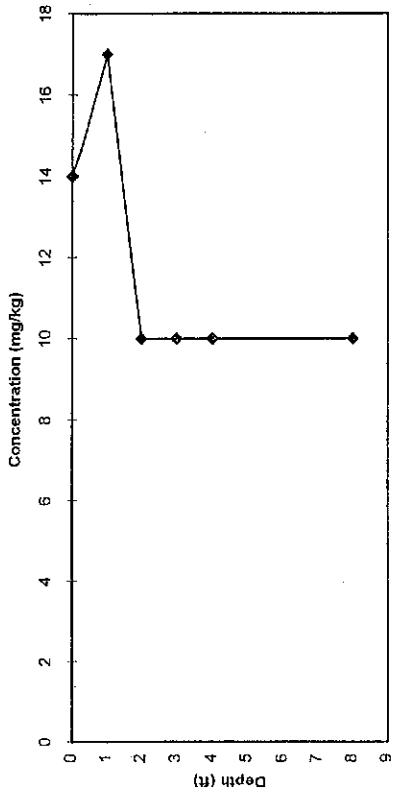


Average Soil Concentrations by Depth, EP-110

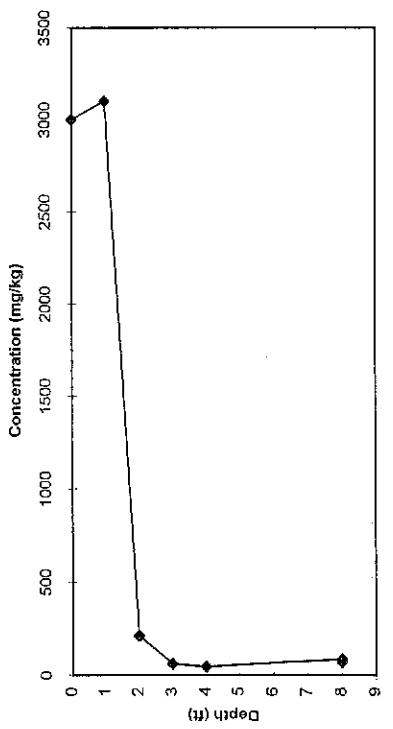
Zinc



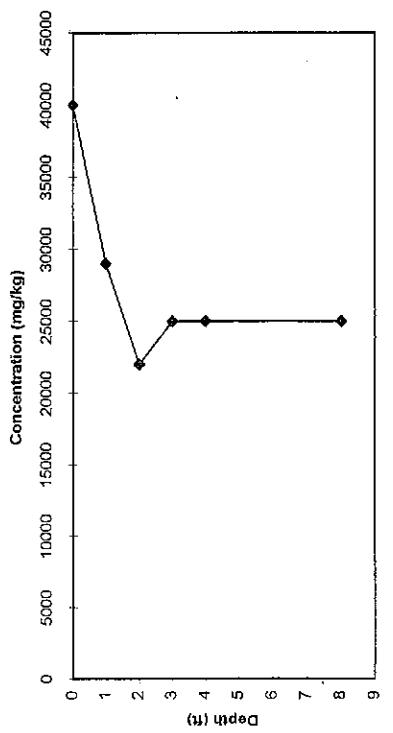
Selenium



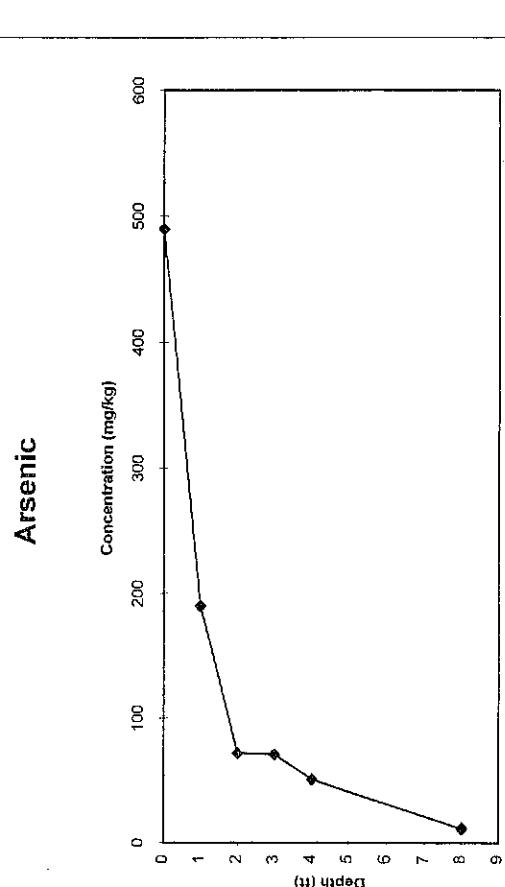
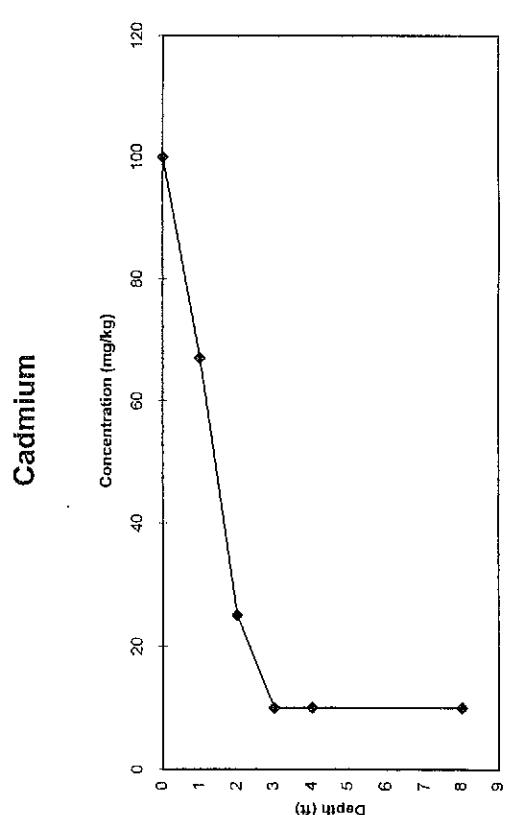
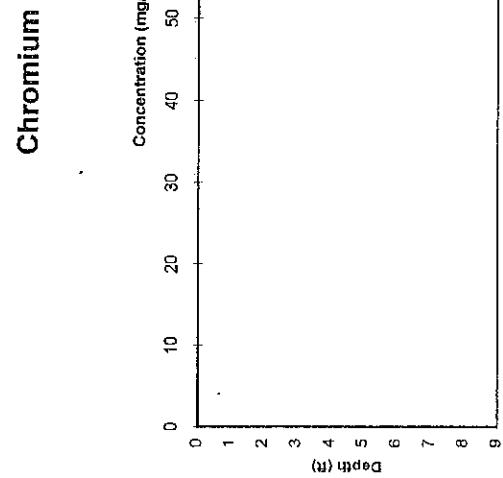
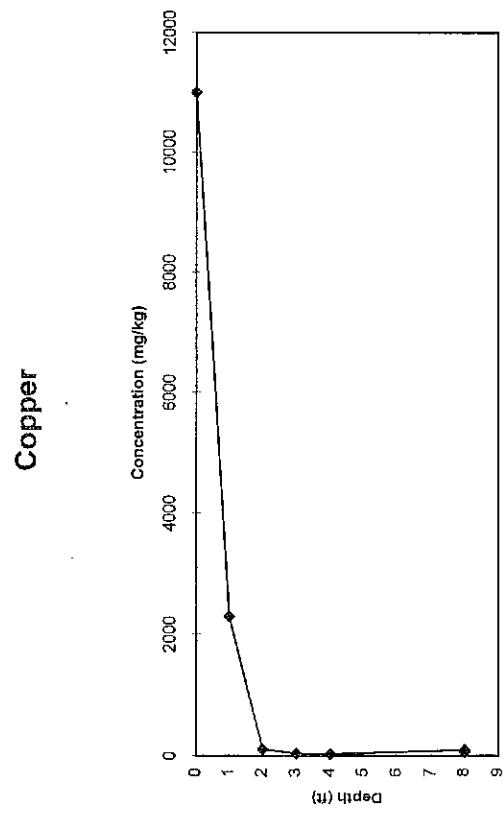
Lead



Iron

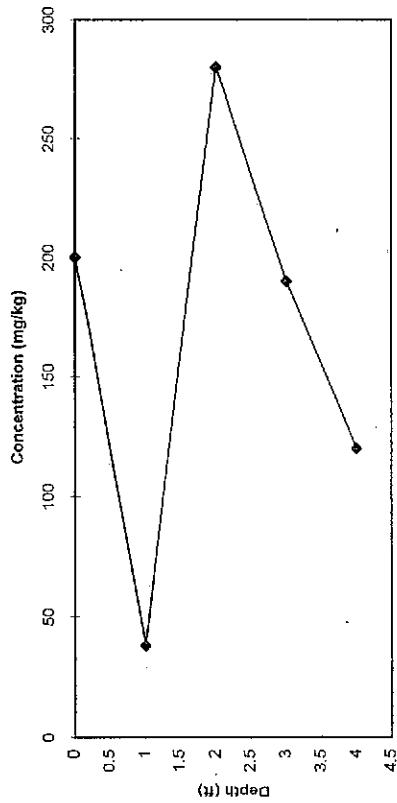


Average Soil Concentrations by Depth, EP-110

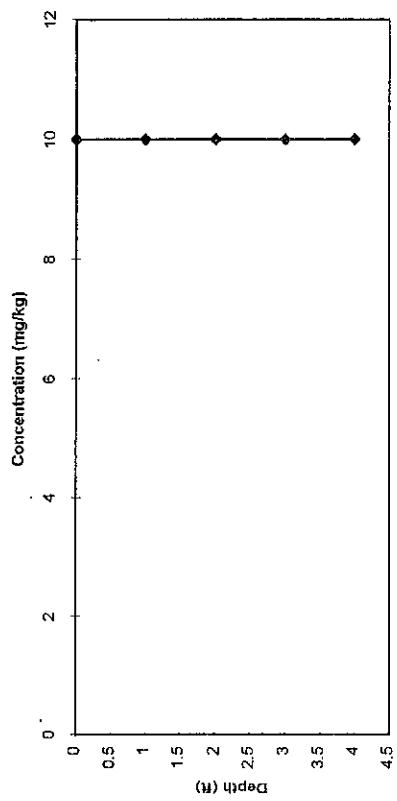


Average Soil Concentrations by Depth, EP-11f

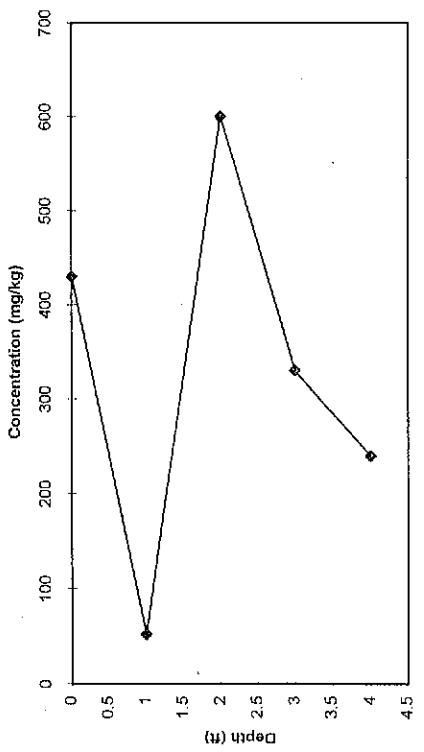
Zinc



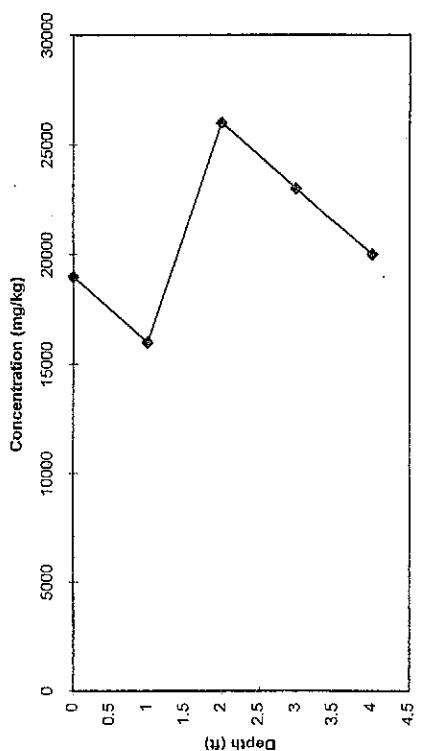
Selenium



Lead

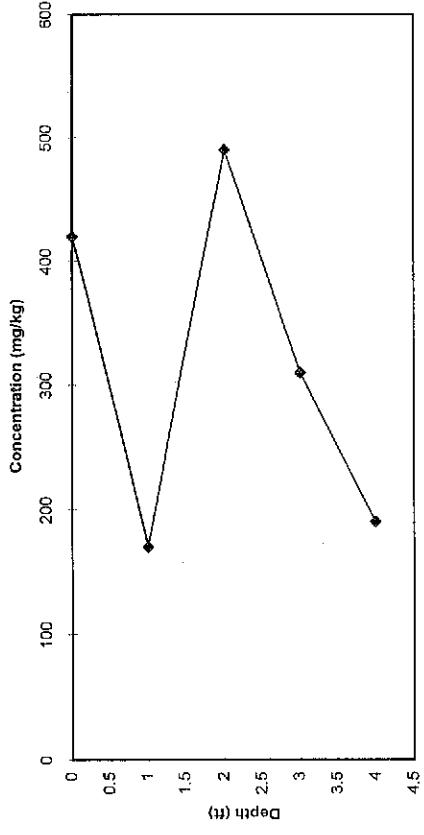


Iron

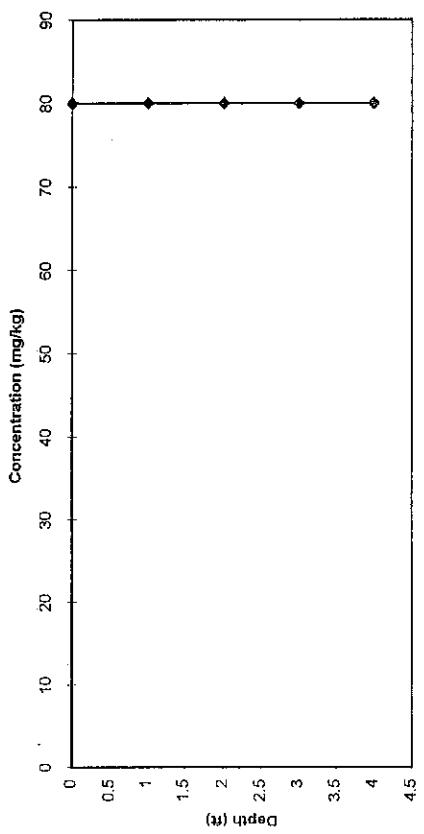


Average Soil Concentrations by Depth, EP-111

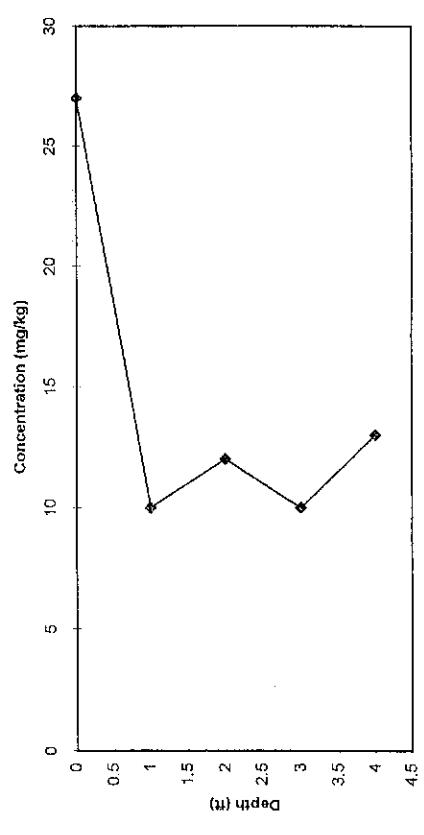
Copper



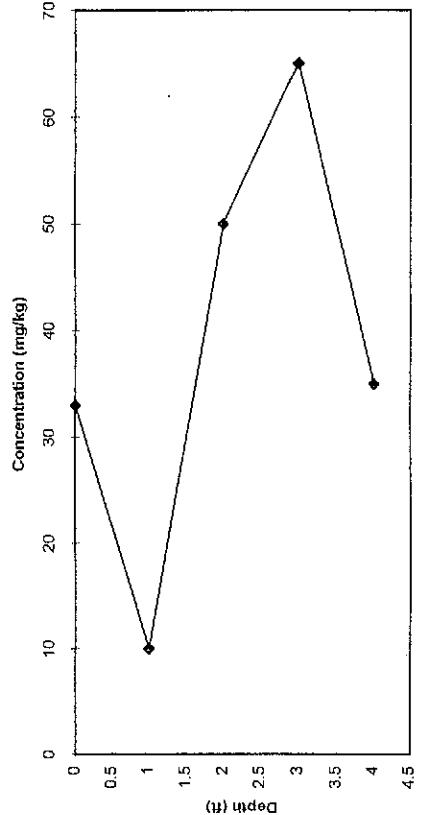
Chromium



Cadmium

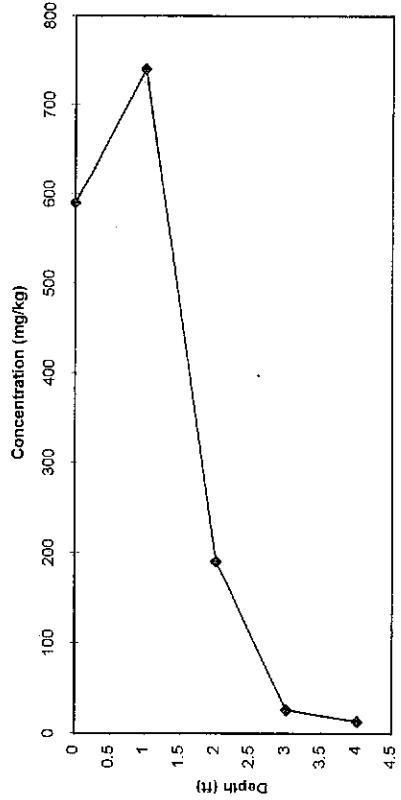


Arsenic

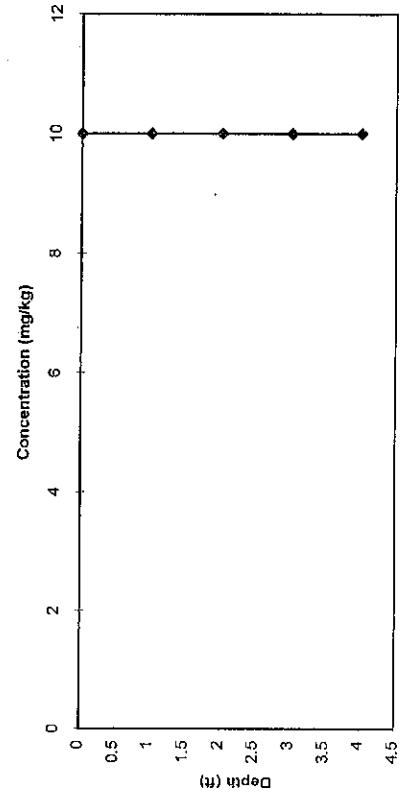


Average Soil Concentrations by Depth, EP-112

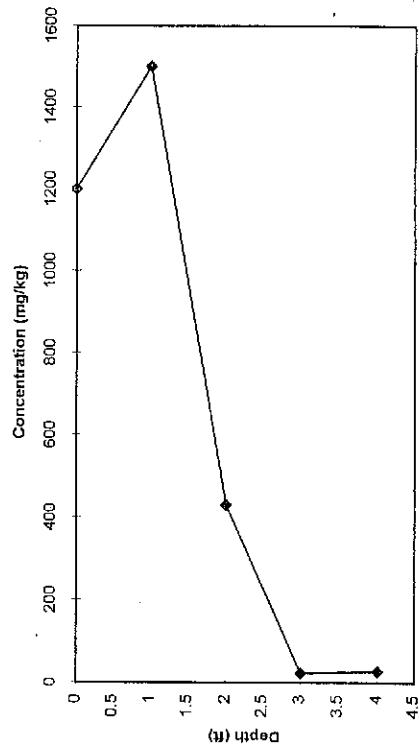
Zinc



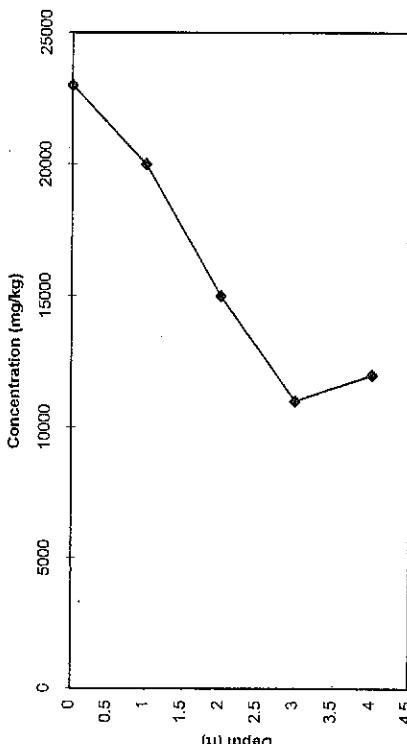
Selenium



Lead

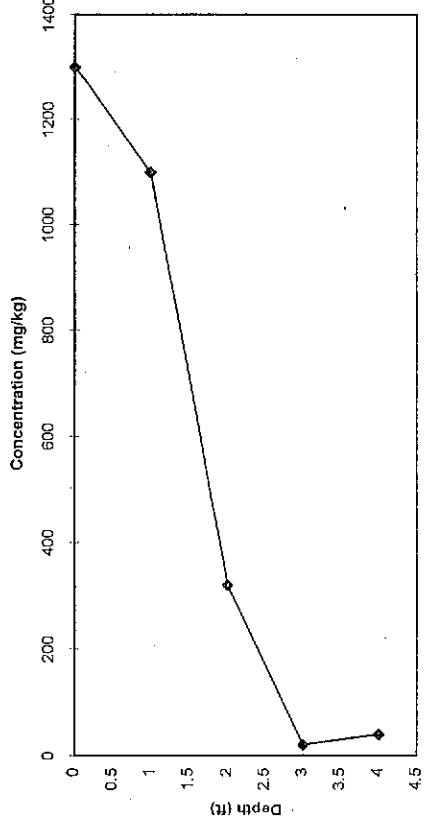


Iron

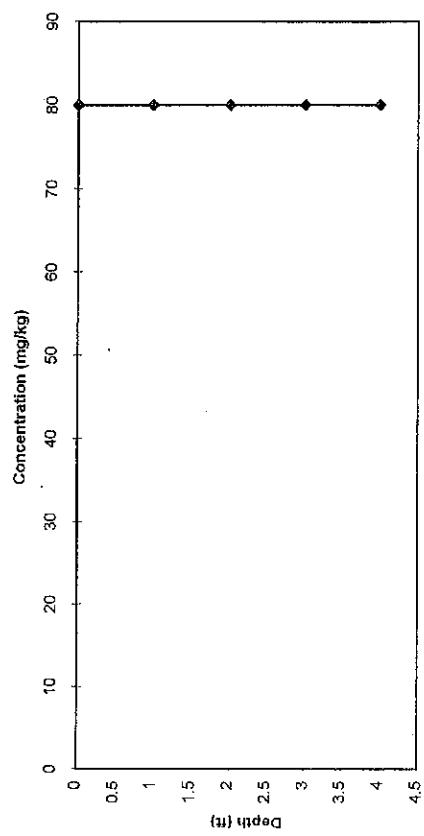


Average Soil Concentrations by Depth, EP-112

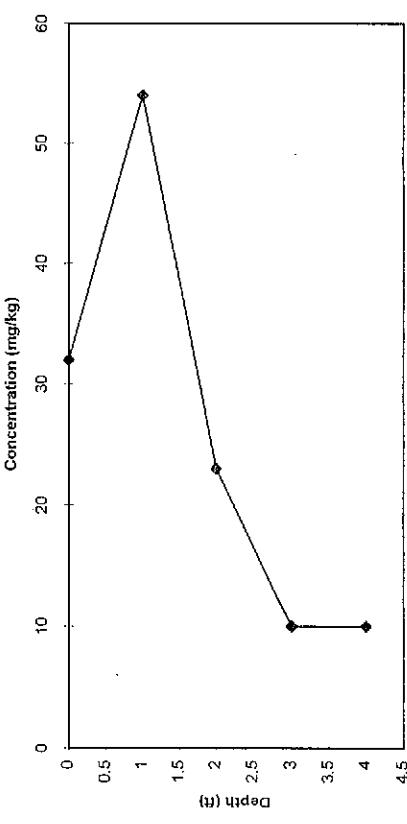
Copper



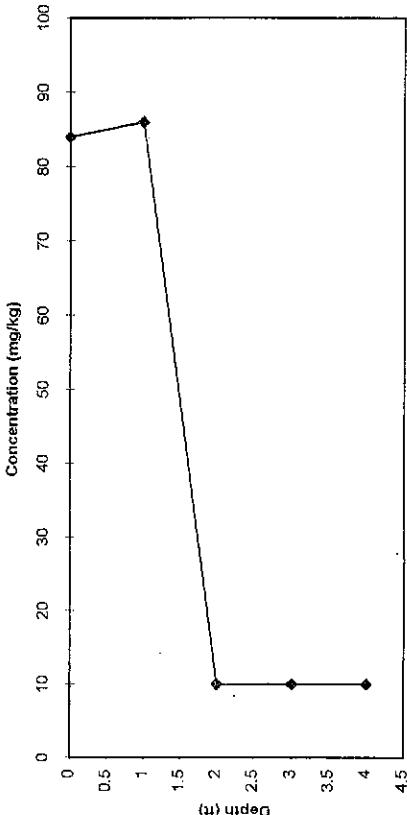
Chromium



Cadmium

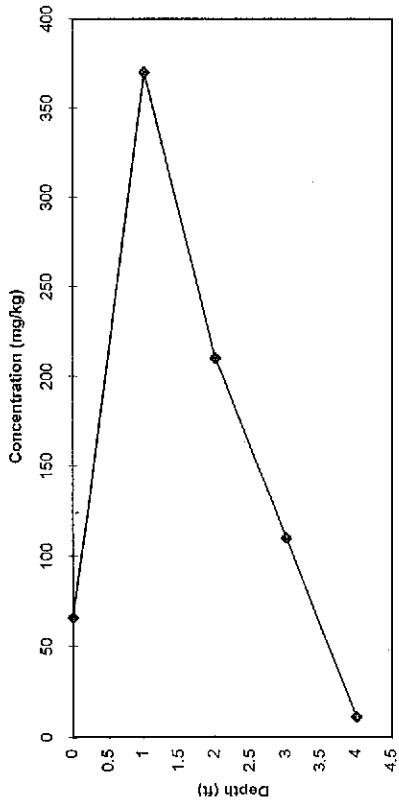


Arsenic

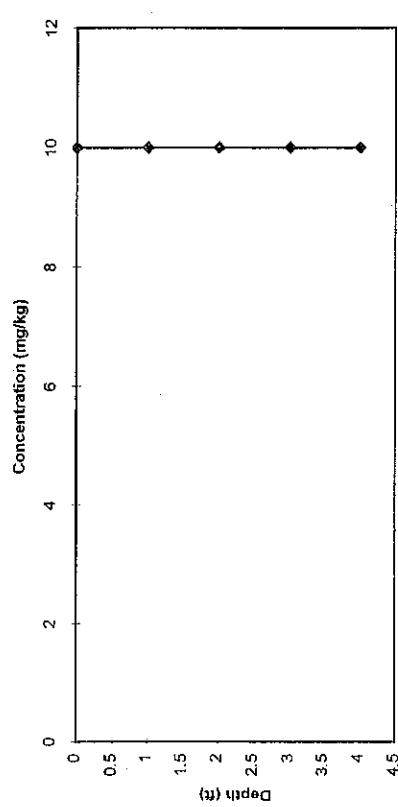


Average Soil Concentrations by Depth, EP-113

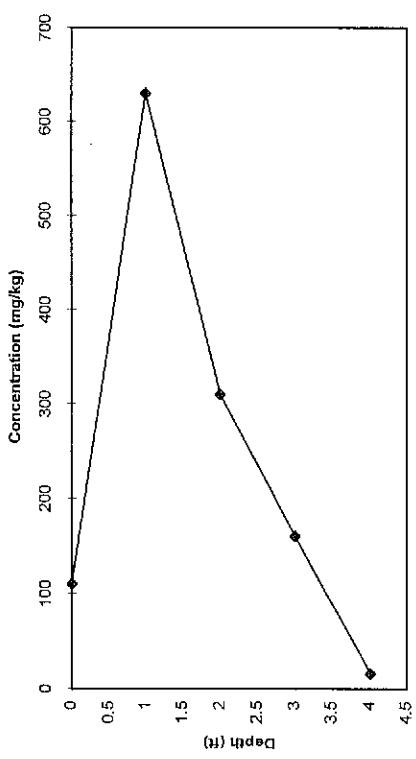
Zinc



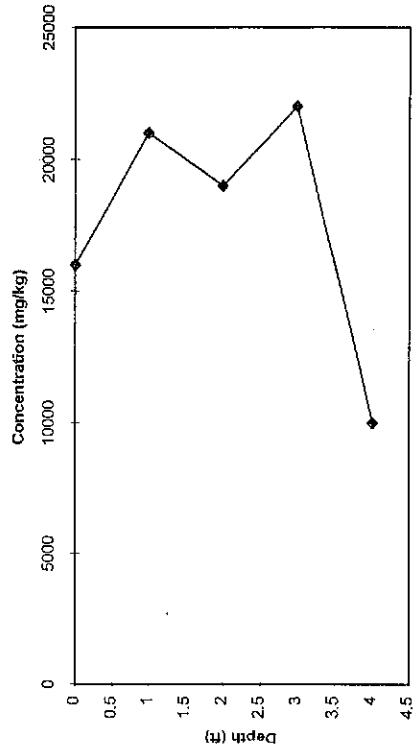
Selenium



Lead

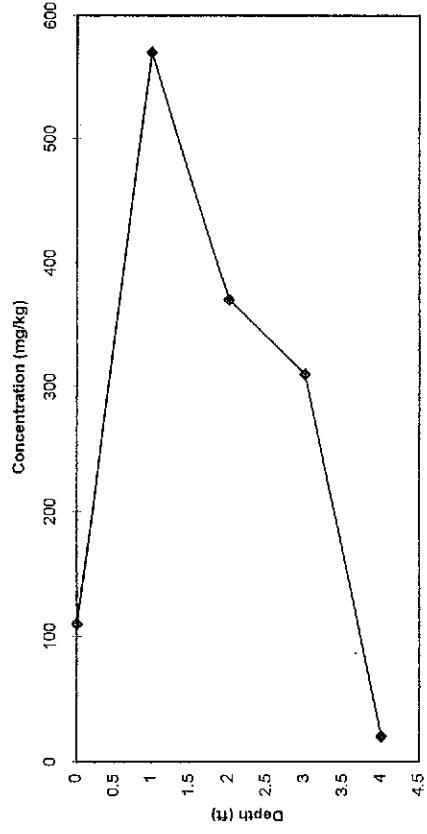


Iron

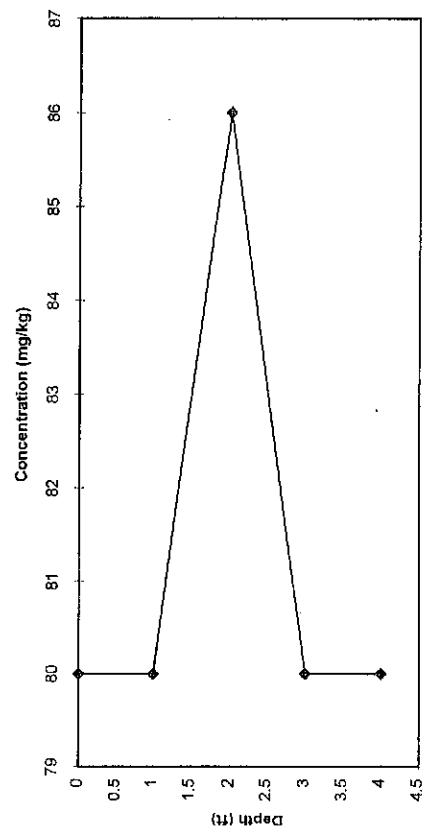


Average Soil Concentrations by Depth, EP-113

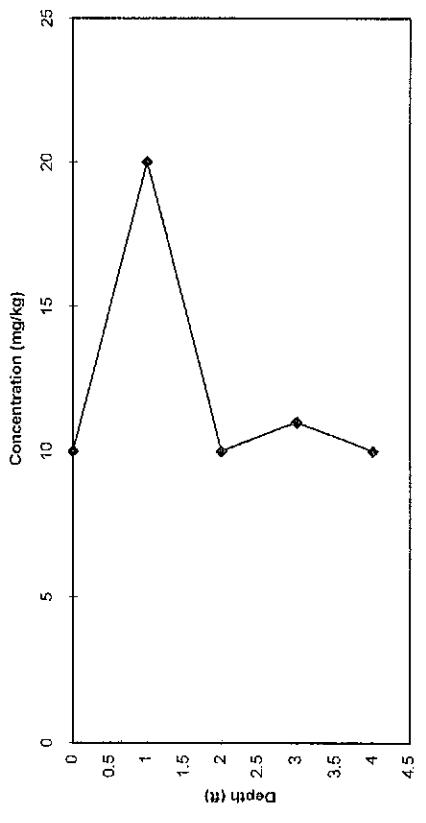
Copper



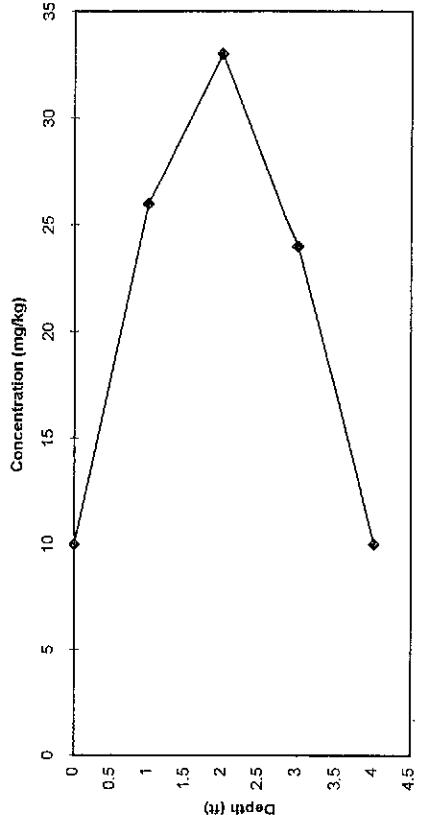
Chromium



Cadmium

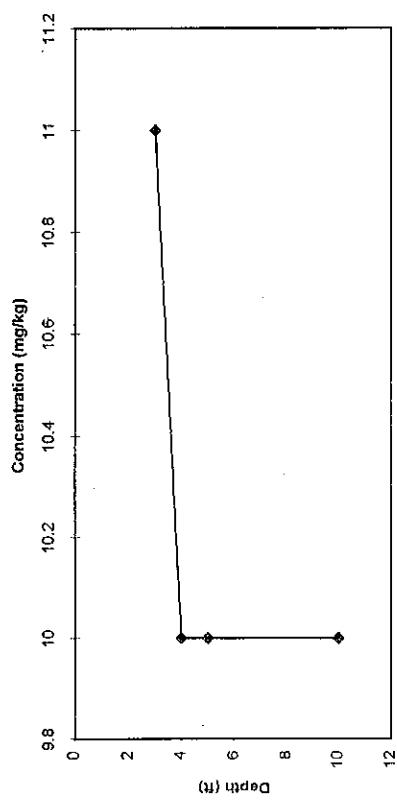


Arsenic

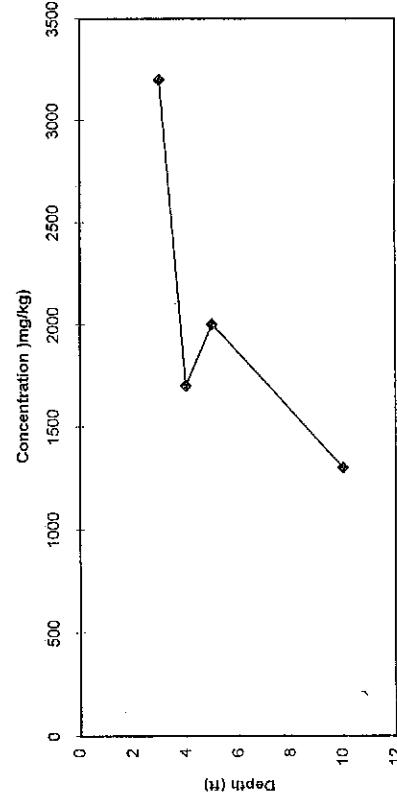


Average Soil Concentrations by Depth, EP-114

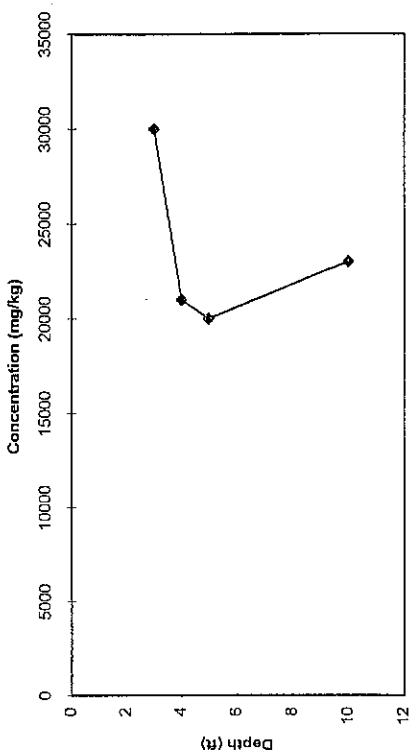
Selenium



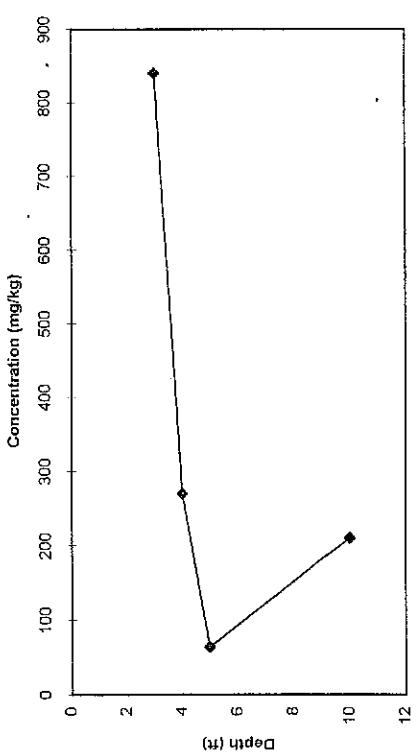
Zinc



Iron

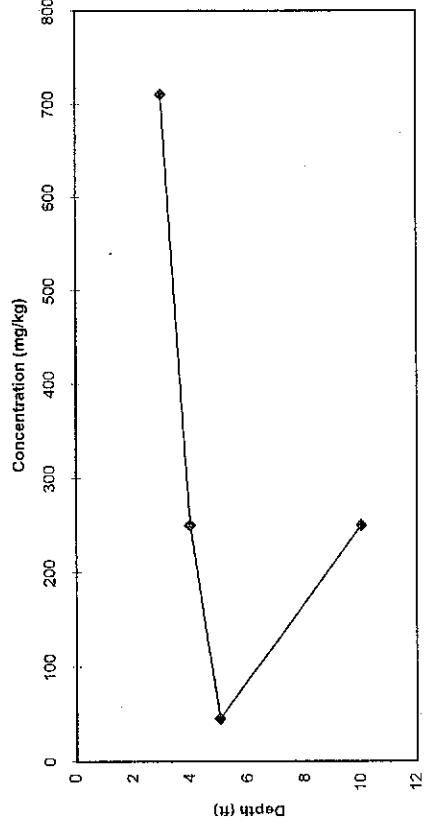


Lead

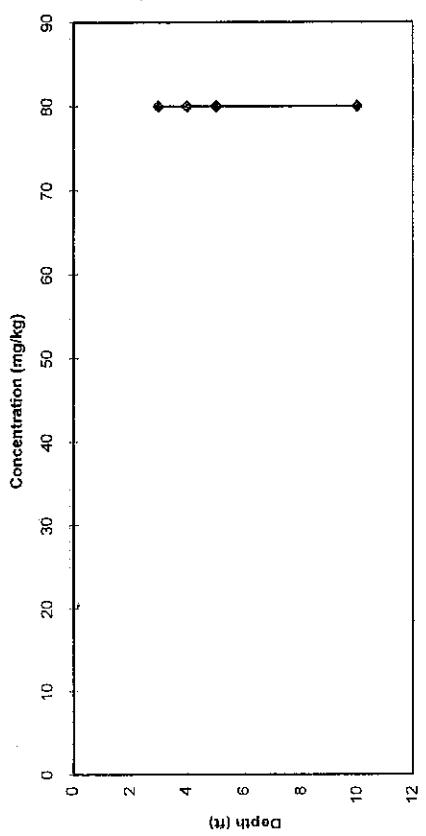


Average Soil Concentrations by Depth, EP-114

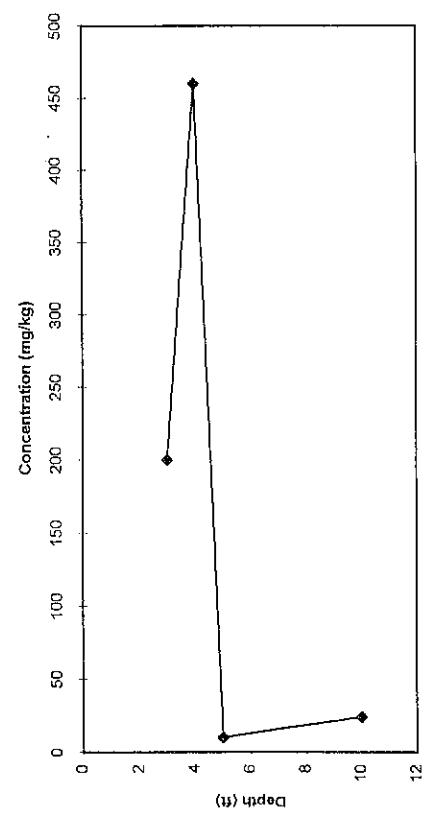
Copper



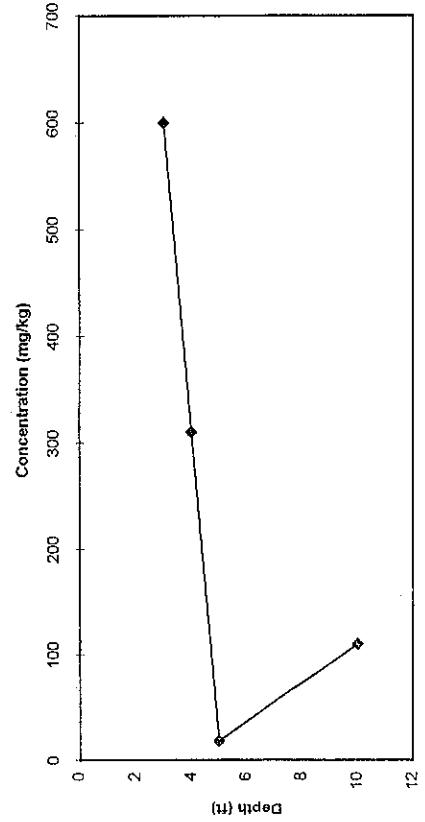
Chromium



Cadmium

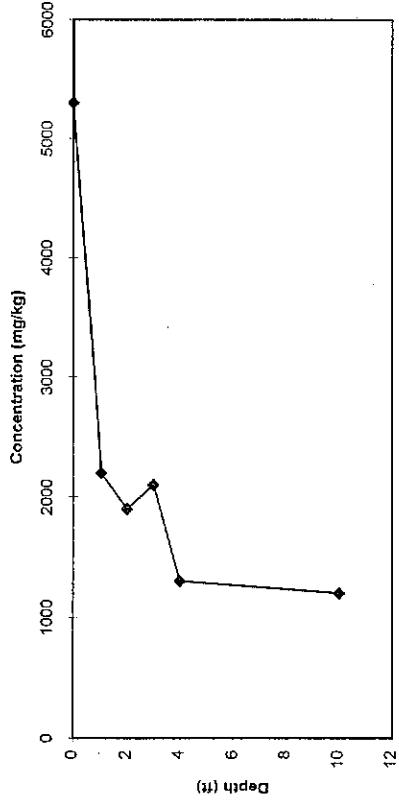


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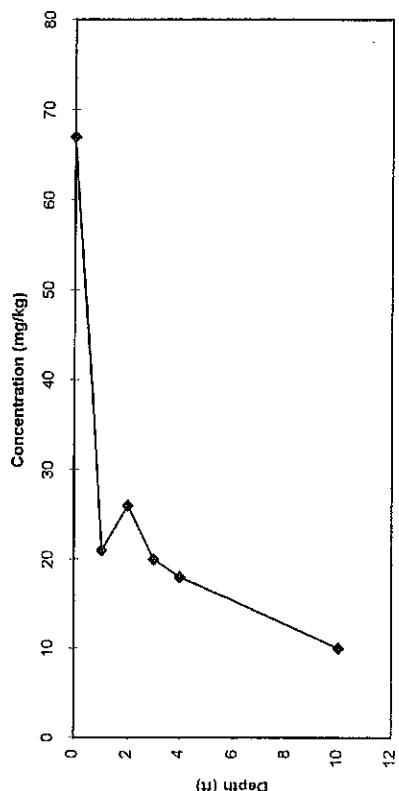


Average Soil Concentrations by Depth, EP-115

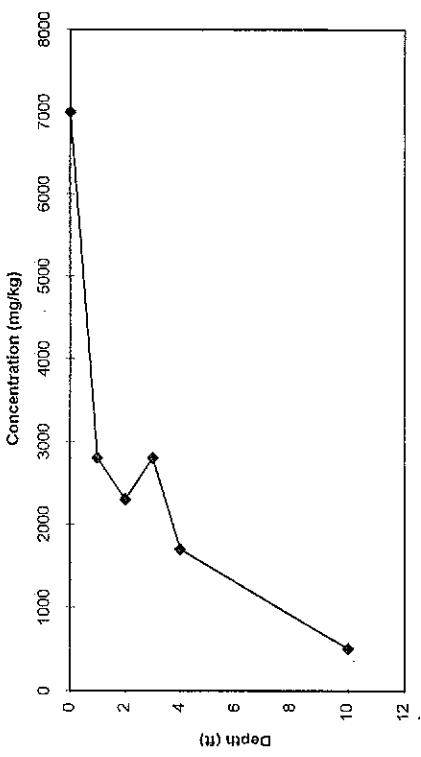
Zinc



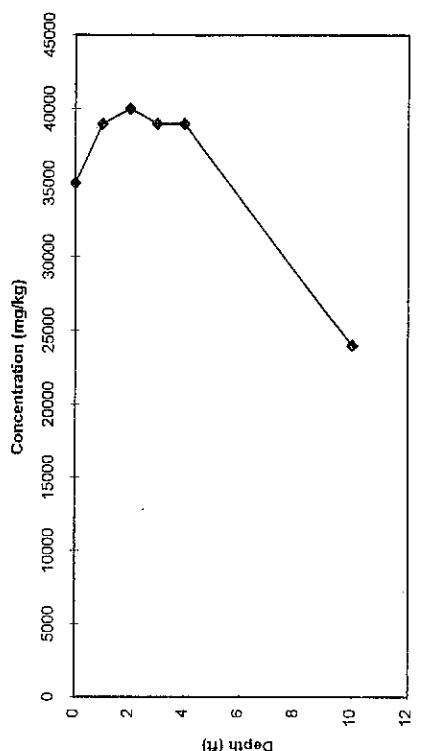
Selenium



Lead

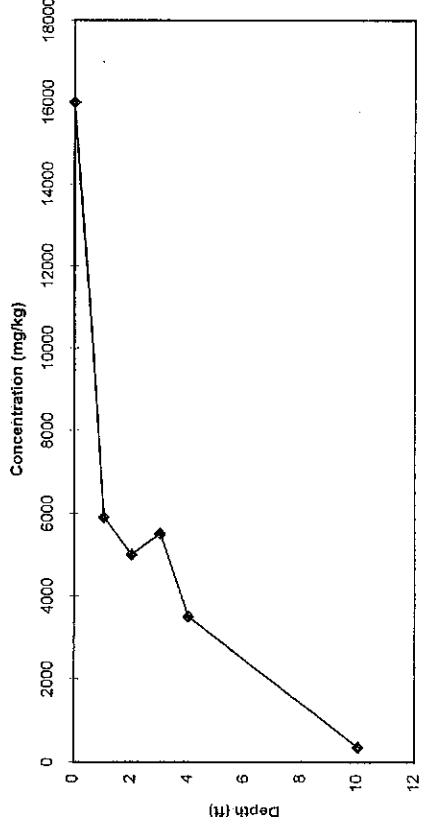


Iron

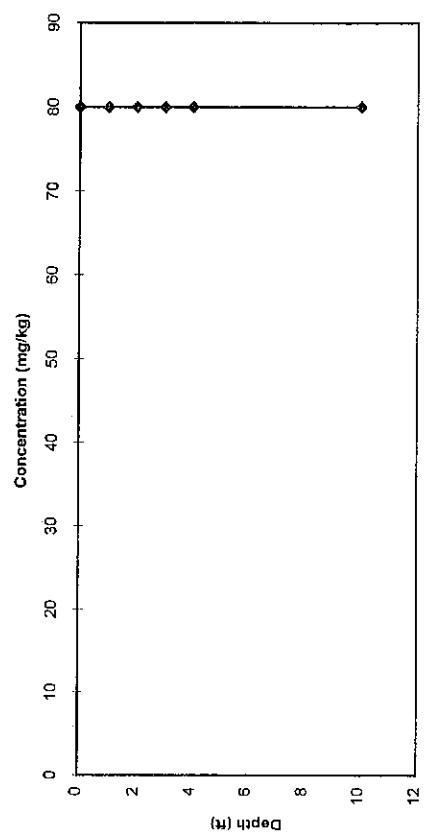


Average Soil Concentrations by Depth, EP-115

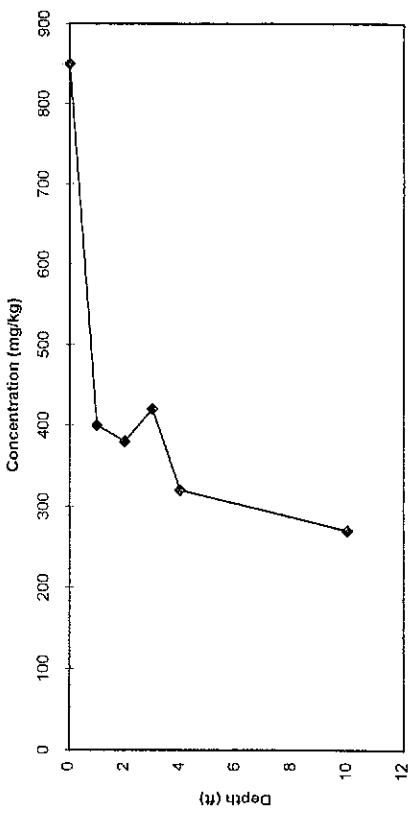
Copper



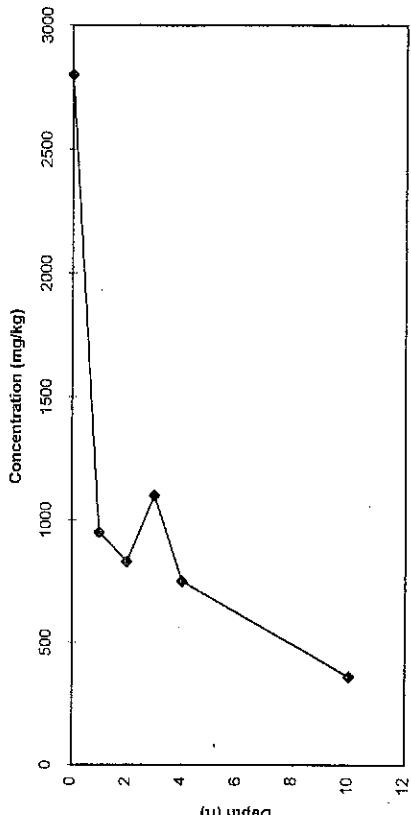
Chromium



Cadmium

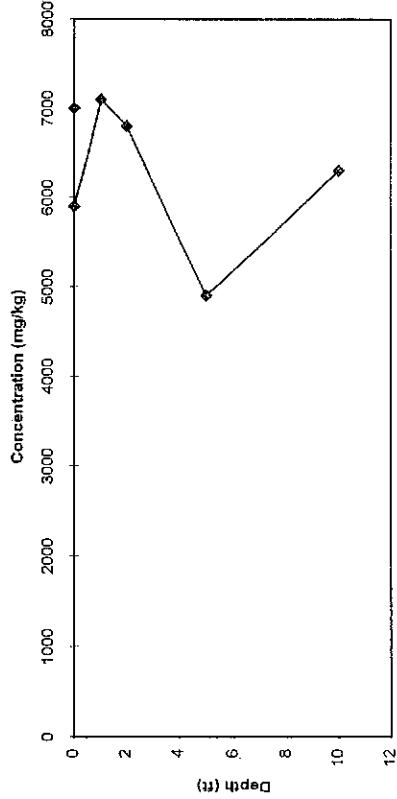


Arsenic

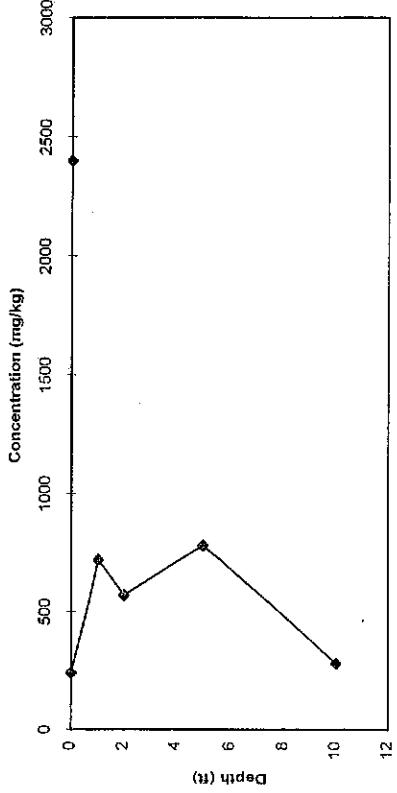


Average Soil Concentrations by Depth, EP-116

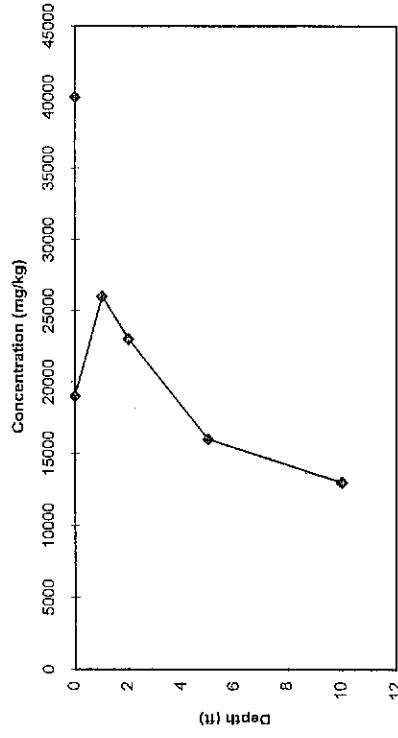
Zinc



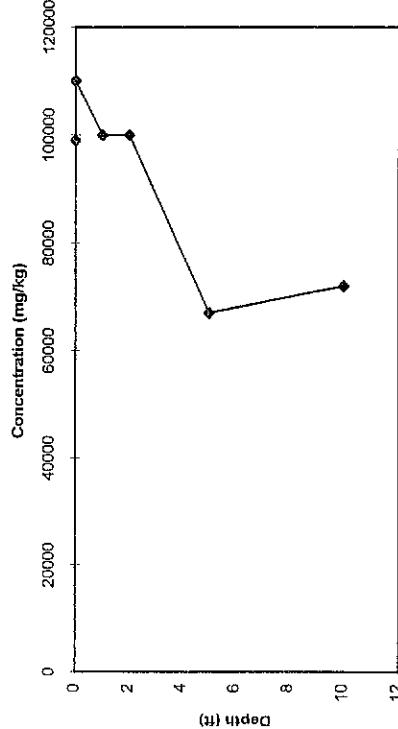
Selenium



Lead

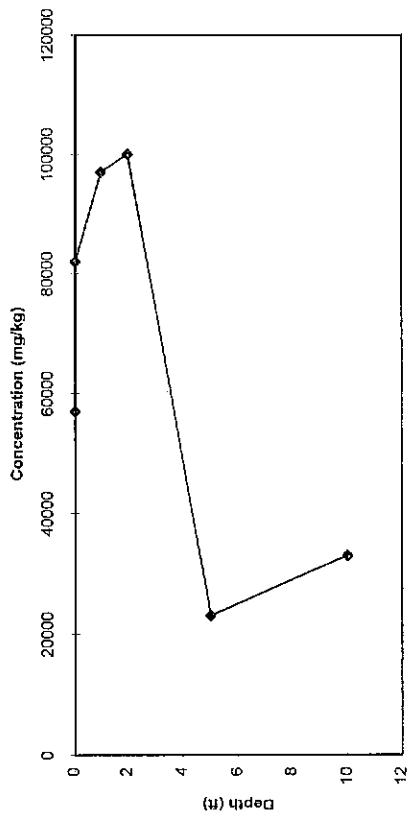


Iron

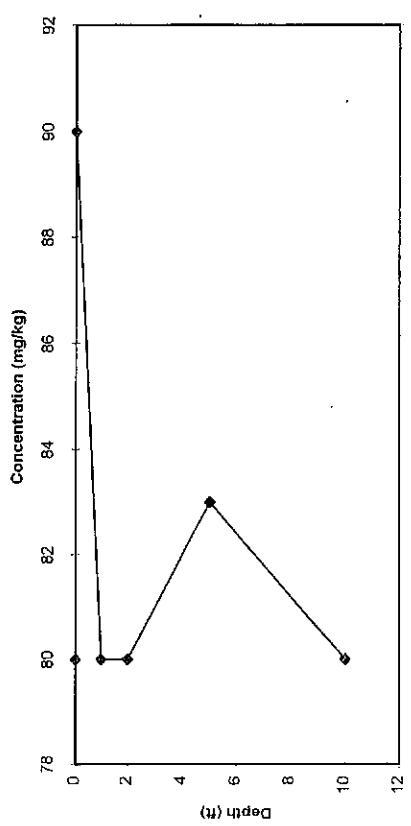


Average Soil Concentrations by Depth, EP-116

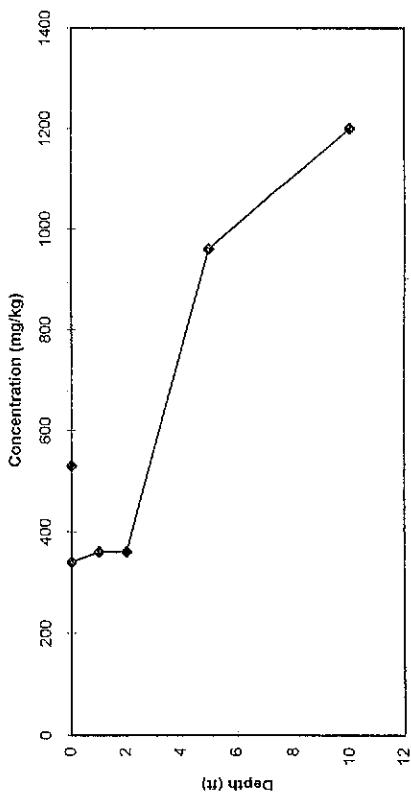
Copper



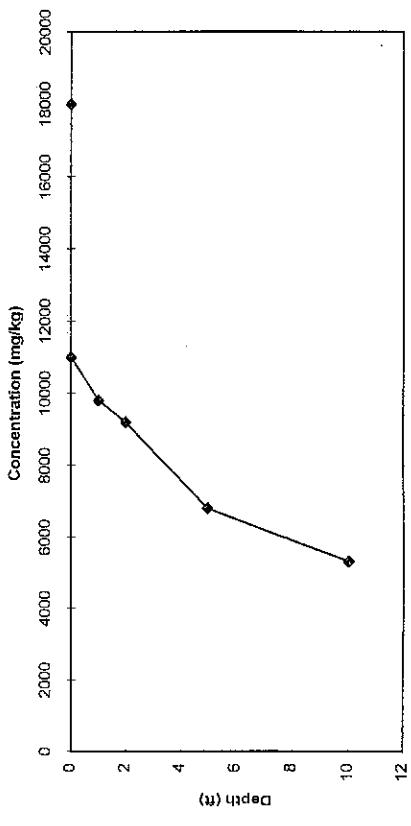
Chromium



Cadmium

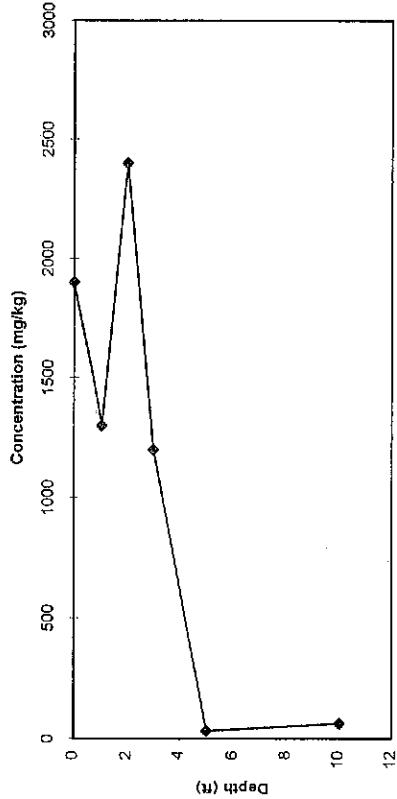


Arsenic

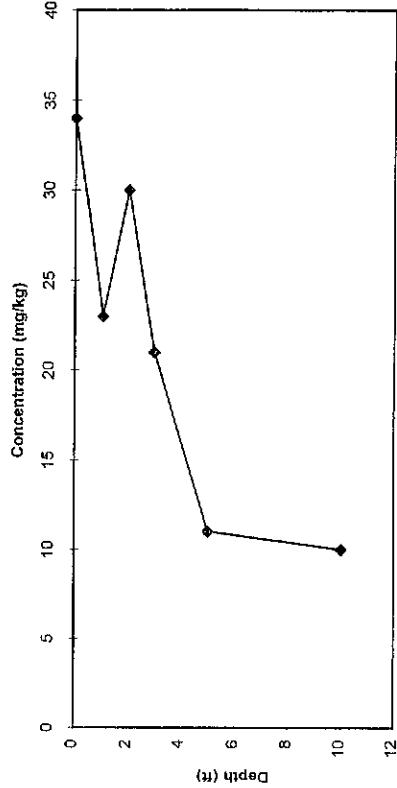


Average Soil Concentrations by Depth, EP-117

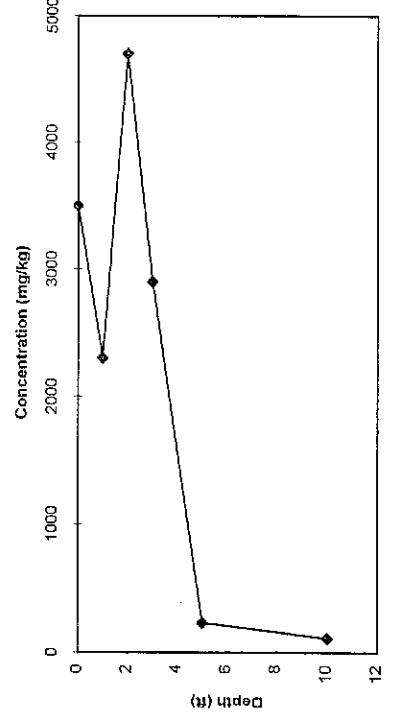
Zinc



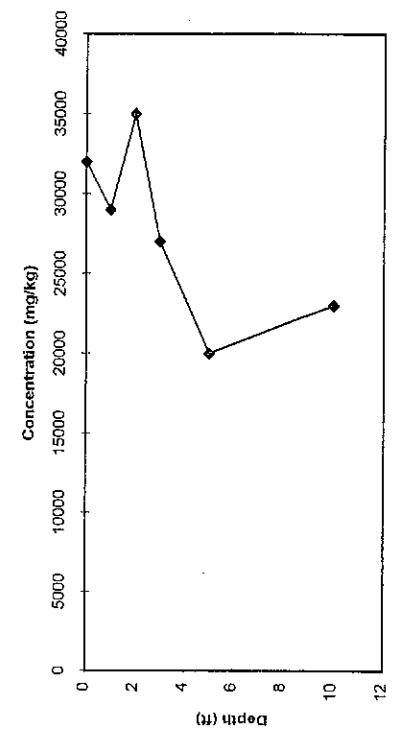
Selenium



Lead

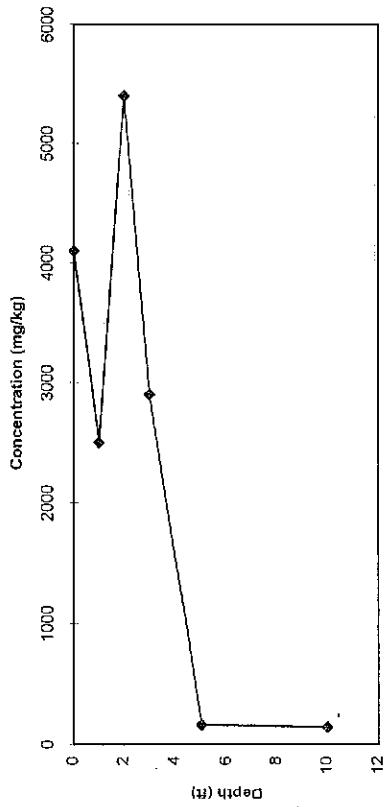


Iron

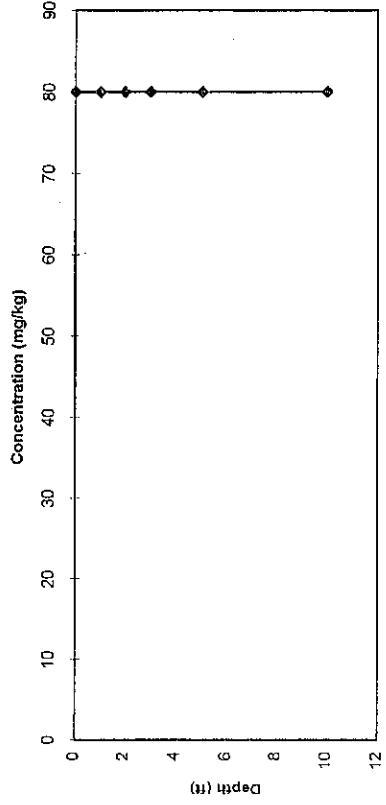


Average Soil Concentrations by Depth, EP-117

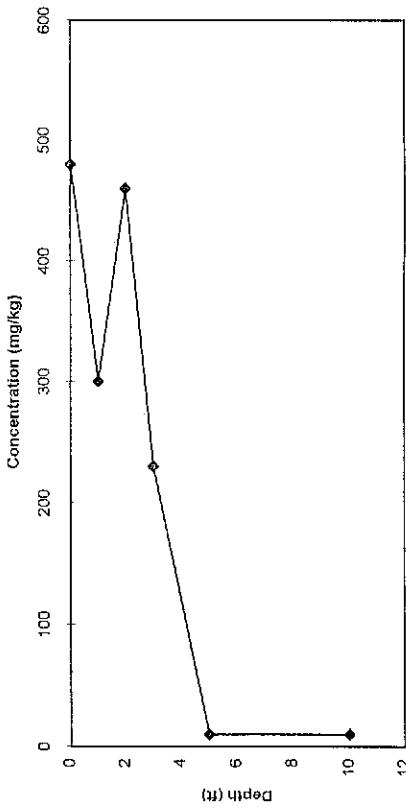
Copper



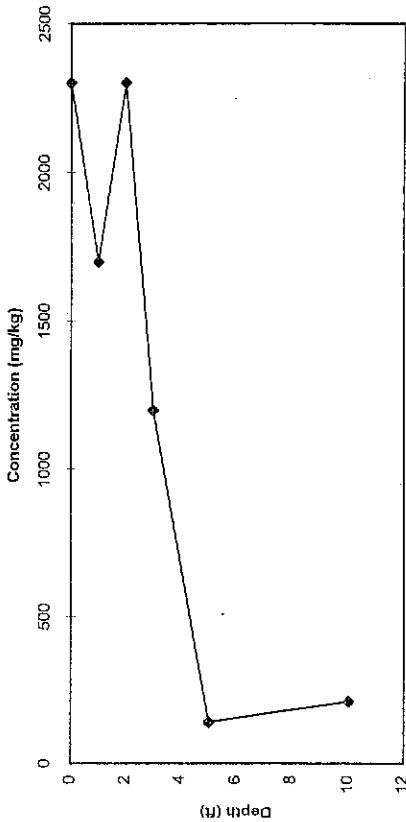
Chromium



Cadmium

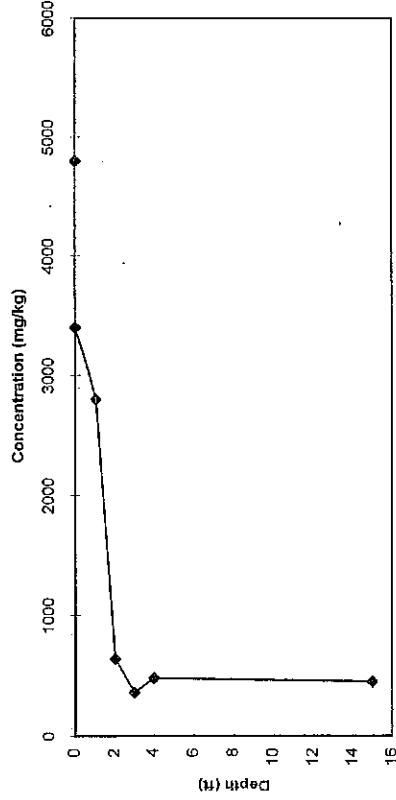


Arsenic

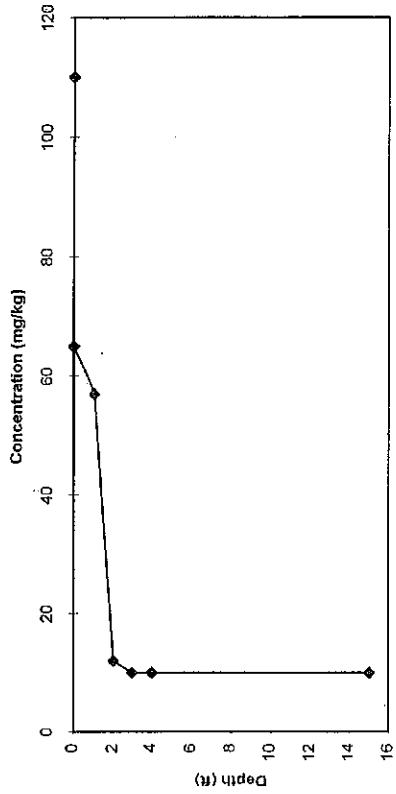


Average Soil Concentrations by Depth, EP-118

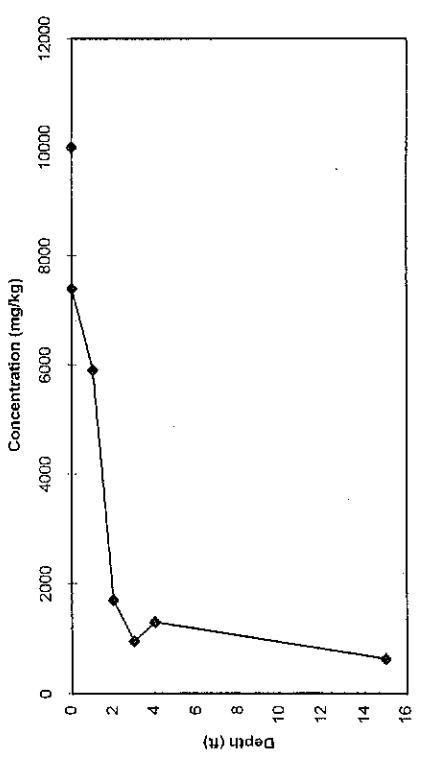
Zinc



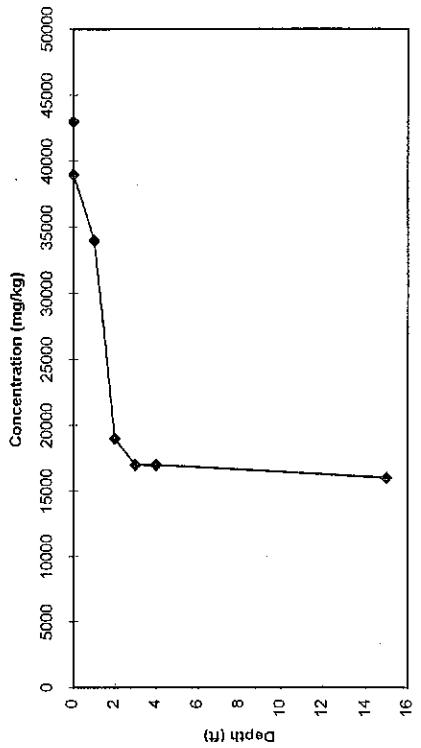
Selenium



Lead

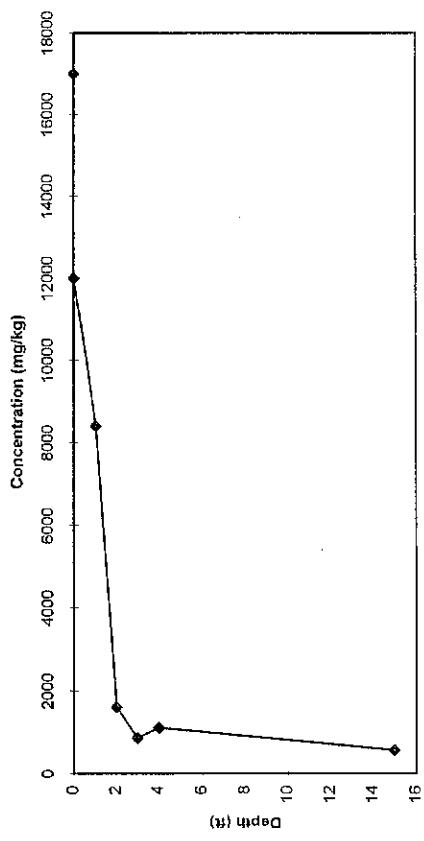


Iron

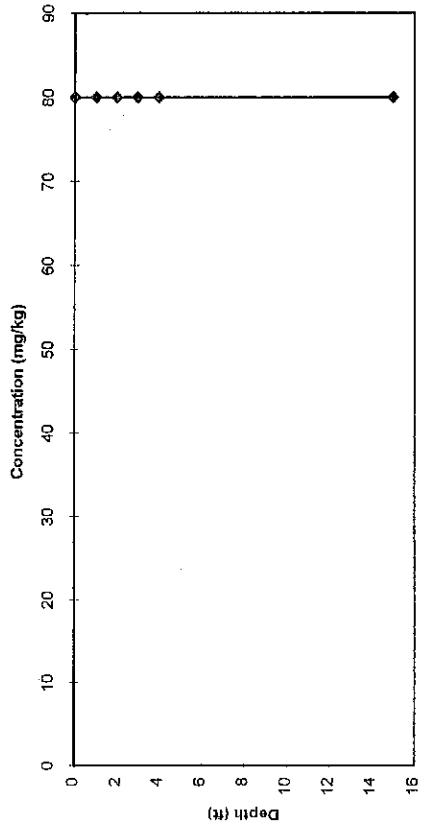


Average Soil Concentrations by Depth, EP-118

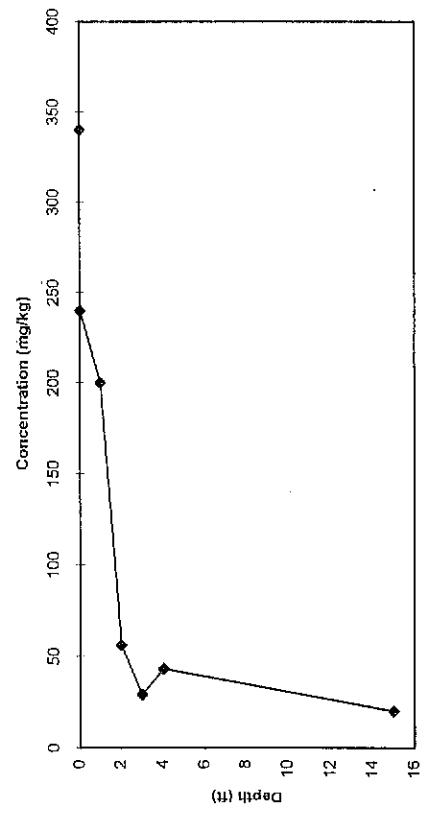
Copper



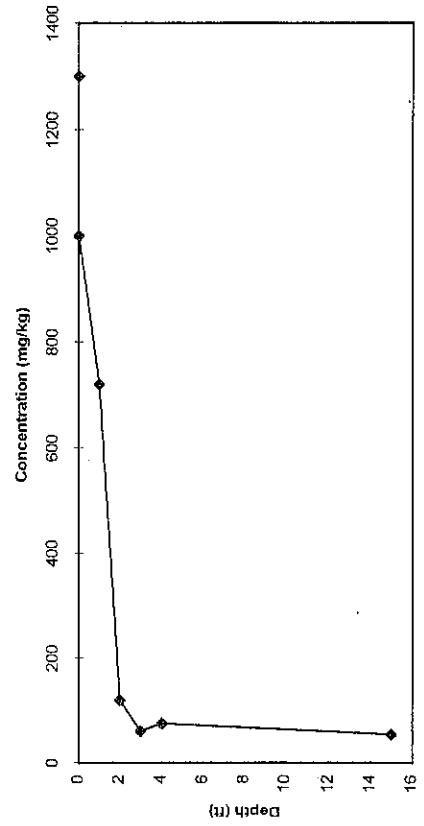
Chromium



Cadmium



Arsenic



APPENDIX F

SUMMARY OF SURFACE WATER QUALITY DATA

MAY 1998 TO FEBREUARY 2000

APPENDIX F

SUMMARY OF SURFACE WATER QUALITY DATA

MAY 1998 TO FEBRUARY 2000

APPENDIX F

SUMMARY OF SURFACE WATER QUALITY DATA

MAY 1998 TO FEBRUARY 2000

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TABLE F-1

**ANALYTICAL RESULTS FOR DISSOLVED METALS,
SURFACE WATER SAMPLES**

Table F-1. Summary of Surface Water Quality, August 1997 through August 1999
Dissolved Metals

| Site | Date | Samp # | Type | (O) | pH (lab) | pH (std) | Specific Conductivity SC (lab) | Specific Conductivity SC (std) | Arsenic (AS) DIS | Cadmium (Cd) DIS | Chromium (Cr) DIS | Copper (Cu) DIS | Iron (Fe) DIS | Lead (Pb) DIS | Selenium (Se) DIS | Zinc (Zn) DIS | |
|--------------------|-----------|---------------|------|-------|-------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|-------|
| POND 1 | 12/22/97 | EPR1-9711-182 | SW | 7.58 | 7.50 | 27200 | 24500 | 0.14 | 16 | 0.01 | U | 0.76 | 0.1 | U | 0.74 | | |
| POND 1 | 02/19/98 | EPR1-9802-171 | SW | 8.15 | 7.85 | 25600 | 22900 | 0.59 | 15 | 0.01 | U | 0.47 | 0.1 | U | 0.91 | | |
| POND 1 | 05/19/98 | EPR1-9805-171 | SW | 5.29 | 7.85 | 7.90 | 50100 | 49000 | 0.064 | 22 | 0.01 | U | 0.52 | 0.1 | U | 1.7 | |
| POND 1 | 8/18/98 | EPR1-9808-171 | SW | 4.10 | 7.82 | 8.1 | 126300 | 78300 | 0.22 | 35 | 0.010 | U | 0.75 | 0.10 | U | 0.49 | |
| POND 1 | 11/18/98 | EPR1-9811-171 | SW | 7.10 | 7.78 | 8.0 | 8260 | 8200 | 0.34 | 1.9 | 0.010 | U | 0.51 | 0.12 | U | 0.18 | |
| POND 1 | 2/19/99 | EPR1-9902-173 | SW | 12.3 | 8.12 | 8.1 | 19330 | 15540 | 0.19 | 6.2 | 0.01 | U | 0.49 | 0.1 | U | 0.38 | |
| POND 1 | 5/12/99 | EPR1-9905-174 | SW | 7.00 | 6.75 | 7.9 | 34600 | J3 | 35000 | 0.082 | 19 | 0.010 | U | 0.41 | 0.10 | U | |
| POND 1 | 8/8/1/99 | EPR1-9908-174 | SW | 4.2 | 7.68 | 7.9 | 46400 | 48100 | 0.42 | 18 | 0.01 | U | 1.5 | 0.11 | U | 0.35 | |
| Average | | | | 6.88 | 7.63 | 7.89 | 42224 | 35305 | 0.256 | 16,633.8 | 0.010 | U | 0.616 | 0.104 | U | 0.197 | |
| Median | | | | 7.00 | 7.75 | 7.9 | 36900 | 29750 | 0.205 | 17,000 | 0.010 | U | 0.515 | 0.100 | U | 0.185 | |
| Standard Deviation | | | | 2.84 | 0.42 | 0.20 | 36618 | 22796 | 0.182 | 10,019 | 0.000 | U | 0.357 | 0.007 | U | 0.149 | |
| Minimum | | | | 4.10 | 6.75 | 7.50 | 8260 | 8200 | 0.064 | 1.900 | 0.010 | U | 0.410 | 0.100 | U | 0.049 | |
| Maximum | | | | 12.30 | 8.12 | 8.10 | 126300 | 78300 | 0.590 | 35,000 | 0.010 | U | 1.500 | 0.120 | U | 0.490 | |
| POND 5 | 12/22/97 | EPR1-9711-183 | SW | 7.11 | 7.20 | 975 | 1289 | 0.098 | 0.054 | 0.01 | U | 0.75 | 0.3 | U | 0.19 | | |
| POND 5 | 02/19/98 | EPR1-9802-172 | SW | 7.33 | 7.99 | 7.50 | 1152 | 1160 | 0.14 | 15 | 0.01 | U | 0.34 | 0.22 | U | 0.26 | |
| POND 5 | 05/19/98 | EPR1-9805-172 | SW | 8.12 | 9.17 | 8.90 | 1351 | 1338 | 0.081 | 0.021 | 0.01 | U | 0.2 | 0.1 | U | 0.092 | |
| POND 5 | 8/18/98 | EPR1-9808-172 | SW | 5.28 | 6.76 | 6.7 | 1970 | 1972 | 0.21 | 0.067 | 0.010 | U | 0.33 | 0.10 | U | 0.019 | |
| Average | | | | 6.91 | 7.76 | 7.58 | 1362 | 1440 | 0.132 | 3,786 | 0.010 | U | 0.405 | 0.180 | U | 0.140 | |
| Median | | | | 7.33 | 7.55 | 7.35 | 1252 | 1314 | 0.119 | 0.061 | 0.010 | U | 0.335 | 0.160 | U | 0.141 | |
| Standard Deviation | | | | 1.47 | 1.07 | 0.94 | 433 | 363 | 0.057 | 7.476 | 0.000 | U | 0.239 | 0.098 | U | 0.106 | |
| Minimum | | | | 5.28 | 6.76 | 6.70 | 975 | 1160 | 0.061 | 0.021 | 0.010 | U | 0.200 | 0.100 | U | 0.019 | |
| Maximum | | | | 8.12 | 9.17 | 8.90 | 1970 | 1972 | 0.210 | 15,000 | 0.010 | U | 0.750 | 0.300 | U | 0.260 | |
| POND 6 | 12/22/97 | EPR1-9711-184 | SW | 7.61 | 7.70 | 5330 | 5870 | 3.7 | 0.15 | 0.01 | U | 0.96 | 0.37 | U | 0.14 | | |
| POND 6 | 02/19/98 | EPR1-9802-173 | SW | 5.9 | 8.10 | 7.80 | 3960 | 4430 | 1.8 | 0.13 | 0.01 | U | 1 | 0.76 | U | 0.25 | |
| POND 6 | 05/19/98 | EPR1-9805-173 | SW | 8.23 | 9.22 | 9.10 | 4650 | 4650 | 2.7 | 0.059 | 0.01 | U | 0.27 | 0.1 | U | 0.004 | |
| POND 6 | 8/18/98 | EPR1-9808-173 | SW | 4.83 | 8.41 | 8.6 | 5390 | 5340 | 0.88 | 0.12 | 0.010 | U | 0.22 | 0.10 | U | 0.066 | |
| POND 6 | 11/12/98 | EPR1-9811-173 | SW | 6.90 | 8.10 | 8.2 | 4540 | 4270 | 1.5 | 0.27 | 0.010 | U | 0.54 | 0.10 | U | 0.093 | |
| POND 6 | 2/19/99 | EPR1-9902-175 | SW | 10.80 | 8.75 | 8.5 | 2610 | 2290 | 0.59 | 0.041 | 0.01 | U | 0.27 | 0.1 | U | 0.065 | |
| POND 6 | 5/12/99 | EPR1-9905-176 | SW | 9.20 | 8.85 | 8.9 | 2450 | J3 | 2540 | 0.90 | 0.044 | 0.010 | U | 0.18 | 0.10 | U | 0.054 |
| POND 6 | 8/8/1/99 | EPR1-9908-176 | SW | 7 | 8.79 | 8.8 | 1773 | 1726 | 0.4 | 0.047 | 0.01 | U | 0.25 | 0.1 | U | 0.052 | |
| Average | | | | 7.57 | 8.48 | 8.45 | 3838 | 3888 | 1,559 | 0.110 | 0.010 | U | 0.461 | 0.216 | U | 0.091 | |
| Median | | | | 7.00 | 8.58 | 8.55 | 4230 | 4350 | 0.092 | 0.010 | U | 0.270 | 0.100 | U | 0.066 | | |
| Standard Deviation | | | | 2.03 | 0.52 | 0.51 | 1389 | 1516 | 1.142 | 0.077 | 0.000 | U | 0.338 | 0.239 | U | 0.075 | |
| Minimum | | | | 4.83 | 7.61 | 7.70 | 1773 | 1726 | 0.400 | 0.041 | 0.010 | U | 0.180 | 0.100 | U | 0.004 | |
| Maximum | | | | 10.80 | 9.22 | 9.10 | 5390 | 5870 | 3,700 | 0.270 | 0.010 | U | 1.000 | 0.760 | U | 0.250 | |
| SEP-1 | 08/15/97 | EPR1-9708-163 | SW | 6.03 | 8.33 | 8.30 | 910 | 873 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 | U | 0.005 |
| SEP-1 | 11/10/97 | EPR1-9711-163 | SW | 12.17 | 8.04 | 8.00 | 4660 | 4680 | 0.82 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | |
| SEP-1 | 02/13/98 | EPR1-9802-161 | SW | 7.38 | 7.90 | 4580 | 868 | 0.62 | 0.13 | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | |
| SEP-1 | 05/20/98 | EPR1-9805-184 | SW | 6.79 | 8.75 | 8.20 | 1095 | 967 | 0.007 | 0.005 | 0.01 | U | 0.025 | U | 0.1 | U | |
| SEP-1 | 8/11/98 | EPR1-9811-161 | SW | 5.90 | 8.46 | 8.3 | 951 | 958 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 0.003 | |
| SEP-1 | 2/19/99 | EPR1-9902-156 | SW | 10.90 | 8.54 | 8.3 | 2100 | 1831 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 0.005 | |
| SEP-1 | 5/12/99 | EPR1-9905-157 | SW | 5.00 | 7.48 | 8.0 | 1172 | J3 | 1319 | 0.005 | U | 0.010 | U | 0.025 | U | 0.003 | |
| SEP-1 | 8/8/20/99 | EPR1-9908-157 | SW | 5.1 | 8.05 | 8.3 | 918 | 913 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 | U | |
| Average | | | | 7.41 | 8.14 | 8.16 | 2048 | 1551 | 0.185 | 0.021 | 0.010 | U | 0.025 | 0.100 | U | 0.02 | |
| Median | | | | 6.03 | 8.215 | 8.25 | 1134 | 963 | 0.007 | 0.005 | 0.010 | U | 0.025 | 0.100 | U | 0.02 | |
| Standard Deviation | | | | 2.90 | 0.50 | 0.17 | 1634 | 1307 | 0.355 | 0.044 | 0.000 | U | 0.000 | 0.000 | U | 0.002 | |
| Minimum | | | | 5.00 | 7.38 | 7.90 | 910 | 868 | 0.005 | 0.005 | 0.010 | U | 0.025 | 0.100 | U | 0.020 | |
| Maximum | | | | 12.17 | 8.75 | 8.30 | 4660 | 4680 | 0.130 | 0.010 | 0.025 | U | 0.100 | 0.004 | U | 0.025 | |

Table F-1. Summary of Surface Water Quality, August 1997 through August 1999
Dissolved Metals

| | | | (O) | pH | Specific Conductivity | Specific Conductivity | Arsenic | Cadmium | Chromium | Copper | Iron | Lead | Selenium | Zinc |
|---------------------------|----------|---------------|-----|-------|-----------------------|-----------------------|---------|---------|----------|--------|-------|------|----------|-------|
| SEP-10 | 08/15/97 | EPRI-9708-175 | SW | 6.22 | 8.40 | 835 | 813 | 0.005 | U | 0.025 | U | 0.1 | U | 0.005 |
| SEP-10 | 08/15/97 | EPRI-9708-179 | SW | 6.22 | 8.40 | 830 | 837 | 0.005 | U | 0.025 | U | 0.1 | U | 0.005 |
| SEP-10 | 11/19/97 | EPRI-9711-181 | SW | 7.32 | 8.38 | 8.50 | 1970 | 0.007 | 0.005 | U | 0.025 | U | 0.003 | U |
| SEP-10 | 02/13/98 | EPRI-9802-167 | SW | 8.29 | 8.30 | 1474 | 230 | 0.006 | U | 0.025 | U | 0.1 | U | 0.005 |
| SEP-10 | 05/19/98 | EPRI-9805-167 | SW | 7.43 | 8.84 | 8.30 | 1066 | 1072 | 0.005 | U | 0.025 | U | 0.003 | U |
| SEP-10 | 05/19/98 | EPRI-9805-181 | SW | | | 8.40 | 1066 | 0.005 | U | 0.025 | U | 0.1 | U | 0.005 |
| SEP-10 | 8/18/98 | EPRI-9808-167 | SW | 6.50 | 8.58 | 8.7 | 969 | 875 | 0.005 | U | 0.025 | U | 0.003 | U |
| SEP-10 | 11/18/98 | EPRI-9811-167 | SW | 7.50 | 8.32 | 8.4 | 1894 | 1882 | 0.007 | U | 0.025 | U | 0.003 | U |
| SEP-10 | 2/19/99 | EPRI-9902-162 | SW | 10.40 | 8.41 | 8.2 | 2060 | 1675 | 0.005 | U | 0.025 | U | 0.003 | U |
| SEP-10 | 5/13/99 | EPRI-9905-163 | SW | 6.00 | 7.14 | 8.3 | 1153 | 1068 | 0.005 | U | 0.025 | U | 0.003 | U |
| SEP-10 | 08/20/99 | EPRI-9908-163 | SW | 5.3 | 8.17 | 8.2 | 892 | 889 | 0.005 | U | 0.025 | U | 0.003 | U |
| Average | | | | 6.99 | 8.79 | 8.36 | 1292 | 1151 | 0.005 | | 0.010 | | 0.005 | |
| Median | | | | 6.50 | 8.39 | 8.3 | 1066 | 979 | 0.005 | | 0.010 | | 0.003 | |
| Standard Deviation | | | | 1.48 | 0.44 | 0.14 | 474 | 586 | 0.001 | | 0.000 | | 0.000 | |
| Minimum | | | | 5.30 | 7.14 | 8.20 | 835 | 230 | 0.005 | | 0.010 | | 0.003 | |
| Maximum | | | | 10.40 | 8.34 | 8.70 | 2060 | 2180 | 0.007 | | 0.010 | | 0.003 | |
| SEP-11 | 08/15/97 | EPRI-9708-176 | SW | 6.33 | 8.42 | 8.10 | 814 | 810 | 0.005 | U | 0.025 | U | 0.003 | U |
| SEP-11 | 11/10/97 | EPRI-9711-177 | SW | 6.97 | 8.30 | 1933 | 1741 | 0.009 | U | 0.025 | U | 0.1 | U | 0.021 |
| SEP-11 | 02/13/98 | EPRI-9802-168 | SW | | 8.32 | 8.40 | 1447 | 228 | 0.006 | U | 0.025 | U | 0.1 | U |
| SEP-11 | 05/19/98 | EPRI-9805-168 | SW | 7.19 | 8.79 | 8.50 | 1071 | 1063 | 0.005 | U | 0.025 | U | 0.025 | U |
| SEP-11 | 8/18/98 | EPRI-9808-168 | SW | 6.43 | 8.59 | 8.7 | 968 | 859 | 0.006 | U | 0.025 | U | 0.025 | U |
| SEP-11 | 11/18/98 | EPRI-9811-168 | SW | 7.80 | 8.53 | 8.5 | 1877 | 1860 | 0.007 | U | 0.025 | U | 0.010 | U |
| SEP-11 D | 11/18/98 | EPRI-9811-182 | SW | | 8.5 | 1885 | 1007 | 0.007 | U | 0.025 | U | 0.10 | U | 0.020 |
| SEP-11 | 2/19/99 | EPRI-9902-163 | SW | 10.90 | 8.47 | 8.3 | 2060 | 1633 | 0.005 | U | 0.025 | U | 0.1 | U |
| SEP-11 | 5/13/99 | EPRI-9905-164 | SW | 5.80 | 7.06 | 8.4 | 1151 | 1099 | 0.005 | U | 0.010 | U | 0.003 | U |
| SEP-11 D | 5/13/99 | EPRI-9905-191 | SW | 5.70 | 7.07 | 8.4 | 1154 | 1101 | 0.005 | U | 0.025 | U | 0.010 | U |
| SEP-11 | 08/20/99 | EPRI-9908-164 | SW | 5.4 | 8.18 | 8.3 | 895 | 887 | 0.005 | U | 0.025 | U | 0.01 | U |
| Average | | | | 6.95 | 8.17 | 8.40 | 1387 | 1129 | 0.006 | | 0.010 | | 0.005 | |
| Median | | | | 6.43 | 8.37 | 8.4 | 1154 | 1081 | 0.005 | | 0.010 | | 0.003 | |
| Standard Deviation | | | | 1.67 | 0.61 | 0.15 | 469 | 495 | 0.001 | | 0.000 | | 0.000 | |
| Minimum | | | | 5.40 | 7.06 | 8.10 | 814 | 228 | 0.005 | | 0.025 | | 0.010 | |
| Maximum | | | | 10.90 | 8.79 | 8.70 | 2060 | 1860 | 0.009 | | 0.010 | | 0.003 | |
| SEP-12 | 08/15/97 | EPRI-9708-77 | SW | 6.34 | 8.47 | 8.30 | 850 | 834 | 0.005 | U | 0.025 | U | 0.1 | U |
| SEP-12 | 11/10/97 | EPRI-9711-176 | SW | 6.64 | 8.37 | 8.30 | 1970 | 1648 | 0.009 | U | 0.025 | U | 0.1 | U |
| SEP-12 | 02/13/98 | EPRI-9802-169 | SW | | 8.39 | 8.40 | 1422 | 212 | 0.006 | U | 0.025 | U | 0.003 | U |
| SEP-12 | 05/19/98 | EPRI-9805-169 | SW | 6.87 | 8.82 | 8.40 | 1064 | 1125 | 0.005 | U | 0.025 | U | 0.1 | U |
| SEP-12 | 8/20/98 | EPRI-9808-169 | SW | 5.55 | 8.60 | 8.4 | 952 | 974 | 0.005 | U | 0.025 | U | 0.10 | U |
| SEP-12 | 11/18/98 | EPRI-9811-169 | SW | 8.00 | 8.24 | 8.4 | 1877 | 1866 | 0.006 | U | 0.025 | U | 0.10 | U |
| SEP-12 | 2/19/99 | EPRI-9902-164 | SW | 9.9 | 8.39 | 8.3 | 2070 | 1573 | 0.005 | U | 0.025 | U | 0.1 | U |
| SEP-12 | 5/13/99 | EPRI-9905-165 | SW | 5.80 | 6.94 | 8.4 | 1166 | 1214 | 0.005 | U | 0.010 | U | 0.003 | U |
| SEP-12 | 08/20/99 | EPRI-9908-165 | SW | 5.5 | 8.15 | 8.3 | 902 | 900 | 0.005 | U | 0.025 | U | 0.18 | U |
| Average | | | | 6.83 | 8.26 | 8.36 | 1364 | 1150 | 0.006 | | 0.010 | | 0.003 | |
| Median | | | | 6.49 | 8.39 | 8.4 | 1166 | 1125 | 0.005 | | 0.010 | | 0.003 | |
| Standard Deviation | | | | 1.49 | 0.53 | 0.05 | 488 | 502 | 0.001 | | 0.000 | | 0.027 | |
| Minimum | | | | 5.50 | 6.94 | 8.30 | 850 | 212 | 0.005 | | 0.010 | | 0.003 | |
| Maximum | | | | 9.90 | 8.82 | 8.40 | 2070 | 1866 | 0.009 | | 0.010 | | 0.180 | |

Table F-1. Summary of Surface Water Quality, August 1997 through August 1999
Dissolved Metals

| | | (O) | pH | pH | Specific Conductivity | Arsenic | Cadmium | Chromium | Copper | Iron | Lead | Selenium | Zinc | |
|--------------------|----------|---------------|-------|-------|-----------------------|---------|---------|----------|--------|-------|-------|----------|-------|-------|
| SEP-13 | 08/15/97 | EPRI-9708-178 | SW | 7 | 8.47 | 8.20 | \$24 | 852 | 0.005 | U | 0.025 | U | 0.003 | |
| SEP-13 | 11/10/97 | EPRI-9711-175 | SW | 6.1 | 8.42 | 8.30 | 1993 | 1613 | 0.009 | U | 0.01 | U | 0.005 | |
| SEP-13 | 02/13/98 | EPRI-9802-170 | SW | 8.39 | 8.40 | 1394 | 207 | 0.005 | U | 0.005 | U | 0.003 | U | |
| SEP-13 | 05/19/98 | EPRI-9805-170 | SW | 7.64 | 8.68 | 8.50 | 1051 | 1058 | 0.005 | U | 0.003 | U | 0.005 | |
| SEP-13 | 07/20/98 | EPRI-9808-170 | SW | 5.37 | 8.60 | 8.4 | 954 | 965 | 0.005 | U | 0.01 | U | 0.005 | |
| SEP-13 D | 8/20/98 | EPRI-9808-179 | SW | | 8.4 | 954 | | | 0.005 | U | 0.010 | U | 0.005 | |
| SEP-13 | 11/18/98 | EPRI-9811-170 | SW | 8.80 | 8.06 | 8.5 | 1834 | 1868 | 0.007 | U | 0.010 | U | 0.003 | |
| SEP-13 | 2/19/99 | EPRI-9902-165 | SW | 11.40 | 7.92 | 8.3 | 2090 | 1584 | 0.006 | U | 0.01 | U | 0.003 | |
| SEP-13 | 5/1/99 | EPRI-9905-166 | SW | 5.80 | 8.69 | 8.6 | 1182 | 1321 | 0.005 | U | 0.01 | U | 0.005 | |
| SEP-13 | 08/20/99 | EPRI-9908-166 | SW | 5.5 | 8.17 | 8.3 | 889 | 880 | 0.005 | U | 0.005 | U | 0.005 | |
| Average | | | 7.20 | 8.18 | 8.39 | 1325 | 1150 | 0.006 | 0.005 | 0.010 | 0.025 | 0.010 | 0.003 | |
| Median | | | 6.55 | 8.39 | 8.4 | 1117 | 1058 | 0.005 | 0.005 | 0.010 | 0.025 | 0.010 | 0.005 | |
| Standard Deviation | | | 2.06 | 0.54 | 0.12 | 487 | 505 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.020 | |
| Minimum | | | 5.37 | 6.89 | 8.20 | 854 | 207 | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.000 | |
| Maximum | | | 11.40 | 8.68 | 8.60 | 2090 | 1868 | 0.009 | 0.005 | 0.010 | 0.025 | 0.100 | 0.020 | |
| SEP-14 | 11/12/98 | EPRI-9811-174 | SW | 9.33 | 8.9 | 272 | 255 | 0.057 | 0.005 | U | 0.010 | U | 0.004 | |
| SEP-14 | 08/11/99 | EPRI-9908-167 | SW | 6.4 | 9.03 | 7.8 | 160 | 165 | 0.045 | 0.005 | U | 0.01 | U | 0.005 |
| Average | | | 6.40 | 9.18 | 8.35 | 216 | 210 | 0.051 | 0.005 | 0.010 | 0.053 | 0.120 | 0.008 | |
| Median | | | 6.40 | 9.18 | 8.35 | 216 | 210 | 0.051 | 0.005 | 0.010 | 0.053 | 0.120 | 0.023 | |
| Standard Deviation | | | | | | | | | 0.008 | 0.000 | 0.000 | 0.008 | 0.023 | |
| Minimum | | | 6.40 | 9.03 | 7.80 | 160 | 165 | 0.045 | 0.005 | 0.010 | 0.040 | 0.100 | 0.005 | |
| Maximum | | | 6.40 | 9.33 | 8.90 | 272 | 255 | 0.057 | 0.005 | 0.010 | 0.065 | 0.140 | 0.025 | |
| SEP-2 | 08/15/97 | EPRI-9708-164 | SW | 6.25 | 8.40 | 8.30 | 842 | 830 | 0.005 | U | 0.004 | U | 0.004 | |
| SEP-2 | 11/10/97 | EPRI-9711-164 | SW | 6.48 | 8.39 | 8.30 | 1950 | 1643 | 0.009 | U | 0.005 | U | 0.011 | |
| SEP-2 | 02/13/98 | EPRI-9802-162 | SW | | | 8.40 | 1440 | 218 | 0.006 | U | 0.01 | U | 0.003 | |
| SEP-2 | 05/19/98 | EPRI-9805-162 | SW | 7.15 | 8.83 | 8.50 | 1068 | 1071 | 0.005 | U | 0.005 | U | 0.005 | |
| SEP-2 | 8/18/98 | EPRI-9808-162 | SW | 6.33 | 8.60 | 8.7 | 966 | 854 | 0.005 | U | 0.010 | U | 0.005 | |
| SEP-2 | 11/18/98 | EPRI-9811-162 | SW | 8.40 | 8.46 | 8.5 | 1877 | 1865 | 0.007 | U | 0.010 | U | 0.003 | |
| SEP-2 | 2/19/99 | EPRI-9902-157 | SW | 9.4 | 8.48 | 8.3 | 2080 | 1576 | 0.005 | U | 0.010 | U | 0.005 | |
| SEP-2 D | 5/1/99 | EPRI-9902-191 | SW | 9.8 | 8.5 | 8.3 | 2070 | 1571 | 0.006 | U | 0.01 | U | 0.005 | |
| SEP-2 | 5/13/99 | EPRI-9905-158 | SW | 6.00 | 7.04 | 8.4 | 1179 | 1116 | 0.005 | U | 0.010 | U | 0.005 | |
| SEP-2 | 08/20/99 | EPRI-9908-158 | SW | 5.9 | 8.12 | 8.3 | 887 | 837 | 0.005 | U | 0.01 | U | 0.005 | |
| Average | | | 7.30 | 8.32 | 8.40 | 1426 | 1163 | 0.006 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | |
| Median | | | 6.48 | 8.43 | 8.35 | 1310 | 1094 | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.005 | |
| Standard Deviation | | | 1.51 | 0.48 | 0.13 | 511 | 500 | 0.001 | 0.000 | 0.000 | 0.000 | 0.000 | 0.003 | |
| Minimum | | | 5.90 | 7.04 | 8.30 | 842 | 218 | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.020 | |
| Maximum | | | 9.80 | 8.83 | 8.70 | 2080 | 1865 | 0.009 | 0.005 | 0.010 | 0.025 | 0.100 | 0.028 | |
| SEP-3 | 08/18/97 | EPRI-9708-165 | SW | 5.33 | 8.25 | 8.40 | 959 | 946 | 0.005 | U | 0.005 | U | 0.003 | |
| SEP-3 | 11/10/97 | EPRI-9711-165 | SW | 12.44 | 7.80 | 7.60 | 5250 | 6200 | 0.81 | 0.008 | 0.01 | U | 0.025 | |
| SEP-3 | 02/13/98 | EPRI-9802-163 | SW | | 7.84 | 8.10 | 5410 | 1054 | 0.53 | 0.005 | U | 0.01 | U | |
| SEP-3 | 05/20/98 | EPRI-9805-185 | SW | 6.65 | 8.76 | 8.20 | 1092 | 967 | 0.006 | U | 0.01 | U | 0.004 | |
| SEP-3 | 8/17/98 | EPRI-9808-163 | SW | 6.44 | 8.45 | 8.5 | 977 | 986 | 0.005 | U | 0.010 | U | 0.003 | |
| SEP-3 D | 8/1/98 | EPRI-9808-181 | SW | | | 8.5 | 976 | 1097 | 0.007 | U | 0.010 | U | 0.005 | |
| SEP-3 | 5/12/99 | EPRI-9905-159 | SW | 5.00 | 7.77 | 9.4 | 1168 | 1319 | 0.005 | U | 0.010 | U | 0.003 | |
| SEP-3 D | 5/12/99 | EPRI-9905-190 | SW | 3.60 | 7.77 | 9.5 | 1175 | 1265 | 0.005 | U | 0.010 | U | 0.005 | |
| SEP-3 | 08/20/99 | EPRI-9908-159 | SW | 5.6 | 8.22 | 8.3 | 915 | 921 | 0.005 | U | 0.01 | U | 0.003 | |
| Average | | | 6.44 | 8.11 | 8.35 | 1310 | 1094 | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | |
| Median | | | 5.60 | 8.03 | 8.4 | 1092 | 1020 | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.020 | |
| Standard Deviation | | | 2.83 | 0.37 | 0.60 | 1895 | 1821 | 0.301 | 0.001 | 0.000 | 0.000 | 0.070 | 0.001 | |
| Minimum | | | 3.60 | 7.77 | 7.60 | 915 | 921 | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.020 | |
| Maximum | | | 12.44 | 8.76 | 9.50 | 5410 | 6200 | 0.810 | 0.008 | 0.010 | 0.025 | 0.100 | 0.022 | |

Table F-1. Summary of Surface Water Quality, August 1997 through August 1999
Dissolved Metals

| | | | (Q) | pH | Specific Conductivity | Arsenic | Cadmium | Chromium | Copper | Iron | Lead | Selenium | Zinc | | | | | | | | |
|--------------------|----------|---------------|-----|-------|-----------------------|---------|---------|----------|--------|-------|-------|----------|-------|--------------------|---------|---------|-------|-------|-------|-------|---|
| | | | | | | | | | | | | | | Standard Deviation | Minimum | Maximum | | | | | |
| SEP-4 | 08/15/97 | EPR1-9708-166 | SW | 6.37 | 8.54 | 8.40 | 858 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.005 | U | 0.02 | U | | |
| SEP-4 | 11/10/97 | EPR1-9711-166 | SW | 6.75 | 8.39 | 7.90 | 1952 | 1595 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.02 | U | |
| SEP-4 | 02/13/98 | EPR1-9802-164 | SW | 8.41 | 8.40 | 1388 | 197.7 | 0.007 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | 0.02 | U |
| SEP-4 | 05/19/98 | EPR1-9805-164 | SW | 7.37 | 8.86 | 8.40 | 1054 | 1060 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | |
| SEP-4 | 8/20/98 | EPR1-9808-164 | SW | 5.99 | 8.58 | 8.4 | 954 | 960 | 0.005 | U | 0.005 | U | 0.010 | U | 0.10 | U | 0.003 | U | 0.005 | U | |
| SEP-4 | 11/16/98 | EPR1-9811-164 | SW | 8.0 | 7.71 | 8.5 | 1893 | 1879 | 0.007 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.005 | U | |
| SEP-4 | 2/19/99 | EPR1-9902-159 | SW | 10.2 | 8.28 | 8.3 | 2100 | 1643 | 0.006 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.003 | U | 0.005 | U | |
| SEP-4 | 5/13/99 | EPR1-9905-160 | SW | 5.80 | 6.84 | 8.5 | 1194 | 1279 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.005 | U | |
| SEP-4 | 8/20/99 | EPR1-9908-160 | SW | 6.1 | 8.14 | 8.6 | 898 | 896 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| SEP-6 | 08/18/97 | EPR1-9708-168 | SW | 5.33 | 8.28 | 8.40 | 961 | 943 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | |
| SEP-6 | 08/20/99 | EPR1-9908-177 | SW | 5.4 | 8.24 | 8.2 | 915 | 914 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.46 | U | 0.005 | U | |
| SEP-6 | 08/20/99 | EPR1-9908-208 | SW | 5.4 | 8.25 | 8.6 | 915 | 914 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.005 | U | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| SEP-7 | 08/18/97 | EPR1-9708-169 | SW | 4.97 | 8.35 | 8.40 | 896 | 896 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.005 | U | |
| SEP-7 | 11/10/97 | EPR1-9711-169 | SW | 6.96 | 8.16 | 8.30 | 1924 | 1796 | 0.009 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | |
| SEP-7 | 02/13/98 | EPR1-9802-165 | SW | 8.49 | 8.50 | 1479 | 249 | 0.015 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.02 | U |
| SEP-7 | 05/12/98 | EPR1-9805-183 | SW | 6.3 | 8.79 | 8.20 | 1083 | 963 | 0.007 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.005 | U | |
| SEP-7 | 8/11/98 | EPR1-9808-165 | SW | 6.47 | 8.45 | 8.5 | 976 | 974 | 0.007 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | |
| SEP-7 | 11/18/98 | EPR1-9811-165 | SW | 8.40 | 8.35 | 8.4 | 1899 | 1892 | 0.007 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | |
| SEP-7 | 2/19/99 | EPR1-9902-160 | SW | 16.50 | 8.41 | 8.3 | 2100 | 1775 | 0.006 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | |
| SEP-7 | 5/12/99 | EPR1-9905-161 | SW | 5.20 | 7.54 | 8.3 | 1158 | 1380 | 0.005 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | |
| SEP-7 | 8/20/99 | EPR1-9908-161 | SW | 5.8 | 8.14 | 8.4 | 894 | 896 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| SEP-9 | 08/15/97 | EPR1-9708-171 | SW | 6.14 | 8.23 | 8.30 | 1133 | 1108 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.005 | U | |
| SEP-9 | 11/10/97 | EPR1-9711-171 | SW | 6.6 | 8.14 | 8.20 | 1886 | 1771 | 0.011 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | |
| SEP-9 | 02/13/98 | EPR1-9802-166 | SW | 8.18 | 8.20 | 1550 | 278 | 0.009 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.035 | U |
| SEP-9 | 05/19/98 | EPR1-9805-166 | SW | 7.38 | 8.49 | 8.50 | 1082 | 1073 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.005 | U | |
| SEP-9 | 8/18/98 | EPR1-9808-166 | SW | 5.61 | 8.26 | 8.5 | 1142 | 1166 | 0.006 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | |
| SEP-9 | 11/18/98 | EPR1-9811-166 | SW | 7.80 | 8.35 | 8.3 | 1950 | 2050 | 0.010 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.1 | U | 0.003 | U | |
| SEP-9 | 2/19/99 | EPR1-9902-161 | SW | 10.9 | 8.31 | 8.1 | 1763 | 0.009 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.033 | U |
| SEP-9 | 5/12/99 | EPR1-9905-162 | SW | 3.70 | 7.65 | 8.4 | 1156 | 1267 | 0.005 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | |
| SEP-9 | 8/20/99 | EPR1-9908-162 | SW | 5.6 | 7.92 | 8.3 | 1303 | 1301 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |

TABLE F-2

**ANALYTICAL RESULTS FOR TOTAL METALS,
SURFACE WATER SAMPLES**

Table F-2. Surface Water Quality, November 1999 through February 2000
Total Metals

| Site | Date | Samp # | Type | (O) (flid) | pH (flid) | Conductivity (lab) | SC (flid) | (AS) TOT | Cadmium (CD) TOT | Arsenic (CR) TOT | Chromium (CU) TOT | Copper (FE) TOT | Iron (PB) TOT | Lead (SE) TOT | Selenium (Zn) TOT | Zinc |
|--------------------|----------|---------------|------|------------|-----------|--------------------|-----------|----------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|-------|
| POND 1 | 11/02/99 | EPRI-9911-168 | SW | | 8.1 | 21.5000 | | 2.1 | 286 | 0.05 | U | 7.1 | 0.1 | U | 1.8 | 11 |
| POND 6 | 11/02/99 | EPRI-9911-169 | SW | 9.5 | 9.14 | 9.2 | 1702 | 0.45 | 0.17 | 0.01 | U | 0.56 | 0.55 | J2 | 0.12 | 0.012 |
| POND 6 | 02/07/00 | EPRI-0002-203 | SW | 6.4 | 7.39 | 7.7 | 1420 | 0.27 | 0.09 | 0.01 | U | 0.33 | 0.64 | J1 | 0.11 | 0.014 |
| Average | | | | 7.95 | 8.27 | 8.45 | 1561 | | 0.360 | 0.130 | 0.010 | 0.445 | 0.595 | 0.115 | 0.013 | 0.425 |
| Median | | | | 7.95 | 8.265 | 8.45 | 1561 | | 0.360 | 0.130 | 0.010 | 0.445 | 0.595 | 0.115 | 0.013 | 0.425 |
| Standard Deviation | | | | 2.19 | 1.24 | 1.06 | 199 | | 0.127 | 0.057 | 0.000 | 0.163 | 0.064 | 0.007 | 0.001 | 0.021 |
| Minimum | | | | 6.40 | 7.39 | 7.70 | 1420 | | 0.270 | 0.090 | 0.010 | 0.330 | 0.550 | 0.110 | 0.012 | 0.410 |
| Maximum | | | | 9.50 | 9.14 | 9.20 | 1702 | | 0.450 | 0.170 | 0.010 | 0.560 | 0.640 | 0.120 | 0.014 | 0.440 |
| SEP-1 | 11/01/99 | EPRI-9911-183 | SW | 7.2 | 8.15 | 8.3 | 1803 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.2 | 0.005 |
| SEP-1 | 01/31/00 | EPRI-0002-183 | SW | 7.1 | 8.33 | 8.3 | 1402 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.005 |
| Average | | | | 7.15 | 8.24 | 8.30 | 1603 | | 0.006 | 0.005 | 0.010 | 0.025 | 0.650 | 0.004 | 0.005 | 0.044 |
| Median | | | | 7.15 | 8.24 | 8.3 | 1603 | | 0.006 | 0.005 | 0.010 | 0.025 | 0.650 | 0.004 | 0.005 | 0.044 |
| Standard Deviation | | | | 0.07 | 0.13 | 0.00 | 284 | | 0.001 | 0.000 | 0.000 | 0.636 | 0.001 | 0.000 | 0.000 | 0.033 |
| Minimum | | | | 7.10 | 8.15 | 8.30 | 1402 | | 0.005 | 0.005 | 0.010 | 0.025 | 0.200 | 0.003 | 0.005 | 0.020 |
| Maximum | | | | 7.20 | 8.33 | 8.30 | 1803 | 0.007 | 0.005 | 0.010 | 0.025 | 1.100 | 0.005 | 0.005 | 0.067 | |
| SEP-10 | 11/01/99 | EPRI-9911-191 | SW | 9.3 | 8.21 | 8.3 | 2120 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U | 0.59 | 0.008 |
| SEP-10 | 02/14/00 | EPRI-0002-190 | SW | 9.1 | 8.37 | 8.5 | 2210 | 0.012 | 0.005 | U | 0.01 | U | 0.025 | U | 0.79 | 0.013 |
| Average | | | | 9.20 | 8.29 | 8.40 | 2165 | | 0.013 | 0.005 | 0.010 | 0.025 | 0.690 | 0.006 | 0.008 | 0.045 |
| Median | | | | 9.2 | 8.29 | 8.4 | 2165 | | 0.013 | 0.005 | 0.010 | 0.025 | 0.690 | 0.006 | 0.005 | 0.033 |
| Standard Deviation | | | | 0.14 | 0.11 | 0.14 | 64 | | 0.001 | 0.000 | 0.000 | 0.141 | 0.004 | 0.000 | 0.018 | |
| Minimum | | | | 9.10 | 8.21 | 8.30 | 2120 | | 0.012 | 0.005 | 0.010 | 0.025 | 0.590 | 0.003 | 0.005 | 0.020 |
| Maximum | | | | 9.30 | 8.37 | 8.50 | 2210 | | 0.013 | 0.005 | 0.010 | 0.025 | 0.790 | 0.008 | 0.005 | 0.045 |
| SEP-11 | 11/02/99 | EPRI-9911-157 | SW | 7.8 | 7.63 | 8.4 | 1972 | 0.01 | 0.005 | U | 0.01 | U | 0.025 | U | 0.73 | 0.005 |
| SEP-11 | 02/14/00 | EPRI-0002-191 | SW | 9.5 | 8.52 | 8.6 | 2300 | 0.014 | 0.005 | U | 0.01 | U | 0.025 | U | 0.47 | 0.013 |
| Average | | | | 8.65 | 8.08 | 8.50 | 2136 | | 0.012 | 0.005 | 0.010 | 0.025 | 0.600 | 0.009 | 0.005 | 0.025 |
| Median | | | | 8.65 | 8.075 | 8.5 | 2136 | | 0.012 | 0.005 | 0.010 | 0.025 | 0.600 | 0.009 | 0.005 | 0.025 |
| Standard Deviation | | | | 1.20 | 0.63 | 0.14 | 232 | | 0.003 | 0.000 | 0.000 | 0.184 | 0.006 | 0.000 | 0.006 | |
| Minimum | | | | 7.80 | 7.63 | 8.40 | 1972 | | 0.010 | 0.005 | 0.010 | 0.025 | 0.470 | 0.005 | 0.005 | 0.020 |
| Maximum | | | | 9.50 | 8.52 | 8.60 | 2300 | | 0.014 | 0.005 | 0.010 | 0.025 | 0.730 | 0.013 | 0.005 | 0.029 |
| SEP-12 | 11/01/99 | EPRI-9911-160 | SW | 7.8 | 8.34 | 8.5 | 2060 | 0.019 | 0.005 | U | 0.01 | U | 0.025 | U | 0.54 | 0.005 |
| SEP-12 | 11/01/99 | EPRI-9911-233 | SW | 9.1 | 8.36 | 8.5 | 2060 | 0.019 | 0.005 | U | 0.01 | U | 0.025 | U | 0.44 | 0.003 |

Table F-2. Surface Water Quality, November 1999 through February 2000
Total Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Conductivity (lab) | Conductivity (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|--------------------|----------|---------------|------|-----------|----------|--------------------|--------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| SEP-12 | 02/14/00 | EPRI-0002-192 | SW | 9.6 | 8.42 | 8.5 | 2330 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U | 0.005 |
| Average | | | | 8.83 | 8.37 | 8.50 | 2150 | 0.017 | 0.005 | 0.010 | 0.025 | 0.547 | 0.004 | 0.005 | 0.036 |
| Median | | | | 9.1 | 8.36 | 8.5 | 2060 | 0.019 | 0.005 | 0.010 | 0.025 | 0.540 | 0.003 | 0.005 | 0.026 |
| Standard Deviation | | | | 0.93 | 0.04 | 0.00 | 156 | 0.003 | 0.000 | 0.000 | 0.000 | 0.110 | 0.001 | 0.001 | 0.022 |
| Minimum | | | | 7.80 | 8.34 | 8.50 | 2060 | 0.013 | 0.005 | 0.010 | 0.025 | 0.440 | 0.003 | 0.005 | 0.020 |
| Maximum | | | | 9.60 | 8.42 | 8.50 | 2330 | 0.019 | 0.005 | 0.010 | 0.025 | 0.660 | 0.005 | 0.006 | 0.061 |
| SEP-13 | 02/14/00 | EPRI-0002-193 | SW | 8.4 | 8.42 | 8.5 | 2330 | 0.014 | 0.005 | U | 0.01 | U | 0.025 | U | 0.005 |
| SEP-13 | 02/14/00 | EPRI-0002-239 | SW | 8.3 | 8.42 | 8.5 | 2320 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U | 0.005 |
| Average | | | | 8.35 | 8.42 | 8.50 | 2325 | 0.014 | 0.005 | 0.010 | 0.025 | 0.530 | 0.003 | 0.005 | 0.020 |
| Median | | | | 8.35 | 8.42 | 8.5 | 2325 | 0.014 | 0.005 | 0.010 | 0.025 | 0.530 | 0.003 | 0.005 | 0.020 |
| Standard Deviation | | | | 0.07 | 0.00 | 0.00 | 7 | 0.001 | 0.000 | 0.000 | 0.000 | 0.099 | 0.000 | 0.000 | 0.000 |
| Minimum | | | | 8.30 | 8.42 | 8.50 | 2320 | 0.013 | 0.005 | 0.010 | 0.025 | 0.460 | 0.003 | 0.005 | 0.020 |
| Maximum | | | | 8.40 | 8.42 | 8.50 | 2330 | 0.014 | 0.005 | 0.010 | 0.025 | 0.600 | 0.003 | 0.005 | 0.020 |
| SEP-2 | 11/01/99 | EPRI-9911-184 | SW | 10.2 | 8.32 | 8.5 | 2110 | 0.024 | 0.005 | U | 0.01 | U | 0.025 | U | 0.74 |
| SEP-2 | 02/14/00 | EPRI-0002-184 | SW | 10.2 | 8.46 | 8.5 | 2330 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U | 0.48 |
| Average | | | | 10.20 | 8.39 | 8.50 | 2220 | 0.019 | 0.005 | 0.010 | 0.025 | 0.610 | 0.008 | 0.008 | 0.038 |
| Median | | | | 10.2 | 8.39 | 8.5 | 2220 | 0.019 | 0.005 | 0.010 | 0.025 | 0.610 | 0.008 | 0.008 | 0.038 |
| Standard Deviation | | | | 0.90 | 0.10 | 0.00 | 156 | 0.008 | 0.000 | 0.000 | 0.000 | 0.184 | 0.006 | 0.002 | 0.025 |
| Minimum | | | | 10.20 | 8.32 | 8.50 | 2110 | 0.013 | 0.005 | 0.010 | 0.025 | 0.480 | 0.003 | 0.005 | 0.020 |
| Maximum | | | | 10.20 | 8.46 | 8.50 | 2330 | 0.024 | 0.005 | 0.010 | 0.025 | 0.740 | 0.012 | 0.008 | 0.056 |
| SEP-3 | 11/01/99 | EPRI-9911-185 | SW | 6.2 | 8.19 | 8.4 | 1826 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U | 0.27 |
| SEP-3 | 01/31/00 | EPRI-0002-185 | SW | 7.5 | 8.29 | 8.3 | 1400 | 1356 | 0.005 | U | 0.01 | U | 0.025 | U | 1.2 |
| Average | | | | 6.85 | 8.24 | 8.35 | 1613 | 0.006 | 0.005 | 0.010 | 0.025 | 0.735 | 0.004 | 0.005 | 0.044 |
| Median | | | | 6.85 | 8.24 | 8.35 | 1613 | 0.006 | 0.005 | 0.010 | 0.025 | 0.735 | 0.004 | 0.005 | 0.044 |
| Standard Deviation | | | | 0.92 | 0.07 | 0.07 | 301 | 0.001 | 0.000 | 0.000 | 0.000 | 0.658 | 0.001 | 0.000 | 0.033 |
| Minimum | | | | 6.20 | 8.19 | 8.30 | 1400 | 0.005 | 0.005 | 0.010 | 0.025 | 0.270 | 0.003 | 0.005 | 0.020 |
| Maximum | | | | 7.50 | 8.29 | 8.40 | 1826 | 0.006 | 0.005 | 0.010 | 0.025 | 1.200 | 0.005 | 0.005 | 0.067 |
| SEP-4 | 11/01/99 | EPRI-9911-186 | SW | 10.2 | 8.37 | 8.4 | 2120 | 0.018 | 0.005 | U | 0.01 | U | 0.025 | U | 0.54 |
| SEP-4 | 02/14/00 | EPRI-0002-186 | SW | 10.9 | 8.65 | 8.4 | 2440 | 0.016 | 0.005 | U | 0.01 | U | 0.025 | U | 0.34 |
| Average | | | | 10.55 | 8.51 | 8.40 | 2280 | 0.017 | 0.005 | 0.010 | 0.025 | 0.440 | 0.005 | 0.006 | 0.042 |
| Median | | | | 10.55 | 8.51 | 8.4 | 2280 | 0.017 | 0.005 | 0.010 | 0.025 | 0.440 | 0.005 | 0.006 | 0.042 |

Table F-2. Surface Water Quality, November 1999 through February 2000
Total Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Conductivity (Lab) | Conductivity (fld) | SC (fld) | (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (Cu) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | |
|--------------------|----------|---------------|------|-----------|----------|--------------------|--------------------|----------|----------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|
| Standard Deviation | | | | 0.49 | 0.20 | 0.00 | 226 | | 0.001 | 0.000 | 0.000 | 0.000 | 0.141 | 0.003 | 0.001 | 0.031 | |
| Minimum | | | | 10.20 | 8.37 | 8.40 | 2120 | | 0.016 | 0.005 | 0.010 | 0.025 | 0.340 | 0.003 | 0.005 | 0.020 | |
| Maximum | | | | 10.90 | 8.65 | 8.40 | 2440 | | 0.018 | 0.005 | 0.010 | 0.025 | 0.540 | 0.007 | 0.006 | 0.064 | |
| SEP-6 | 11/01/99 | EPRI-9911-187 | SW | 6.7 | 8.25 | 8.4 | 1830 | 1871 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U | 0.062 | |
| SEP-6 | 01/31/00 | EPRI-0002-187 | SW | 7.2 | 8.34 | 8.2 | 1412 | 1372 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | |
| Average | | | | | 6.95 | 8.30 | 8.30 | 1621 | | 0.006 | 0.005 | 0.010 | 0.025 | 0.700 | 0.005 | 0.005 | 0.041 |
| Median | | | | | 6.95 | 8.295 | 8.3 | 1621 | | 0.006 | 0.005 | 0.010 | 0.025 | 0.700 | 0.005 | 0.005 | 0.041 |
| Standard Deviation | | | | 0.35 | 0.06 | 0.14 | 296 | | 0.001 | 0.000 | 0.000 | 0.000 | 0.707 | 0.000 | 0.000 | 0.030 | |
| Minimum | | | | 6.70 | 8.25 | 8.20 | 1412 | | 0.005 | 0.005 | 0.010 | 0.025 | 0.200 | 0.005 | 0.005 | 0.020 | |
| Maximum | | | | 7.20 | 8.34 | 8.40 | 1830 | | 0.006 | 0.005 | 0.010 | 0.025 | 1.200 | 0.005 | 0.005 | 0.062 | |
| SEP-7 | 11/01/99 | EPRI-9911-188 | SW | 7 | 8.15 | 8.3 | 1800 | 1836 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.049 | |
| SEP-7 | 01/31/00 | EPRI-0002-188 | SW | 7.7 | 8.36 | 8.3 | 1402 | 1366 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | |
| Average | | | | | | | | | | | | | | | | | |
| Median | | | | | 7.35 | 8.26 | 8.30 | 1601 | | 0.006 | 0.005 | 0.010 | 0.025 | 0.595 | 0.005 | 0.005 | 0.045 |
| Standard Deviation | | | | | 7.35 | 8.255 | 8.3 | 1601 | | 0.006 | 0.005 | 0.010 | 0.025 | 0.595 | 0.005 | 0.005 | 0.045 |
| Minimum | | | | | 0.49 | 0.15 | 0.00 | 281 | | 0.001 | 0.000 | 0.000 | 0.000 | 0.573 | 0.001 | 0.000 | 0.006 |
| Maximum | | | | | 7.00 | 8.15 | 8.30 | 1402 | | 0.005 | 0.005 | 0.010 | 0.025 | 0.190 | 0.004 | 0.005 | 0.040 |
| SEP-9 | 11/01/99 | EPRI-9911-190 | SW | 7.6 | 7.8 | 8.3 | 1804 | 1846 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U | 0.02 | |
| SEP-9 | 02/14/00 | EPRI-0002-189 | SW | 6.1 | 8.03 | 8.3 | 2120 | 2050 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 0.023 | |
| Average | | | | | 6.85 | 7.92 | 8.30 | 1962 | | 0.007 | 0.005 | 0.010 | 0.025 | 0.415 | 0.005 | 0.006 | 0.022 |
| Median | | | | | 6.85 | 7.915 | 8.3 | 1962 | | 0.007 | 0.005 | 0.010 | 0.025 | 0.415 | 0.005 | 0.005 | 0.022 |
| Standard Deviation | | | | | 1.06 | 0.16 | 0.00 | 223 | | 0.001 | 0.000 | 0.000 | 0.000 | 0.346 | 0.002 | 0.000 | 0.002 |
| Minimum | | | | | 6.10 | 7.80 | 8.30 | 1804 | | 0.006 | 0.005 | 0.010 | 0.025 | 0.170 | 0.003 | 0.005 | 0.020 |
| Maximum | | | | | 7.60 | 8.03 | 8.30 | 2120 | | 0.008 | 0.005 | 0.010 | 0.025 | 0.660 | 0.006 | 0.005 | 0.023 |

TABLE F-3

**ANALYTICAL RESULTS FOR TOTAL RECOVERABLE METALS,
SURFACE WATER SAMPLES**

**Table F-3. Summary of Surface Water Quality, August 1997 through August 1999
Total Recoverable Metals**

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | SC (lab) | Specific Conductivity SC (fld) | Conductivity (AS) TRC | Arsenic (CR) TRC | Cadmium (CD) TRC | Chromium (CU) TRC | Copper (FE) TRC | Iron (SE) TRC | Lead (PB) TRC | Selenium (SE) TRC | Zinc (ZN) TRC | |
|--------------------|----------|---------------|------|-----------|----------|----------|--------------------------------|-----------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-----|
| POND 1 | 8/18/98 | EPRI-9808-171 | SW | 4.10 | 7.82 | 8.1 | 126300 | 78600 | 0.29 | 32 | 0.010 | U | 1.1 | 0.16 | 0.37 | 2.8 | |
| POND 1 | 11/18/98 | EPRI-9811-171 | SW | 7.10 | 7.38 | 8.0 | 8260 | 8200 | 0.54 | 2.0 | 0.010 | U | 1.4 | 1.1 | 14 | 0.7 | |
| POND 1 | 2/19/99 | EPRI-9902-173 | SW | 12.3 | 8.12 | 8.1 | 19330 | 15540 | 0.44 | 6.6 | 0.010 | U | 1.8 | 1.4 | 0.75 | 0.99 | |
| POND 1 | 5/12/99 | EPRI-9905-174 | SW | 7.00 | 6.75 | 7.9 | 34600 | J3 | 35000 | 0.27 | 16 | 0.010 | U | 0.92 | 0.41 | 0.35 | |
| POND 1 | 08/11/99 | EPRI-9908-174 | SW | 4.2 | 7.68 | 7.9 | 46400 | 48700 | 0.45 | 18 | 0.01 | U | 1.9 | 0.53 | J1,J4 | 0.46 | |
| Average | | | | 6.88 | 7.63 | 7.89 | 42224 | 35305 | 0.398 | 14.920 | 0.010 | | 1.424 | 0.720 | 0.526 | 1.512 | |
| Median | | | | 7.00 | 7.75 | 7.9 | 30900 | 29750 | 0.440 | 16.000 | 0.010 | | 1.400 | 0.530 | 0.460 | 1.300 | |
| Standard Deviation | | | | 2.84 | 0.42 | 0.20 | 36618 | 22796 | 0.115 | 11.603 | 0.000 | | 0.426 | 0.513 | 0.187 | 0.952 | |
| Minimum | | | | 4.10 | 6.75 | 7.50 | 8260 | 8200 | 0.270 | 2.000 | 0.010 | | 0.920 | 0.160 | 0.350 | 0.370 | |
| Maximum | | | | 12.30 | 8.12 | 8.10 | 126300 | 78600 | 0.540 | 32.000 | 0.010 | | 1.900 | 1.400 | 0.750 | 2.800 | |
| POND 5 | 8/18/98 | EPRI-9808-172 | SW | 5.28 | 6.76 | 6.7 | 1970 | 1972 | 0.27 | 0.074 | 0.01 | U | 1.4 | 1.7 | 0.58 | 0.028 | |
| POND 6 | 8/18/98 | EPRI-9808-173 | SW | 4.83 | 8.41 | 8.6 | 5390 | 5340 | 0.87 | 0.14 | 0.010 | U | 0.75 | 0.35 | 0.13 | 0.051 | |
| POND 6 | 11/12/98 | EPRI-9811-173 | SW | 6.90 | 8.10 | 8.2 | 4540 | 4270 | 1.6 | 0.37 | 0.010 | U | 2.2 | 1.3 | 0.54 | 0.080 | |
| POND 6 | 2/19/99 | EPRI-9902-175 | SW | 10.80 | 8.75 | 8.5 | 2610 | 2290 | 0.68 | 0.056 | 0.100 | U | 0.6 | U | 0.50 | 0.21 | |
| POND 6 | 5/12/99 | EPRI-9905-176 | SW | 9.20 | 8.85 | 8.9 | 2450 | J3 | 2540 | 0.83 | 0.074 | 0.010 | U | 0.35 | 0.29 | 0.16 | |
| POND 6 | 08/11/99 | EPRI-9908-176 | SW | 7 | 8.79 | 8.8 | 1773 | | 1726 | 0.4 | 0.065 | 0.01 | U | 0.56 | 0.33 | J1,J4 | |
| Average | | | | 7.57 | 8.48 | 8.45 | 3838 | 3888 | 0.876 | 0.141 | 0.028 | | 0.892 | 0.554 | 0.250 | 0.043 | |
| Median | | | | 7.00 | 8.58 | 8.55 | 4250 | 4350 | 0.830 | 0.074 | 0.010 | | 0.600 | 0.350 | 0.210 | 0.035 | |
| Standard Deviation | | | | 2.03 | 0.52 | 0.51 | 1389 | 1516 | 0.445 | 0.132 | 0.040 | | 0.745 | 0.425 | 0.166 | 0.023 | |
| Minimum | | | | 4.83 | 7.61 | 7.70 | 1773 | 1726 | 0.400 | 0.056 | 0.010 | | 0.350 | 0.290 | 0.130 | 0.024 | |
| Maximum | | | | 10.80 | 9.22 | 9.10 | 5390 | 5870 | 1.600 | 0.370 | 0.100 | | 2.200 | 1.300 | 0.540 | 0.080 | |
| SEP-1 | 08/15/97 | EPRI-9708-163 | SW | 6.03 | 8.38 | 8.30 | 910 | 873 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 4.4 | |
| SEP-1 | 11/10/97 | EPRI-9711-163 | SW | 12.17 | 8.04 | 8.00 | 4660 | 4680 | 0.8 | 0.005 | U | 0.01 | U | 0.032 | 0.13 | 0.021 | |
| SEP-1 | 02/13/98 | EPRI-9802-161 | SW | 7.38 | 7.90 | 4580 | 868 | 863 | 0.58 | | 0.01 | U | 0.025 | U | 1 | 0.11 | |
| SEP-1 | 05/20/98 | EPRI-9805-184 | SW | 6.79 | 8.75 | 8.20 | 1095 | 967 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 2 | |
| SEP-1 | 8/11/98 | EPRI-9808-161 | SW | 5.90 | 8.46 | 8.3 | 951 | 958 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 4.9 | |
| SEP-1 | 2/19/99 | EPRI-9902-156 | SW | 10.90 | 8.54 | 8.3 | 2100 | 1831 | 0.011 | 0.005 | U | 0.01 | U | 0.025 | U | 7.1 | |
| SEP-1 | 5/12/99 | EPRI-9905-157 | SW | 5.00 | 7.48 | 8.0 | 1172 | J3 | 1319 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 1.6 |
| SEP-1 | 08/20/99 | EPRI-9908-157 | SW | 5.1 | 8.05 | 8.3 | 918 | 913 | 0.005 | U | 0.005 | U | 0.011 | 0.025 | U | 14 | |
| Average | | | | 7.41 | 8.14 | 8.16 | 2048 | 1551 | 0.178 | 0.005 | 0.010 | | 0.026 | 3.480 | 0.008 | 0.036 | |
| Median | | | | 6.03 | 8.215 | 8.25 | 1134 | 963 | 0.008 | 0.005 | 0.010 | | 0.025 | 1.800 | 0.006 | 0.025 | |
| Standard Deviation | | | | 2.90 | 0.50 | 0.17 | 1634 | 1307 | 0.322 | 0.000 | 0.002 | | 4.623 | 0.006 | 0.059 | 0.017 | |
| Minimum | | | | 5.00 | 7.38 | 7.90 | 910 | 868 | 0.005 | 0.005 | 0.010 | | 0.025 | 0.100 | 0.003 | 0.020 | |
| Maximum | | | | 12.17 | 8.75 | 8.30 | 4660 | 4680 | 0.800 | 0.005 | 0.011 | | 0.032 | 14.000 | 0.021 | 0.150 | |

Table F-3. Summary of Surface Water Quality, August 1997 through August 1999
Total Recoverable Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TRC | Cadmium (CD) TRC | Chromium (CR) TRC | Copper (CU) TRC | Iron (FE) TRC | Lead (PB) TRC | Selenium (SE) TRC | Zinc (ZN) TRC | |
|--------------------|----------|---------------|------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|--------|
| SEP-10 | 08/15/97 | EPRI-9708-175 | SW | 6.22 | 8.40 | 835 | 818 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 5.9 | |
| SEP-10 D | 08/15/97 | EPRI-9708-179 | SW | 6.22 | 8.40 | 837 | 818 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 5.1 | |
| SEP-10 | 11/19/97 | EPRI-9711-181 | SW | 7.32 | 8.38 | 8.50 | 1970 | 2180 | 0.015 | 0.005 | U | 0.01 | U | 0.025 | U | 0.25 |
| SEP-10 | 02/13/98 | EPRI-9802-167 | SW | 8.29 | 8.30 | 1474 | 230 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 1.6 | |
| SEP-10 | 05/19/98 | EPRI-9805-167 | SW | 7.43 | 8.84 | 8.30 | 1066 | 1072 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 2.1 |
| SEP-10 | 05/19/98 | EPRI-9805-181 | SW | 8.40 | 1066 | 8.40 | 1066 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 2.1 | |
| SEP-10 | 8/18/98 | EPRI-9808-167 | SW | 6.50 | 8.58 | 8.7 | 969 | 875 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 5.4 |
| SEP-10 | 11/18/98 | EPRI-9811-167 | SW | 7.50 | 8.32 | 8.4 | 1894 | 1882 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 2.7 |
| SEP-10 | 2/19/99 | EPRI-9902-162 | SW | 10.40 | 8.41 | 8.2 | 2060 | 1675 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.77 |
| SEP-10 | 5/13/99 | EPRI-9905-163 | SW | 6.00 | 7.14 | 8.3 | 1153 | 1068 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.82 |
| SEP-10 | 08/20/99 | EPRI-9908-163 | SW | 5.3 | 8.17 | 8.2 | 892 | 889 | 0.005 | 0.005 | U | 0.012 | U | 0.025 | U | 15 |
| Average | | | | 6.99 | 8.29 | 8.36 | 1292 | 1151 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 3.574 |
| Median | | | | 6.50 | 8.39 | 8.3 | 1066 | 979 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 2.100 |
| Standard Deviation | | | | 1.48 | 0.44 | 0.14 | 474 | 586 | 0.003 | 0.000 | U | 0.001 | U | 0.003 | U | 4.328 |
| Minimum | | | | 5.30 | 7.14 | 8.20 | 835 | 230 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.250 |
| Maximum | | | | 10.40 | 8.84 | 8.70 | 2060 | 2180 | 0.015 | 0.005 | U | 0.012 | U | 0.025 | U | 15.000 |
| SEP-11 | 08/15/97 | EPRI-9708-176 | SW | 6.33 | 8.42 | 8.10 | 814 | 810 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 5 |
| SEP-11 | 11/10/97 | EPRI-9711-177 | SW | 6.97 | 8.30 | 8.30 | 1933 | 1741 | 0.01 | 0.005 | U | 0.01 | U | 0.025 | U | 0.17 |
| SEP-11 | 02/13/98 | EPRI-9802-168 | SW | 8.32 | 8.40 | 1447 | 228 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 1.4 | |
| SEP-11 | 05/19/98 | EPRI-9805-168 | SW | 7.19 | 8.79 | 8.50 | 1071 | 1063 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 2.2 |
| SEP-11 | 8/18/98 | EPRI-9808-168 | SW | 6.43 | 8.59 | 8.7 | 968 | 869 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 5.6 |
| SEP-11 | 11/18/98 | EPRI-9811-168 | SW | 7.80 | 8.53 | 8.5 | 1877 | 1860 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 0.47 |
| SEP-11 D | 11/18/98 | EPRI-9811-182 | SW | 8.5 | 1885 | | | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 0.34 | |
| SEP-11 | 2/19/99 | EPRI-9902-163 | SW | 10.90 | 8.47 | 8.3 | 2060 | 1633 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 1.0 |
| SEP-11 | 5/13/99 | EPRI-9905-164 | SW | 5.80 | 7.06 | 8.4 | 1151 | 1099 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 1.5 |
| SEP-11 D | 5/13/99 | EPRI-9905-191 | SW | 5.70 | 7.07 | 8.4 | 1154 | 1101 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 1.3 |
| SEP-11 | 08/20/99 | EPRI-9908-164 | SW | 5.4 | 8.18 | 8.3 | 895 | 887 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 14 |
| Average | | | | 6.95 | 8.17 | 8.40 | 1387 | 1129 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 2.998 |
| Median | | | | 6.43 | 8.37 | 8.4 | 1154 | 1081 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 1.400 |
| Standard Deviation | | | | 1.67 | 0.61 | 0.15 | 469 | 495 | 0.002 | 0.000 | U | 0.000 | U | 0.009 | U | 4.069 |
| Minimum | | | | 5.40 | 7.06 | 8.10 | 814 | 228 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.170 |
| Maximum | | | | 10.90 | 8.79 | 8.70 | 2060 | 1860 | 0.010 | 0.005 | U | 0.010 | U | 0.025 | U | 14.000 |
| SEP-12 | 08/15/97 | EPRI-9708-177 | SW | 6.34 | 8.47 | 8.30 | 850 | 834 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 5.2 |
| SEP-12 | 11/10/97 | EPRI-9711-176 | SW | 6.64 | 8.37 | 8.30 | 1970 | 1648 | 0.01 | 0.005 | U | 0.01 | U | 0.025 | U | 0.45 |
| SEP-12 | 02/13/98 | EPRI-9802-69 | SW | 8.39 | 8.40 | 1422 | 212 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 1.6 | |

Table F-3. Summary of Surface Water Quality, August 1997 through August 1999
Total Recoverable Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (lab) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | Arsenic (AS) TRC | Cadmium (CD) TRC | Chromium (CR) TRC | Copper (CU) TRC | Iron (FE) TRC | Lead (PB) TRC | Selenium (SE) TRC | Zinc (ZN) TRC |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| SEP-12 | 05/19/98 | EPRI-9805-169 | SW | 6.87 | 8.82 | 1064 | 1125 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 2.1 |
| SEP-12 | 8/20/98 | EPRI-9808-169 | SW | 5.55 | 8.60 | 8.4 | 952 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 4.2 |
| SEP-12 | 11/18/98 | EPRI-9811-169 | SW | 8.00 | 8.24 | 8.4 | 1877 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 0.30 |
| SEP-12 | 2/19/99 | EPRI-9902-164 | SW | 9.9 | 8.39 | 8.3 | 2070 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 0.71 |
| SEP-12 | 5/13/99 | EPRI-9905-165 | SW | 5.80 | 6.94 | 8.4 | 1166 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.99 |
| SEP-12 | 8/20/99 | EPRI-9908-165 | SW | 5.5 | 8.15 | 8.3 | 902 | 0.005 | 0.005 | U | 0.011 | U | 0.025 | U | 13 |
| Average | | | | | | | | | | | | | | | |
| Median | | | | 6.49 | 8.39 | 8.4 | 1166 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 3.172 |
| Standard Deviation | | | | 1.49 | 0.53 | 0.05 | 488 | 502 | 0.002 | 0.000 | 0.000 | 0.000 | 4.060 | 0.003 | 0.000 |
| Minimum | | | | 5.50 | 6.94 | 8.30 | 850 | 212 | 0.005 | 0.005 | 0.010 | 0.025 | 0.300 | 0.003 | 0.005 |
| Maximum | | | | 9.90 | 8.82 | 8.40 | 2070 | 1866 | 0.010 | 0.005 | 0.011 | 0.025 | 13.000 | 0.009 | 0.005 |
| SEP-13 | 08/15/97 | EPRI-9708-178 | SW | 7 | 8.47 | 8.20 | 854 | 852 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U |
| SEP-13 | 11/10/97 | EPRI-9711-175 | SW | 6.1 | 8.42 | 8.30 | 1993 | 1613 | 0.01 | 0.005 | U | 0.01 | U | 0.025 | U |
| SEP-13 | 02/13/98 | EPRI-9802-170 | SW | 8.39 | 8.40 | 1394 | 2077 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | |
| SEP-13 | 05/19/98 | EPRI-9805-170 | SW | 7.64 | 8.68 | 8.50 | 1051 | 1058 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U |
| SEP-13 | 8/20/98 | EPRI-9808-170 | SW | 5.37 | 8.60 | 8.4 | 954 | 965 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U |
| SEP-13 D | 8/20/98 | EPRI-9808-179 | SW | | | 8.4 | 954 | | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U |
| SEP-13 | 11/18/98 | EPRI-9811-170 | SW | 8.80 | 8.06 | 8.5 | 1884 | 1868 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| SEP-13 | 2/19/99 | EPRI-9902-165 | SW | 11.40 | 7.92 | 8.3 | 2090 | 1584 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U |
| SEP-13 | 5/13/99 | EPRI-9905-166 | SW | 5.80 | 6.89 | 8.6 | 1182 | 1321 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U |
| SEP-13 | 8/20/99 | EPRI-9908-166 | SW | 5.5 | 8.17 | 8.3 | 889 | 880 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 7.20 | 8.18 | 8.39 | 1325 | 1150 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | 3.367 |
| Median | | | | 6.55 | 8.39 | 8.4 | 1117 | 1058 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | 0.004 |
| Standard Deviation | | | | 2.06 | 0.54 | 0.12 | 487 | 505 | 0.002 | 0.000 | U | 0.000 | 3.892 | 0.004 | 0.000 |
| Minimum | | | | 5.37 | 6.89 | 8.20 | 854 | 2077 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | 0.003 |
| Maximum | | | | 11.40 | 8.68 | 8.60 | 2090 | 1868 | 0.010 | 0.005 | U | 0.010 | U | 0.025 | 13.000 |
| SEP-14 | 11/12/98 | EPRI-9811-174 | SW | 9.33 | 8.9 | 272 | 255 | 0.055 | 0.005 | U | 0.010 | U | 0.15 | 3.1 | 0.054 |
| SEP-14 | 08/11/99 | EPRI-9908-167 | SW | 6.4 | 9.03 | 7.8 | 160 | 165 | 0.049 | 0.005 | U | 0.01 | U | 0.31 | 3.6 |
| Average | | | | 6.40 | 9.18 | 8.35 | 216 | 210 | 0.052 | 0.005 | U | 0.010 | U | 0.230 | 3.350 |
| Median | | | | 6.40 | 9.18 | 8.35 | 216 | 210 | 0.052 | 0.005 | U | 0.010 | U | 0.230 | 3.350 |
| Standard Deviation | | | | | | | | | | | | | | | 0.028 |
| Minimum | | | | 6.40 | 9.03 | 7.80 | 160 | 165 | 0.049 | 0.005 | U | 0.010 | U | 0.150 | 3.100 |
| Maximum | | | | 6.40 | 9.33 | 8.90 | 272 | 255 | 0.055 | 0.005 | U | 0.010 | U | 0.310 | 3.600 |

Table F-3. Summary of Surface Water Quality, August 1997 through August 1999
Total Recoverable Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TRC | Cadmium (CD) TRC | Chromium (CR) TRC | Copper (CU) TRC | Iron (FE) TRC | Lead (PB) TRC | Selenium (SE) TRC | Zinc (ZN) TRC | |
|--------------------|----------|---------------|------|-----------|----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-----|
| SEP-2 | 08/15/97 | EPRI-9708-164 | SW | 6.25 | 8.40 | 8.30 | 842 | 830 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 3.9 | |
| SEP-2 | 11/10/97 | EPRI-9711-164 | SW | 6.48 | 8.39 | 8.30 | 1950 | 1643 | 0.012 | 0.005 | U | 0.01 | U | 0.026 | U | 0.4 | |
| SEP-2 | 02/13/98 | EPRI-9802-162 | SW | 8.38 | 8.40 | 1440 | 218 | 0.009 | 0.005 | U | 0.01 | U | 0.025 | U | 1.6 | | |
| SEP-2 | 05/19/98 | EPRI-9805-162 | SW | 7.15 | 8.83 | 8.50 | 1068 | 1071 | 0.005 | U | 0.01 | U | 0.025 | U | 2.1 | | |
| SEP-2 | 8/18/98 | EPRI-9808-162 | SW | 6.33 | 8.60 | 8.7 | 966 | 854 | 0.005 | U | 0.005 | U | 0.010 | U | 0.025 | U | |
| SEP-2 | 11/18/98 | EPRI-9811-162 | SW | 8.40 | 8.46 | 8.5 | 1877 | 1865 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 0.31 | |
| SEP-2 | 2/19/99 | EPRI-9902-157 | SW | 9.4 | 8.48 | 8.3 | 2080 | 1576 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 0.75 | |
| SEP-2 D | 2/19/99 | EPRI-9902-191 | SW | 9.8 | 8.5 | 8.3 | 2070 | 1571 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 0.77 | |
| SEP-2 | 5/13/99 | EPRI-9905-158 | SW | 6.00 | 7.04 | 8.4 | 1179 | 1116 | 0.005 | U | 0.005 | U | 0.010 | U | 0.025 | U | |
| SEP-2 | 08/20/99 | EPRI-9908-158 | SW | 5.9 | 8.12 | 8.3 | 887 | 887 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | |
| Average | | | | 7.30 | 8.32 | 8.40 | 1436 | 1163 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 2.953 | |
| Median | | | | 6.48 | 8.43 | 8.35 | 1310 | 1094 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 1.500 | |
| Standard Deviation | | | | 1.51 | 0.48 | 0.13 | 511 | 500 | 0.002 | 0.000 | U | 0.000 | U | 0.003 | U | 3.879 | |
| Minimum | | | | 5.90 | 7.04 | 8.30 | 842 | 218 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.310 | |
| Maximum | | | | 9.80 | 8.83 | 8.70 | 2080 | 1865 | 0.012 | 0.005 | U | 0.010 | U | 0.026 | U | 13.000 | |
| SEP-3 | 08/18/97 | EPRI-9708-165 | SW | 5.33 | 8.25 | 8.40 | 959 | 946 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 4.4 | |
| SEP-3 | 11/19/97 | EPRI-9711-165 | SW | 12.44 | 7.80 | 7.60 | 5250 | 6200 | 1.6 | 0.019 | U | 0.01 | U | 0.043 | U | 0.1 | |
| SEP-3 | 02/13/98 | EPRI-9802-163 | SW | 7.84 | 8.10 | 5410 | 1054 | 0.5 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | | |
| SEP-3 | 05/20/98 | EPRI-9805-185 | SW | 6.65 | 8.76 | 8.20 | 1092 | 967 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 2.3 | |
| SEP-3 | 8/11/98 | EPRI-9808-163 | SW | 6.44 | 8.45 | 8.5 | 977 | 986 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 5.3 | |
| SEP-3 D | 8/11/98 | EPRI-9808-181 | SW | 8.5 | 976 | | | | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 4.6 | |
| SEP-3 | 5/12/99 | EPRI-9905-159 | SW | 5.00 | 7.77 | 9.4 | 1168 | J3 | 1319 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 1.6 |
| SEP-3 D | 5/12/99 | EPRI-9905-190 | SW | 3.60 | 7.77 | 9.5 | 1175 | J3 | 1265 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 1.4 |
| SEP-3 | 08/20/99 | EPRI-9908-159 | SW | 5.6 | 8.22 | 8.3 | 915 | 921 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 14 |
| Average | | | | 6.44 | 8.11 | 8.50 | 1991 | 1707 | 0.238 | 0.007 | U | 0.010 | U | 0.027 | U | 3.756 | |
| Median | | | | 5.60 | 8.03 | 8.4 | 1092 | 1020 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 2.300 | |
| Standard Deviation | | | | 2.83 | 0.37 | 0.60 | 1895 | 1821 | 0.536 | 0.005 | U | 0.000 | U | 0.006 | U | 4.294 | |
| Minimum | | | | 3.60 | 7.77 | 7.60 | 915 | 921 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.100 | |
| Maximum | | | | 12.44 | 8.76 | 9.50 | 5410 | 6200 | 1.600 | 0.019 | U | 0.010 | U | 0.043 | U | 14.000 | |
| SEP-4 | 08/15/97 | EPRI-9708-166 | SW | 6.37 | 8.54 | 8.40 | 858 | 855 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 5.6 | |
| SEP-4 | 11/10/97 | EPRI-9711-166 | SW | 6.75 | 8.39 | 7.90 | 1952 | 1595 | 0.012 | 0.005 | U | 0.01 | U | 0.025 | U | 0.41 | |
| SEP-4 | 02/13/98 | EPRI-9802-164 | SW | 8.41 | 8.40 | 1388 | 197.7 | 0.01 | 0.008 | U | 0.01 | U | 0.025 | U | 1.6 | | |
| SEP-4 | 05/19/98 | EPRI-9805-164 | SW | 7.37 | 8.86 | 8.40 | 1054 | 1060 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U | 1.8 | |
| SEP-4 | 8/20/98 | EPRI-9808-164 | SW | 5.99 | 8.58 | 8.4 | 954 | 960 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 4.8 | |
| SEP-4 | 11/18/98 | EPRI-9811-164 | SW | 8.0 | 7.71 | 8.5 | 1893 | 1879 | 0.008 | 0.005 | U | 0.010 | U | 0.025 | U | 0.38 | |

Table F-3. Summary of Surface Water Quality, August 1997 through August 1999
Total Recoverable Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TRC | Cadmium (CD) TRC | Chromium (CR) TRC | Copper (Cu) TRC | Iron (FE) TRC | Lead (PB) TRC | Selenium (SE) TRC | Zinc (ZN) TRC | | | | | | |
|--------------------|----------|---------------|------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|--------|-------|-------|-------|-------|---|
| SEP-4 | 2/19/99 | EPRI-9902-159 | SW | 10.2 | 8.28 | 8.3 | 2100 | 1643 | 0.005 | 0.005 | U | 0.025 | U | 0.003 | U | 0.02 | U | | | | |
| SEP-4 | 5/13/99 | EPRI-9905-160 | SW | 5.60 | 6.84 | 8.5 | 1194 | 1279 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 0.003 | U | | | | |
| SEP-4 | 08/20/99 | EPRI-9908-160 | SW | 6.1 | 8.14 | 8.6 | 898 | 896 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 0.009 | U | | | | |
| Average | | | | 7.05 | 8.19 | 8.38 | 1366 | 1152 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 0.005 | U | | | | |
| Median | | | | 6.56 | 8.39 | 8.4 | 1194 | 1060 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 0.005 | U | | | | |
| Standard Deviation | | | | 1.49 | 0.60 | 0.20 | 492 | 511 | 0.003 | 0.001 | U | 0.000 | U | 0.002 | U | 0.000 | U | | | | |
| Minimum | | | | 5.60 | 6.84 | 7.90 | 858 | 198 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.003 | U | | | | |
| Maximum | | | | 10.20 | 8.86 | 8.60 | 2100 | 1879 | 0.012 | 0.008 | U | 0.010 | U | 0.025 | U | 0.009 | U | | | | |
| SEP-6 | 08/18/97 | EPRI-9708-168 | SW | 5.33 | 8.28 | 8.40 | 961 | 943 | 0.005 | 0.005 | U | 0.028 | U | 0.025 | U | 4.5 | 0.006 | U | 0.035 | * | |
| SEP-6 | 08/20/99 | EPRI-9908-177 | SW | 5.4 | 8.24 | 8.2 | 915 | 914 | 0.005 | 0.005 | U | 0.011 | U | 0.025 | U | 15 | 0.009 | U | 0.039 | | |
| SEP-6 D | 08/20/99 | EPRI-9908-208 | SW | 5.4 | 8.25 | 8.6 | 915 | 914 | 0.005 | 0.005 | U | 0.011 | U | 0.025 | U | 15 | 0.008 | U | 0.038 | | |
| Average | | | | 5.38 | 8.26 | 8.40 | 930 | 924 | 0.005 | 0.005 | U | 0.017 | U | 0.025 | U | 11.500 | 0.008 | U | 0.037 | | |
| Median | | | | 5.40 | 8.25 | 8.4 | 915 | 914 | 0.005 | 0.005 | U | 0.011 | U | 0.025 | U | 15.000 | 0.008 | U | 0.038 | | |
| Standard Deviation | | | | 0.04 | 0.02 | 0.20 | 27 | 17 | 0.000 | 0.000 | U | 0.010 | U | 0.000 | U | 6.062 | 0.002 | U | 0.002 | | |
| Minimum | | | | 5.33 | 8.24 | 8.20 | 915 | 914 | 0.005 | 0.005 | U | 0.011 | U | 0.025 | U | 4.500 | 0.006 | U | 0.035 | | |
| Maximum | | | | 5.40 | 8.28 | 8.60 | 961 | 943 | 0.005 | 0.005 | U | 0.028 | U | 0.025 | U | 15.000 | 0.009 | U | 0.039 | | |
| SEP-7 | 08/18/97 | EPRI-9708-169 | SW | 4.97 | 8.35 | 8.40 | 896 | 896 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U | 4.7 | 0.005 | U | 0.035 | | |
| SEP-7 | 11/10/97 | EPRI-9711-169 | SW | 6.96 | 8.16 | 8.30 | 1924 | 1796 | 0.01 | 0.005 | U | 0.01 | U | 0.025 | U | 0.36 | 0.005 | U | 0.024 | J2 | |
| SEP-7 | 02/13/98 | EPRI-9802-165 | SW | 8.49 | 8.50 | 1479 | 249 | 0.02 | 0.005 | U | 0.01 | U | 0.025 | U | 0.6 | 0.003 | U | 0.024 | J2 | | |
| SEP-7 | 05/20/98 | EPRI-9805-183 | SW | 6.3 | 8.79 | 8.20 | 1083 | 963 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U | 2.2 | 0.004 | U | 0.022 | | |
| SEP-7 | 8/11/98 | EPRI-9808-165 | SW | 6.47 | 8.45 | 8.5 | 976 | 974 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 4.4 | 0.005 | U | 0.033 | | |
| SEP-7 | 11/18/98 | EPRI-9811-165 | SW | 8.40 | 8.35 | 8.4 | 1899 | 1892 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 0.25 | J4 | 0.003 | U | 0.020 | U |
| SEP-7 | 2/19/99 | EPRI-9902-160 | SW | 16.50 | 8.41 | 8.3 | 2100 | 1775 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.38 | 0.005 | U | 0.02 | U | |
| SEP-7 | 5/12/99 | EPRI-9905-161 | SW | 5.20 | 7.54 | 8.3 | 1158 | J3 | 1380 | 0.011 | 0.005 | U | 0.010 | U | 0.025 | U | 1.7 | 0.009 | U | 0.032 | |
| SEP-7 | 08/20/99 | EPRI-9908-161 | SW | 5.8 | 8.14 | 8.4 | 894 | 896 | 0.005 | 0.005 | U | 0.011 | U | 0.025 | U | 14 | 0.009 | U | 0.034 | | |
| Average | | | | 7.58 | 8.30 | 8.37 | 1379. | 1202 | 0.009 | 0.005 | U | 0.010 | U | 0.025 | U | 3.177 | 0.005 | U | 0.027 | | |
| Median | | | | 6.39 | 8.35 | 8.4 | 1158 | 974 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 1.700 | 0.005 | U | 0.024 | | |
| Standard Deviation | | | | 3.76 | 0.34 | 0.10 | 483 | 547 | 0.005 | 0.000 | U | 0.000 | U | 0.002 | U | 0.000 | U | 0.006 | | | |
| Minimum | | | | 4.97 | 7.54 | 8.20 | 894 | 249 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.250 | 0.003 | U | 0.020 | | |
| Maximum | | | | 16.50 | 8.79 | 8.50 | 2100 | 1892 | 0.020 | 0.005 | U | 0.011 | U | 0.025 | U | 14.000 | 0.009 | U | 0.035 | | |

Table F-3. Summary of Surface Water Quality, August 1997 through August 1999
Total Recoverable Metals

| Site | Date | Samp # | Type | (O) (fl) | pH (fl) | pH (lab) | Specific Conductivity SC (lab) | Conductivity SC (fl) | Arsenic (AS) TRC | Cadmium (CD) TRC | Chromium (CR) TRC | Copper (CU) TRC | Iron (FE) TRC | Lead (PB) TRC | Selenium (SE) TRC | Zinc (ZN) TRC |
|--------------------|----------|---------------|------|----------|---------|----------|--------------------------------|----------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| SEP-8 | 08/18/97 | EPRI-9708-170 | SW | | | | | | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 4.3 |
| SEP-9 | 08/15/97 | EPRI-9708-171 | SW | 6.14 | 8.23 | 8.30 | 1133 | 1108 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U | 0.008 |
| SEP-9 | 11/10/97 | EPRI-9711-171 | SW | 6.6 | 8.14 | 8.30 | 1886 | 1771 | 0.011 | 0.005 | U | 0.01 | U | 0.025 | U | 3.2 |
| SEP-9 | 02/13/98 | EPRI-9802-166 | SW | 8.18 | 8.20 | 1550 | 278 | 0.01 | 0.005 | U | 0.01 | U | 0.025 | U | 0.15 | |
| SEP-9 | 5/19/98 | EPRI-9805-166 | SW | 7.38 | 8.49 | 8.50 | 1273 | 1082 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U | 0.6 |
| SEP-9 | 8/18/98 | EPRI-9808-166 | SW | 5.61 | 8.26 | 8.5 | 1142 | 1166 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 1.7 |
| SEP-9 | 11/18/98 | EPRI-9811-166 | SW | 7.80 | 8.35 | 8.3 | 1950 | 0.010 | 0.005 | U | 0.010 | U | 0.025 | U | 4.2 | |
| SEP-9 | 2/19/99 | EPRI-9902-161 | SW | 10.9 | 8.31 | 8.1 | 2050 | 1763 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 0.25 |
| SEP-9 | 5/12/99 | EPRI-9905-162 | SW | 3.70 | 7.65 | 8.4 | 1156 | J3 | 1267 | 0.005 | U | 0.005 | U | 0.010 | U | 1.6 |
| SEP-9 | 08/20/99 | EPRI-9908-162 | SW | 5.6 | 7.92 | 8.3 | 1303 | 1301 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U | 8.1 |
| Average | | | | 6.72 | 8.17 | 8.32 | 1494 | 1217 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 0.007 |
| Median | | | | 6.37 | 8.23 | 8.3 | 1303 | 1217 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U | 0.004 |
| Standard Deviation | | | | 2.11 | 0.25 | 0.13 | 375 | 467 | 0.002 | 0.000 | U | 0.000 | U | 0.000 | U | 2.221 |
| Minimum | | | | 3.70 | 7.65 | 8.10 | 1133 | 278 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U | 0.150 |
| Maximum | | | | 10.90 | 8.49 | 8.50 | 2050 | 1771 | 0.011 | 0.005 | U | 0.010 | U | 0.025 | U | 8.100 |

TABLE F-4

**ANALYTICAL RESULTS FOR NUTRIENTS,
SURFACE WATER SAMPLES**

Table F-4. Summary of Surface Water Quality, August 1997 through February 2000
Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | | Specific Conductivity SC (fld) | | NO3+N02 as N | |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------|--------------------------------------|-------|-----------------|---------|
| POND 1 | 12/22/97 | EPRI-9711-182 | SW | | 7.58 | 7.50 | 27200 | | 24500 | | 20 | |
| POND 1 | 02/19/98 | EPRI-9802-171 | SW | 8.15 | 7.85 | 7.70 | 25600 | | 22900 | | 23 | |
| POND 1 | 05/19/98 | EPRI-9805-171 | SW | 5.29 | 7.85 | 7.90 | 50100 | | 49000 | | 34 | |
| POND 1 | 8/18/98 | EPRI-9808-171 | SW | 4.1 | 7.82 | 8.1 | 126300 | | 78600 | | 55 | |
| POND 1 | 11/18/98 | EPRI-9811-171 | SW | 7.10 | 7.38 | 8.0 | 8260 | | 8200 | | 6.9 | |
| POND 1 | 2/19/99 | EPRI-9902-173 | SW | 12.3 | 8.12 | 8.1 | 19330 | | 15540 | | 18 | |
| POND 1 | 5/12/99 | EPRI-9905-174 | SW | 7 | 6.75 | 7.9 | 34600 | J3 | 35000 | | 88 | |
| POND 1 | 08/11/99 | EPRI-9908-174 | SW | 4.2 | 7.68 | 7.9 | 46400 | | 48700 | | 134 | |
| POND 1 | 11/02/99 | EPRI-9911-168 | SW | 9.9 | 7.74 | 8.1 | 215000 | | 12370 | R | 1112 | |
| Average | | | | | 7.26 | 7.64 | 7.91 | 61421 | | 32757 | | 166 |
| Median | | | | | 7.05 | 7.74 | 7.9 | 34600 | | 24500 | | 34 |
| Standard Deviation | | | | | 2.84 | 0.39 | 0.20 | 67008 | | 22652 | | 357 |
| Minimum | | | | | 4.10 | 6.75 | 7.50 | 8260 | | 8200 | | 7 |
| Maximum | | | | | 12.30 | 8.12 | 8.10 | 215000 | | 78600 | | 1112 |
| POND 5 | 12/22/97 | EPRI-9711-183 | SW | | 7.11 | 7.20 | 975 | | 1289 | | 0.05 | U |
| POND 5 | 02/19/98 | EPRI-9802-172 | SW | 7.33 | 7.99 | 7.50 | 1152 | | 1160 | | 1.2 | |
| POND 5 | 05/19/98 | EPRI-9805-172 | SW | 8.12 | 9.17 | 8.90 | 1351 | | 1338 | | 0.05 | |
| POND 5 | 08/18/98 | EPRI-9808-172 | SW | 5.28 | 6.76 | 6.7 | 1970 | | 1972 | | 0.098 | |
| Average | | | | | 6.91 | 7.76 | 7.58 | 1362 | | 1440 | | 0.350 |
| Median | | | | | 7.33 | 7.55 | 7.35 | 1252 | | 1314 | | 0.074 |
| Standard Deviation | | | | | 1.47 | 1.07 | 0.94 | 433 | | 363 | | 0.567 |
| Minimum | | | | | 5.28 | 6.76 | 6.70 | 975 | | 1160 | | 0.050 |
| Maximum | | | | | 8.12 | 9.17 | 8.90 | 1970 | | 1972 | | 1.200 |
| POND 6 | 12/22/97 | EPRI-9711-184 | SW | | 7.61 | 7.70 | 5330 | | 5870 | | 0.56 | |
| POND 6 | 02/19/98 | EPRI-9802-173 | SW | 5.9 | 8.10 | 7.80 | 3960 | | 4430 | | 1.2 | |
| POND 6 | 05/19/98 | EPRI-9805-173 | SW | 8.33 | 9.22 | 9.10 | 4650 | | 4640 | | 0.05 | U |
| POND 6 | 08/18/98 | EPRI-9808-173 | SW | 4.83 | 8.41 | 8.6 | 5390 | | 5340 | | 0.84 | |
| POND 6 | 11/12/98 | EPRI-9811-173 | SW | 6.9 | 8.10 | 8.2 | 4540 | | 4270 | | 1.4 | |
| POND 6 | 2/19/99 | EPRI-9902-175 | SW | 10.8 | 8.75 | 8.5 | 2610 | | 2290 | | 0.05 | U |
| POND 6 | 5/12/99 | EPRI-9905-176 | SW | 9.2 | 8.85 | 8.9 | 2450 | J3 | 2540 | | 0.10 | U, UJ4 |
| POND 6 | 08/11/99 | EPRI-9908-176 | SW | 7 | 8.79 | 8.8 | 1773 | | 1726 | | 0.08 | |
| POND 6 | 11/02/99 | EPRI-9911-169 | SW | 9.5 | 9.14 | 9.2 | 1702 | | 1756 | | 0.16 | |
| POND 6 | 02/07/00 | EPRI-0002-203 | SW | 6.4 | 7.39 | 7.7 | 1420 | | 1373 | | 0.54 | UJ1 |
| Average | | | | | 7.65 | 8.44 | 8.45 | 3383 | | 3424 | | 0.498 |
| Median | | | | | 7.00 | 8.58 | 8.55 | 3285 | | 3405 | | 0.350 |
| Standard Deviation | | | | | 1.93 | 0.62 | 0.57 | 1558 | | 1660 | | 0.503 |
| Minimum | | | | | 4.83 | 7.39 | 7.70 | 1420 | | 1373 | | 0.050 |
| Maximum | | | | | 10.80 | 9.22 | 9.20 | 5390 | | 5870 | | 1.400 |
| SEP-1 | 08/15/97 | EPRI-9708-163 | SW | 6.03 | 8.38 | 8.30 | 910 | | 873 | | 0.5 | |
| SEP-1 | 11/10/97 | EPRI-9711-163 | SW | 12.17 | 8.04 | 8.00 | 4660 | | 4680 | | 4.1 | |
| SEP-1 | 02/13/98 | EPRI-9802-161 | SW | | 7.38 | 7.90 | 4580 | | 868 | A | 3.8 | |
| SEP-1 | 05/20/98 | EPRI-9805-184 | SW | 6.79 | 8.75 | 8.20 | 1095 | | 967 | | 0.34 | |
| SEP-1 | 8/11/98 | EPRI-9808-161 | SW | 5.9 | 8.46 | 8.3 | 951 | | 958 | | 0.17 | |
| SEP-1 | 2/19/99 | EPRI-9902-156 | SW | 10.9 | 8.54 | 8.3 | 2100 | | 1831 | | 2.6 | |
| SEP-1 | 5/12/99 | EPRI-9905-157 | SW | 5 | 7.48 | 8.0 | 1172 | J3 | 1319 | | 0.14 | UJ1, J4 |

Table F-4. Summary of Surface Water Quality, August 1997 through February 2000
Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| SEP-1 | 08/20/99 | EPRI-9908-157 | SW | 5.1 | 8.05 | 8.3 | 918 | 913 | 0.58 |
| SEP-1 | 11/01/99 | EPRI-9911-183 | SW | 7.2 | 8.15 | 8.3 | 1803 | 1808 | 1.3 |
| SEP-1 | 01/31/00 | EPRI-0002-183 | SW | 7.1 | 8.33 | 8.3 | 1402 | 1350 | 1.1 |
| Average | | | | 7.35 | 8.16 | 8.19 | 1959 | 1557 | 1.46 |
| Median | | | | 6.79 | 8.24 | 8.3 | 1287 | 1143 | 0.84 |
| Standard Deviation | | | | 2.52 | 0.44 | 0.16 | 1456 | 1157 | 1.50 |
| Minimum | | | | 5.00 | 7.38 | 7.90 | 910 | 868 | 0.14 |
| Maximum | | | | 12.17 | 8.75 | 8.30 | 4660 | 4680 | 4.10 |
| SEP-10 | 08/15/97 | EPRI-9708-175 | SW | 6.22 | 8.40 | 8.40 | 835 | 818 | 0.36 |
| SEP-10 | 08/15/97 | EPRI-9708-179 | SW | | 8.30 | 8.37 | | | 0.37 |
| SEP-10 | 11/19/97 | EPRI-9711-181 | SW | 7.32 | 8.38 | 8.50 | 1970 | 2180 | 3 |
| SEP-10 | 02/13/98 | EPRI-9802-167 | SW | | 8.29 | 8.30 | 1474 | 230 | A 3 |
| SEP-10 | 05/19/98 | EPRI-9805-167 | SW | 7.43 | 8.84 | 8.30 | 1066 | 1072 | 0.21 |
| SEP-10 | 05/19/98 | EPRI-9805-181 | SW | | 8.40 | 8.66 | | | 0.21 |
| SEP-10 | 8/18/98 | EPRI-9808-167 | SW | 6.5 | 8.58 | 8.7 | 969 | 875 | 0.17 |
| SEP-10 | 11/18/98 | EPRI-9811-167 | SW | 7.50 | 8.32 | 8.4 | 1894 | 1882 | 2.3 |
| SEP-10 | 2/19/99 | EPRI-9902-162 | SW | 10.4 | 8.41 | 8.2 | 2060 | 1675 | 1.7 |
| SEP-10 | 5/13/99 | EPRI-9905-163 | SW | 6 | 7.14 | 8.3 | 1153 | 1068 | 0.10 U,UJ4 |
| SEP-10 | 08/20/99 | EPRI-9908-163 | SW | 5.3 | 8.17 | 8.2 | 892 | 889 | 0.53 |
| SEP-10 | 11/01/99 | EPRI-9911-191 | SW | 9.3 | 8.21 | 8.3 | 2120 | 2080 | 0.75 UJ1 |
| SEP-10 | 02/14/00 | EPRI-0002-190 | SW | 9.1 | 8.37 | 8.5 | 2210 | 2100 | 1.6 |
| Average | | | | 7.51 | 8.28 | 8.37 | 1427 | 1352 | 1.10 |
| Median | | | | 7.38 | 8.37 | 8.3 | 1153 | 1072 | 0.53 |
| Standard Deviation | | | | 1.63 | 0.42 | 0.14 | 543 | 656 | 1.09 |
| Minimum | | | | 5.30 | 7.14 | 8.20 | 835 | 230 | 0.10 |
| Maximum | | | | 10.40 | 8.84 | 8.70 | 2210 | 2180 | 3.00 |
| SEP-11 | 08/15/97 | EPRI-9708-176 | SW | 6.33 | 8.42 | 8.10 | 814 | 810 | 0.36 |
| SEP-11 | 11/10/97 | EPRI-9711-177 | SW | 6.97 | 8.30 | 8.30 | 1933 | 1741 | 2.2 |
| SEP-11 | 02/13/98 | EPRI-9802-168 | SW | | 8.32 | 8.40 | 1447 | 228 | A 2.5 |
| SEP-11 | 05/19/98 | EPRI-9805-168 | SW | 7.19 | 8.79 | 8.50 | 1071 | 1063 | 0.21 |
| SEP-11 | 8/18/98 | EPRI-9808-168 | SW | 6.43 | 8.59 | 8.7 | 968 | 869 | 0.14 |
| SEP-11 | 11/18/98 | EPRI-9811-168 | SW | 7.80 | 8.53 | 8.5 | 1877 | 1860 | 2.0 |
| SEP-11 | 11/18/98 | EPRI-9811-182 | SW | | | 8.5 | 1885 | | 2.1 |
| SEP-11 | 2/19/99 | EPRI-9902-163 | SW | 10.9 | 8.47 | 8.3 | 2060 | 1633 | 1.9 |
| SEP-11 | 5/13/99 | EPRI-9905-164 | SW | 5.8 | 7.06 | 8.4 | 1151 | 1099 | 0.25 J4 |
| SEP-11 | 5/13/99 | EPRI-9905-191 | SW | 5.7 | 7.07 | 8.4 | 1154 | 1101 | 0.10 U,UJ4 |
| SEP-11 | 08/20/99 | EPRI-9908-164 | SW | 5.4 | 8.18 | 8.3 | 895 | 887 | 0.51 |
| SEP-11 | 11/02/99 | EPRI-9911-157 | SW | 7.8 | 7.63 | 8.4 | 1972 | 2110 | 0.62 |
| SEP-11 | 02/14/00 | EPRI-0002-191 | SW | 9.5 | 8.52 | 8.6 | 2300 | 2222 | 1.6 |
| Average | | | | 7.26 | 8.16 | 8.42 | 1502 | 1302 | 1.11 |
| Median | | | | 6.97 | 8.37 | 8.4 | 1447 | 1100 | 0.62 |
| Standard Deviation | | | | 1.69 | 0.58 | 0.15 | 517 | 604 | 0.93 |
| Minimum | | | | 5.40 | 7.06 | 8.10 | 814 | 228 | 0.10 |
| Maximum | | | | 10.90 | 8.79 | 8.70 | 2300 | 2222 | 2.50 |
| SEP-12 | 08/15/97 | EPRI-9708-177 | SW | 6.34 | 8.47 | 8.30 | 850 | 834 | 0.38 |
| SEP-12 | 11/10/97 | EPRI-9711-176 | SW | 6.64 | 8.37 | 8.30 | 1970 | 1648 | 2.2 |
| SEP-12 | 02/13/98 | EPRI-9802-169 | SW | | 8.39 | 8.40 | 1422 | 212 | A 1.8 |
| SEP-12 | 05/19/98 | EPRI-9805-169 | SW | 6.87 | 8.82 | 8.40 | 1064 | 1125 | 0.22 |
| SEP-12 | 8/20/98 | EPRI-9808-169 | SW | 5.55 | 8.6 | 8.4 | 952 | 974 | 0.29 |
| SEP-12 | 11/18/98 | EPRI-9811-169 | SW | 8.00 | 8.24 | 8.4 | 1877 | 1866 | 1.9 |
| SEP-12 | 2/19/99 | EPRI-9902-164 | SW | 9.9 | 8.39 | 8.3 | 2070 | 1573 | 1.5 |

Table F-4. Summary of Surface Water Quality, August 1997 through February 2000
Nutrients

| Site | Date | Samp # | Type | (O) | pH | pH | Specific Conductivity | | Specific Conductivity | | NO3+N02 as N | |
|--------------------|----------|---------------|------|---------|-------|-------|-----------------------|----------|-----------------------|----------|--------------|------|
| | | | | (fld) | (fld) | (lab) | SC (lab) | SC (fld) | SC (fld) | SC (fld) | | |
| SEP-12 | 5/13/99 | EPRI-9905-165 | SW | 5.8 | 6.94 | 8.4 | 1166 | | 1214 | | 0.16 J4 | |
| SEP-12 | 08/20/99 | EPRI-9908-165 | SW | 5.5 | 8.15 | 8.3 | 902 | | 900 | | 0.53 | |
| SEP-12 | 11/01/99 | EPRI-9911-160 | SW | 7.8 | 8.34 | 8.5 | 2060 | | 2070 | | 0.8 UJ1 | |
| SEP-12 | 11/01/99 | EPRI-9911-233 | SW | 9.1 | 8.36 | 8.5 | 2060 | | 2070 | | 0.89 | |
| SEP-12 | 02/14/00 | EPRI-0002-192 | SW | 9.6 | 8.42 | 8.5 | 2330 | | 2300 | | 1.5 | |
| Average | | | | | 7.37 | 8.29 | 8.39 | 1560 | | 1399 | | 1.01 |
| Median | | | | | 6.87 | 8.38 | 8.4 | 1650 | | 1394 | | 0.85 |
| Standard Deviation | | | | | 1.61 | 0.46 | 0.08 | 552 | | 624 | | 0.73 |
| Minimum | | | | | 5.50 | 6.94 | 8.30 | 850 | | 212 | | 0.16 |
| Maximum | | | | | 9.90 | 8.82 | 8.50 | 2330 | | 2300 | | 2.20 |
| SEP-13 | 08/15/97 | EPRI-9708-178 | SW | 7 | 8.47 | 8.20 | 854 | | 852 | | 0.38 | |
| SEP-13 | 11/10/97 | EPRI-9711-175 | SW | 6.1 | 8.42 | 8.30 | 1993 | | 1613 | | 2.1 | |
| SEP-13 | 02/13/98 | EPRI-9802-170 | SW | | 8.39 | 8.40 | 1394 | | 207 | A | 1.5 | |
| SEP-13 | 05/19/98 | EPRI-9805-170 | SW | 7.64 | 8.68 | 8.50 | 1051 | | 1058 | | 0.24 | |
| SEP-13 | 8/20/98 | EPRI-9808-170 | SW | 5.37 | 8.6 | 8.4 | 954 | | 965 | | 0.27 | |
| SEP-13 | 8/20/98 | EPRI-9808-179 | SW | | | 8.4 | 954 | | | | 0.26 | |
| SEP-13 | 11/18/98 | EPRI-9811-170 | SW | 8.80 | 8.06 | 8.5 | 1884 | | 1868 | | 1.9 | |
| SEP-13 | 2/19/99 | EPRI-9902-165 | SW | 11.4 | 7.92 | 8.3 | 2090 | | 1584 | | 1.4 | |
| SEP-13 | 5/13/99 | EPRI-9905-166 | SW | 5.8 | 6.89 | 8.6 | 1182 | | 1321 | | 0.10 U,UI4 | |
| SEP-13 | 08/20/99 | EPRI-9908-166 | SW | 5.5 | 8.17 | 8.3 | 889 | | 880 | | 0.5 | |
| SEP-13 | 11/01/99 | EPRI-9911-158 | SW | 9.7 | 8.34 | 8.5 | 2070 | | 2070 | | 0.74 UJ1 | |
| SEP-13 | 02/14/00 | EPRI-0002-193 | SW | 8.4 | 8.42 | 8.5 | 2330 | | 2290 | | 1.5 | |
| SEP-13 | 02/14/00 | EPRI-0002-239 | SW | 8.3 | 8.42 | 8.5 | 2320 | | 2290 | | 1.5 | |
| Average | | | | | 7.64 | 8.23 | 8.42 | 1536 | | 1417 | | 0.95 |
| Median | | | | | 7.64 | 8.405 | 8.4 | 1394 | | 1453 | | 0.74 |
| Standard Deviation | | | | | 1.91 | 0.47 | 0.11 | 585 | | 649 | | 0.71 |
| Minimum | | | | | 5.37 | 6.89 | 8.20 | 854 | | 207 | | 0.10 |
| Maximum | | | | | 11.40 | 8.68 | 8.60 | 2330 | | 2290 | | 2.10 |
| SEP-14 | 11/12/98 | EPRI-9811-174 | SW | | 9.33 | 8.9 | 272 | | 255 | | 0.10 U | |
| SEP-14 | 08/11/99 | EPRI-9908-167 | SW | 6.4 | 9.03 | 7.8 | 165 | | 160 | | 0.09 | |
| Average | | | | | 6.40 | 9.18 | 8.35 | 219 | | 208 | | 0.10 |
| Median | | | | | 6.40 | 9.18 | 8.35 | 219 | | 208 | | 0.10 |
| Standard Deviation | | | | #DIV/0! | 0.21 | 0.78 | 76 | | 67 | | 0.01 | |
| Minimum | | | | | 6.40 | 9.03 | 7.80 | 165 | | 160 | | 0.09 |
| Maximum | | | | | 6.40 | 9.33 | 8.90 | 272 | | 255 | | 0.10 |
| SEP-2 | 08/15/97 | EPRI-9708-164 | SW | 6.25 | 8.40 | 8.30 | 842 | | 830 | | 0.35 | |
| SEP-2 | 11/10/97 | EPRI-9711-164 | SW | 6.48 | 8.39 | 8.30 | 1950 | | 1643 | | 2.3 | |
| SEP-2 | 02/13/98 | EPRI-9802-162 | SW | | 8.38 | 8.40 | 1440 | | 218 | A | 1.8 | |
| SEP-2 | 05/19/98 | EPRI-9805-162 | SW | 7.15 | 8.83 | 8.50 | 1068 | | 1071 | | 0.22 | |
| SEP-2 | 8/18/98 | EPRI-9808-162 | SW | 6.33 | 8.6 | 8.7 | 966 | | 854 | | 0.13 | |
| SEP-2 | 11/18/98 | EPRI-9811-162 | SW | 8.40 | 8.46 | 8.5 | 1877 | | 1865 | | 2.1 | |
| SEP-2 | 2/19/99 | EPRI-9902-157 | SW | 9.4 | 8.48 | 8.3 | 2080 | | 1576 | | 1.5 | |
| SEP-2 | 2/19/99 | EPRI-9902-191 | SW | 9.8 | 8.50 | 8.3 | 2070 | | 1571 | | 1.4 | |
| SEP-2 | 5/13/99 | EPRI-9905-158 | SW | 6 | 7.04 | 8.4 | 1179 | | 1116 | | 0.23 J4 | |
| SEP-2 | 08/20/99 | EPRI-9908-158 | SW | 5.9 | 8.12 | 8.3 | 887 | | 887 | | 0.45 | |
| SEP-2 | 11/01/99 | EPRI-9911-184 | SW | 10.2 | 8.32 | 8.5 | 2110 | | 2120 | | 0.75 UJ1 | |
| SEP-2 | 02/14/00 | EPRI-0002-184 | SW | 10.2 | 8.46 | 8.5 | 2330 | | 2280 | | 1.3 | |
| Average | | | | | 7.83 | 8.33 | 8.42 | 1567 | | 1336 | | 1.04 |
| Median | | | | | 7.15 | 8.43 | 8.4 | 1659 | | 1344 | | 1.03 |
| Standard Deviation | | | | | 1.79 | 0.44 | 0.13 | 556 | | 607 | | 0.78 |
| Minimum | | | | | 5.90 | 7.04 | 8.30 | 842 | | 218 | | 0.13 |
| Maximum | | | | | 10.20 | 8.83 | 8.70 | 2330 | | 2280 | | 2.30 |

Table F-4. Summary of Surface Water Quality, August 1997 through February 2000
Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| SEP-3 | 08/18/97 | EPRI-9708-165 | SW | 5.33 | 8.25 | 8.40 | 959 | 946 | 0.63 |
| SEP-3 | 11/19/97 | EPRI-9711-165 | SW | 12.44 | 7.80 | 7.60 | 5250 | 6200 | 12 |
| SEP-3 | 02/13/98 | EPRI-9802-163 | SW | | 7.84 | 8.10 | 5410 | 1054 | A 8.6 |
| SEP-3 | 05/20/98 | EPRI-9805-185 | SW | 6.65 | 8.76 | 8.20 | 1092 | 967 | 0.33 |
| SEP-3 | 8/11/98 | EPRI-9808-163 | SW | 6.44 | 8.45 | 8.5 | 977 | 986 | 0.33 |
| SEP-3 | 8/11/98 | EPRI-9808-181 | SW | | | 8.5 | 976 | | 0.34 |
| SEP-3 | 5/12/99 | EPRI-9905-159 | SW | 5 | 7.77 | 9.4 | 1168 | J3 1319 | 0.38 UJ1,J4 |
| SEP-3 | 5/12/99 | EPRI-9905-190 | SW | 3.6 | 7.77 | 9.5 | 1175 | J3 1265 | 1.0 J4 |
| SEP-3 | 08/20/99 | EPRI-9908-159 | SW | 5.6 | 8.22 | 8.3 | 915 | 921 | 0.57 |
| SEP-3 | 11/01/99 | EPRI-9911-185 | SW | 6.2 | 8.19 | 8.4 | 1826 | 1889 | 1.3 UJ1 |
| SEP-3 | 01/31/00 | EPRI-0002-185 | SW | 7.5 | 8.29 | 8.3 | 1400 | 1356 | 1.3 UJ1 |
| Average | | | | 6.53 | 8.13 | 8.47 | 1923 | 1690 | 2.43 |
| Median | | | | 6.20 | 8.205 | 8.4 | 1168 | 1160 | 0.63 |
| Standard Deviation | | | | 2.48 | 0.33 | 0.54 | 1705 | 1612 | 3.98 |
| Minimum | | | | 3.60 | 7.77 | 7.60 | 915 | 921 | 0.33 |
| Maximum | | | | 12.44 | 8.76 | 9.50 | 5410 | 6200 | 12.00 |
| SEP-4 | 08/15/97 | EPRI-9708-166 | SW | 6.37 | 8.54 | 8.40 | 858 | 855 | 0.39 |
| SEP-4 | 11/10/97 | EPRI-9711-166 | SW | 6.75 | 8.39 | 7.90 | 1952 | 1595 | 1.7 |
| SEP-4 | 02/13/98 | EPRI-9802-164 | SW | | 8.41 | 8.40 | 1388 | 197.7 | A 1.3 |
| SEP-4 | 05/19/98 | EPRI-9805-164 | SW | 7.37 | 8.86 | 8.40 | 1054 | 1060 | 0.23 |
| SEP-4 | 8/20/98 | EPRI-9808-164 | SW | 5.99 | 8.58 | 8.4 | 954 | 960 | 0.27 |
| SEP-4 | 11/18/98 | EPRI-9811-164 | SW | 8.0 | 7.71 | 8.5 | 1893 | 1879 | 1.9 |
| SEP-4 | 2/19/99 | EPRI-9902-159 | SW | 10.2 | 8.28 | 8.3 | 2100 | 1643 | 1.5 |
| SEP-4 | 5/13/99 | EPRI-9905-160 | SW | 5.6 | 6.84 | 8.5 | 1194 | 1279 | 0.10 UJ1,J4 |
| SEP-4 | 08/20/99 | EPRI-9908-160 | SW | 6.1 | 8.14 | 8.6 | 898 | 896 | 0.54 |
| SEP-4 | 11/01/99 | EPRI-9911-186 | SW | 10.2 | 8.37 | 8.4 | 2120 | 2390 | 0.81 UJ1 |
| SEP-4 | 02/14/00 | EPRI-0002-186 | SW | 10.9 | 8.65 | 8.4 | 2440 | 2360 | 1.7 |
| Average | | | | 7.75 | 8.25 | 8.38 | 1532 | 1374 | 0.95 |
| Median | | | | 7.06 | 8.39 | 8.4 | 1388 | 1279 | 0.81 |
| Standard Deviation | | | | 1.99 | 0.55 | 0.18 | 579 | 674 | 0.68 |
| Minimum | | | | 5.60 | 6.84 | 7.90 | 858 | 198 | 0.10 |
| Maximum | | | | 10.90 | 8.86 | 8.60 | 2440 | 2390 | 1.90 |
| SEP-6 | 08/18/97 | EPRI-9708-168 | SW | 5.33 | 8.28 | 8.40 | 961 | 943 | 0.76 |
| SEP-6 | 08/20/99 | EPRI-9908-177 | SW | 5.4 | 8.24 | 8.2 | 915 | 914 | 0.57 |
| SEP-6 | 08/20/99 | EPRI-9908-208 | SW | 5.4 | 8.25 | 8.6 | 915 | 914 | 0.57 |
| SEP-6 | 11/01/99 | EPRI-9911-187 | SW | 6.7 | 8.25 | 8.4 | 1830 | 1871 | 1.3 UJ1 |
| SEP-6 | 01/31/00 | EPRI-0002-187 | SW | 7.2 | 8.34 | 8.2 | 1412 | 1372 | 1.4 UJ1 |
| Average | | | | 6.01 | 8.27 | 8.36 | 1207 | 1203 | 0.92 |
| Median | | | | 5.40 | 8.25 | 8.4 | 961 | 943 | 0.76 |
| Standard Deviation | | | | 0.88 | 0.04 | 0.17 | 407 | 421 | 0.40 |
| Minimum | | | | 5.33 | 8.24 | 8.20 | 915 | 914 | 0.57 |
| Maximum | | | | 7.20 | 8.34 | 8.60 | 1830 | 1871 | 1.40 |
| SEP-7 | 08/18/97 | EPRI-9708-169 | SW | 4.97 | 8.35 | 8.40 | 896 | 896 | 0.37 |
| SEP-7 | 11/10/97 | EPRI-9711-169 | SW | 6.96 | 8.16 | 8.30 | 1924 | 1796 | 2.7 |
| SEP-7 | 02/13/98 | EPRI-9802-165 | SW | | 8.49 | 8.50 | 1479 | 249 | A 3 |
| SEP-7 | 05/20/98 | EPRI-9805-183 | SW | 6.3 | 8.79 | 8.20 | 1083 | 963 | 0.21 |
| SEP-7 | 8/11/98 | EPRI-9808-165 | SW | 6.47 | 8.45 | 8.5 | 976 | 974 | 0.32 |
| SEP-7 | 11/18/98 | EPRI-9811-165 | SW | 8.40 | 8.35 | 8.4 | 1899 | 1892 | 2.6 |
| SEP-7 | 2/19/99 | EPRI-9902-160 | SW | 16.5 | 8.41 | 8.3 | 2100 | 1775 | 1.5 |
| SEP-7 | 5/12/99 | EPRI-9905-161 | SW | 5.2 | 7.54 | 8.3 | 1158 J3 | 1380 | 0.13 UJ1,J4 |

Table F-4. Summary of Surface Water Quality, August 1997 through February 2000
Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| SEP-7 | 08/20/99 | EPRI-9908-161 | SW | 5.8 | 8.14 | 8.4 | 894 | 896 | 0.52 |
| SEP-7 | 11/01/99 | EPRI-9911-188 | SW | 7 | 8.15 | 8.3 | 1800 | 1836 | 0.9 |
| SEP-7 | 01/31/00 | EPRI-0002-188 | SW | 7.7 | 8.36 | 8.3 | 1402 | 1366 | 1.3 |
| Average | | | | 7.53 | 8.29 | 8.35 | 1419 | 1275 | 1.23 |
| Median | | | | 6.72 | 8.35 | 8.3 | 1402 | 1366 | 0.90 |
| Standard Deviation | | | | 3.32 | 0.31 | 0.09 | 450 | 526 | 1.08 |
| Minimum | | | | 4.97 | 7.54 | 8.20 | 894 | 249 | 0.13 |
| Maximum | | | | 16.50 | 8.79 | 8.50 | 2100 | 1892 | 3.00 |
| SEP-8 | 08/18/97 | EPRI-9708-170 | SW | 5.26 | 7.49 | 8.30 | 958 | 969 | 0.62 |
| SEP-9 | 08/15/97 | EPRI-9708-171 | SW | 6.14 | 8.23 | 8.30 | 1133 | 1108 | 2.3 |
| SEP-9 | 11/10/97 | EPRI-9711-171 | SW | 6.6 | 8.14 | 8.30 | 1886 | 1771 | 3.7 |
| SEP-9 | 02/13/98 | EPRI-9802-166 | SW | | 8.18 | 8.20 | 1550 | 278 | A 6.5 |
| SEP-9 | 05/19/98 | EPRI-9805-166 | SW | 7.38 | 8.49 | 8.50 | 1273 | 1082 | 2.4 |
| SEP-9 | 8/18/98 | EPRI-9808-166 | SW | 5.61 | 8.26 | 8.5 | 1142 | 1166 | 2.5 |
| SEP-9 | 11/18/98 | EPRI-9811-166 | SW | 7.80 | 8.35 | 8.3 | 1950 | | 5.5 |
| SEP-9 | 2/19/99 | EPRI-9902-161 | SW | 10.9 | 8.31 | 8.1 | 2050 | 1763 | 5.0 |
| SEP-9 | 5/12/99 | EPRI-9905-162 | SW | 3.7 | 7.65 | 8.4 | 1156 | J3 1267 | 0.10 U,UJ4 |
| SEP-9 | 08/20/99 | EPRI-9908-162 | SW | 5.6 | 7.92 | 8.3 | 1303 | 1301 | 3.5 |
| SEP-9 | 11/01/99 | EPRI-9911-190 | SW | 7.6 | 7.8 | 8.3 | 1804 | 1846 | 1.4 |
| SEP-9 | 02/14/00 | EPRI-0002-189 | SW | 6.1 | 8.03 | 8.3 | 2120 | 2050 | 2.7 |
| Average | | | | 6.74 | 8.12 | 8.32 | 1579 | 1363 | 3.24 |
| Median | | | | 6.37 | 8.18 | 8.3 | 1550 | 1284 | 2.70 |
| Standard Deviation | | | | 1.89 | 0.25 | 0.12 | 392 | 517 | 1.87 |
| Minimum | | | | 3.70 | 7.65 | 8.10 | 1133 | 278 | 0.10 |
| Maximum | | | | 10.90 | 8.49 | 8.50 | 2120 | 2050 | 6.50 |

TABLE F-5

**ANALYTICAL RESULTS FOR COMMON IONS,
SURFACE WATER SAMPLES**

Table F-5. Summary of Surface Water Quality, August 1997 through February 2000
Common Ions

| Site | Date | Samp # | Type | (O) | pH (fid) | pH (lab) | Specific Conductivity SC (fid) | Specific Conductivity SC (lab) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | | |
|--------------------|----------|---------------|------|-------|----------|----------|--------------------------------|--------------------------------|----------|------|------------------|--------------------|-----------------|-------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------|---------------|--------------|------|-------|-----|
| POND 1 | 12/22/97 | EPRI-9711-152 | SW | 7.58 | 7.50 | 27200 | 24500 | 25974 | 6.9 | 439 | 144 | 7724 | 373 | 144 | 176 | 1.0 | U | 16043 | 1002 | 23 | | | |
| POND 1 | 02/19/98 | EPRI-9802-171 | SW | 8.15 | 7.85 | 7.70 | 25600 | 22900 | 24898 | 8.8 | 411 | 135 | 7362 | 329 | 126 | 154 | 1.0 | U | 14493 | 1134 | 21 | | |
| POND 1 | 05/19/98 | EPRI-9805-171 | SW | 5.29 | 7.85 | 7.90 | 50100 | 49000 | 53664 | 21 | 526 | 274 | 16140 | 715 | 210 | 256 | 1.0 | U | 104 | 36326 | 2853 | | |
| POND 1 | 8/18/98 | EPRI-9808-171 | SW | 4.1 | 7.82 | 8.1 | 126300 | 78600 | 101290 | 43 | 585 | 545 | 36130 | 11157 | 206 | 251 | 1.0 | U | 59186 | 5316 | 38 | | |
| POND 1 | 11/18/98 | EPRI-9811-171 | SW | 7.1 | 7.38 | 8.0 | 8260 | 8200 | 6712 | 22 | 266 | 54 | 1865 | 64 | 115 | 140 | 1.0 | U | 3856 | 630 | 75 | | |
| POND 1 | 02/19/99 | EPRI-9902-173 | SW | 12.3 | 8.12 | 8.1 | 19350 | 15540 | 16995 | 48 | 397 | 95 | 5144 | 211 | 138 | 168 | 1.0 | U | 7894 | 1340 | 14 | | |
| POND 1 | 05/12/99 | EPRI-9905-174 | SW | 7 | 6.75 | 7.9 | 34600 | 13 | 35000 | 1 | 34222 | 69 | 548 | 198 | 10500 | 460 | 130 | 159 | J3 | 1.0 | UJ3 | 20254 | 292 |
| POND 1 | 08/11/99 | EPRI-9908-174 | SW | 4.2 | 7.68 | 7.9 | 46400 | 48700 | 49470 | 56 | 537 | 329 | 13740 | 469 | 107 | 131 | 1.0 | U | 32369 | 3406 | 35 | | |
| POND 1 | 11/02/99 | EPRI-9911-168 | SW | 9.9 | 7.74 | 8.1 | 215000 | 12370 | R 147412 | 1703 | 850 | 3445 | 42350 | 4074 | 481 | 587 | 1.0 | U | 80035 | 24148 | 121 | | |
| Average | | | | 7.26 | 7.64 | 7.91 | 61421 | | 51182 | 220 | 507 | 580 | 15662 | 866 | 184 | 225 | 1.0 | U | 30652 | 4458 | 34 | | |
| Median | | | | 7.05 | 7.74 | 7.9 | 34600 | 24500 | 34222 | 43 | 526 | 198 | 10500 | 409 | 138 | 168 | 1.0 | U | 20254 | 1340 | 23 | | |
| Standard Deviation | | | | 2.84 | 0.39 | 0.20 | 67008 | 22652 | 45470 | 557 | 162 | 1085 | 14118 | 1244 | 117 | 143 | 0.0 | U | 25256 | 7557 | 34 | | |
| Minimum | | | | 4.10 | 6.75 | 7.50 | 8260 | 8200 | 6712 | 7 | 266 | 54 | 1865 | 64 | 107 | 131 | 1.0 | U | 3866 | 292 | 8 | | |
| Maximum | | | | 12.30 | 8.12 | 8.10 | 215000 | 78600 | 147412 | 1703 | 850 | 3445 | 42350 | 4074 | 481 | 587 | 1.0 | U | 80035 | 24148 | 121 | | |
| POND 5 | 12/22/97 | EPRI-9711-181 | SW | 7.11 | 7.20 | 975 | 1289 | 644 | 2.8 | 35 | 3.2 | 154 | 7.3 | 50 | 61 | 1.0 | U | 193 | 137 | 1 | | | |
| POND 5 | 02/19/98 | EPRI-9802-172 | SW | 7.33 | 7.99 | 7.50 | 1152 | 1160 | 775 | 1.8 | 41 | 6.9 | 195 | 6.3 | 75 | 92 | 1.0 | U | 237 | 144 | 0.91 | | |
| POND 5 | 05/19/98 | EPRI-9805-172 | SW | 8.12 | 9.17 | 8.90 | 1351 | 1338 | 846 | 6 | 78 | 18 | 176 | 13 | 133 | 116 | 2.5 | J4 | 318 | 176 | 0.94 | | |
| POND 5 | 08/18/98 | EPRI-9808-172 | SW | 5.28 | 6.76 | 6.7 | 1970 | 1972 | 1277 | 11 | 108 | 25 | 275 | 14 | 17 | 21 | 1.0 | U | 449 | 349 | 3.1 | | |
| Average | | | | 6.91 | 7.76 | 7.58 | 1440 | 886 | 5 | 66 | 13 | 200 | 10 | 69 | 73 | 7.0 | U | 193 | 202 | 1 | | | |
| Median | | | | 7.33 | 7.55 | 7.35 | 1252 | 1314 | 811 | 4 | 60 | 12 | 186 | 10 | 63 | 77 | 1.0 | U | 278 | 160 | 1 | | |
| Standard Deviation | | | | 1.47 | 1.07 | 0.94 | 433 | 365 | 274 | 4 | 34 | 10 | 53 | 4 | 49 | 41 | 12.0 | J4 | 318 | 176 | 1 | | |
| Minimum | | | | 5.28 | 6.76 | 6.70 | 975 | 1160 | 644 | 2 | 35 | 3 | 154 | 6 | 17 | 21 | 1.0 | U | 193 | 137 | 1 | | |
| Maximum | | | | 8.12 | 9.17 | 8.90 | 1970 | 1972 | 1277 | 11 | 108 | 25 | 275 | 14 | 133 | 116 | 25.0 | 449 | 349 | 3 | | | |
| POND 6 | 12/22/97 | EPRI-9711-184 | SW | 7.61 | 7.70 | 975 | 1289 | 644 | 2.8 | 35 | 3.2 | 154 | 7.3 | 50 | 61 | 1.0 | U | 1874 | 497 | 11 | | | |
| POND 6 | 02/19/98 | EPRI-9802-173 | SW | 5.9 | 8.10 | 7.80 | 3960 | - | 4430 | 2914 | 23 | 103 | 11 | 938 | 17 | 60 | 75 | 1.0 | U | 1363 | 402 | 5.1 | |
| POND 6 | 05/19/98 | EPRI-9805-173 | SW | 8.33 | 9.22 | 9.10 | 4650 | - | 4640 | 3389 | 41 | 213 | 47 | 925 | 29 | 176 | 150 | 35.0 | J4 | 1634 | 512 | 8.2 | |
| POND 6 | 8/18/98 | EPRI-9808-173 | SW | 4.83 | 8.41 | 8.6 | 5390 | - | 5340 | 4045 | 17 | 267 | 1 | 56 | 950 | 47 | 172 | 189 | 11.0 | U | 1846 | 639 | 4.1 |
| POND 6 | 11/19/98 | EPRI-9811-173 | SW | 6.9 | 8.1 | 8.2 | 4540 | - | 4270 | 3397 | 44 | 198 | 35 | 887 | 33 | 136 | 166 | 1.0 | U | 1592 | 559 | 3.6 | |
| POND 6 | 02/19/99 | EPRI-9902-175 | SW | 10.8 | 8.75 | 8.9 | 2610 | 2290 | 1716 | 15 | 82 | 7.6 | 507 | 15 | 53 | 62 | 5.0 | J4 | 462 | 286 | 1.9 | | |
| POND 6 | 05/12/99 | EPRI-9905-176 | SW | 9.2 | 8.85 | 8.9 | 2450 | J3 | 2540 | 1632 | 23 | 115 | 23 | 420 | 20 | 118 | 144 | 3 | J4 | 691 | 278 | 2.2 | |
| POND 6 | 08/11/99 | EPRI-9908-176 | SW | 7 | 8.79 | 8.8 | 1773 | - | 1726 | 1186 | 17 | 97 | 18 | 218 | 11 | 121 | 112 | 19.0 | J3 | 377 | 250 | 1.6 | |
| POND 6 | 11/02/99 | EPRI-9911-169 | SW | 9.5 | 9.14 | 9.2 | 1702 | - | 1756 | 1032 | 34 | 95 | 17 | 222 | 11 | 135 | 165 | 1.0 | U | 338 | 243 | 1.7 | |
| POND 6 | 02/07/00 | EPRI-0002-203 | SW | 6.4 | 7.39 | 7.7 | 1420 | - | 1373 | 909 | 15 | 77 | 13 | 205 | 8.5 | 79 | 96 | 1.0 | U | 226 | 177 | 1.4 | |
| Average | | | | 7.65 | 8.44 | 8.45 | 3383 | 3424 | 2413 | 26 | 142 | 25 | 641 | 22 | 113 | 126 | 7.6 | U | 1040 | 384 | 4 | | |
| Median | | | | 7.00 | 8.58 | 8.55 | 3285 | 3405 | 2315 | 23 | 109 | 21 | 697 | 19 | 119 | 128 | 1.0 | U | 1027 | 344 | 3 | | |
| Standard Deviation | | | | 1.93 | 0.62 | 0.57 | 1558 | 1660 | 1241 | 11 | 66 | 16 | 363 | 12 | 43 | 43 | 11.4 | U | 680 | 159 | 3 | | |
| Minimum | | | | 4.83 | 7.39 | 7.70 | 1420 | 1373 | 909 | 15 | 77 | 8 | 205 | 9 | 58 | 62 | 1.0 | U | 226 | 177 | 1 | | |
| Maximum | | | | 10.80 | 9.22 | 9.20 | 5390 | 5870 | 4045 | 44 | 267 | 56 | 1139 | 47 | 176 | 189 | 35.0 | U | 1874 | 639 | 11 | | |
| SEP-1 | 08/15/97 | EPRI-9708-163 | SW | 6.03 | 8.38 | 8.30 | 910 | 873 | 635 | 275 | 62 | 15 | 114 | 8.4 | 180 | 220 | 1.0 | U | 156 | 81 | 0.65 | | |
| SEP-1 | 11/10/97 | EPRI-9711-163 | SW | 12.17 | 8.04 | 8.00 | 4660 | 4680 | 3424 | 13 | 196 | 77 | 793 | 60 | 312 | 381 | 1.0 | U | 1616 | 438 | 2.3 | | |
| SEP-1 | 02/12/98 | EPRI-9802-161 | SW | 7.38 | 7.90 | 4580 | 868 | A 3300 | 20 | 203 | 76 | 748 | 67 | 318 | 388 | 1.0 | U | 1676 | 481 | 2.1 | | | |
| SEP-1 | 05/20/98 | EPRI-9805-184 | SW | 6.79 | 8.75 | 8.20 | 1095 | 967 | 668 | 99 | 71 | 17 | 129 | 6.9 | 179 | 218 | 1.0 | U | 226 | 107 | 0.68 | | |
| SEP-1 | 8/11/98 | EPRI-9808-161 | SW | 5.9 | 8.46 | 8.3 | 951 | 958 | 630 | 242 | 66 | 15 | 113 | 8.1 | 194 | 237 | 1.0 | U | 185 | 82 | 0.64 | | |
| SEP-1 | 2/19/99 | EPRI-9902-156 | SW | 10.9 | 8.54 | 8.3 | 2100 | 1831 | 1363 | 28 | 109 | 26 | 315 | 13.0 | 225 | 140 | 1.0 | U | 313 | 248 | 0.83 | | |
| SEP-1 | 5/12/99 | EPRI-9905-157 | SW | 5 | 7.48 | 8 | 1172 | J3 | 1319 | 746 | 76 | 18 | 140 | 7.6 | 163 | 190 | J3 | 216 | 92 | 0.72 | | | |

**Table F-5. Summary of Surface Water Quality, August 1997 through February 2000
Common Ions**

| Site | Date | Samp # | Type | (O) (fild) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fild) | TDS (CA) DIS | TSS | Calcium (MG) DIS | Magnesium (NA) DIS | Sodium (K) DIS | Potassium (KC) DIS as CaCO3 | Total Alkalinity (HCO3) | Bicarbonate (CO3) | Carbonate (CO3) | Sulfate (SO4) | Chloride (CL) | Fluoride (F) | | | |
|--------------------|----------|---------------|------|------------|----------|--------------------------------|---------------------------------|--------------|------|------------------|--------------------|----------------|-----------------------------|-------------------------|-------------------|-----------------|---------------|---------------|--------------|------|------|------|
| SEP-1 | 8/20/99 | EPRI-9908-157 | SW | 5.1 | 8.05 | 8.3 | 918 | 913 | 572 | 522 | 59 | 12 | 102 | 6.9 | 198 | 242 | 1.0 | .U4 | 196 | 76 | 0.64 | |
| SEP-1 | 11/1/99 | EPRI-9911-183 | SW | 7.2 | 8.15 | 8.3 | 1803 | 1808 | 1135 | 29 | 99 | 25 | 215 | 11.0 | 226 | 276 | 1.0 | U | 423 | 220 | 0.73 | |
| SEP-1 | 1/31/00 | EPRI-0002-183 | SW | 7.1 | 8.33 | 8.3 | 1402 | 1350 | 841 | 67 | 4 | 85 | 19 | 191 | 7.3 | 200 | 244 | 1.0 | U | 232 | 167 | 0.74 |
| Average | | | | 7.35 | 8.16 | 8.19 | 1959 | 1557 | 1331 | 137 | 102 | 30 | 286 | 20 | 220 | 267 | 1.4 | 524 | 199 | 1 | | |
| Median | | | | 6.79 | 8.24 | 8.3 | 1287 | 1143 | 794 | 72 | 79 | 19 | 166 | 8 | 199 | 243 | 1.0 | 229 | 137 | 1 | | |
| Standard Deviation | | | | 2.52 | 0.44 | 0.16 | 1456 | 1157 | 1099 | 164 | 54 | 25 | 263 | 23 | 54 | 67 | 1.3 | 596 | 150 | 1 | | |
| Minimum | | | | 5.00 | 7.38 | 7.90 | 910 | 868 | 572 | 13 | 59 | 12 | 102 | 7 | 163 | 190 | 1.0 | 156 | 76 | 1 | | |
| Maximum | | | | 12.17 | 8.75 | 8.20 | 4660 | 4680 | 3424 | 222 | 203 | 77 | 793 | 67 | 318 | 388 | 5.0 | 1676 | 481 | 2 | | |
| SEP-10 | 08/15/97 | EPRI-9708-175 | SW | 6.22 | 8.40 | 8.40 | 835 | 818 | 576 | 286 | 60 | 14 | 100 | 8.2 | 169 | 203 | 2.0 | 145 | 69 | 0.64 | | |
| SEP-10 | 08/15/97 | EPRI-9708-179 | SW | 8.30 | 837 | 8.30 | 837 | 543 | 339 | 60 | 14 | 100 | 8.3 | 174 | 212 | 1.0 | U | 131 | 67 | 0.64 | | |
| SEP-10 | 11/19/97 | EPRI-9711-181 | SW | 7.32 | 8.38 | 8.50 | 1970 | 2180 | 1337 | 16 | 103 | 25 | 278 | 13 | 216 | 278 | 12.0 | 436 | 255 | 0.82 | | |
| SEP-10 | 02/13/98 | EPRI-9802-167 | SW | 8.29 | 8.30 | 1474 | 230 | A | 960 | 80 | 82 | 17 | 228 | 7.4 | 188 | 229 | 1.0 | U | 264 | 175 | 0.68 | |
| SEP-10 | 05/19/98 | EPRI-9805-167 | SW | 7.43 | 8.34 | 8.30 | 1066 | 1072 | 650 | 102 | 74 | 17 | 130 | 8 | 165 | 201 | 1.0 | .U4 | 229 | 112 | 0.68 | |
| SEP-10 | 05/19/98 | EPRI-9805-181 | SW | 8.40 | 1066 | 1066 | 1066 | 684 | 105 | 72 | 17 | 126 | 8.4 | 165 | 188 | 7.0 | 14 | 229 | 109 | 0.68 | | |
| SEP-10 | 8/18/98 | EPRI-9808-167 | SW | 6.5 | 8.58 | 8.7 | 969 | 875 | 608 | 190 | 64 | 14 | 113 | 9 | 186 | 207 | 11.0 | 207 | 85 | 0.62 | | |
| SEP-10 | 11/18/98 | EPRI-9811-167 | SW | 7.5 | 8.32 | 8.4 | 1894 | 1882 | 1268 | 18 | 100 | 23 | 278 | 12 | 220 | 259 | 5.0 | 439 | 243 | 0.73 | | |
| SEP-10 | 02/19/99 | EPRI-9902-162 | SW | 10.4 | 8.41 | 8.2 | 2060 | 1675 | 1282 | 28 | 110 | 27 | 307 | 15 | 240 | 293 | 1.0 | U | 290 | 239 | 0.77 | |
| SEP-10 | 05/13/99 | EPRI-9905-163 | SW | 6 | 7.14 | 8.3 | 1153 | 1068 | 748 | 62 | 77 | 20 | 135 | 8.1 | 198 | 242 | 1.0 | U | 204 | 92 | 0.72 | |
| SEP-10 | 08/20/99 | EPRI-9908-163 | SW | 5.3 | 8.17 | 8.2 | 892 | 889 | 592 | 481 | 62 | 12 | 99 | 7.2 | 196 | 239 | 1.0 | .U4 | 180 | 67 | 0.68 | |
| SEP-10 | 11/01/99 | EPRI-9911-191 | SW | 9.3 | 8.21 | 8.3 | 2120 | 2080 | 1347 | 41 | 105 | 29 | 261 | 12 | 231 | .282 | 1.0 | U | 512 | 251 | 0.86 | |
| SEP-10 | 02/14/00 | EPRI-0002-190 | SW | 9.1 | 8.37 | 8.5 | 2210 | 2100 | 1458 | 35 | 108 | 26 | 294 | 13 | 231 | 255 | 14.4 | 382 | 290 | 0.87 | | |
| Average | | | | 7.51 | 8.28 | 8.37 | 1427 | 1352 | 927 | 137 | 83 | 20 | 188 | 10 | 201 | 238 | 4.5 | 281 | 158 | 1 | | |
| Median | | | | 7.38 | 8.37 | 8.3 | 1153 | 1072 | 748 | 80 | 77 | 17 | 135 | 8 | 196 | 239 | 1.0 | 229 | 112 | 1 | | |
| Standard Deviation | | | | 1.63 | 0.42 | 0.14 | 543 | 656 | 356 | 146 | 20 | 6 | 85 | 3 | 30 | 34 | 5.0 | 123 | 86 | 0 | | |
| Minimum | | | | 5.30 | 7.14 | 8.20 | 835 | 230 | 543 | 16 | 60 | 12 | 99 | 7 | 165 | 188 | 1.0 | 131 | 67 | 1 | | |
| Maximum | | | | 10.40 | 8.84 | 8.70 | 2210 | 2180 | 1458 | 481 | 110 | 29 | 307 | 15 | 246 | 293 | 14.4 | 512 | 290 | 1 | | |
| SEP-11 | 08/15/97 | EPRI-9708-176 | SW | 6.33 | 8.42 | 8.10 | 810 | 526 | 432 | 60 | 14 | 101 | 8.3 | 162 | 198 | 1.0 | U | 140 | 73 | 0.57 | | |
| SEP-11 | 11/1/97 | EPRI-9711-177 | SW | 6.97 | 8.30 | 830 | 1933 | 1741 | 1238 | 23 | 104 | 25 | 272 | 9.2 | 231 | 282 | 1.0 | U | 415 | 246 | 0.74 | |
| SEP-11 | 02/13/98 | EPRI-9802-168 | SW | 8.32 | 8.40 | 1447 | 228 | A | 949 | 91 | 85 | 18 | 225 | 8.2 | 194 | 224 | 7.0 | 259 | 178 | 0.71 | | |
| SEP-11 | 05/19/98 | EPRI-9805-168 | SW | 7.19 | 8.79 | 8.50 | 1071 | 1063 | 660 | 104 | 72 | 17 | 126 | 9.4 | 172 | 178 | 17.0 | 14 | 229 | 110 | 0.66 | |
| SEP-11 | 8/18/98 | EPRI-9808-168 | SW | 6.43 | 8.59 | 8.7 | 968 | 869 | 623 | 202 | 65 | 15 | 115 | 9.7 | 186 | 207 | 11.0 | 203 | 86 | 0.60 | | |
| SEP-11 | 11/18/98 | EPRI-9811-168 | SW | 7.8 | 8.53 | 8.5 | 1877 | 1860 | 1219 | 23 | 102 | 24 | 276 | 12 | 222 | 261 | 5.0 | 438 | 246 | 0.74 | | |
| SEP-11 | 11/18/98 | EPRI-9811-182 | SW | 8.5 | 1885 | 1885 | 1885 | 1256 | 17 | 102 | 24 | 275 | 12 | 222 | 261 | 5.0 | 430 | 234 | 0.73 | | | |
| SEP-11 | 02/19/99 | EPRI-9902-163 | SW | 10.9 | 8.47 | 8.3 | 2060 | 1633 | 1390 | 31 | 112 | 28 | 292 | 15 | 237 | 289 | 1.0 | U | 299 | 237 | 0.79 | |
| SEP-11 | 05/13/99 | EPRI-9905-164 | SW | 5.8 | 7.06 | 8.4 | 1151 | 1099 | 755 | 70 | 75 | 19 | 140 | 7.8 | 203 | 239 | 5.0 | 204 | 98 | 0.72 | | |
| SEP-11 | 05/13/99 | EPRI-9905-191 | SW | 5.7 | 7.07 | 8.4 | 1154 | 1101 | 727 | 65 | 75 | 19 | 140 | 7.6 | 194 | 227 | 5.0 | 192 | 103 | 0.72 | | |
| SEP-11 | 08/20/99 | EPRI-9908-164 | SW | 5.4 | 8.18 | 8.3 | 895 | 887 | 581 | 500 | 63 | 13 | 100 | 7.3 | 200 | 244 | 1.0 | .U4 | 191 | 69 | 0.64 | |
| SEP-11 | 11/02/99 | EPRI-9911-157 | SW | 7.8 | 7.63 | 8.4 | 1972 | 2110 | 1294 | 37 | 106 | 28 | 240 | 11 | 237 | 289 | 1.0 | U | 415 | 206 | 0.78 | |
| SEP-11 | 02/14/00 | EPRI-0002-191 | SW | 9.5 | 8.52 | 8.6 | 2300 | 2222 | 1517 | 17 | 112 | 29 | 315 | 14 | 255 | 246 | 13.8 | J4 | 344 | 310 | 0.86 | |
| Average | | | | 7.26 | 8.16 | 8.42 | 1502 | 1302 | 981 | 124 | 87 | 21 | 201 | 10 | 206 | 242 | 5.7 | 289 | 169 | 1 | | |
| Median | | | | 6.97 | 8.37 | 8.4 | 1447 | 1100 | 949 | 65 | 85 | 19 | 225 | 9 | 203 | 244 | 5.0 | 259 | 178 | 1 | | |
| Standard Deviation | | | | 1.69 | 0.58 | 0.15 | 517 | 604 | 351 | 161 | 20 | 6 | 82 | 2 | 24 | 35 | 5.3 | 107 | 82 | 0 | | |
| Minimum | | | | 5.40 | 7.06 | 8.10 | 814 | 228 | 526 | 17 | 60 | 13 | 100 | 7 | 162 | 178 | 1.0 | 140 | 69 | 1 | | |
| Maximum | | | | 10.90 | 8.79 | 8.70 | 2300 | 2222 | 1517 | 500 | 112 | 29 | 315 | 15 | 237 | 289 | 17.0 | 438 | 310 | 1 | | |
| SEP-12 | 08/15/97 | EPRI-9708-177 | SW | 6.34 | 8.47 | 8.30 | 850 | 834 | 590 | 224 | 61 | 14 | 101 | 8.2 | 176 | 215 | 1.0 | U | 134 | 68 | 0.64 | |
| SEP-12 | 11/10/97 | EPRI-9711-176 | SW | 6.64 | 8.37 | 8.30 | 1970 | 1648 | 1323 | 31 | 105 | 26 | 272 | 11 | 234 | 285 | 1.0 | U | 427 | 254 | 0.75 | |
| SEP-12 | 02/13/98 | EPRI-9802-169 | SW | 8.39 | 8.40 | 1422 | 212 | A | 911 | 97 | 85 | 18 | 211 | 7.5 | 198 | 223 | 10.0 | 253 | 176 | 0.68 | | |
| SEP-12 | 05/19/98 | EPRI-9805-169 | SW | 6.87 | 8.82 | 8.40 | 1064 | 1125 | 646 | 99 | 71 | 17 | 127 | 14 | 167 | 185 | 10.0 | J4 | 216 | 105 | 0.66 | |
| SEP-12 | 08/20/98 | EPRI-9808-169 | SW | 5.55 | 8.6 | 8.4 | 952 | 974 | 644 | 204 | 60 | 14 | 112 | 8.2 | 187 | 224 | 2.0 | 206 | 81 | 0.62 | | |

Table F-5. Summary of Surface Water Quality August 1997 through February 2000
Common Ions

| Site | Date | Samp # | Type | (O) | pH (fld) | pH (lab) | Specific Conductivity | Specific Conductivity SC (fld) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | |
|--------------------|----------|---------------|------|-------|----------|----------|-----------------------|--------------------------------|------|-----|------------------|--------------------|-----------------|---------------------------------------|---------------------------------|------------------------------|----------------------------|---------------|--------------|------|------|
| SEP-12 | 1/1/98 | EPRI-5811-169 | SW | 8 | 8.24 | 8.4 | 1877 | 1866 | 1283 | 20 | 105 | 25 | 277 | 12 | 226 | 5.0 | 431 | 232 | 0.72 | | |
| SEP-12 | 02/19/99 | EPRI-5902-164 | SW | 9.9 | 8.39 | 8.3 | 2070 | 1573 | 1100 | 26 | 113 | 30 | 303 | 16 | 242 | 295 | 1.0 | 301 | 238 | 0.78 | |
| SEP-12 | 05/15/99 | EPRI-5905-165 | SW | 5.8 | 6.94 | 8.4 | 1166 | 1214 | 735 | 57 | 76 | 20 | 145 | 7.5 | 196 | 239 | 1.0 | 220 | 97 | 0.69 | |
| SEP-12 | 08/20/99 | EPRI-5908-165 | SW | 5.5 | 8.15 | 8.3 | 902 | 900 | 597 | 476 | 62 | 13 | 97 | 7.2 | 194 | 237 | 1.0 | 195 | 69 | 0.66 | |
| SEP-12 | 11/01/99 | EPRI-5911-160 | SW | 7.8 | 8.34 | 8.5 | 2060 | 2070 | 1316 | 311 | 100 | 30 | 254 | 12 | 218 | 251 | 8.4 | 479 | 259 | 0.8 | |
| SEP-12 | 11/01/99 | EPRI-5911-233 | SW | 9.1 | 8.36 | 8.5 | 2060 | 2070 | 1311 | 30 | 101 | 29 | 256 | 12 | 220 | 253 | 8.4 | 450 | 250 | 0.78 | |
| SEP-12 | 02/14/00 | EPRI-6002-192 | SW | 9.6 | 8.42 | 8.5 | 2330 | 1525 | 113 | 30 | 315 | 13 | 250 | 283 | 12.0 | 14 | 598 | 299 | 0.9 | | |
| Average | | | | 7.37 | 8.29 | 8.39 | 1560 | 1399 | 998 | 110 | 88 | 22 | 206 | 11 | 210 | 246 | 5.1 | 324 | 177 | 1 | |
| Median | | | | 6.87 | 8.38 | 8.4 | 1650 | 1394 | 1006 | 44 | 93 | 23 | 233 | 12 | 208 | 245 | 3.5 | 277 | 204 | 1 | |
| Standard Deviation | | | | 1.61 | 0.46 | 0.08 | 552 | 624 | 347 | 135 | 21 | 7 | 84 | 3 | 27 | .32 | 4.4 | 147 | 87 | 0 | |
| Minimum | | | | 5.50 | 6.94 | 8.30 | 850 | 212 | 590 | 20 | 60 | 13 | 97 | 7 | 167 | 185 | 1.0 | 134 | 68 | 1 | |
| Maximum | | | | 9.90 | 8.82 | 8.50 | 2330 | 2300 | 1525 | 476 | 113 | 30 | 315 | 16 | 250 | 295 | 12.0 | 598 | 299 | 1 | |
| SEP-13 | 08/15/97 | EPRI-9708-178 | SW | 7 | 8.47 | 8.20 | 854 | 852 | 554 | 305 | 61 | 14 | 102 | 8.3 | 180 | 220 | 1.0 | U | 141 | 76 | 0.65 |
| SEP-13 | 11/10/97 | EPRI-9711-175 | SW | 6.1 | 8.42 | 8.30 | 1993 | 1613 | 1304 | 38 | 107 | 27 | 286 | 9.7 | 235 | 287 | 1.0 | U | 422 | 249 | 0.77 |
| SEP-13 | 02/13/98 | EPRI-9802-170 | SW | 8.39 | 8.40 | 1394 | 207 | A | 911 | 95 | 88 | 19 | 209 | 8 | 202 | 234 | 7.0 | 246 | 166 | 0.7 | |
| SEP-13 | 05/19/98 | EPRI-9805-170 | SW | 7.64 | 8.68 | 8.50 | 1051 | 1058 | 621 | 79 | 71 | 17 | 129 | 8.8 | 177 | 198 | 10.0 | J4 | 221 | 109 | 0.65 |
| SEP-13 | 08/20/98 | EPRI-9808-170 | SW | 5.37 | 8.6 | 8.4 | 954 | 965 | 671 | 234 | 61 | 14 | 111 | 8 | 186 | 223 | 2.0 | 179 | 80 | 0.62 | |
| SEP-13 | 08/20/98 | EPRI-9808-179 | SW | 8.4 | 954 | 1884 | 1858 | 1259 | 19 | 102 | 24 | 273 | 12 | 226 | 5.0 | 443 | 177 | 81 | 0.62 | | |
| SEP-13 | 11/18/98 | EPRI-9811-170 | SW | 8.8 | 8.06 | 8.5 | 1884 | 1858 | 1259 | 19 | 102 | 24 | 273 | 12 | 226 | 5.0 | 443 | 238 | 0.72 | | |
| SEP-13 | 02/19/99 | EPRI-9902-165 | SW | 11.4 | 7.92 | 8.3 | 2090 | 1584 | 1169 | 24 | 117 | 32 | 300 | 16 | 249 | 304 | 1.0 | U | 309 | 238 | 0.80 |
| SEP-13 | 05/13/99 | EPRI-9905-166 | SW | 5.8 | 6.89 | 8.6 | 1182 | 1321 | 735 | 55 | 75 | 19 | 140 | 7.8 | 215 | 249 | 7.0 | 217 | 99 | 0.60 | |
| SEP-13 | 08/20/99 | EPRI-9908-166 | SW | 5.5 | 8.17 | 8.3 | 889 | 880 | 614 | 455 | 58 | 12 | 99 | 7.1 | 180 | 220 | 1.0 | J4 | 182 | 67 | 0.66 |
| SEP-13 | 11/01/99 | EPRI-9911-158 | SW | 9.7 | 8.34 | 8.5 | 2070 | 2070 | 1299 | 33 | 99 | 30 | 263 | 12 | 211 | 238 | 10.8 | 444 | 240 | 0.79 | |
| SEP-13 | 02/14/00 | EPRI-0002-193 | SW | 8.4 | 8.42 | 8.5 | 2330 | 2290 | 1554 | 17 | 117 | 31 | 316 | 14 | 242 | 277 | 9.6 | J4 | 575 | 291 | 0.86 |
| SEP-13 | 02/14/00 | EPRI-0002-239 | SW | 8.3 | 8.42 | 8.5 | 2320 | 2290 | 1534 | 17 | 113 | 31 | 319 | 14 | 238 | 264 | 14.4 | J4 | 484 | 291 | 0.86 |
| Average | | | | 7.64 | 8.23 | 8.42 | 1536 | 1417 | 990 | 123 | 87 | 22 | 204 | 10 | 210 | 246 | 5.5 | 311 | 171 | 1 | |
| Median | | | | 7.64 | 8.405 | 8.4 | 1394 | 1453 | 911 | 55 | 88 | 19 | 209 | 9 | 211 | 238 | 5.0 | 246 | 166 | 1 | |
| Standard Deviation | | | | 1.91 | 0.47 | 0.11 | 585 | 649 | 374 | 139 | 23 | 8 | 91 | 3 | 26 | 31 | 4.6 | 144 | 88 | 0 | |
| Minimum | | | | 5.37 | 6.89 | 8.20 | 854 | 207 | -554 | 17 | 58 | 12 | 99 | 7 | 177 | 198 | 1.0 | 141 | 67 | 1 | |
| Maximum | | | | 11.40 | 8.68 | 8.60 | 2330 | 2290 | 1554 | 455 | 117 | 32 | 319 | 16 | 249 | 304 | 14.4 | 575 | 291 | 1 | |
| SEP-14 | 11/12/98 | EPRI-9811-174 | SW | 9.33 | 8.9 | 272 | 255 | 182 | 50 | 4 | 24 | 4.0 | 22 | 5.0 | U | 78 | 77 | 10.0 | 65 | 7.6 | 0.32 |
| SEP-14 | 08/11/99 | EPRI-9908-167 | SW | 6.4 | 9.03 | 7.8 | 160 | 165 | 103 | 53 | 15 | 2.7 | 12 | 5 | U | 42 | 51 | 1.0 | 20 | 1.1 | 0.28 |
| Average | | | | 6.40 | 9.18 | 8.35 | 216 | 210 | 143 | 52 | 20 | 3 | 17 | 5 | 60 | 64 | 5.5 | 43 | 4 | 0 | |
| Median | | | | 6.40 | 9.18 | 8.35 | 216 | 210 | 143 | 52 | 20 | 3 | 17 | 5 | 60 | 64 | 5.5 | 43 | 4 | 0 | |
| Standard Deviation | | | | 0.21 | 0.78 | 79 | 64 | 56 | 2 | 6 | 1 | 7 | 0 | 26 | 18 | 6.4 | 32 | 5 | 0 | | |
| Minimum | | | | 6.40 | 9.03 | 7.80 | 160 | 165 | 103 | 50 | 15 | 3 | 12 | 5 | 42 | 51 | 1.0 | 20 | 1 | 0 | |
| Maximum | | | | 6.40 | 9.33 | 8.90 | 272 | 255 | 182 | 53 | 24 | 4 | 22 | 5 | 78 | 77 | 10.0 | 65 | 8 | 0 | |
| SEP-2 | 08/15/97 | EPRI-9708-164 | SW | 6.25 | 8.40 | 8.30 | 842 | 830 | 585 | 180 | 61 | 14 | 102 | 8.2 | 172 | 210 | 1.0 | U | 131 | 75 | 0.64 |
| SEP-2 | 11/10/97 | EPRI-9711-164 | SW | 6.48 | 8.39 | 8.30 | 1950 | 1643 | 1289 | 25 | 104 | 25 | 277 | 7.7 | 222 | 271 | 1.0 | U | 415 | 248 | 0.75 |
| SEP-2 | 02/13/98 | EPRI-9802-162 | SW | 8.38 | 8.40 | 1440 | 218 | A | 961 | 95 | 84 | 18 | 217 | 7.5 | 200 | 231 | 7.0 | 256 | 171 | 0.69 | |
| SEP-2 | 05/19/98 | EPRI-9805-162 | SW | 7.15 | 8.83 | 8.50 | 1068 | 1071 | 667 | 92 | 17 | 128 | 8.4 | 171 | 192 | 9.0 | J4 | 233 | 108 | 0.66 | |
| SEP-2 | 08/18/98 | EPRI-9808-162 | SW | 6.33 | 8.6 | 8.7 | 966 | 854 | 621 | 202 | 66 | 15 | 116 | 9.3 | 186 | 206 | 11.0 | 204 | 84 | 0.62 | |
| SEP-2 | 11/18/98 | EPRI-9811-162 | SW | 8.4 | 8.46 | 8.5 | 1877 | 1865 | 1269 | 20 | 102 | 24 | 275 | 12 | 224 | 264 | 5.0 | 436 | 234 | 0.72 | |
| SEP-2 | 02/19/99 | EPRI-9902-157 | SW | 9.4 | 8.48 | 8.3 | 2080 | 1576 | 1252 | 31 | 115 | 33 | 299 | 18 | 242 | 295 | 1.0 | U | 294 | 237 | 0.79 |
| SEP-2 | 02/19/99 | EPRI-9902-191 | SW | 9.8 | 8.5 | 8.3 | 2070 | 1571 | 1195 | 32 | 115 | 30 | 300 | 16 | 240 | 293 | 1.0 | U | 246 | 247 | 0.80 |
| SEP-2 | 05/13/99 | EPRI-9905-158 | SW | 6 | 7.04 | 8.4 | 1179 | 116 | 746 | 63 | 77 | 19 | 140 | 7.7 | 194 | 227 | 5.0 | 226 | 95 | 0.72 | |

Table F-5. Summary of Surface Water Quality, August 1997 through February 2000
Common Ions

| Site | Date | Samp # | Type | (O) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | TDS (CA) DIS | TISS | Calcium | Magnesium | Sodium (Na) DIS | Potassium (K) DIS | Bicarbonate (HCO ₃) | Carbonate | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | |
|--------------------|----------|---------------|------|-------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|------|---------|-----------|--------------------|----------------------|------------------------------------|-----------|-------------------------------|------------------|-----------------|------|------|------|
| SEP-2 | 08/20/99 | EPRI-9908-158 | SW | 5.9 | 8.12 | 8.3 | 887 | 887 | 556 | 339 | 58 | 12 | 97 | 7 | 192 | 234 | 1.0 | .UJ4 | 185 | 77 | 0.64 | |
| SEP-2 | 11/01/99 | EPRI-9911-184 | SW | 10.2 | 8.32 | 8.5 | 2110 | 2120 | 1345 | 36 | 103 | 30 | 261 | 13 | 217 | 249 | 3.4 | 516 | 244 | 244 | 0.82 | |
| SEP-2 | 02/14/00 | EPRI-0002-184 | SW | 10.2 | 8.46 | 8.5 | 2330 | 2280 | 1551 | 24 | 119 | 31 | 315 | 13 | 244 | 275 | 12.0 | 14 | 593 | 297 | 0.85 | |
| Average | | | | 7.83 | 8.33 | 8.42 | 1567 | 1336 | 1003 | 95 | 90 | 22 | 211 | 11 | 209 | 246 | 5.2 | 311 | 176 | 1 | | |
| Median | | | | 7.15 | 8.43 | 8.4 | 1659 | 1344 | 1078 | 50 | 93 | 22 | 239 | 9 | 208 | 242 | 5.0 | 251 | 203 | 1 | | |
| Standard Deviation | | | | 1.79 | 0.44 | 0.13 | 556 | 607 | 353 | 98 | 22 | 7 | 87 | 4 | 26 | 34 | 4.2 | 144 | 83 | 0 | | |
| Minimum | | | | 5.90 | 7.04 | 8.30 | 842 | 218 | 556 | 20 | 58 | 12 | 97 | 7 | 171 | 192 | 1.0 | 131 | 75 | 1 | | |
| Maximum | | | | 10.20 | 8.83 | 8.70 | 2330 | 2280 | 1551 | 339 | 119 | 33 | 315 | 18 | 244 | 295 | 12.0 | 1 | 593 | 297 | 1 | |
| SEP-3 | 08/18/97 | EPRI-9708-165 | SW | 5.33 | 8.25 | 8.40 | 959 | 946 | 633 | 229 | 66 | 15 | 124 | 8.2 | 171 | 205 | 2.0 | 182 | 82 | 0.66 | | |
| SEP-3 | 11/19/97 | EPRI-9711-165 | SW | 12.44 | 7.80 | 7.60 | 5250 | 6200 | 3954 | 14 | 225 | 94 | 943 | 53 | 196 | 239 | 1.0 | U | 1839 | 597 | 2.1 | |
| SEP-3 | 02/13/98 | EPRI-9802-163 | SW | 7.84 | 8.10 | 8.10 | 5410 | 1054 | A | 3979 | 21 | 216 | 89 | 965 | 54 | 280 | 342 | 1.0 | U | 1832 | 679 | 1.8 |
| SEP-3 | 05/20/98 | EPRI-9805-185 | SW | 6.65 | 8.76 | 8.20 | 1092 | 967 | 661 | 98 | 70 | 17 | 126 | 8.1 | 179 | 218 | 1.0 | U | 226 | 107 | 0.68 | |
| SEP-3 | 8/11/98 | EPRI-9808-163 | SW | 6.44 | 8.45 | 8.5 | 977 | 986 | 663 | 230 | 62 | 14 | 112 | 7.5 | 188 | 217 | 7.0 | 14 | 200 | 79 | 0.64 | |
| SEP-3 | 8/11/98 | EPRI-9808-181 | SW | 8.5 | 976 | | 654 | 218 | 63 | 14 | 113 | 7.0 | 183 | 214 | 5.0 | 14 | 195 | 84 | 0.64 | | | |
| SEP-3 | 05/12/99 | EPRI-9905-159 | SW | 5 | 7.77 | 9.4 | 1168 | 13 | 1319 | 746 | 73 | 18 | 140 | 7.5 | 191 | 224 | 3.0 | 13 | 232 | 98 | 0.73 | |
| SEP-3 | 05/12/99 | EPRI-9905-190 | SW | 3.6 | 7.77 | 9.5 | 1175 | 13 | 1265 | 709 | 90 | 19 | 140 | 7.6 | 194 | 227 | 3.0 | 13 | 230 | 101 | 0.70 | |
| SEP-3 | 08/20/99 | EPRI-9908-159 | SW | 5.6 | 8.22 | 8.3 | 915 | 921 | 582 | 522 | 60 | 12 | 104 | 7.1 | 206 | 251 | 1.0 | .UJ4 | 197 | 76 | 0.64 | |
| SEP-3 | 11/01/99 | EPRI-9911-185 | SW | 6.2 | 8.19 | 8.4 | 1826 | 1889 | 1186 | 33 | 104 | 25 | 223 | 11 | 222 | 271 | 1.0 | U | 417 | 188 | 0.73 | |
| SEP-3 | 01/31/00 | EPRI-0002-185 | SW | 7.5 | 8.29 | 8.3 | 1400 | 1356 | 853 | 64 | 4 | 91 | 21 | 193 | 8.6 | 197 | 240 | 1.0 | U | 235 | 160 | 0.71 |
| Average | | | | 6.53 | 8.13 | 8.47 | 1923 | 1690 | 1329 | 146 | 100 | 31 | 289 | 16 | 201 | 241 | 2.7 | 526 | 205 | 1 | | |
| Median | | | | 6.20 | 8.205 | 8.4 | 1168 | 1160 | 709 | 90 | 73 | 18 | 140 | 8 | 194 | 227 | 1.0 | 230 | 101 | 1 | | |
| Standard Deviation | | | | 2.48 | 0.33 | 0.54 | 1705 | 1612 | 1314 | 149 | 61 | 30 | 331 | 18 | 30 | 38 | 2.3 | 651 | 218 | 1 | | |
| Minimum | | | | 3.60 | 7.77 | 7.60 | 915 | 921 | 582 | 14 | 60 | 12 | 104 | 7 | 171 | 205 | 1.0 | 182 | 76 | 1 | | |
| Maximum | | | | 12.44 | 8.76 | 9.50 | 5410 | 6200 | 3979 | 522 | 225 | 94 | 965 | 54 | 280 | 342 | 7.0 | 1839 | 679 | 2 | | |
| SEP-4 | 08/15/97 | EPRI-9708-166 | SW | 6.37 | 8.54 | 8.40 | 858 | 855 | 571 | 321 | 62 | 14 | 104 | 8.1 | 177 | 212 | 2.0 | 149 | 74 | 0.66 | | |
| SEP-4 | 11/01/97 | EPRI-9711-166 | SW | 6.75 | 8.39 | 7.90 | 1952 | 1595 | 1289 | 31 | 107 | 26 | 275 | 8 | 245 | 299 | 1.0 | U | 424 | 249 | 0.77 | |
| SEP-4 | 02/13/98 | EPRI-9802-164 | SW | 8.41 | 8.40 | 1388 | 197.7 | A | 878 | 106 | 86 | 19 | 203 | 8 | 203 | 235 | 7.0 | 246 | 160 | 0.73 | | |
| SEP-4 | 05/12/99 | EPRI-9905-164 | SW | 7.37 | 8.36 | 8.40 | 1054 | 1060 | 640 | 72 | 72 | 120 | 8.7 | 169 | 192 | 8.0 | J4 | 217 | 110 | 0.66 | | |
| SEP-4 | 08/20/98 | EPRI-9808-164 | SW | 5.99 | 8.58 | 8.4 | 954 | 960 | 642 | 198 | 60 | 14 | 111 | 7.8 | 185 | 222 | 2.0 | 176 | 82 | 0.62 | | |
| SEP-4 | 11/18/98 | EPRI-9811-164 | SW | 8.0 | 7.71 | 8.5 | 1893 | 1879 | 1272 | 25 | 105 | 25 | 282 | 12 | 236 | 266 | 5.0 | 418 | 234 | 0.72 | | |
| SEP-4 | 02/19/99 | EPRI-9902-159 | SW | 10.2 | 8.28 | 8.3 | 2160 | 1643 | 1116 | 24 | 116 | 31 | 310 | 16 | 231 | 306 | 1.0 | U | 288 | 247 | 0.78 | |
| SEP-4 | 05/13/99 | EPRI-9905-160 | SW | 5.6 | 6.84 | 8.5 | 1194 | 1279 | 776 | 55 | 76 | 20 | 140 | 7.1 | 198 | 229 | 7.0 | 239 | 97 | 0.70 | | |
| SEP-4 | 08/20/99 | EPRI-9908-160 | SW | 6.1 | 8.14 | 8.6 | 898 | 896 | 588 | 475 | 59 | 12 | 98 | 7.1 | 203 | 218 | 16.0 | 14 | 188 | 74 | 0.66 | |
| SEP-4 | 11/01/99 | EPRI-9911-186 | SW | 10.2 | 8.37 | 8.4 | 2120 | 2390 | 2069 | 33 | 96 | 29 | 263 | 12 | 202 | 246 | 1.0 | U | 450 | 217 | 0.8 | |
| SEP-4 | 02/14/00 | EPRI-0002-186 | SW | 10.9 | 8.65 | 8.4 | 2440 | 2360 | 1574 | 61 | 112 | 32 | 334 | 13 | 232 | 270 | 7.2 | J4 | 501 | 315 | 0.83 | |
| Average | | | | 7.75 | 8.25 | 8.38 | 1532 | 1374 | 1038 | 128 | 86 | 22 | 204 | 10 | 208 | 245 | 5.2 | 300 | 169 | 1 | | |
| Median | | | | 7.06 | 8.39 | 8.4 | 1388 | 1279 | 878 | 61 | 86 | 20 | 203 | 8 | 203 | 235 | 5.0 | 246 | 160 | 1 | | |
| Standard Deviation | | | | 1.99 | 0.55 | 0.18 | 579 | 674 | 480 | 147 | 22 | 7 | 92 | 3 | 27 | 36 | 4.6 | 125 | 86 | 0 | | |
| Minimum | | | | 5.60 | 6.84 | 7.90 | 858 | 198 | 571 | 24 | 59 | 12 | 98 | 7 | 169 | 192 | 1.0 | 149 | 74 | 1 | | |
| Maximum | | | | 10.90 | 8.86 | 8.60 | 2440 | 2390 | 2069 | 475 | 116 | 32 | 334 | 16 | 251 | 306 | 16.0 | 501 | 315 | 1 | | |
| SEP-6 | 08/18/97 | EPRI-9708-168 | SW | 5.33 | 8.28 | 8.40 | 961 | 943 | 643 | 178 | 65 | 15 | 121 | 8.3 | 173 | 207 | 2.0 | 176 | 85 | 0.66 | | |
| SEP-6 | 08/20/99 | EPRI-9908-177 | SW | 5.4 | 8.24 | 8.2 | 915 | 914 | 566 | 521 | 59 | 12 | 102 | 7.2 | 205 | 250 | 1.0 | .UJ4 | 191 | 73 | 0.66 | |
| SEP-6 | 08/20/99 | EPRI-9908-203 | SW | 5.4 | 8.25 | 8.6 | 915 | 914 | 594 | 488 | 61 | 12 | 102 | 7.1 | 195 | 214 | 13.0 | J4 | 188 | 70 | 0.66 | |

Table F-5. Summary of Surface Water Quality, August 1997 through February 2000
Common Ions

| Site | Date | Samp # | Type | (O) | pH (fld) | pH (lab) | Specific Conductivity SC (fld) | TDS | TSS (CA) DIS | Calcium (MG) DIS | Magnesium (NA) DIS | Sodium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | | | | |
|--------------------|----------|---------------|------|-------|-------------|-------------|--------------------------------------|------|-----------------|---------------------|-----------------------|-------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|-----|------|------|------|-----|
| SEP-6 | 11/01/99 | EPRI-9911-187 | SW | 6.7 | 8.25 | 8.4 | 1830 | 1871 | 833 | 33 | 107 | 27 | 235 | 11 | 222 | 271 | 1.0 | U | 215 | 0.73 | | | |
| SEP-6 | 01/31/00 | EPRI-0002-187 | SW | 7.2 | 8.34 | 8.2 | 1412 | 1372 | 861 | 62 | 4 | 21 | 193 | 8.4 | 187 | 228 | 1.0 | U | 242 | 192 | 0.7 | | |
| Average | | | | 6.01 | 8.27 | 8.36 | 1207 | 1203 | 699 | 256 | 76 | 17 | 151 | 8 | 198 | 234 | 3.6 | 243 | 127 | 1 | | | |
| Median | | | | 5.40 | 8.25 | 8.4 | 961 | 943 | 643 | 178 | 65 | 15 | 121 | 8 | 195 | 228 | 1.0 | 191 | 85 | 1 | | | |
| Standard Deviation | | | | 0.88 | 0.04 | 0.17 | 407 | 421 | 138 | 233 | 21 | 7 | 60 | 2 | 30 | 26 | 5.3 | 100 | 71 | 0 | | | |
| Minimum | | | | 5.33 | 8.24 | 8.20 | 915 | 914 | 566 | 33 | 59 | 12 | 102 | 7 | 173 | 207 | 1.0 | 176 | 70 | 1 | | | |
| Maximum | | | | 7.20 | 8.34 | 8.60 | 1830 | 1871 | 861 | 521 | 107 | 27 | 235 | 11 | 244 | 271 | 13.0 | 416 | 215 | 1 | | | |
| SEP-7 | 08/18/97 | EPRI-9708-169 | SW | 4.97 | 8.25 | 8.40 | 896 | 896 | 594 | 257 | 66 | 15 | 115 | 8 | 175 | 210 | 2.0 | 157 | 75 | 0.66 | | | |
| SEP-7 | 11/10/97 | EPRI-9711-169 | SW | 6.96 | 8.16 | 8.30 | 1924 | 1796 | 1290 | 38 | 100 | 24 | 272 | 12 | 225 | 275 | 1.0 | U | 412 | 249 | 0.75 | | |
| SEP-7 | 02/13/98 | EPRI-9802-165 | SW | 8.49 | 8.50 | 1479 | 249 | A | 959 | 47 | 83 | 18 | 232 | 7.9 | 184 | 204 | 11.0 | 285 | 178 | 0.71 | | | |
| SEP-7 | 05/20/98 | EPRI-9805-183 | SW | 6.3 | 8.79 | 8.20 | 1083 | 963 | 649 | 102 | 70 | 17 | 124 | 7 | 184 | 224 | 1.0 | U | 224 | 103 | 0.66 | | |
| SEP-7 | 8/11/98 | EPRI-9808-165 | SW | 6.47 | 8.45 | 8.5 | 976 | 974 | 622 | 209 | 65 | 14 | 117 | 6.0 | 183 | 214 | 5.0 | J4 | 195 | 85 | 0.64 | | |
| SEP-7 | 11/18/98 | EPRI-9811-165 | SW | 8.40 | 8.35 | 8.4 | 1899 | 1892 | 1269 | 12 | 100 | 24 | 292 | 12 | 215 | 253 | 5.0 | 441 | 249 | 0.74 | | | |
| SEP-7 | 02/19/99 | EPRI-9902-160 | SW | 16.5 | 8.41 | 8.3 | 2100 | 1775 | 1351 | 17 | 112 | 27 | 315 | 14 | 237 | 289 | 1.0 | U | 325 | 241 | 0.83 | | |
| SEP-7 | 05/12/99 | EPRI-9905-161 | SW | 5.2 | 7.54 | 8.3 | 1158 | 13 | 1380 | 698 | 93 | 77 | 20 | 140 | 10 | 230 | 281 | J3 | 1.0 | 1112 | 207 | 0.67 | |
| SEP-7 | 08/20/99 | EPRI-9908-161 | SW | 5.8 | 8.14 | 8.4 | 894 | 896 | 603 | 565 | 60 | 12 | 101 | 7.3 | 187 | 217 | 6.0 | J4 | 166 | 64 | 0.64 | | |
| SEP-7 | 11/01/99 | EPRI-9911-183 | SW | 7 | 8.15 | 8.3 | 1830 | 1836 | 1133 | 31 | 92 | 23 | 193 | 9.6 | 224 | 273 | 1.0 | U | 379 | 224 | 0.7 | | |
| SEP-7 | 01/31/00 | EPRI-0002-188 | SW | 7.7 | 8.36 | 8.3 | 1402 | 1366 | 849 | 67 | 4 | 88 | 19 | 190 | 7.6 | 196 | 239 | 1.0 | U | 248 | 185 | 0.73 | |
| Average | | | | 7.53 | 8.29 | 8.35 | 1419 | 1275 | 911 | 131 | 83 | 19 | 190 | 9 | 205 | 244 | 3.2 | 276 | 202 | 1 | | | |
| Median | | | | 6.72 | 8.35 | 8.3 | 1402 | 1366 | 849 | 67 | 83 | 19 | 190 | 8 | 196 | 239 | 1.0 | U | 248 | 185 | 1 | | |
| Standard Deviation | | | | 3.32 | 0.31 | 0.09 | 450 | 526 | 302 | 164 | 17 | 5 | 78 | 3 | 31 | 32 | 3.3 | 100 | 141 | 0 | | | |
| Minimum | | | | 4.97 | 7.54 | 8.20 | 894 | 249 | 594 | 12 | 60 | 12 | 101 | 6 | 175 | 204 | 1.0 | 157 | 64 | 1 | | | |
| Maximum | | | | 16.50 | 8.79 | 8.50 | 2100 | 1892 | 1351 | 565 | 112 | 27 | 315 | 14 | 255 | 289 | 11.0 | 441 | 567 | 1 | | | |
| SEP-8 | 08/18/97 | EPRI-9708-170 | SW | 5.26 | 7.49 | 8.30 | 958 | 969 | 677 | 11 | 65 | 15 | 121 | 8.2 | 178 | 217 | 1.0 | U | 190 | 85 | 0.67 | | |
| SEP-9 | 08/15/97 | EPRI-9708-171 | SW | 6.14 | 8.23 | 8.30 | 1133 | 1108 | 730 | 223 | 64 | 15 | 155 | 9.5 | 174 | 212 | 1.0 | U | 203 | 116 | 0.68 | | |
| SEP-9 | 11/10/97 | EPRI-9711-171 | SW | 6.6 | 8.14 | 8.30 | 1886 | 1771 | 1225 | 16 | 99 | 23 | 285 | 10 | 268 | 254 | 1.0 | U | 401 | 248 | 0.77 | | |
| SEP-9 | 02/13/98 | EPRI-9802-166 | SW | 7.38 | 8.48 | 8.20 | 1550 | 1273 | 1028 | A | 1030 | 44 | 71 | 15 | 272 | 8.9 | 164 | 200 | 1.0 | U | 286 | 206 | 0.7 |
| SEP-9 | 05/19/98 | EPRI-9805-166 | SW | 5.61 | 8.26 | 8.5 | 1142 | 1166 | 712 | 169 | 67 | 15 | 154 | 10 | 185 | 214 | 6.0 | 262 | 150 | 0.7 | | | |
| SEP-9 | 8/18/98 | EPRI-9811-166 | SW | 7.80 | 8.35 | 8.3 | 1930 | 1298 | 75 | 85 | 19 | 310 | 12 | 184 | 224 | 1.0 | U | 442 | 272 | 0.77 | | | |
| SEP-9 | 11/18/98 | EPRI-9811-161 | SW | 16.9 | 8.31 | 8.1 | 2050 | 1763 | 1342 | 14 | 86 | 20 | 323 | 14 | 185 | 226 | 1.0 | U | 331 | 261 | 0.80 | | |
| SEP-9 | 02/19/99 | EPRI-9902-161 | SW | 3.7 | 7.63 | 8.4 | 1156 | 13 | 1267 | 639 | 70 | 19 | 140 | 6.6 | 194 | 227 | J3 | 5.0 | 97 | 0.72 | | | |
| SEP-9 | 05/12/99 | EPRI-9905-162 | SW | 5.6 | 7.92 | 8.3 | 1303 | 1301 | 836 | 485 | 63 | 13 | 176 | 8.5 | 177 | 216 | 1.0 | J4 | 268 | 150 | 0.74 | | |
| SEP-9 | 08/20/99 | EPRI-9908-162 | SW | 7.6 | 7.8 | 8.3 | 1804 | 1846 | 1145 | 24 | 96 | 24 | 204 | 10 | 231 | 282 | 1.0 | U | 381 | 211 | 0.71 | | |
| SEP-9 | 11/01/99 | EPRI-9911-190 | SW | 6.1 | 8.03 | 8.3 | 2120 | 2050 | 1341 | 36 | 100 | 23 | 285 | 12 | 202 | 246 | 1.0 | J4 | 341 | 185 | 0.81 | | |
| Average | | | | 6.74 | 8.12 | 8.32 | 1579 | 1363 | 1009 | 166 | 80 | 18 | 225 | 10 | 190 | 227 | 2.5 | 307 | 183 | 1 | | | |
| Median | | | | 6.37 | 8.18 | 8.3 | 1550 | 1284 | 1030 | 44 | 74 | 19 | 204 | 10 | 185 | 224 | 1.0 | U | 286 | 185 | 1 | | |
| Standard Deviation | | | | 1.89 | 0.25 | 0.12 | 392 | 517 | 274 | 143 | 14 | 4 | 70 | 2 | 25 | 25 | 2.6 | 78 | 62 | 0 | | | |
| Minimum | | | | 3.70 | 7.65 | 8.10 | 1133 | 278 | 639 | 8 | 63 | 13 | 140 | 7 | 164 | 195 | 1.0 | U | 203 | 97 | 1 | | |
| Maximum | | | | 10.50 | 8.49 | 8.50 | 2120 | 2050 | 1342 | 485 | 100 | 24 | 323 | 14 | 244 | 282 | 8.0 | 442 | 272 | 1 | | | |

APPENDIX G

SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA

APPENDIX G

SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA

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SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA

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| TABLE G-1 | SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA, AUGUST 1998 THROUGH MAY 1999 |
| TABLE G-2 | SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA, AUGUST 1999 THROUGH FEBRUARY 2000 |

TABLE G-1

SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA

AUGUST 1998 THROUGH MAY 1999

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | | |
|---|---|----------------|---------------|----------------|----------------|
| Monitor Well Designation: EP-4 | Top of Casing Elevation (feet above MSL) | | | | 3715.96 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 5.21 | 4.97 | 6.24 | 10.48 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3710.75 | 3710.99 | 3712.03 | 3707.79 | |
| Monitor Well Designation: EP-5 | Top of Casing Elevation (feet above MSL) | | | | 3716.17 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 5.78 | 5.60 | 5.10 | 6.28 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3710.39 | 3710.57 | 3711.07 | 3709.89 | |
| Monitor Well Designation: EP-6 | Top of Casing Elevation (feet above MSL) | | | | 3716.22 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 6.54 | 6.68 | 5.98 | 7.28 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3709.68 | 3709.54 | 3710.24 | 3708.94 | |
| Monitor Well Designation: EP-7 | Top of Casing Elevation (feet above MSL) | | | | 3722.10 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 5.87 | 6.00 | 5.18 | 8.72 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.23 | 3716.10 | 3716.92 | 3713.38 | |
| Monitor Well Designation: EP-12 | Top of Casing Elevation (feet above MSL) | | | | 3773.23 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 60.88 | 61.30 | 60.35 | 59.39 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | SHEEN | |
| Adjusted Groundwater Elevation (ft above MSL) | 3712.35 | 3711.93 | 3712.88 | 3713.84 | |
| Monitor Well Designation: EP-13 | Top of Casing Elevation (feet above MSL) | | | | 3776.22 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 59.45 | 60.46 | 60.15 | 60.37 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.77 | 3715.76 | 3716.07 | 3715.85 | |
| Monitor Well Designation: EP-14 | Top of Casing Elevation (feet above MSL) | | | | 3774.98 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 59.15 | 59.81 | 59.23 | 58.79 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.83 | 3715.17 | 3715.75 | 3716.19 | |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | |
|--|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-15 | Top of Casing Elevation (feet above MSL) 3773.19 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 58.56 | 59.20 | 59.04 | 58.42 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.63 | 3713.99 | 3714.15 | 3714.77 |
| Monitor Well Designation: EP-20 | Top of Casing Elevation (feet above MSL) 3724.55 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 13.22 | 14.54 | 13.25 | 14.01 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3711.33 | 3710.01 | 3711.30 | 3710.54 |
| Monitor Well Designation: EP-21 | Top of Casing Elevation (feet above MSL) 3780.74 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 29.65 | 30.42 | 28.68 | BLOCKED |
| Depth to Product (feet) | 29.22 | 29.68 | 28.03 | 0.00 |
| Product Thickness (feet) | 0.43 | 0.74 | 0.65 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3751.43 | 3750.91 | 3752.58 | 0.00 |
| Monitor Well Designation: EP-22 | Top of Casing Elevation (feet above MSL) 3776.23 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 38.77 | 38.92 | ABANDONED | ABANDONED |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3737.46 | 3737.31 | 0.00 | 0.00 |
| Monitor Well Designation: EP-23 | Top of Casing Elevation (feet above MSL) 3775.32 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 27.38 | 26.40 | 25.60 | 23.82 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | SHEEN | SHEEN |
| Adjusted Groundwater Elevation (ft above MSL) | 3747.94 | 3748.92 | 3749.72 | 3751.50 |
| Monitor Well Designation: EP-24 | Top of Casing Elevation (feet above MSL) 3774.87 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 35.73 | 36.30 | 34.09 | 34.04 |
| Depth to Product (feet) | 35.55 | 36.29 | 34.07 | 0.00 |
| Product Thickness (feet) | 0.18 | 0.01 | 0.02 | SHEEN |
| Adjusted Groundwater Elevation (ft above MSL) | 3739.28 | 3738.58 | 3740.80 | 3740.83 |
| Monitor Well Designation: EP-25 | Top of Casing Elevation (feet above MSL) 3786.72 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 48.87 | 48.88 | BLOCKED | 46.79 |
| Depth to Product (feet) | 47.30 | 47.15 | 0.00 | 44.32 |
| Product Thickness (feet) | 1.57 | 1.73 | 0.00 | 2.47 |
| Adjusted Groundwater Elevation (ft above MSL) | 3739.11 | 3739.22 | 0.00 | 3741.91 |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | |
|--|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-26 | Top of Casing Elevation (feet above MSL) 3770.64 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 49.50 | 48.05 | 48.13 | 57.15 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3721.14 | 3722.59 | 3722.51 | 3713.49 |
| Monitor Well Designation: EP-29 | Top of Casing Elevation (feet above MSL) 3727.25 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 13.35 | 15.21 | 13.70 | 13.74 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.90 | 3712.04 | 3713.55 | 3713.51 |
| Monitor Well Designation: EP-35 | Top of Casing Elevation (feet above MSL) 3725.74 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 17.48 | 15.35 | 13.90 | 13.90 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3708.26 | 3710.39 | 3711.84 | 3711.84 |
| Monitor Well Designation: EP-43 | Top of Casing Elevation (feet above MSL) 3772.17 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 57.66 | 59.17 | 57.85 | 56.31 |
| Depth to Product (feet) | 0.00 | 58.35 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.82 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.51 | 3713.66 | 3714.32 | 3715.86 |
| Monitor Well Designation: EP-49 | Top of Casing Elevation (feet above MSL) 3785.59 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 66.63 | 67.25 | 66.37 | 66.69 |
| Depth to Product (feet) | 63.51 | 65.35 | 65.15 | 0.00 |
| Product Thickness (feet) | 3.12 | 1.90 | 1.22 | SHEEN |
| Adjusted Groundwater Elevation (ft above MSL) | 3721.46 | 3719.86 | 3720.20 | 3718.90 |
| Monitor Well Designation: EP-51 | Top of Casing Elevation (feet above MSL) 3774.66 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 49.10 | 49.05 | 48.90 | 48.86 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 1.90 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3725.56 | 3725.61 | 3725.76 | 3725.80 |
| Monitor Well Designation: EP-52 | Top of Casing Elevation (feet above MSL) 3784.07 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 51.15 | 52.04 | 49.52 | 50.24 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3732.92 | 3732.03 | 3737.86 | 3737.14 |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | |
|--|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-53 | Top of Casing Elevation (feet above MSL) 3805.64 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 67.70 | 67.10 | 67.10 | 67.73 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3737.94 | 3738.54 | 3738.54 | 3737.91 |
| Monitor Well Designation: EP-54 | Top of Casing Elevation (feet above MSL) 3787.37 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 69.82 | 70.18 | 70.40 | 70.89 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3717.55 | 3717.19 | 3716.97 | 3716.48 |
| Monitor Well Designation: EP-55 | Top of Casing Elevation (feet above MSL) 3788.23 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 55.50 | 56.20 | 55.00 | 55.51 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3732.73 | 3732.03 | 3733.23 | 3732.72 |
| Monitor Well Designation: EP-56 | Top of Casing Elevation (feet above MSL) 3772.09 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 49.38 | 49.99 | 50.13 | 50.56 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3722.71 | 3722.10 | 3721.96 | 3721.53 |
| Monitor Well Designation: EP-57 | Top of Casing Elevation (feet above MSL) 3723.66 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 8.97 | 8.72 | 9.12 | 8.76 |
| Depth to Product (feet) | 8.61 | 8.50 | 9.04 | 8.75 |
| Product Thickness (feet) | 0.36 | 0.22 | 0.08 | 0.01 |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.98 | 3715.12 | 3714.60 | 3714.91 |
| Monitor Well Designation: EP-58 | Top of Casing Elevation (feet above MSL) 3726.67 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 13.42 | 12.38 | 14.25 | 12.41 |
| Depth to Product (feet) | 11.37 | 11.51 | 11.84 | 11.99 |
| Product Thickness (feet) | 2.05 | 0.87 | 2.41 | 0.42 |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.89 | 3714.99 | 3714.35 | 3714.60 |
| Monitor Well Designation: EP-59 | Top of Casing Elevation (feet above MSL) 3728.37 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 13.02 | 12.80 | 13.12 | 13.26 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.35 | 3715.57 | 3715.25 | 3715.11 |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | | |
|---|---|----------------|---------------|----------------|----------------|
| Monitor Well Designation: EP-60 | Top of Casing Elevation (feet above MSL) | | | | 3722.52 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 9.04 | 9.36 | 9.10 | 9.38 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.48 | 3713.16 | 3713.42 | 3713.14 | |
| Monitor Well Designation: EP-61 | Top of Casing Elevation (feet above MSL) | | | | 3722.95 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 10.21 | 10.70 | 10.75 | 10.51 | |
| Depth to Product (feet) | 9.47 | 9.73 | 9.83 | 9.69 | |
| Product Thickness (feet) | 0.74 | 0.97 | 0.92 | 0.82 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.33 | 3713.03 | 3712.94 | 3713.10 | |
| Monitor Well Designation: EP-62 | Top of Casing Elevation (feet above MSL) | | | | 3720.64 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 7.31 | 7.71 | 7.30 | 7.45 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.33 | 3712.93 | 3713.34 | 3713.19 | |
| Monitor Well Designation: EP-63 | Top of Casing Elevation (feet above MSL) | | | | 3719.52 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 6.67 | 7.10 | 6.58 | 6.83 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3712.85 | 3712.42 | 3712.94 | 3712.69 | |
| Monitor Well Designation: EP-64 | Top of Casing Elevation (feet above MSL) | | | | 3724.00 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 10.20 | 10.66 | 10.34 | 10.35 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.80 | 3713.34 | 3713.66 | 3713.65 | |
| Monitor Well Designation: EP-65 | Top of Casing Elevation (feet above MSL) | | | | 3721.39 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 8.32 | 8.59 | 8.67 | 8.54 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | SHEEN | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.07 | 3712.80 | 3712.72 | 3712.85 | |
| Monitor Well Designation: EP-66 | Top of Casing Elevation (feet above MSL) | | | | 3722.88 |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter | |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 | |
| Depth to Water (feet) | 10.09 | 10.44 | 9.99 | 9.42 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3712.79 | 3712.44 | 3712.89 | 3713.46 | |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | |
|--|---|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-67 | Top of Casing Elevation (feet above MSL) 3761.07 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 41.67 | 40.97 | 49.40 | 41.74 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3719.40 | 3720.10 | 3711.67 | 3719.33 |
| Monitor Well Designation: EP-68 | Top of Casing Elevation (feet above MSL) 3783.76 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 63.27 | 63.19 | 63.26 | 63.55 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3720.49 | 3720.57 | 3720.50 | 3720.21 |
| Monitor Well Designation: EP-70 | Top of Casing Elevation (feet above MSL) 3777.67 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 61.78 | 61.61 | 61.50 | 62.12 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.89 | 3716.06 | 3716.17 | 3715.55 |
| Monitor Well Designation: EP-71 | Top of Casing Elevation (feet above MSL) 3765.19 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 49.95 | 49.55 | 49.95 | NO ACCESS |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.24 | 3715.64 | 3715.24 | 0.00 |
| Monitor Well Designation: EP-72 | Top of Casing Elevation (feet above MSL) 3778.50 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 61.56 | 61.52 | ABANDONED | ABANDONED |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.94 | 3716.98 | 0.00 | 0.00 |
| Monitor Well Designation: EP-73 | Top of Casing Elevation (feet above MSL) 3789.45 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 71.32 | 68.38 | 71.19 | 71.49 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3718.13 | 3721.07 | 3718.26 | 3717.96 |
| Monitor Well Designation: EP-74 | Top of Casing Elevation (feet above MSL) 3775.89 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | ABANDONED | ABANDONED | ABANDONED | ABANDONED |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 0.00 | 0.00 | 0.00 | 0.00 |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | |
|---|--|----------------|---------------|----------------|
| Monitor Well Designation: EP-75 | Top of Casing Elevation (feet above MSL) 3800.85 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 57.38 | 55.92 | 59.24 | 55.49 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3743.47 | 3744.93 | 3741.61 | 3745.36 |
| Monitor Well Designation: EP-76 | Top of Casing Elevation (feet above MSL) 3798.56 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 52.03 | 48.38 | 53.67 | 60.41 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3746.53 | 3750.18 | 3744.89 | 3738.15 |
| Monitor Well Designation: EP-77 | Top of Casing Elevation (feet above MSL) 3776.88 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 42.67 | 43.36 | 43.75 | 44.35 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3734.31 | 3733.52 | 3733.13 | 3732.53 |
| Monitor Well Designation: EP-78 | Top of Casing Elevation (feet above MSL) 3773.46 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 33.59 | 28.09 | 32.44 | 33.69 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3739.87 | 3745.37 | 3741.02 | 3739.77 |
| Monitor Well Designation: EP-79 | Top of Casing Elevation (feet above MSL) 3793.94 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 47.89 | 45.74 | 46.50 | 47.79 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3746.05 | 3748.20 | 3747.44 | 3746.15 |
| Monitor Well Designation: EP-80 | Top of Casing Elevation (feet above MSL) 3726.59 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 10.78 | 11.44 | 12.10 | 11.22 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.81 | 3715.15 | 3714.49 | 3715.37 |
| Monitor Well Designation: EP-81 | Top of Casing Elevation (feet above MSL) 3734.09 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 18.19 | 17.79 | 18.79 | 18.53 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.90 | 3716.30 | 3715.30 | 3715.56 |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | |
|---|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-82 | Top of Casing Elevation (feet above MSL) 3773.65 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 18.24 | 15.35 | 16.21 | 17.68 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3755.41 | 3758.30 | 3757.44 | 3755.97 |
| Monitor Well Designation: EP-83 | Top of Casing Elevation (feet above MSL) 3803.73 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 29.15 | 27.45 | 27.56 | 28.52 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3774.58 | 3776.28 | 3776.17 | 3775.21 |
| Monitor Well Designation: EP-84 | Top of Casing Elevation (feet above MSL) 3797.52 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 9.25 | 7.65 | 7.52 | 8.80 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3788.27 | 3789.87 | 3790.00 | 3788.72 |
| Monitor Well Designation: EP-85 | Top of Casing Elevation (feet above MSL) 3741.91 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 16.66 | 10.71 | 15.21 | 16.39 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3725.25 | 3731.20 | 3726.70 | 3725.52 |
| Monitor Well Designation: EP-86 | Top of Casing Elevation (feet above MSL) 3819.99 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 49.61 | 49.73 | 49.11 | 49.24 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3770.38 | 3770.26 | 3770.88 | 3770.75 |
| Monitor Well Designation: EP-87 | Top of Casing Elevation (feet above MSL) 3818.17 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | DRY | DRY | DRY | DRY |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 0.00 | 0.00 | 0.00 | 0.00 |
| Monitor Well Designation: EP-88 | Top of Casing Elevation (feet above MSL) 3776.54 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 30.25 | 28.82 | 29.20 | 30.39 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3746.29 | 3747.72 | 3747.34 | 3746.15 |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | |
|--|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-89 | Top of Casing Elevation (feet above MSL) 3734.73 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 14.93 | 13.46 | 14.20 | 14.87 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3719.80 | 3721.27 | 3720.53 | 3719.86 |
| Monitor Well Designation: EP-90 | Top of Casing Elevation (feet above MSL) 3777.83 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 54.40 | 56.55 | 56.41 | 56.77 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3723.43 | 3721.28 | 3721.42 | 3721.06 |
| Monitor Well Designation: EM-1 | Top of Casing Elevation (feet above MSL) 3784.99 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 70.09 | 67.32 | 65.42 | 65.64 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.90 | 3717.67 | 3719.57 | 3719.35 |
| Monitor Well Designation: EM-2 | Top of Casing Elevation (feet above MSL) 3776.02 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 62.74 | 63.92 | 65.37 | 64.09 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.28 | 3712.10 | 3710.65 | 3711.93 |
| Monitor Well Designation: EM-3 | Top of Casing Elevation (feet above MSL) 3777.85 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | ABANDONED | ABANDONED | ABANDONED | ABANDONED |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3734.04 | 0.00 | 0.00 | 0.00 |
| Monitor Well Designation: EM-4 | Top of Casing Elevation (feet above MSL) 3774.29 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 61.57 | 62.00 | 60.80 | 59.45 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3712.72 | 3712.29 | 3713.49 | 3714.84 |
| Monitor Well Designation: EM-5 | Top of Casing Elevation (feet above MSL) 3776.50 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 14.45 | 14.54 | 14.41 | 14.43 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3762.05 | 3761.96 | 3762.09 | 3762.07 |

TABLE G-1
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1998 THROUGH MAY 1999

| | | | | |
|--|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EM-6 | Top of Casing Elevation (feet above MSL) 3770.64 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 36.60 | 36.71 | 36.98 | 37.72 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3734.04 | 3733.93 | 3733.66 | 3732.92 |
| Monitor Well Designation: EM-7 | Top of Casing Elevation (feet above MSL) 3773.41 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | 8.47 | 8.42 | 8.53 | 9.07 |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 3764.94 | 3764.99 | 3764.88 | 3764.34 |
| Monitor Well Designation: EM-8 | Top of Casing Elevation (feet above MSL) 3769.46 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Depth to Water (feet) | ABANDONED | ABANDONED | ABANDONED | ABANDONED |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | 0.00 |
| Adjusted Groundwater Elevation (ft above MSL) | 0.00 | 0.00 | 0.00 | 0.00 |
| Monitor Well Designation: SEP-4 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Surface Water Elevation (ft above MSL) | 3710.93 | 3707.81 | 3708.64 | 3709.47 |
| Monitor Well Designation: SEP-13 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Surface Water Elevation (ft above MSL) | 3710.97 | 3708.83 | 3709.55 | 3709.43 |
| Monitor Well Designation: SEP-12 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Surface Water Elevation (ft above MSL) | No Access | 3709.78 | 3710.69 | 3711.41 |
| Monitor Well Designation: SEP-11 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Surface Water Elevation (ft above MSL) | 3712.89 | 3711.17 | 3712.34 | 3714.64 |
| Monitor Well Designation: SEP-10 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Surface Water Elevation (ft above MSL) | 3712.48 | 3711.87 | 3712.89 | 3712.38 |
| Monitor Well Designation: SEP- 9 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-98 | Nov-98 | Feb-99 | May-99 |
| Surface Water Elevation (ft above MSL) | 3717.08 | 3715.18 | 3714.58 | 3716.33 |

TABLE G-2

**SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA,
AUGUST 1999 THROUGH FEBRUARY 2000**

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|--|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-4 | Top of Casing Elevation (feet above MSL) 3718.27 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 6.99 | 8.23 | 8.27 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3711.28 | 3710.04 | 3710.00 | |
| Monitor Well Designation: EP-5 | Top of Casing Elevation (feet above MSL) 3716.17 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 5.72 | 7.02 | 7.18 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3710.45 | 3709.15 | 3708.99 | |
| Monitor Well Designation: EP-6 | Top of Casing Elevation (feet above MSL) 3716.22 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 6.53 | 8.04 | 8.26 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3709.69 | 3708.18 | 3707.96 | |
| Monitor Well Designation: EP-7 | Top of Casing Elevation (feet above MSL) 3722.10 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 5.79 | 7.53 | 7.45 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.31 | 3714.57 | 3714.65 | |
| Monitor Well Designation: EP-12 | Top of Casing Elevation (feet above MSL) 3773.23 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 58.12 | 61.12 | 62.37 | |
| Depth to Product (feet) | 0.00 | 0.00 | 62.21 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.16 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.11 | 3712.11 | 3710.99 | |
| Monitor Well Designation: EP-13 | Top of Casing Elevation (feet above MSL) 3776.22 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 59.88 | 60.84 | 61.29 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.34 | 3715.38 | 3714.93 | |
| Monitor Well Designation: EP-14 | Top of Casing Elevation (feet above MSL) 3774.98 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 58.43 | 59.61 | 60.40 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.55 | 3715.37 | 3714.58 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|--|---|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-15 | Top of Casing Elevation (feet above MSL) 3773.19 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 58.24 | 59.33 | 56.74 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.95 | 3713.86 | 3716.45 | |
| Monitor Well Designation: EP-20 | Top of Casing Elevation (feet above MSL) 3724.55 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 13.01 | 14.86 | 15.16 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3711.54 | 3709.69 | 3709.39 | |
| Monitor Well Designation: EP-21 | Top of Casing Elevation (feet above MSL) 3780.74 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 27.67 | 25.11 | 25.28 | |
| Depth to Product (feet) | 27.39 | 24.87 | 25.27 | |
| Product Thickness (feet) | 0.28 | 0.24 | 0.01 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3753.29 | 3755.82 | 3755.47 | |
| Monitor Well Designation: EP-22 | Top of Casing Elevation (feet above MSL) 3776.23 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | ABANDONED | ABANDONED | 52.65 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 0.00 | 0.00 | 3723.58 | |
| Monitor Well Designation: EP-23 | Top of Casing Elevation (feet above MSL) 3775.32 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 22.12 | 20.61 | 21.68 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | SHEEN | |
| Adjusted Groundwater Elevation (ft above MSL) | 3753.20 | 3754.71 | 3753.64 | |
| Monitor Well Designation: EP-24 | Top of Casing Elevation (feet above MSL) 3774.87 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 32.92 | 32.01 | 31.76 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | SHEEN | SHEEN | |
| Adjusted Groundwater Elevation (ft above MSL) | 3741.95 | 3742.86 | 3743.11 | |
| Monitor Well Designation: EP-25 | Top of Casing Elevation (feet above MSL) 3786.72 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 48.35 | 47.48 | 48.11 | |
| Depth to Product (feet) | 46.73 | 46.62 | 47.26 | |
| Product Thickness (feet) | 1.62 | 0.86 | 0.85 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3739.67 | 3739.93 | 3739.29 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|---|---|----------------|---------------|----------------|
| Monitor Well Designation: EP-26 | Top of Casing Elevation (feet above MSL) 3770.64 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 56.50 | 57.97 | 60.86 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.14 | 3712.67 | 3709.78 | |
| Monitor Well Designation: EP-29 | Top of Casing Elevation (feet above MSL) 3727.25 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 13.19 | 14.64 | 14.95 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.06 | 3712.61 | 3712.30 | |
| Monitor Well Designation: EP-35 | Top of Casing Elevation (feet above MSL) 3725.74 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 12.90 | 15.00 | 15.59 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3712.84 | 3710.74 | 3710.15 | |
| Monitor Well Designation: EP-43 | Top of Casing Elevation (feet above MSL) 3772.17 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 56.54 | 58.67 | 59.67 | |
| Depth to Product (feet) | 0.00 | 0.00 | 59.65 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.02 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.63 | 3713.50 | 3712.52 | |
| Monitor Well Designation: EP-49 | Top of Casing Elevation (feet above MSL) 3785.59 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 0.00 | 65.88 | 69.33 | |
| Depth to Product (feet) | 0.00 | 65.78 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.10 | SHEEN | |
| Adjusted Groundwater Elevation (ft above MSL) | 3785.59 | 3719.79 | 3716.26 | |
| Monitor Well Designation: EP-51 | Top of Casing Elevation (feet above MSL) 3774.66 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 48.15 | 43.43 | 48.56 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.10 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3726.51 | 3731.23 | 3726.10 | |
| Monitor Well Designation: EP-52 | Top of Casing Elevation (feet above MSL) 3784.07 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 51.25 | 51.73 | 52.13 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3732.82 | 3732.34 | 3731.94 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|---|--|----------------|---------------|----------------|
| Monitor Well Designation: EP-53 | Top of Casing Elevation (feet above MSL) 3805.64 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 67.74 | 67.46 | 67.83 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3737.90 | 3738.18 | 3737.81 | |
| Monitor Well Designation: EP-54 | Top of Casing Elevation (feet above MSL) 3787.37 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 70.24 | 71.02 | 71.63 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3717.13 | 3716.35 | 3715.74 | |
| Monitor Well Designation: EP-55 | Top of Casing Elevation (feet above MSL) 3788.23 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 56.02 | 56.14 | 56.87 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3732.21 | 3732.09 | 3731.36 | |
| Monitor Well Designation: EP-56 | Top of Casing Elevation (feet above MSL) 3772.09 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 49.83 | 50.47 | 49.68 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3722.26 | 3721.62 | 3722.41 | |
| Monitor Well Designation: EP-57 | Top of Casing Elevation (feet above MSL) 3723.66 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 8.06 | 9.41 | 10.02 | |
| Depth to Product (feet) | 7.90 | 9.20 | 9.83 | |
| Product Thickness (feet) | 0.16 | 0.21 | 0.19 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.73 | 3714.42 | 3713.79 | |
| Monitor Well Designation: EP-58 | Top of Casing Elevation (feet above MSL) 3726.67 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 11.44 | 12.77 | 13.15 | |
| Depth to Product (feet) | 11.20 | 12.54 | 12.98 | |
| Product Thickness (feet) | 0.24 | 0.23 | 0.17 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.42 | 3714.08 | 3713.66 | |
| Monitor Well Designation: EP-59 | Top of Casing Elevation (feet above MSL) 3728.37 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 12.72 | 13.78 | 14.27 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.65 | 3714.59 | 3714.10 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|---|---|----------------|---------------|----------------|
| Monitor Well Designation: EP-60 | Top of Casing Elevation (feet above MSL) 3722.52 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 9.09 | 10.20 | 10.47 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.43 | 3712.32 | 3712.05 | |
| Monitor Well Designation: EP-61 | Top of Casing Elevation (feet above MSL) 3722.95 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 9.27 | 11.14 | 11.26 | |
| Depth to Product (feet) | 9.09 | 10.67 | 10.93 | |
| Product Thickness (feet) | 0.18 | 0.47 | 0.33 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.82 | 3712.19 | 3711.95 | |
| Monitor Well Designation: EP-62 | Top of Casing Elevation (feet above MSL) 3720.64 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 7.04 | 8.52 | 8.57 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.60 | 3712.12 | 3712.07 | |
| Monitor Well Designation: EP-63 | Top of Casing Elevation (feet above MSL) 3719.52 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 6.40 | 7.87 | 7.87 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.12 | 3711.65 | 3711.65 | |
| Monitor Well Designation: EP-64 | Top of Casing Elevation (feet above MSL) 3724.00 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 7.89 | 11.26 | 11.48 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.11 | 3712.74 | 3712.52 | |
| Monitor Well Designation: EP-65 | Top of Casing Elevation (feet above MSL) 3721.39 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 7.80 | 9.53 | 9.72 | |
| Depth to Product (feet) | SHEEN | 0.00 | 9.70 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.02 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3713.59 | 3711.86 | 3711.69 | |
| Monitor Well Designation: EP-66 | Top of Casing Elevation (feet above MSL) 3722.88 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 9.96 | 11.30 | 11.34 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3712.92 | 3711.58 | 3711.54 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|---|--|----------------|---------------|----------------|
| Monitor Well Designation: EP-67 | Top of Casing Elevation (feet above MSL) 3761.07 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 41.29 | 41.43 | 41.85 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3719.78 | 3719.64 | 3719.22 | |
| Monitor Well Designation: EP-68 | Top of Casing Elevation (feet above MSL) 3783.76 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 63.42 | 63.50 | 63.64 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3720.34 | 3720.26 | 3720.12 | |
| Monitor Well Designation: EP-70 | Top of Casing Elevation (feet above MSL) 3777.67 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 61.59 | 62.15 | 62.49 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.08 | 3715.52 | 3715.18 | |
| Monitor Well Designation: EP-71 | Top of Casing Elevation (feet above MSL) 3765.19 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 49.57 | 50.20 | 50.51 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3715.62 | 3714.99 | 3714.68 | |
| Monitor Well Designation: EP-72 | Top of Casing Elevation (feet above MSL) 3778.50 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | ABANDONED | ABANDONED | 62.83 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 0.00 | 0.00 | 3715.67 | |
| Monitor Well Designation: EP-73 | Top of Casing Elevation (feet above MSL) 3789.45 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 70.00 | 71.20 | 72.33 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3719.45 | 3718.25 | 3717.12 | |
| Monitor Well Designation: EP-74 | Top of Casing Elevation (feet above MSL) 3775.89 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | ABANDONED | ABANDONED | ABANDONED | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 0.00 | 0.00 | 0.00 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|---|---|----------------|---------------|----------------|
| Monitor Well Designation: EP-75 | Top of Casing Elevation (feet above MSL) 3814.50 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 70.09 | BLOCKED | 69.40 | |
| Depth to Product (feet) | -0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3744.41 | 0.00 | 3745.10 | |
| Monitor Well Designation: EP-76 | Top of Casing Elevation (feet above MSL) 3817.64 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | BLOCKED | BLOCKED | 68.95 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 0.00 | 0.00 | 3748.69 | |
| Monitor Well Designation: EP-77 | Top of Casing Elevation (feet above MSL) 3776.88 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 43.62 | 44.15 | 42.34 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3733.26 | 3732.73 | 3734.54 | |
| Monitor Well Designation: EP-78 | Top of Casing Elevation (feet above MSL) 3773.46 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 29.24 | 31.55 | 32.88 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3744.22 | 3741.91 | 3740.58 | |
| Monitor Well Designation: EP-79 | Top of Casing Elevation (feet above MSL) 3793.94 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 46.99 | 45.81 | 47.35 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3746.95 | 3748.13 | 3746.59 | |
| Monitor Well Designation: EP-80 | Top of Casing Elevation (feet above MSL) 3726.59 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 10.37 | 11.42 | 11.84 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.22 | 3715.17 | 3714.75 | |
| Monitor Well Designation: EP-81 | Top of Casing Elevation (feet above MSL) 3734.09 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 17.26 | 18.71 | 19.30 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.83 | 3715.38 | 3714.79 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|--|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-82 | Top of Casing Elevation (feet above MSL) 3773.65 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 15.74 | 17.02 | 15.99 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3757.91 | 3756.63 | 3757.66 | |
| Monitor Well Designation: EP-83 | Top of Casing Elevation (feet above MSL) 3803.73 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 27.07 | 28.64 | 27.98 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3776.66 | 3775.09 | 3775.75 | |
| Monitor Well Designation: EP-84 | Top of Casing Elevation (feet above MSL) 3797.52 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 7.19 | 8.19 | 7.62 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3790.33 | 3789.33 | 3789.90 | |
| Monitor Well Designation: EP-85 | Top of Casing Elevation (feet above MSL) 3741.91 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 9.92 | 14.81 | 16.60 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3731.99 | 3727.10 | 3725.31 | |
| Monitor Well Designation: EP-86 | Top of Casing Elevation (feet above MSL) 3819.99 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 49.91 | 50.06 | 49.92 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3770.08 | 3769.93 | 3770.07 | |
| Monitor Well Designation: EP-87 | Top of Casing Elevation (feet above MSL) 3818.17 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 10.99 | DRY | DRY | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3807.18 | 0.00 | 0.00 | |
| Monitor Well Designation: EP-88 | Top of Casing Elevation (feet above MSL) 3776.54 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 29.43 | 29.98 | 20.13 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3747.11 | 3746.56 | 3756.41 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|--|---|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EP-89 | Top of Casing Elevation (feet above MSL) 3734.73 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 14.40 | 15.33 | 14.70 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3720.33 | 3719.40 | 3720.03 | |
| Monitor Well Designation: EP-90 | Top of Casing Elevation (feet above MSL) 3777.83 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 56.40 | 57.22 | 57.05 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3721.43 | 3720.61 | 3720.78 | |
| Monitor Well Designation: EM-1 | Top of Casing Elevation (feet above MSL) 3784.99 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 65.19 | 66.76 | 47.60 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3719.80 | 3718.23 | 3808.39 | |
| Monitor Well Designation: EM-2 | Top of Casing Elevation (feet above MSL) 3776.02 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 61.79 | 64.83 | 50.39 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3714.23 | 3711.19 | 3780.61 | |
| Monitor Well Designation: EM-3 | Top of Casing Elevation (feet above MSL) 3777.85 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | ABANDONED | ABANDONED | 22.10 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3733.72 | 0.00 | 3780.11 | |
| Monitor Well Designation: EM-4 | Top of Casing Elevation (feet above MSL) 3774.29 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 58.27 | 60.98 | 58.44 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3716.02 | 3713.31 | 3814.82 | |
| Monitor Well Designation: EM-5 | Top of Casing Elevation (feet above MSL) 3776.50 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 14.35 | 14.34 | 14.28 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3762.15 | 3762.16 | 3762.22 | |

TABLE G-2
SUMMARY OF GROUNDWATER LEVEL MEASUREMENT DATA
AUGUST 1999 THROUGH FEBRUARY 2000

| | | | | |
|--|--|-----------------------|----------------------|-----------------------|
| Monitor Well Designation: EM-6 | Top of Casing Elevation (feet above MSL) 3770.64 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 36.92 | 37.50 | 36.01 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3733.72 | 3733.14 | 3734.63 | |
| Monitor Well Designation: EM-7 | Top of Casing Elevation (feet above MSL) 3773.41 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | 8.38 | 9.59 | 74.00 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 3765.03 | 3763.82 | 3727.51 | |
| Monitor Well Designation: EM-8 | Top of Casing Elevation (feet above MSL) 3769.46 | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Depth to Water (feet) | ABANDONED | ABANDONED | 40.36 | |
| Depth to Product (feet) | 0.00 | 0.00 | 0.00 | |
| Product Thickness (feet) | 0.00 | 0.00 | 0.00 | |
| Adjusted Groundwater Elevation (ft above MSL) | 0.00 | 0.00 | 3736.63 | |
| Monitor Well Designation: SEP-4 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Surface Water Elevation (ft above MSL) | 3710.18 | 3707.50 | 3715.11 | |
| Monitor Well Designation: SEP-13 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Surface Water Elevation (ft above MSL) | 3711.32 | 3708.51 | 3717.09 | |
| Monitor Well Designation: SEP-12 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Surface Water Elevation (ft above MSL) | 3711.48 | 3709.05 | 3717.61 | |
| Monitor Well Designation: SEP-11 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Surface Water Elevation (ft above MSL) | 3713.18 | 3712.64 | 3713.12 | |
| Monitor Well Designation: SEP-10 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Surface Water Elevation (ft above MSL) | 3714.94 | 0.00 | 3714.86 | |
| Monitor Well Designation: SEP- 9 | | | | |
| Sample Event | First Quarter | Second Quarter | Third Quarter | Fourth Quarter |
| Measurement Date | Aug-99 | Nov-99 | Feb-00 | May-00 |
| Surface Water Elevation (ft above MSL) | 3717.23 | 3715.93 | 3720.02 | |

Note: Fourth Quarter level measurement data not part of RI phase II period of record.

APPENDIX H

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

AUGUST 1998 TO FEBRUARY 2000

APPENDIX H

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

AUGUST 1998 TO FEBRUARY 2000

APPENDIX H

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

AUGUST 1998 TO FEBRUARY 2000

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TABLE H-1

**ANALYTICAL RESULTS FOR DISSOVED METALS,
GROUNDWATER SAMPLES, EM WELLS**

Table H-1. Summary of Groundwater Analytical Results, August 1997 through August 1999
EM Dissolved Metals

| Site | Date | Samp # | Type | (O) fild | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | | | | | | | |
|--------------------|----------|---------------|------|----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
| EM-1 | 08/13/97 | EPRI-9708-155 | GW | 4.05 | 7.52 | 5200 | 5210 | 0.011 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.017 | 0.029 | | | |
| EM-1 | 11/17/97 | EPRI-9711-155 | GW | 4.96 | 7.20 | 8.00 | 4020 | 6250 | 0.007 | 0.005 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | 0.02 | U | | |
| EM-1 | 02/19/98 | EPRI-9802-155 | GW | 1.64 | 7.39 | 7.50 | 5480 | 6410 | 0.056 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | | |
| EM-1 | 05/18/98 | EPRI-9805-155 | GW | 3.15 | 7.43 | 7.60 | 5550 | 5480 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | |
| EM-1 | 8/20/98 | EPRI-9808-155 | GW | 1.57 | 7.38 | 7.8 | 5560 | 5600 | 0.005 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.005 | U | |
| EM-1 | 11/18/98 | EPRI-9811-155 | GW | 2.20 | 7.06 | 7.6 | 5580 | 5540 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.018 | 0.020 | | |
| EM-1 | 02/24/99 | EPRI-9902-167 | GW | 2.20 | 7.46 | 7.6 | 5600 | 6860 | 0.005 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.15 | U | 0.003 | U | 0.005 | U | |
| EM-1 | 05/12/99 | EPRI-9905-168 | GW | 2.30 | 6.94 | 7.9 | 5670 | 13 | 5740 | 0.005 | U | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.008 | 0.029 |
| EM-1 | 08/11/99 | EPRI-9908-168 | GW | 1.5 | 7.38 | 7.8 | 5610 | 5500 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.27 | U | 0.003 | U | 0.005 | U | |
| Average | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | 2.62 | 7.31 | 7.73 | 5363 | 5843 | 0.012 | 0.005 | | 0.009 | 0.025 | | 0.124 | 0.003 | 0.008 | | 0.025 | | | |
| Standard Deviation | | | | | 2.20 | 7.38 | 7.8 | 5560 | 5600 | 0.005 | 0.005 | | 0.010 | 0.025 | | 0.100 | 0.003 | 0.005 | | 0.020 | | | |
| Minimum | | | | | 1.20 | 0.20 | 0.17 | 522 | 540 | 0.017 | 0.000 | | 0.002 | 0.000 | | 0.057 | 0.000 | 0.005 | | 0.006 | | | |
| Maximum | | | | | 1.50 | 6.94 | 7.50 | 4020 | 5210 | 0.005 | 0.005 | | 0.005 | 0.025 | | 0.100 | 0.003 | 0.005 | | 0.020 | | | |
| EM-2 | 08/11/97 | PR1-9708-156A | GW | 6.28 | 7.08 | | | 4630 | | | | | | | | | | | | | | | |
| EM-2 | 08/26/97 | EPRI-9708-156 | GW | | 7.40 | 7.90 | 4550 | 871 | 0.84 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.16 | 0.025 | | |
| EM-2 | 11/17/97 | EPRI-9711-156 | GW | 1.41 | 7.00 | 7.70 | 3960 | 5150 | 0.57 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.11 | 0.023 | | |
| EM-2 | 02/17/98 | EPRI-9802-156 | GW | 1.26 | 6.90 | 7.70 | 4150 | 5450 | 0.55 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.12 | 0.02 | | |
| EM-2 | 05/18/98 | EPRI-9805-156 | GW | 4.29 | 7.14 | 7.50 | 4190 | 4180 | 0.58 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.13 | 0.02 | | |
| EM-2 | 8/13/98 | EPRI-9808-156 | GW | 1.06 | 7.02 | 7.8 | 4210 | 4240 | 0.68 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.13 | 0.031 | | |
| EM-2 | 11/11/98 | EPRI-9811-156 | GW | 3.50 | 7.23 | 7.5 | 4260 | 4190 | 0.54 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.12 | 0.085 | | |
| EM-2 | 02/22/99 | EPRI-9902-168 | GW | 2.40 | 7.12 | 7.6 | 4510 | 5330 | 0.45 | 0.007 | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.10 | 0.043 | | | |
| EM-2 | 05/10/99 | EPRI-9905-169 | GW | 1.30 | 6.71 | 7.4 | 6050 | 6480 | 0.95 | 0.005 | U | 0.010 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.11 | 0.033 | | |
| EM-2 | 08/06/99 | EPRI-9908-169 | GW | 1.6 | 6.81 | 7.5 | 5740 | 6320 | 2.1 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.12 | 0.034 | | |
| Average | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | 2.57 | 7.04 | 7.62 | 4624 | 4684 | 0.807 | 0.005 | | 0.009 | 0.025 | | 0.100 | 0.003 | 0.122 | | 0.035 | | | |
| Standard Deviation | | | | | 1.60 | 7.05 | 7.6 | 4260 | 4890 | 0.580 | 0.005 | | 0.010 | 0.025 | | 0.100 | 0.003 | 0.120 | | 0.031 | | | |
| Minimum | | | | | 1.79 | 0.20 | 0.16 | 746 | 1576 | 0.510 | 0.001 | | 0.002 | 0.000 | | 0.000 | 0.000 | 0.017 | | 0.020 | | | |
| Maximum | | | | | 1.06 | 6.71 | 7.40 | 3960 | 871 | 0.450 | 0.005 | | 0.005 | 0.025 | | 0.100 | 0.003 | 0.100 | | 0.020 | | | |
| EM-4 | 08/26/97 | EPRI-9708-158 | GW | | 7.50 | 7.90 | 10410 | 2090 | | 0.009 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.011 | 0.031 | | |
| EM-4 | 11/17/97 | EPRI-9711-158 | GW | 2.57 | 7.10 | 7.70 | 11300 | 14110 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | 0.02 | U | |
| EM-4 | 02/17/98 | EPRI-9802-157 | GW | 1.14 | 6.97 | 7.40 | 11150 | 14370 | 0.009 | 0.008 | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | 0.02 | U | |
| EM-4 | 05/18/98 | EPRI-9805-157 | GW | 1.49 | 7.23 | 7.0 | 9420 | 10150 | 0.019 | 0.005 | U | 0.01 | U | 0.071 | 0.1 | U | 0.003 | U | 0.005 | U | 0.032 | | |
| EM-4 | 8/13/98 | EPRI-9808-157 | GW | 1.06 | 7.02 | 7.8 | 9560 | 4240 | R | 0.01 | U | 0.005 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.005 | U | | |

Table H-1. Summary of Groundwater Analytical Results, August 1997 through August 1999
EM Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | | | | | | | |
|--------------------|----------|---------------|------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|-------|-------|-------|-------|-------|-------|
| EM-4 | 11/11/98 | EPR1-9811-157 | GW | 1.90 | 6.95 | 7.4 | 10460 | 10370 | 0.005 | U | 0.009 | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.005 | U | 0.13 | |
| EM-4 | 02/22/99 | EPR1-9902-169 | GW | 8.30 | 7.27 | 7.5 | 9940 | 11540 | 0.005 | U | 0.006 | 0.010 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | 0.059 | |
| EM-4 | 05/10/99 | EPR1-9905-170 | GW | 0.90 | 7.01 | 7.6 | 10270 | 10850 | 0.005 | U | 0.005 | 0.010 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | 0.031 | |
| EM-4 D | 05/10/99 | EPR1-9905-185 | GW | 1.00 | 7.01 | 7.7 | 10270 | 10780 | 0.005 | U | 0.005 | 0.010 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | 0.035 | |
| EM-4 | 08/06/99 | EPR1-9908-170 | GW | 0.8 | 7.21 | 7.9 | 10440 | 10600 | 0.009 | J4 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.005 | U | 0.033 |
| Average | | | | 2.13 | 7.13 | 7.66 | 10322 | 9910 | 0.008 | | 0.006 | 0.010 | | 0.030 | | 0.100 | | 0.003 | | 0.006 | | 0.042 | |
| Median | | | | 1.14 | 7.06 | 7.7 | 10340 | 10690 | 0.007 | | 0.005 | 0.010 | | 0.025 | | 0.100 | | 0.003 | | 0.005 | | 0.032 | |
| Standard Deviation | | | | 2.38 | 0.17 | 0.18 | 599 | 3886 | 0.004 | | 0.001 | 0.002 | | 0.015 | | 0.000 | | 0.000 | | 0.002 | | 0.033 | |
| Minimum | | | | 0.80 | 6.95 | 7.40 | 9420 | 2090 | 0.005 | | 0.005 | 0.005 | | 0.025 | | 0.100 | | 0.003 | | 0.005 | | 0.020 | |
| Maximum | | | | 8.30 | 7.50 | 7.90 | 11300 | 14370 | 0.019 | | 0.009 | 0.010 | | 0.071 | | 0.100 | | 0.003 | | 0.011 | | 0.130 | |
| EM-5 | 08/26/97 | EPR1-9708-159 | GW | 7.64 | 8.00 | 6160 | | 1187 | 1.6 | 0.08 | | 0.01 | U | 0.046 | | 0.55 | | 0.01 | | 0.027 | | 0.31 | |
| EM-5 | 11/17/97 | EPR1-9711-159 | GW | 0.79 | 7.30 | 7.70 | 6700 | 8790 | 1.7 | 0.069 | | 0.005 | U | 0.025 | U | 1.8 | | 0.006 | | 0.009 | | 0.31 | |
| EM-5 | 02/17/98 | EPR1-9802-158 | GW | 1.84 | 7.17 | 7.70 | 6990 | 9310 | 1.6 | 0.066 | | 0.01 | U | 0.03 | | 2.4 | | 0.009 | | 0.012 | | 0.38 | |
| EM-5 | 05/18/98 | EPR1-9805-158 | GW | 1.21 | 7.59 | 7.90 | 4920 | 4950 | 1.7 | 0.017 | | 0.01 | U | 0.025 | | 1.3 | | 0.005 | | 0.013 | | 0.17 | |
| EM-5 | 8/17/98 | EPR1-9808-158 | GW | 0.18 | 7.50 | 7.8 | 4970 | 5010 | 1.8 | 0.055 | | 0.010 | U | 0.044 | | 0.49 | | 0.003 | | 0.005 | | 0.17 | |
| EM-5 | 11/11/98 | EPR1-9811-158 | GW | 3.50 | 7.43 | 7.6 | 5090 | 5030 | 2.0 | 0.081 | | 0.010 | U | 0.028 | | 1.0 | | 0.003 | | 0.005 | | 0.30 | |
| EM-5 | 02/11/99 | EPR1-9902-170 | GW | 0.90 | 7.47 | 7.8 | 4740 | 4800 | 1.9 | 0.046 | | 0.010 | U | 0.025 | | 1.2 | | 0.003 | | 0.007 | | 0.27 | |
| EM-5 D | 02/11/99 | EPR1-9902-187 | GW | 0.90 | 7.48 | 7.8 | 4770 | 4800 | 1.9 | 0.046 | | 0.010 | U | 0.025 | | 1.2 | | 0.003 | | 0.006 | | 0.27 | |
| EM-5 | 05/10/99 | EPR1-9905-171 | GW | 0.70 | 7.35 | 7.7 | 3700 | 3800 | 2.2 | 0.009 | | 0.010 | U | 0.025 | | 1.5 | | 0.003 | | 0.005 | | 0.10 | |
| EM-5 | 08/06/99 | EPR1-9908-171 | GW | 0.7 | 7.46 | 7.8 | 2660 | 2630 | 2.4 | 0.016 | | 0.01 | U | 0.025 | | 0.64 | | 0.003 | | 0.008 | | 0.11 | |
| Average | | | | 1.19 | 7.44 | 7.78 | 5070 | 5031 | 1.880 | | 0.049 | | 0.010 | | 0.030 | | 1.208 | | 0.005 | | 0.010 | | 0.239 |
| Median | | | | 0.90 | 7.465 | 7.8 | 4945 | 4875 | 1.850 | | 0.051 | | 0.010 | | 0.025 | | 1.200 | | 0.003 | | 0.008 | | 0.270 |
| Standard Deviation | | | | 0.97 | 0.14 | 0.11 | 1310 | 2463 | 0.262 | | 0.027 | | 0.002 | | 0.008 | | 0.594 | | 0.003 | | 0.007 | | 0.095 |
| Minimum | | | | 0.18 | 7.17 | 7.60 | 2660 | 1187 | 1.600 | | 0.009 | | 0.005 | | 0.025 | | 0.490 | | 0.003 | | 0.005 | | 0.100 |
| Maximum | | | | 3.50 | 7.64 | 8.00 | 6990 | 9310 | 2.400 | | 0.081 | | 0.010 | | 0.046 | | 2.400 | | 0.010 | | 0.027 | | 0.380 |
| EM-6 | 08/11/97 | EPR1-9708-160 | GW | 4.48 | 7.25 | 7.90 | 4520 | 4480 | 0.03 | | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | | 0.003 | U | 0.11 | | 0.03 |
| EM-6 | 08/11/97 | EPR1-9708-173 | GW | 4.48 | 7.25 | 7.80 | 4500 | 4480 | 0.027 | | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | | 0.003 | U | 0.11 | | 0.027 |
| EM-6 | 11/17/97 | EPR1-9711-160 | GW | 0.98 | 7.15 | 7.60 | 4500 | 5750 | 0.026 | | 0.005 | U | 0.005 | U | 0.045 | | 0.1 | | 0.003 | U | 0.11 | | 0.039 |
| EM-6 | 02/17/98 | EPR1-9802-159 | GW | 0.91 | 7.04 | 7.80 | 4330 | 5810 | 0.028 | | 0.006 | U | 0.01 | U | 0.043 | | 0.1 | | 0.003 | U | 0.1 | | 0.045 |
| EM-6 | 05/18/98 | EPR1-9805-159 | GW | 1.57 | 7.21 | 7.60 | 4090 | 4310 | 0.025 | | 0.005 | U | 0.01 | U | 0.045 | | 0.1 | | 0.003 | U | 0.099 | | 0.052 |
| EM-6 | 05/18/98 | EPR1-9805-180 | GW | | | 7.50 | 4120 | | 0.024 | | 0.005 | U | 0.01 | U | 0.044 | | 0.1 | | 0.003 | U | 0.098 | | 0.044 |

Table H-1. Summary of Groundwater Analytical Results, August 1997 through August 1999
EM Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | | | | |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|-------|-------|-------|-------|-------|
| EM-6 | 8/17/98 | EPR1-9808-159 | GW | 0.32 | 7.17 | 7.6 | 4600 | 4610 | 0.021 | 0.005 | U | 0.043 | 0.10 | U | 0.003 | 0.12 | 0.037 | | | |
| EM-6 | 11/11/98 | EPR1-9811-159 | GW | 1.40 | 7.45 | 7.8 | 3550 | 3590 | 0.031 | 0.006 | 0.010 | U | 0.063 | 0.10 | U | 0.003 | U | 0.076 | 0.12 | |
| EM-6 | 02/11/99 | EPR1-9902-171 | GW | 3.60 | 7.3 | 7.8 | 4290 | 4390 | 0.024 | 0.007 | 0.010 | U | 0.041 | 0.10 | U | 0.003 | U | 0.097 | 0.087 | |
| EM-6 | 05/10/99 | EPR1-9905-172 | GW | 0.60 | 7.06 | 7.7 | 3810 | 4290 | 0.025 | 0.007 | 0.010 | U | 0.052 | 0.1 | U | 0.005 | U | 0.070 | 0.099 | J4 |
| EM-6 | 08/06/99 | EPR1-9908-172 | GW | 0.5 | 7.3 | 8 | 3640 | 3840 | 0.042 | J4 | 0.007 | 0.01 | U | 0.059 | 0.1 | U | 0.004 | U | 0.067 | 0.1 |
| EM-6 D | 08/06/99 | EPR1-9908-200 | GW | 0.4 | 7.3 | 8 | 3640 | 3850 | 0.033 | J4 | 0.007 | 0.01 | U | 0.06 | 0.1 | U | 0.004 | U | 0.076 | 0.099 |
| Average | | | | 1.75 | 7.23 | 7.76 | 4133 | 4491 | 0.028 | 0.006 | 0.010 | U | 0.045 | 0.100 | U | 0.003 | 0.094 | 0.065 | | |
| Median | | | | 0.98 | 7.25 | 7.8 | 4205 | 4390 | 0.027 | 0.006 | 0.010 | U | 0.045 | 0.100 | U | 0.003 | 0.099 | 0.049 | | |
| Standard Deviation | | | | 1.63 | 0.12 | 0.16 | 385 | 712 | 0.006 | 0.001 | 0.001 | U | 0.012 | 0.000 | U | 0.001 | 0.018 | 0.033 | | |
| Minimum | | | | 0.32 | 7.04 | 7.50 | 3550 | 3590 | 0.021 | 0.005 | 0.005 | U | 0.025 | 0.100 | U | 0.003 | 0.067 | 0.027 | | |
| Maximum | | | | 4.48 | 7.45 | 8.00 | 4600 | 5810 | 0.042 | 0.007 | 0.010 | U | 0.063 | 0.100 | U | 0.005 | 0.120 | 0.120 | | |
| EM-7 | 11/17/97 | EPR1-9711-161 | GW | 1.78 | 7.56 | 8.40 | 5700 | 7070 | 1.7 | 0.021 | 0.008 | U | 0.067 | 0.35 | 0.058 | 0.13 | 0.11 | | | |
| EM-7 | 02/19/98 | EPR1-9802-160 | GW | 2.33 | 7.77 | 7.80 | 6020 | 6810 | 2.1 | 0.009 | 0.01 | U | 0.055 | 0.34 | J4 | 0.03 | 0.055 | 0.078 | J4 | |
| EM-7 | 05/07/98 | EPR1-9805-160 | GW | 1.3 | 7.24 | 7.80 | 5560 | 6960 | 1.8 | 0.018 | 0.01 | U | 0.073 | 0.2 | U | 0.039 | 0.055 | 0.11 | | |
| EM-7 | 8/20/98 | EPR1-9808-160 | GW | 1.95 | 7.38 | 7.7 | 5220 | 5240 | 2.3 | 0.019 | 0.010 | U | 0.042 | 0.16 | U | 0.032 | 0.037 | 0.10 | | |
| EM-7 | 11/11/98 | EPR1-9811-160 | GW | 2.30 | 7.54 | 7.6 | 5310 | 5190 | 2.1 | 0.014 | 0.010 | U | 0.025 | 0.29 | U | 0.019 | 0.020 | 0.079 | | |
| EM-7 | 02/24/99 | EPR1-9902-172 | GW | 2.00 | 7.69 | 7.8 | 5110 | 6320 | 2.0 | 0.011 | 0.010 | U | 0.049 | 0.18 | U | 0.025 | 0.051 | 0.093 | | |
| EM-7 | 05/12/99 | EPR1-9905-173 | GW | 3.60 | 7.66 | 7.4 | 4540 | J3 | 4560 | 2.4 | 0.005 | 0.010 | U | 0.025 | U | 0.27 | 0.011 | 0.006 | 0.039 | |
| EM-7 | 08/06/99 | EPR1-9908-173 | GW | 3.9 | 7.54 | 7.7 | 4410 | 4420 | 2.4 | 0.023 | 0.01 | U | 0.056 | 0.17 | U | 0.034 | 0.03 | 0.073 | | |
| Average | | | | 2.40 | 7.55 | 7.78 | 5234 | 5821 | 2.100 | 0.015 | 0.010 | U | 0.049 | 0.245 | 0.031 | 0.048 | 0.085 | | | |
| Median | | | | 2.15 | 7.55 | 7.75 | 5265 | 5780 | 2.100 | 0.016 | 0.010 | U | 0.052 | 0.235 | 0.031 | 0.044 | 0.086 | | | |
| Standard Deviation | | | | 0.90 | 0.17 | 0.29 | 551 | 1094 | 0.262 | 0.006 | 0.001 | U | 0.077 | 0.014 | 0.037 | 0.024 | | | | |
| Minimum | | | | 1.30 | 7.24 | 7.40 | 4410 | 4420 | 1.700 | 0.005 | 0.008 | U | 0.025 | 0.160 | 0.011 | 0.006 | 0.039 | | | |
| Maximum | | | | 3.90 | 7.77 | 8.40 | 6020 | 7070 | 2.400 | 0.023 | 0.010 | U | 0.073 | 0.350 | 0.058 | 0.130 | 0.110 | | | |

TABLE H-2

**ANALYTICAL RESULTS FOR DISSOLVED METALS,
GROUNDWATER SAMPLES, EP WELLS**

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|---------------|----------------------|-----------|------------|-------------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| EP-4 | 08/06/97 | EPRI-9708-100 | GW | 1.51 | 7.06 | 7.70 | 2350 | 0.16 | 0.005 | U | 0.01 | U | 0.025 | U | 1.1 |
| EP-4 | 11/04/97 | EPRI-9711-100 | GW | 1 | 7.46 | 7.80 | 1656 | 0.14 | 0.005 | U | 0.01 | U | 0.025 | U | 0.85 |
| EP-4 | 02/04/98 | EPRI-9802-100 | GW | 1.91 | 7.58 | 8.00 | 1595 | 1563 | 0.068 | 0.005 | U | 0.01 | U | 0.025 | ,UJ4 |
| EP-4 | 05/05/98 | EPRI-9805-100 | GW | 3.20 | 7.95 | 7.90 | 1831 | 1670 | 0.085 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-4 | 8/5/98 | EPRI-9808-100 | GW | 1.34 | 7.36 | 7.8 | 1970 | 2190 | 0.14 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-4 | 2/3/99 | EPRI-9902-100 | GW | 1.2 | 8.08 | 8.1 | 1965 | 1620 | 0.080 | J4 | 0.005 | U | 0.025 | U | 1.40 |
| EP-4 | 5/5/99 | EPRI-9905-100 | GW | 2.1 | 7.6 | 7.9 | 2170 | 2050 | 0.086 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-4 | 08/02/99 | EPRI-9908-100 | GW | 1.3 | 7.61 | 7.8 | 2440 | 2490 | 0.15 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-5 | 08/06/97 | EPRI-9708-101 | GW | 1.29 | 7.47 | 7.70 | 3350 | 3330 | 0.047 | 0.005 | U | 0.016 | 0.025 | U | 0.954 |
| EP-5 | 11/04/97 | EPRI-9711-101 | GW | 2.52 | 7.58 | 8.00 | 3100 | 3700 | 0.033 | 0.005 | U | 0.01 | U | 0.025 | 0.005 |
| EP-5 | 02/04/98 | EPRI-9802-101 | GW | 0.68 | 7.58 | 8.10 | 3070 | 3060 | 0.059 | 0.005 | U | 0.01 | U | 0.025 | ,UJ4 |
| EP-5 | 05/05/98 | EPRI-9805-101 | GW | 5.22 | 7.81 | 8.00 | 2980 | 2560 | 0.05 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-5 | 8/5/98 | EPRI-9808-101 | GW | 1.14 | 7.36 | 7.8 | 2900 | 3360 | 0.056 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-5 | 11/3/98 | EPRI-9811-101 | GW | 1 | 7.04 | 7.6 | 3010 | 2890 | 0.069 | J4 | 0.005 | U | 0.030 | 0.16 | |
| EP-5 | 2/3/99 | EPRI-9902-101 | GW | 1.7 | 7.87 | 8.0 | 2820 | 2800 | 0.037 | J4 | 0.005 | U | 0.025 | U | |
| EP-5 | 5/5/99 | EPRI-9905-101 | GW | 2.2 | 7.52 | 8.1 | 2780 | 2600 | 0.054 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-5 | 08/02/99 | EPRI-9908-101 | GW | 1.8 | 7.44 | 7.9 | 3300 | 3550 | 0.061 | 0.005 | U | 0.012 | 0.025 | U | 0.1 |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-6 | 08/06/97 | EPRI-9708-102 | GW | 1.47 | 7.34 | 7.90 | 7320 | 7240 | 0.032 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 11/04/97 | EPRI-9711-102 | GW | 1.03 | 7.44 | 7.90 | 7010 | 7440 | 0.031 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 02/04/98 | EPRI-9802-102 | GW | 3.1 | 7.53 | 8.00 | 6060 | 997 | 0.023 | 0.005 | U | 0.01 | U | 0.025 | ,UJ4 |
| EP-6 | 05/05/98 | EPRI-9805-102 | GW | 3.00 | 7.62 | 8.00 | 5810 | 4950 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 8/5/98 | EPRI-9808-102 | GW | 1.24 | 7.3 | 8.0 | 6720 | 7440 | 0.024 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 | 11/3/98 | EPRI-9811-102 | GW | 1.5 | 7.33 | 7.7 | 7120 | 7030 | 0.025 | J4 | 0.005 | U | 0.010 | U | 0.10 |
| EP-6 | 2/3/99 | EPRI-9902-102 | GW | 2.5 | 7.51 | 7.9 | 7270 | 6960 | 0.014 | J4 | 0.005 | U | 0.025 | U | 0.23 |
| EP-6 | 5/5/99 | EPRI-9905-102 | GW | 1.4 | 7.39 | 8.1 | 7400 | 7100 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 D | 5/5/99 | EPRI-9905-179 | GW | 1.6 | 7.43 | 7.9 | 7400 | 6810 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 | 08/02/99 | EPRI-9908-102 | GW | 1.6 | 7.37 | 8.4 | 7760 | 7630 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-6 | 08/06/97 | EPRI-9708-103 | GW | 1.47 | 7.34 | 7.90 | 7320 | 7240 | 0.032 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 11/04/97 | EPRI-9711-103 | GW | 1.03 | 7.44 | 7.90 | 7010 | 7440 | 0.031 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 02/04/98 | EPRI-9802-103 | GW | 3.1 | 7.53 | 8.00 | 6060 | 997 | 0.023 | 0.005 | U | 0.01 | U | 0.025 | ,UJ4 |
| EP-6 | 05/05/98 | EPRI-9805-103 | GW | 3.00 | 7.62 | 8.00 | 5810 | 4950 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 8/5/98 | EPRI-9808-103 | GW | 1.24 | 7.3 | 8.0 | 6720 | 7440 | 0.024 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 | 11/3/98 | EPRI-9811-103 | GW | 1.5 | 7.33 | 7.7 | 7120 | 7030 | 0.025 | J4 | 0.005 | U | 0.010 | U | 0.10 |
| EP-6 | 2/3/99 | EPRI-9902-103 | GW | 2.5 | 7.51 | 7.9 | 7270 | 6960 | 0.014 | J4 | 0.005 | U | 0.025 | U | 0.23 |
| EP-6 | 5/5/99 | EPRI-9905-103 | GW | 1.4 | 7.39 | 8.1 | 7400 | 7100 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 D | 5/5/99 | EPRI-9905-179 | GW | 1.6 | 7.43 | 7.9 | 7400 | 6810 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 | 08/02/99 | EPRI-9908-103 | GW | 1.6 | 7.37 | 8.4 | 7760 | 7630 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-6 | 08/06/97 | EPRI-9708-104 | GW | 1.47 | 7.34 | 7.90 | 7320 | 7240 | 0.032 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 11/04/97 | EPRI-9711-104 | GW | 1.03 | 7.44 | 7.90 | 7010 | 7440 | 0.031 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 02/04/98 | EPRI-9802-104 | GW | 3.1 | 7.53 | 8.00 | 6060 | 997 | 0.023 | 0.005 | U | 0.01 | U | 0.025 | ,UJ4 |
| EP-6 | 05/05/98 | EPRI-9805-104 | GW | 3.00 | 7.62 | 8.00 | 5810 | 4950 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 8/5/98 | EPRI-9808-104 | GW | 1.24 | 7.3 | 8.0 | 6720 | 7440 | 0.024 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 | 11/3/98 | EPRI-9811-104 | GW | 1.5 | 7.33 | 7.7 | 7120 | 7030 | 0.025 | J4 | 0.005 | U | 0.010 | U | 0.10 |
| EP-6 | 2/3/99 | EPRI-9902-104 | GW | 2.5 | 7.51 | 7.9 | 7270 | 6960 | 0.014 | J4 | 0.005 | U | 0.025 | U | 0.23 |
| EP-6 | 5/5/99 | EPRI-9905-104 | GW | 1.4 | 7.39 | 8.1 | 7400 | 7100 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 D | 5/5/99 | EPRI-9905-179 | GW | 1.6 | 7.43 | 7.9 | 7400 | 6810 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 | 08/02/99 | EPRI-9908-104 | GW | 1.6 | 7.37 | 8.4 | 7760 | 7630 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-6 | 08/06/97 | EPRI-9708-105 | GW | 1.47 | 7.34 | 7.90 | 7320 | 7240 | 0.032 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 11/04/97 | EPRI-9711-105 | GW | 1.03 | 7.44 | 7.90 | 7010 | 7440 | 0.031 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 02/04/98 | EPRI-9802-105 | GW | 3.1 | 7.53 | 8.00 | 6060 | 997 | 0.023 | 0.005 | U | 0.01 | U | 0.025 | ,UJ4 |
| EP-6 | 05/05/98 | EPRI-9805-105 | GW | 3.00 | 7.62 | 8.00 | 5810 | 4950 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-6 | 8/5/98 | EPRI-9808-105 | GW | 1.24 | 7.3 | 8.0 | 6720 | 7440 | 0.024 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 | 11/3/98 | EPRI-9811-105 | GW | 1.5 | 7.33 | 7.7 | 7120 | 7030 | 0.025 | J4 | 0.005 | U | 0.010 | U | 0.10 |
| EP-6 | 2/3/99 | EPRI-9902-105 | GW | 2.5 | 7.51 | 7.9 | 7270 | 6960 | 0.014 | J4 | 0.005 | U | 0.025 | U | 0.23 |
| EP-6 | 5/5/99 | EPRI-9905-105 | GW | 1.4 | 7.39 | 8.1 | 7400 | 7100 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 D | 5/5/99 | EPRI-9905-179 | GW | 1.6 | 7.43 | 7.9 | 7400 | 6810 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-6 | 08/02/99 | EPRI-9908-105 | GW | 1.6 | 7.37 | 8.4 | 7760 | 7630 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | </td | | | | | | | | | | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|----------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|-------|
| Median | | | | 1.55 | 7.41 | 7.95 | 7195 | 7065 | 0.023 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.022 | |
| Standard Deviation | | | | 0.74 | 0.10 | 0.18 | 620 | 2028 | 0.005 | 0.000 | 0.000 | 0.041 | 0.000 | 0.017 | 0.023 | |
| Minimum | | | | 1.03 | 7.30 | 7.70 | 5810 | 997 | 0.014 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.010 | |
| Maximum | | | | 3.10 | 7.62 | 8.40 | 7760 | 7630 | 0.032 | 0.005 | 0.010 | 0.025 | 0.230 | 0.003 | 0.020 | |
| Average | | | | | | | | | | | | | | | | |
| EP-7 | 08/06/97 | EPR1-9708-103 | GW | 1.66 | 7.17 | 7.80 | 2810 | 2580 | 0.064 | 0.005 | U | 0.01 | U | 0.003 | U | |
| EP-7 | 11/04/97 | EPR1-9711-103 | GW | 1.55 | 7.36 | 7.90 | 2710 | 2850 | 0.084 | 0.005 | U | 0.01 | U | 0.003 | U | |
| EP-7 | 02/04/98 | EPR1-9802-103 | GW | 1.62 | 7.30 | 7.90 | 2810 | 501 | 0.076 | 0.005 | U | 0.01 | U | 0.003 | U | |
| EP-7 | 05/05/98 | EPR1-9805-103 | GW | 3.73 | 7.67 | 7.80 | 2890 | 2500 | 0.056 | 0.005 | U | 0.01 | U | 0.003 | U | |
| EP-7 | 8/5/98 | EPR1-9808-103 | GW | 0.69 | 7.28 | 7.8 | 2800 | 630 | R | 0.065 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-7 | 11/3/98 | EPR1-9811-103 | GW | 1.2 | 7.31 | 7.6 | 2660 | 2610 | 0.049 | 14 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-7 | 2/3/99 | EPR1-9902-103 | GW | 1.9 | 7.51 | 7.9 | 2960 | 2790 | 0.044 | 14 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-7 D | 2/3/99 | EPR1-9902-177 | GW | 2 | 7.51 | 7.8 | 2950 | 2800 | 0.056 | 14 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-7 | 5/5/99 | EPR1-9905-103 | GW | 2.5 | 7.5 | 7.9 | 3110. | 3030 | 0.065 | 0.005 | U | 0.010 | U | 0.025 | U | |
| EP-7 | 08/02/99 | EPR1-9908-103 | GW | 1.9 | 7.33 | 7.7 | 3790 | 3800 | 0.064 | 0.005 | U | 0.01 | U | 0.025 | U | |
| Average | | | | | | | | | | | | | | | | |
| Median | | | | 1.88 | 7.39 | 7.81 | 2949 | 2409 | 0.062 | 0.005 | U | 0.010 | U | 0.025 | U | |
| Standard Deviation | | | | 1.78 | 7.345 | 7.8 | 2850 | 2700 | 0.064 | 0.005 | U | 0.010 | U | 0.025 | U | |
| Minimum | | | | 0.81 | 0.15 | 0.10 | 323 | 1038 | 0.012 | 0.000 | U | 0.000 | U | 0.000 | U | |
| Maximum | | | | 0.69 | 7.17 | 7.60 | 2660 | 501 | 0.044 | 0.005 | U | 0.010 | U | 0.025 | U | |
| Average | | | | 3.73 | 7.67 | 7.90 | 3790 | 3800 | 0.084 | 0.005 | U | 0.010 | U | 0.025 | U | |
| EP-9 | 05/07/98 | EPR1-9805-178 | GW | 1.12 | 7.1 | 8.1 | 2650 | 3220 | 0.39 | 0.005 | U | 0.01 | U | 0.025 | U | |
| EP-12 | 11/03/97 | EPR1-9711-104 | GW | 1.44 | 6.80 | 7.30 | 5840 | 7490 | 1.3 | 0.005 | U | 0.01 | U | 0.025 | U | |
| EP-12 | 02/03/98 | EPR1-9802-104 | GW | 1.55 | 6.76 | 7.40 | 6580 | 7870 | 1.2 | 0.005 | U | 0.01 | U | 0.025 | U | |
| EP-12 | 05/20/98 | EPR1-9805-104 | GW | 2.38 | 7.05 | 7.60 | 5280 | 4820 | 1 | 0.005 | U | 0.01 | U | 0.031 | U | |
| EP-12 | 8/27/98 | EPR1-9808-104 | GW | 1.12 | 6.79 | 7.3 | 6560 | 5650 | 1.5 | 0.019 | 0.010 | U | 0.025 | U | 0.62 | |
| EP-12 | 11/16/98 | EPR1-9811-104 | GW | 1.7 | 6.88 | 7.5 | 5380 | 5710 | 1.6 | 0.005 | U | 0.010 | U | 0.025 | U | |
| EP-12 | 2/25/99 | EPR1-9902-104 | GW | 2.6 | 7.08 | 7.4 | 4890 | 4980 | 1.8 | 0.005 | U | 0.010 | U | 0.025 | U | |
| EP-12 | 5/14/99 | EPR1-9905-104 | GW | 1.3 | 6.86 | 7.7 | 6020 | J3 | 5910 | 2.4 | 0.005 | U | 0.010 | U | 0.024 | U |
| EP-12 D | 5/14/99 | EPR1-9905-193 | GW | 2.1 | 7 | 7.7 | 5900 | J3 | 5950 | 2.7 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-12 | 08/11/99 | EPR1-9908-104 | GW | 0.1 | 7.31 | 7.6 | 6110 | 6070 | 1.7 | 0.005 | U | 0.01 | U | 0.025 | U | |
| Average | | | | | | | | | | | | | | | | |
| Median | | | | 1.59 | 6.95 | 7.50 | 5840 | 6050 | 1.689 | 0.007 | U | 0.010 | U | 0.026 | U | |
| Standard Deviation | | | | 1.55 | 6.88 | 7.5 | 5900 | 5910 | 1.600 | 0.005 | U | 0.010 | U | 0.025 | U | |
| Minimum | | | | 0.75 | 0.18 | 0.16 | 526 | 1022 | 0.553 | 0.005 | U | 0.000 | U | 1.427 | U | |
| Maximum | | | | 0.10 | 6.76 | 7.30 | 4890 | 4820 | 1.000 | 0.005 | U | 0.010 | U | 0.025 | U | |
| Average | | | | 2.60 | 7.31 | 7.70 | 6580 | 7870 | 2.700 | 0.019 | 0.010 | U | 0.031 | 4.700 | 0.004 | |
| EP-13 | 08/07/97 | EPR1-9708-105 | GW | 5.56 | 7.35 | 7.70 | 12500 | 12410 | 49 | 0.82 | 0.01 | U | 0.025 | U | 0.024 | U |
| EP-13 | 11/06/97 | EPR1-9711-105 | GW | 4.01 | 7.11 | 7.80 | 12210 | 14320 | 46 | 0.8 | 0.01 | U | 0.025 | U | 0.033 | U |
| EP-13 | 02/17/98 | EPR1-9802-105 | GW | 0.182 | 6.95 | 7.70 | 11910 | 14100 | 48 | 0.68 | 0.01 | U | 0.027 | U | 6.1 | 0.025 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity (SC) (lab) | Specific Conductivity (SC) (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | | | | | |
|--------------------|----------|---------------|------|-----------|----------|----------|----------------------------------|----------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|-------|-------|-------|-------|
| EP-13 | 05/07/98 | EPR1-9805-105 | GW | 2.79 | 6.96 | 7.70 | 11440 | 10900 | 36 | 0.71 | 0.01 | U | 0.025 | 0.1 | U | 0.003 | U | 5.7 | 0.059 | | | |
| EP-13 | 8/6/98 | EPR1-9808-105 | GW | 2.8 | 6.98 | 7.7 | 11220 | 11320 | 36 | 0.7 | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 5.4 | 0.10 | | |
| EP-13 | 11/4/98 | EPR1-9811-105 | GW | 7.2 | 7.12 | 7.4 | 11420 | 12670 | 39 | 14 | 0.77 | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 5.7 | 0.072 | |
| EP-13 | 2/8/99 | EPR1-9902-105 | GW | 5.6 | 7.16 | 7.6 | 11200 | 11070 | 36 | 0.74 | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 5.1 | 0.10 | | |
| EP-13 | 5/6/99 | EPR1-9905-105 | GW | 5.9 | 7.08 | 7.7 | 10640 | 11480 | 38 | 0.65 | 0.010 | U | 0.025 | U | 0.10 | U | 0.007 | U | 5.1 | 0.077 | | |
| EP-13 | 08/03/99 | EPR1-9908-105 | GW | 2.6 | 7.19 | 7.5 | 11200 | 11300 | 39 | 0.66 | 0.01 | U | 0.048 | 0.1 | U | 0.003 | U | 5.9 | 0.067 | | | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-14 | 11/05/97 | EPR1-9711-106 | GW | 0.4 | 6.91 | 7.50 | 4430 | 5020 | 1.1 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.36 | 0.02 | |
| EP-14 | 02/11/98 | EPR1-9802-106 | GW | 0.35 | 6.76 | 7.50 | 4520 | 6090 | 1.3 | 0.005 | U | 0.01 | U | 0.025 | U | 0.17 | J4 | 0.004 | U | 0.3 | 0.02 | |
| EP-14 | 05/07/98 | EPR1-9805-106 | GW | 1.60 | 6.86 | 7.40 | 46660 | 5500 | 1.4 | 0.005 | U | 0.01 | U | 0.025 | U | 0.15 | U | 0.004 | U | 0.23 | 0.046 | |
| EP-14 | 8/6/98 | EPR1-9808-106 | GW | 0.5 | 6.9 | 7.7 | 3590 | 3890 | 2.5 | 0.005 | U | 0.010 | U | 0.025 | U | 0.11 | U | 0.003 | U | 0.084 | 0.032 | |
| EP-14 | 11/4/98 | EPR1-9811-106 | GW | 1 | 6.92 | 7.2 | 4230 | 4600 | 2.2 | 14 | 0.005 | U | 0.010 | U | 0.025 | U | 0.18 | U | 0.003 | U | 0.18 | 0.022 |
| EP-14 | 2/8/99 | EPR1-9902-106 | GW | 0.7 | 6.95 | 7.6 | 5070 | 4950 | 1.7 | 0.005 | U | 0.010 | U | 0.025 | U | 0.29 | U | 0.003 | U | 0.30 | 0.031 | |
| EP-14 | 5/6/99 | EPR1-9905-106 | GW | 6 | 6.85 | 7.4 | 4900 | 5240 | 1.7 | 0.005 | U | 0.010 | U | 0.025 | U | 0.18 | U | 0.006 | U | 0.25 | 0.02 | |
| EP-14 | 08/03/99 | EPR1-9908-106 | GW | 0.4 | 7.11 | 7.5 | 4300 | 4340 | 2.1 | 0.005 | U | 0.01 | U | 0.025 | U | 0.57 | U | 0.003 | U | 0.22 | 0.038 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-15 | 08/07/97 | EPR1-9708-107 | GW | 2.84 | 7.20 | 7.80 | 3150 | 2830 | 0.076 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.17 | 0.022 | |
| EP-15 | 11/06/97 | EPR1-9711-107 | GW | 2.37 | 7.30 | 7.90 | 3060 | 3180 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.16 | 0.021 | |
| EP-15 | 02/11/98 | EPR1-9802-107 | GW | 2.45 | 7.12 | 7.70 | 3100 | 3980 | 0.031 | 0.016 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.16 | 0.02 | U | 0.046 | |
| EP-15 | 05/07/98 | EPR1-9805-107 | GW | 2.47 | 7.35 | 7.80 | 2960 | 3320 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.2 | 0.031 | |
| EP-15 | 8/10/98 | EPR1-9808-107 | GW | 1.77 | 7.34 | 7.9 | 2810 | 2750 | 0.009 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.17 | 0.031 | |
| EP-15 | 11/15/98 | EPR1-9811-107 | GW | 1.5 | 7.21 | 7.6 | 3090 | 3040 | 0.007 | 14 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.14 | 0.048 |
| EP-15 | 2/8/99 | EPR1-9902-107 | GW | 2.5 | 7.27 | 7.8 | 3620 | 3560 | 0.025 | 0.015 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.12 | 0.048 | |
| EP-15 D | 2/8/99 | EPR1-9902-181 | GW | 2.5 | 7.27 | 8.0 | 3600 | 3560 | 0.028 | 0.014 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.12 | 0.060 | |
| EP-15 | 5/5/99 | EPR1-9905-107 | GW | 7.3 | 7.12 | 7.7 | 4170 | 8580 | 0.008 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.15 | 0.066 | |
| EP-15 | 08/03/99 | EPR1-9908-107 | GW | 2 | 7.19 | 7.5 | 4460 | 4500 | 0.012 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.17 | 0.02 | |
| EP-15 D | 08/03/99 | EPR1-9908-194 | GW | 2 | 7.19 | 7.6 | 4460 | 4520 | 0.012 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.17 | 0.02 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| Minimum | | | | 1.50 | 7.12 | 7.50 | 2810 | 2750 | 0.007 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.120 |
| Maximum | | | | 7.30 | 7.35 | 8.00 | 4460 | 8580 | 0.076 | 0.016 | 0.010 | 0.025 | 0.100 | 0.003 | 0.200 |
| EP-20 | 08/07/97 | EPR1-9708-108 | GW | 1.98 | 6.72 | 7.40 | 11160 | 11270 | 1.2 | 0.036 | 0.01 | U | 0.025 | U | 0.057 |
| EP-20 | 11/03/97 | EPR1-9711-108 | GW | 2.56 | 7.05 | 7.30 | 10760 | 12760 | 1.2 | 0.04 | 0.01 | U | 0.026 | U | 0.35 |
| EP-20 | 02/03/98 | EPR1-9802-108 | GW | 2.36 | 7.06 | 7.40 | 10800 | 13110 | 0.96 | 0.048 | 0.01 | U | 0.036 | 14 | 0.37 |
| EP-20 | 05/06/98 | EPR1-9805-108 | GW | 3.49 | 7.22 | 7.50 | 10510 | 10530 | 0.85 | 0.042 | 0.01 | U | 0.03 | U | 0.34 |
| EP-20 | 8/6/98 | EPR1-9808-108 | GW | 2.39 | 6.88 | 7.6 | 10210 | 10440 | 0.87 | 0.038 | 0.010 | U | 0.025 | U | 0.35 |
| EP-20 | 11/14/98 | EPR1-9811-108 | GW | 1.6 | 6.92 | 7.0 | 10370 | 10130 | 0.92 | 14 | 0.034 | 0.010 | U | 0.025 | U |
| EP-20 | 2/4/99 | EPR1-9902-108 | GW | 2.4 | 6.96 | 7.4 | 9910 | 10010 | 0.79 | 14 | 0.039 | 0.01 | U | 0.025 | U |
| EP-20 | 5/4/99 | EPR1-9905-108 | GW | 2.3 | 6.95 | 7.4 | 10320 | 10220 | 0.92 | 0.048 | 0.010 | U | 0.025 | U | 0.37 |
| EP-20 | 08/02/99 | EPR1-9908-108 | GW | 1.6 | 6.89 | 7.2 | 9930 | 10090 | 1 | 0.03 | 0.01 | U | 0.025 | U | 0.37 |
| Average | | | | 2.30 | 6.96 | 7.36 | 10441 | 10957 | 0.968 | 0.039 | 0.010 | U | 0.027 | 101 | 0.059 |
| Median | | | | 2.36 | 6.95 | 7.4 | 10370 | 10440 | 0.920 | 0.039 | 0.010 | U | 0.025 | 100 | 0.057 |
| Standard Deviation | | | | 0.57 | 0.14 | 0.17 | 414 | 1187 | 0.145 | 0.006 | 0.000 | U | 0.004 | 0.003 | 0.017 |
| Minimum | | | | 1.60 | 6.72 | 7.00 | 9910 | 10010 | 0.790 | 0.030 | 0.010 | U | 0.025 | 100 | 0.025 |
| Maximum | | | | 3.49 | 7.22 | 7.60 | 11160 | 13110 | 1.200 | 0.048 | 0.010 | U | 0.036 | 1110 | 0.330 |
| EP-21 | 11/18/97 | EPR1-9711-109 | GW | 7.80 | 6260 | | | | 0.067 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-21 | 02/18/98 | EPR1-9802-109 | GW | 0.65 | 7.30 | 8.00 | 5980 | 8000 | 0.062 | 14 | 0.005 | U | 0.01 | U | 0.095 |
| EP-21 | 05/21/98 | EPR1-9805-109 | GW | 0.41 | 7.26 | 7.80 | 5740 | 1096 | 0.052 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-21 | 8/24/98 | EPR1-9808-109 | GW | 2.39 | 6.88 | 8.0 | 5680 | 5670 | 0.032 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-21 | 11/16/98 | EPR1-9811-109 | GW | 0.2010 | 7.57 | 8.0 | 5690 | 5630 | 0.034 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-21 | 2/24/99 | EPR1-9902-109 | GW | 0.4 | 7.56 | 8.1 | 5670 | 5740 | 0.033 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-21 | 08/10/99 | EPR1-9908-109 | GW | 0.8 | 7.66 | 8 | 5140 | 5160 | 0.022 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 0.81 | 7.37 | 7.96 | 5737 | 5216 | 0.043 | 0.005 | 0.010 | U | 0.025 | 351 | 0.034 |
| Median | | | | 0.53 | 7.43 | 8 | 5690 | 5650 | 0.034 | 0.005 | 0.010 | U | 0.025 | 320 | 0.018 |
| Standard Deviation | | | | 0.80 | 0.29 | 0.11 | 341 | 2253 | 0.017 | 0.000 | 0.000 | U | 0.026 | 0.000 | 0.006 |
| Minimum | | | | 0.20 | 6.88 | 7.80 | 5140 | 1096 | 0.022 | 0.005 | 0.010 | U | 0.025 | 170 | 0.005 |
| Maximum | | | | 2.39 | 7.66 | 8.10 | 6260 | 8000 | 0.067 | 0.005 | 0.010 | U | 0.025 | 830 | 0.095 |
| EP-22 | 08/15/97 | EPR1-9708-110 | GW | 2.92 | 7.46 | 7.90 | 8540 | 8510 | 0.035 | 0.006 | 0.01 | U | 0.031 | 1 | 0.32 |
| EP-22 | 11/18/97 | EPR1-9711-110 | GW | 1.01 | 7.16 | 7.40 | 9980 | 12900 | " 0.044 | 0.005 | U | 0.01 | U | 0.006 | 11 |
| EP-22 | 02/18/98 | EPR1-9802-110 | GW | 3.75 | 7.49 | 7.60 | 9900 | 11910 | 0.035 | 14 | 0.005 | U | 0.035 | 1 | 0.59 |
| EP-22 | 06/10/98 | EPR1-9806-201 | GW | 2.26 | 7.63 | 7.8 | 6840 | 9560 | 0.011 | 0.005 | U | 0.010 | U | 0.14 | 0.073 |
| EP-22 | 8/24/98 | EPR1-9808-110 | GW | 0.17 | 7.36 | 7.8 | 7480 | 6850 | 0.008 | 0.005 | U | 0.010 | U | 0.003 | 0.089 |
| EP-22 | 11/16/98 | EPR1-9811-110 | GW | 0.9010 | 7.51 | 8.0 | 7480 | 7480 | 0.008 | 0.005 | U | 0.010 | U | 0.054 | 0.083 |
| Average | | | | 1.84 | 7.44 | 7.74 | 8548 | 9535 | 0.027 | 0.005 | 0.010 | U | 0.028 | 108 | 0.0229 |
| Median | | | | 1.64 | 7.475 | 7.8 | 8540 | 9035 | 0.035 | 0.005 | 0.010 | U | 0.025 | 100 | 0.0110 |
| Standard Deviation | | | | 1.37 | 0.16 | 0.24 | 1409 | 2427 | 0.016 | 0.000 | 0.005 | U | 0.018 | 0.007 | 0.228 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fl d) | pH (fl d) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fl d) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|------------|-----------|--------------------------------|---------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| Minimum | | | | 0.17 | 7.16 | 6840 | 6850 | 0.008 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.054 | 0.083 |
| Maximum | | | | 3.75 | 7.63 | 9980 | 12900 | 0.044 | 0.006 | 0.010 | 0.035 | 0.140 | 0.018 | 0.590 | 2.100 |
| EP-23 | 08/11/97 | EPRI-9708-111 | GW | 1.17 | 7.50 | 6790 | 6640 | 2.5 | 0.005 | U | 0.025 | U | 0.027 | U | 0.027 |
| EP-23 | 11/04/97 | EPRI-9711-111 | GW | 0.73 | 7.51 | 6130 | 6810 | 4 | 0.005 | U | 0.025 | U | 0.46 | 0.003 | U |
| EP-23 | 02/04/98 | EPRI-9802-111 | GW | 1.45 | 7.42 | 7.70 | 6190 | 1.5 | 0.005 | U | 0.025 | U | 0.25 | J4 | 0.019 |
| EP-23 | 05/11/98 | EPRI-9805-111 | GW | 0.88 | 7.13 | 7.60 | 5500 | 5790 | 4.2 | 0.005 | U | 0.025 | U | 0.63 | 0.003 |
| EP-23 | 8/12/98 | EPRI-9808-111 | GW | 0.99 | 7.47 | 7.7 | 5620 | 5010 | 1.6 | 0.005 | U | 0.025 | U | 0.49 | 0.003 |
| EP-23 | 11/15/98 | EPRI-9811-111 | GW | 0.6 | 7.5 | 5790 | 4650 | 2.5 | J4 | 0.005 | U | 0.025 | U | 0.34 | J4 |
| EP-23 | 2/11/99 | EPRI-9902-111 | GW | 7.8 | 5470 | 5470 | 5470 | 0.81 | 0.005 | U | 0.010 | U | 0.025 | U | 0.33 |
| EP-23 | 5/7/99 | EPRI-9905-111 | GW | 0.9 | 7.41 | 7.8 | 4310 | 4420 | 1.9 | 0.005 | U | 0.010 | U | 0.26 | U |
| EP-23 D | 5/14/99 | EPRI-9905-111 | GW | 1.9 | 7.29 | 7.8 | 4190 | J3 | 4.9 | 0.005 | U | 0.010 | U | 0.34 | U |
| EP-23 | 08/04/99 | EPRI-9908-111 | GW | 7.49 | 7.8 | 3750 | 3840 | 8.8 | 0.005 | U | 0.01 | U | 0.025 | U | 0.49 |
| Average | | | | 1.08 | 7.40 | 7.69 | 5374 | 5394 | 3.271 | 0.005 | 0.010 | 0.025 | U | 0.011 | 0.020 |
| Median | | | | 0.95 | 7.42 | 7.7 | 5560 | 5010 | 2.500 | 0.005 | 0.010 | 0.025 | U | 0.010 | 0.020 |
| Standard Deviation | | | | 0.42 | 0.12 | 0.12 | 982 | 1247 | 2.349 | 0.000 | 0.000 | 0.000 | U | 0.143 | 0.008 |
| Minimum | | | | 0.60 | 7.13 | 7.50 | 3750 | 3840 | 0.810 | 0.005 | 0.010 | 0.025 | U | 0.003 | 0.020 |
| Maximum | | | | 1.90 | 7.51 | 7.80 | 6790 | 7190 | 8.800 | 0.005 | 0.010 | 0.025 | U | 0.650 | 0.045 |
| EP-24 | 08/15/97 | EPRI-9708-112 | GW | 1.13 | 6.70 | 8.00 | 5150 | 4660 | 0.47 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-24 | 11/18/97 | EPRI-9711-112 | GW | | 7.70 | 5940 | | 0.071 | 0.005 | U | 0.01 | U | 0.025 | U | 4.4 |
| EP-24 | 02/18/98 | EPRI-9802-112 | GW | 1.26 | 6.74 | 8.10 | 5130 | 5820 | 0.031 | J4 | 0.005 | U | 0.025 | U | 0.2 |
| EP-24 | 05/21/98 | EPRI-9805-112 | GW | 0.80 | 6.95 | 7.50 | 5380 | 999 | 0.38 | 0.005 | U | 0.01 | U | 0.12 | 0.81 |
| EP-24 | 8/24/98 | EPRI-9808-112 | GW | 0.501 | 6.79 | 7.3 | 5200 | 5000 | 0.060 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-24 | 11/16/98 | EPRI-9811-112 | GW | 0.6 | 6.93 | 7.7 | 5390 | 5220 | 0.062 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-24 | 2/11/99 | EPRI-9902-112 | GW | | | | | | 0.17 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-24 | 5/14/99 | EPRI-9905-112 | GW | | | | | | 0.097 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-24 | 08/10/99 | EPRI-9908-112 | GW | 0.6 | 7.05 | 7.8 | 5680 | 5640 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | 0.1 | U |
| Median | | | | | | | | | | | | | | 0.005 | U |
| Standard Deviation | | | | | | | | | | | | | | 0.02 | U |
| Minimum | | | | 0.31 | 0.14 | 0.26 | 430 | 1793 | 0.164 | 0.000 | 0.000 | 0.032 | U | 1.388 | 0.000 |
| Maximum | | | | | 0.50 | 6.70 | 5130 | 999 | 0.006 | 0.005 | 0.010 | 0.025 | U | 0.100 | 0.005 |
| EP-25 | 08/15/97 | EPRI-9708-113 | GW | 1.32 | 7.13 | 7.40 | 5990 | 5730 | 3 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-25 | 11/19/97 | EPRI-9711-113 | GW | | | 7.80 | 5470 | | 3.5 | 0.005 | U | 0.01 | U | 4.8 | 0.011 |
| EP-25 | 02/18/98 | EPRI-9802-113 | GW | | | | 7.60 | 5420 | 3.1 | 0.005 | U | 0.01 | U | 4 | J4 |
| EP-25 | 05/21/98 | EPRI-9805-113 | GW | | | | 7.50 | 5760 | 2.6 | 0.005 | U | 0.01 | U | 5.8 | 0.004 |
| EP-25 | 8/24/98 | EPRI-9808-113 | GW | | | | 7.2 | 5420 | 5.1 | 0.005 | U | 0.010 | U | 9.7 | 0.003 |
| EP-25 | 11/16/98 | EPRI-9811-113 | GW | | | | 7.5 | 5470 | 2.4 | 0.005 | U | 0.010 | U | 1.3 | 0.003 |
| EP-25 | 5/14/99 | EPRI-9905-113 | GW | | | | 7.0 | 7880 | 1.0 | 0.005 | U | 0.010 | U | 2.6 | 0.003 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) fld | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | | | | | |
|--------------------|----------|---------------|------|---------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|-------|-------|-------|------|
| EP-25 | 08/11/99 | EPR1-9908-113 | GW | 7.1 | 7210 | | 0.82 | 0.005 | U | 0.01 | U | 0.025 | U | 8 | 0.003 | U | 0.073 | 0.024 | UJ1 | | |
| Average | | | | 1.32 | 7.13 | 6078 | 5730 | 2.690 | 0.005 | 0.010 | 0.025 | 7.775 | 0.004 | 0.175 | | | | | | | |
| Median | | | | 1.32 | 7.13 | 5615 | 5730 | 2.800 | 0.005 | 0.010 | 0.025 | 5.300 | 0.003 | 0.076 | | | | | | | |
| Standard Deviation | | | | 0.27 | 944 | | 1.372 | 0.000 | 0.000 | 0.001 | 7.852 | 0.003 | 0.271 | | | | | | | | |
| Minimum | | | | 1.32 | 7.13 | 5420 | 5730 | 0.820 | 0.005 | 0.010 | 0.025 | 1.300 | 0.003 | 0.044 | | | | | 0.020 | | |
| Maximum | | | | 1.32 | 7.13 | 7880 | 5730 | 5.100 | 0.005 | 0.010 | 0.028 | 26.000 | 0.011 | 0.840 | | | | | 0.039 | | |
| EP-26 | 08/11/97 | EPR1-9708-114 | GW | 5.26 | 7.69 | 7.20 | 544 | 568 | 0.32 | 0.62 | 0.01 | U | 0.21 | 0.12 | 0.036 | 0.079 | | | 1.9 | | |
| EP-26 | 11/04/97 | EPR1-9711-114 | GW | 5.05 | 7.15 | 7.30 | 1700 | 1900 | 0.32 | 1.5 | 0.01 | U | 0.16 | 0.1 | U | 0.01 | 0.27 | | 4.2 | | |
| EP-26 | 02/04/98 | EPR1-9802-114 | GW | 5.74 | 7.58 | 7.40 | 202 | 239 | 0.58 | 0.18 | 0.01 | U | 0.042 | J4 | 0.1 | UJ | 0.01 | 0.05 | 0.56 | | |
| EP-26 | 05/07/98 | EPR1-9805-114 | GW | 6.30 | 7.64 | 7.00 | 141 | 170 | 0.45 | 0.18 | 0.01 | U | 0.025 | 0.1 | U | 0.007 | 0.059 | | 0.57 | | |
| EP-26 | 8/12/98 | EPR1-9808-114 | GW | 5.59 | 7.21 | 7.4 | 188 | 190 | 0.38 | 0.28 | 0.010 | U | 0.037 | 0.10 | U | 0.005 | 0.065 | | 1.2 | | |
| EP-26 | 11/4/98 | EPR1-9811-114 | GW | 5.7 | 7.99 | 6.4 | 412 | 448 | 0.28 | J4 | 0.44 | 0.010 | U | 0.026 | 0.10 | U | 0.003 | | 1.5 | | |
| EP-26 | 2/4/99 | EPR1-9902-114 | GW | 6.9 | 7.26 | 7.4 | 133 | 170 | 0.38 | J4 | 0.15 | 0.01 | U | 0.025 | U | 0.1 | U | 0.004 | 0.057 | 0.52 | |
| EP-26 | 5/5/99 | EPR1-9905-114 | GW | 2.1 | 7.02 | 7.3 | 362 | 4440 | R | 0.31 | 0.73 | 0.010 | U | 0.039 | 0.10 | U | 0.010 | | 0.23 | | |
| EP-26 | 08/04/99 | EPR1-9908-114 | GW | 7.07 | 7.4 | 2000 | 2200 | 0.23 | 3.5 | 0.01 | U | 0.082 | 0.1 | U | 0.015 | | | | 7.1 | | |
| Average | | | | 5.33 | 7.40 | 7.20 | 631 | 1147 | 0.361 | 0.842 | 0.010 | U | 0.072 | 0.102 | | 0.011 | 0.187 | | 2.206 | | |
| Median | | | | 5.65 | 7.26 | 7.3 | 362 | 448 | 0.320 | 0.440 | 0.010 | U | 0.039 | 0.100 | | 0.010 | 0.079 | | 1.500 | | |
| Standard Deviation | | | | 1.43 | 0.33 | 0.33 | 708 | 1457 | 0.104 | 1.084 | 0.000 | U | 0.068 | 0.007 | | 0.010 | 0.192 | | 2.173 | | |
| Minimum | | | | 2.10 | 7.02 | 6.40 | 133 | 170 | 0.230 | 0.150 | 0.010 | U | 0.025 | 0.100 | | 0.003 | 0.050 | | 0.520 | | |
| Maximum | | | | 6.90 | 7.99 | 7.40 | 2000 | 4440 | 0.580 | 3.500 | 0.010 | U | 0.210 | 0.120 | | 0.036 | 0.640 | | 7.100 | | |
| EP-29 | 08/07/97 | EPR1-9708-115 | GW | 2.77 | 7.41 | 8.00 | 3090 | 3110 | 0.31 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.2 | |
| EP-29 | 11/03/97 | EPR1-9711-115 | GW | 0.52 | 7.09 | 7.90 | 2960 | 3610 | 0.48 | 0.005 | U | 0.01 | U | 0.025 | U | 1.8 | | 0.003 | U | 0.12 | |
| EP-29 | 02/03/98 | EPR1-9802-115 | GW | 0.68 | 7.47 | 8.00 | 3100 | 3890 | 0.29 | 0.005 | U | 0.01 | U | 0.025 | J4 | 0.11 | J4 | 0.003 | U | 0.19 | |
| EP-29 | 05/06/98 | EPR1-9805-115 | GW | 4.14 | 7.59 | 8.00 | 3180 | 3470 | 0.21 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.16 | |
| EP-29 | 8/6/98 | EPR1-9808-115 | GW | 5.67 | 8.68 | 8.7 | 3070 | 3140 | 0.26 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.24 | |
| EP-29 | 11/4/98 | EPR1-9811-115 | GW | 5.2 | 8.42 | 8.5 | 3350 | 3150 | 0.31 | J4 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.22 |
| EP-29 | 2/3/99 | EPR1-9902-115 | GW | 4.1 | 8.06 | 8.1 | 3130 | 3410 | 0.26 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.15 | |
| EP-29 | 5/4/99 | EPR1-9905-115 | GW | 2.3 | 7.68 | 8.2 | 3160 | 3120 | 0.30 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.13 | |
| EP-29 D | 5/4/99 | EPR1-9905-177 | GW | 2.3 | 7.69 | 8.1 | 3140 | 3130 | 0.31 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.12 | |
| EP-29 | 08/02/99 | EPR1-9908-115 | GW | 3.5 | 7.59 | 7.8 | 3180 | 3220 | 0.26 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.12 | |
| Average | | | | 3.12 | 7.77 | 8.13 | 3136 | 3325 | 0.299 | 0.005 | U | 0.010 | U | 0.025 | | | | 0.271 | | 0.165 | |
| Median | | | | 3.14 | 7.655 | 8.05 | 3135 | 3185 | 0.295 | 0.005 | U | 0.010 | U | 0.025 | | | | 0.100 | | 0.155 | |
| Standard Deviation | | | | 1.74 | 0.48 | 0.28 | 99 | 265 | 0.071 | 0.000 | U | 0.000 | U | 0.537 | | | | 0.000 | | 0.045 | |
| Minimum | | | | 0.52 | 7.09 | 7.80 | 2960 | 3110 | 0.210 | 0.005 | U | 0.010 | U | 0.025 | | | | 0.100 | | 0.120 | |
| Maximum | | | | 5.67 | 8.68 | 8.70 | 3350 | 3890 | 0.480 | 0.005 | U | 0.010 | U | 1.800 | | | | 0.003 | | 0.240 | |
| EP-35 | 08/07/97 | EPR1-9708-116 | GW | 5.98 | 7.55 | 8.00 | 6530 | 6150 | 0.4 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 1.4 | |
| EP-35 | 11/03/97 | EPR1-9711-116 | GW | 1.75 | 6.92 | 7.50 | 6340 | 7420 | 0.4 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 6.7 | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| EP-35 | 02/03/98 | EPRI-9802-116 | GW | 2.11 | 6.99 | 7.60 | 6760 | 7940 | 0.37 | 0.005 | U | 0.025 | UJ4 | 0.1 | J4 |
| EP-35 | 05/06/98 | EPRI-9805-116 | GW | 2.47 | 7.15 | 7.20 | 6530 | 6950 | 0.62 | 0.005 | U | 0.025 | U | 0.1 | U |
| EP-35 | 8/6/98 | EPRI-9808-116 | GW | 1.89 | 6.91 | 7.6 | 6300 | 5300 | 0.26 | 0.005 | U | 0.010 | U | 0.10 | U |
| EP-35 | 11/4/98 | EPRI-9811-116 | GW | 1.9 | 7.11 | 7.2 | 6220 | 6100 | 0.59 | J4 | 0.005 | U | 0.025 | U | 0.10 |
| EP-35 | 2/4/99 | EPRI-9902-116 | GW | 3.8 | 7.03 | 7.4 | 6410 | 6140 | 0.51 | J4 | 0.005 | U | 0.025 | U | 0.1 |
| EP-35 | 5/4/99 | EPRI-9905-116 | GW | 1.9 | 6.98 | 7.4 | 6810 | 6730 | 0.58 | 0.005 | U | 0.010 | U | 0.10 | U |
| EP-35 | 08/02/99 | EPRI-9908-116 | GW | 2.9 | 6.92 | 7.1 | 6920 | 7000 | 0.82 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 2.74 | 7.06 | 7.44 | 6536 | 6637 | 0.506 | 0.005 | U | 0.010 | U | 0.100 | U |
| Median | | | | 2.11 | 6.99 | 7.4 | 6530 | 6730 | 0.510 | 0.005 | U | 0.010 | U | 0.025 | U |
| Standard Deviation | | | | 1.38 | 0.20 | 0.27 | 246 | 799 | 0.168 | 0.000 | U | 0.000 | U | 0.000 | U |
| Minimum | | | | 1.75 | 6.91 | 7.10 | 6220 | 5300 | 0.260 | 0.005 | U | 0.010 | U | 0.025 | U |
| Maximum | | | | 5.98 | 7.55 | 8.00 | 6920 | 7940 | 0.820 | 0.005 | U | 0.010 | U | 0.100 | U |
| EP-43 | 11/03/97 | EPRI-9711-172 | GW | 0.52 | 7.31 | 7.60 | 4950 | 5830 | 0.78 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-43 | 02/03/98 | EPRI-9802-175 | GW | 0.03 | 7.09 | 7.50 | 9590 | 11980 | 1.2 | 0.005 | U | 0.01 | U | 0.025 | UJ4 |
| EP-43 | 05/20/98 | EPRI-9805-175 | GW | 1.50 | 7.07 | 7.50 | 4930 | 4480 | 0.72 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-43 | 8/27/98 | EPRI-9808-175 | GW | 1.01 | 6.94 | 7.3 | 4720 | 4780 | 0.78 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-43 | 11/16/98 | EPRI-9811-175 | GW | | | 7.2 | 5650 | | 7.0 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-43 | 2/25/99 | EPRI-9902-176 | GW | | | 7.8 | 7140 | | 1.3 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-43 D | 2/25/99 | EPRI-9902-196 | GW | | | 7.7 | 7090 | | 1.1 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-43 | 5/14/99 | EPRI-9905-117 | GW | | | 7.4 | 8600 | J3 | 0.37 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-43 | 08/11/99 | EPRI-9908-117 | GW | 2 | 7.57 | 7.5 | 8070 | 6880 | 0.33 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-43 D | 08/11/99 | EPRI-9908-206 | GW | 1.3 | 7.61 | 7.5 | 8060 | 6890 | 0.32 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 1.06 | 7.27 | 7.50 | 6880 | 6807 | 1.390 | 0.005 | U | 0.010 | U | 0.025 | U |
| Median | | | | 1.16 | 7.2 | 7.5 | 7115 | 6355 | 0.780 | 0.005 | U | 0.010 | U | 0.025 | U |
| Standard Deviation | | | | 0.71 | 0.28 | 0.18 | 1730 | 2729 | 2.003 | 0.000 | U | 0.000 | U | 2.609 | 0.000 |
| Minimum | | | | 0.03 | 6.94 | 7.20 | 4720 | 4480 | 0.320 | 0.005 | U | 0.010 | U | 0.025 | 0.150 |
| Maximum | | | | 2.00 | 7.61 | 7.80 | 9590 | 11980 | 7.000 | 0.005 | U | 0.010 | U | 9.000 | 0.004 |
| EP-49 | 11/19/97 | EPRI-9711-117 | GW | | | 3.50 | 11740 | | 207 | 43 | 0.24 | 5.1 | 1732 | 0.11 | 0.11 |
| EP-49 | 02/19/98 | EPRI-9802-117 | GW | | | 4.00 | 11440 | | 464 | 43 | 0.047 | 0.089 | 2381 | 0.014 | 0.14 |
| EP-49 | 05/21/98 | EPRI-9805-117 | GW | | | 3.60 | 10920 | | 274 | 43 | 0.1 | 0.004 | 1609 | 0.004 | 0.19 |
| EP-49 | 8/27/98 | EPRI-9808-117 | GW | 5.3 | 3.8 | 11000 | | | 417 | 40 | 0.050 | U | 1833 | 0.048 | 0.10 |
| EP-49 | 11/16/98 | EPRI-9811-117 | GW | | | 3.7 | 10800 | | 294 | 38 | 0.037 | 0.025 | 1541 | 0.003 | 0.10 |
| EP-49 | 2/25/99 | EPRI-9902-117 | GW | | | 4.5 | 12320 | | 320 | 26 | 0.050 | U | 1266 | 0.003 | 0.25 |
| EP-49 | 5/14/99 | EPRI-9905-118 | GW | | | 4.2 | 10570 | J3 | 0.302 | 29 | 0.011 | 0.031 | 1548 | 0.005 | 0.12 |
| Average | | | | 5.30 | 3.90 | 11256 | | | 282.3 | 37.4 | 0.076 | 0.768 | 1701 | 0.027 | 0.144 |
| Median | | | | 5.3 | 3.8 | 11000 | | | 294.0 | 40.0 | 0.050 | 0.031 | 1609 | 0.005 | 0.120 |
| Standard Deviation | | | | | | 0.36 | 613 | | 151.6 | 7.1 | 0.077 | 1.911 | 348 | 0.040 | 0.056 |
| Minimum | | | | | | 5.30 | 3.50 | 10570 | 0.302 | 26.0 | 0.011 | 0.004 | 1266 | 0.003 | 0.100 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | |
|--------------------|----------|---------------|------|-----------|----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|---|
| Maximum | | | | 5.30 | 4.50 | 12320 | | | 464.0 | 43.0 | 0.240 | 5.100 | 2381 | 0.110 | 0.250 | 1900.0 | |
| EP-51 | 08/26/97 | EPRI-9708-118 | GW | 9.4 | 7.25 | 7.30 | 11800 | 10630 | 0.033 | 0.034 | 0.029 | 0.076 | 1.4 | 0.003 | U | 0.22 | |
| EP-51 | 11/06/97 | EPRI-9711-118 | GW | 2.35 | 6.58 | 7.30 | 11670 | 12140 | 0.29 | 0.18 | 0.031 | 0.19 | 2.2 | 0.003 | U | 0.16 | |
| EP-51 D | 11/06/97 | EPRI-9711-174 | GW | | 7.20 | 11440 | | | 0.28 | 0.21 | 0.022 | 0.19 | 2.2 | 0.003 | U | 0.19 | |
| EP-51 | 02/12/98 | EPRI-9802-118 | GW | 0.03 | 5.85 | 6.90 | 11070 | 13050 | 10 | 3.9 | 0.01 | U | 5.6 | 1.8 | 0.003 | U | |
| EP-51 | 05/11/98 | EPRI-9805-118 | GW | 1.42 | 6.29 | 8.20 | 11800 | 9890 | 0.26 | 0.15 | 0.01 | U | 0.44 | 0.54 | 0.003 | U | |
| EP-51 | 8/12/98 | EPRI-9808-118 | GW | 3.59 | 6.71 | 7.2 | 10080 | 9720 | 0.25 | 0.076 | 0.010 | U | 0.30 | 0.98 | 0.003 | U | |
| EP-51 | 11/5/98 | EPRI-9811-118 | GW | 1 | 6.67 | 6.8 | 9840 | 8180 | 0.079 | J4 | 0.062 | 0.013 | 0.26 | 2.0 | 0.003 | U | |
| EP-51 D | 11/5/98 | EPRI-9811-178 | | 6.9 | 9820 | | 0.11 | J4 | 0.061 | 0.014 | 0.24 | 2.0 | 0.003 | U | 0.25 | 0.96 | |
| EP-51 | 2/9/99 | EPRI-9902-118 | GW | 2.1 | 6.86 | 7.4 | 9060 | 8760 | 0.12 | 0.078 | 0.017 | 0.094 | 3.2 | J4 | 0.003 | U | |
| EP-51 D | 2/9/99 | EPRI-9902-183 | GW | 2.1 | 6.87 | 7.4 | 9140 | 8780 | 0.11 | 0.075 | 0.016 | 0.077 | 2.6 | J4 | 0.003 | U | |
| EP-51 | 5/6/99 | EPRI-9905-119 | GW | 1.2 | 6.63 | 7.3 | 9870 | 9760 | 0.3 | 0.049 | 0.010 | U | 0.098 | 1.5 | 0.003 | U | |
| EP-51 | 08/04/99 | EPRI-9908-119 | GW | | 6.87 | 7.2 | 11040 | 9560 | 0.44 | 0.034 | 0.01 | U | 0.049 | 0.1 | U | 0.003 | |
| EP-51 D | 08/04/99 | EPRI-9908-196 | GW | | 6.88 | 7.2 | 11020 | 9570 | 0.46 | 0.033 | 0.01 | U | 0.047 | 0.1 | U | 0.003 | |
| Average | | | | 2.58 | 6.68 | 7.25 | 10588 | 10004 | 0.979 | 0.380 | 0.016 | 0.589 | 1.586 | 0.003 | 0.215 | 6,120 | |
| Median | | | | 2.10 | 6.71 | 7.2 | 11020 | 9720 | 0.260 | 0.075 | 0.013 | 0.190 | 1.800 | 0.003 | 0.230 | 1,000 | |
| Standard Deviation | | | | 2.75 | 0.36 | 0.34 | 992 | 1454 | 2.714 | 1.059 | 0.007 | 1.510 | 0.944 | 0.000 | 0.039 | 16,558 | |
| Minimum | | | | 0.03 | 5.85 | 6.80 | 9060 | 8180 | 0.033 | 0.033 | 0.010 | 0.047 | 0.100 | 0.003 | 0.130 | 0,340 | |
| Maximum | | | | 9.40 | 7.25 | 8.20 | 11800 | 15050 | 10,000 | 3,900 | 0.031 | 5.600 | 3,200 | 0.003 | 0.250 | 61,000 | |
| EP-52 | 11/06/97 | EPRI-9711-173 | GW | | 6.10 | 7.10 | 9750 | 11000 | 0.97 | 0.64 | 0.017 | 0.53 | 0.55 | 0.044 | 0.36 | 2.6 | |
| EP-52 | 02/12/98 | EPRI-9802-176 | GW | 2 | 6.03 | 6.90 | 10870 | 13320 | 1.6 | 0.71 | 0.01 | U | 0.45 | 0.55 | 0.043 | 0.3 | |
| EP-52 | 8/12/98 | EPRI-9808-176 | GW | 3.33 | 6.17 | 7.0 | 10580 | 10850 | 1.6 | 0.56 | 0.010 | U | 0.69 | 0.10 | U | 0.050 | |
| EP-52 D | 8/12/98 | EPRI-9808-182 | GW | | 7.1 | 10560 | | | 1.7 | 0.59 | 0.010 | U | 0.70 | 0.10 | U | 0.051 | |
| EP-52 | 11/5/98 | EPRI-9811-176 | GW | 2.3 | 6.28 | 6.6 | 11100 | 9710 | 1.7 | J4 | 0.60 | 0.010 | U | 0.59 | 0.10 | U | |
| EP-52 | 2/9/99 | EPRI-9902-119 | GW | 4.9 | 6.38 | 7.1 | 11150 | 11040 | 0.23 | 0.59 | 0.032 | 0.41 | 1.7 | J4 | 0.021 | 0.25 | |
| EP-52 | 5/6/99 | EPRI-9905-120 | GW | 1.7 | 6.2 | 7.3 | 11250 | 11880 | 0.81 | 1.9 | 0.057 | 0.35 | 2.5 | 0.031 | 0.38 | 3.1 | |
| EP-52 | 08/05/99 | EPRI-9908-120 | GW | 0.7 | 6.21 | 7.2 | 11190 | 12290 | 1 | 0.51 | 0.024 | 0.36 | 0.59 | 0.041 | 0.28 | 2.1 | |
| Average | | | | 2.49 | 6.20 | 7.04 | 10806 | 111441 | 1,201 | 0.763 | 0.021 | 0.510 | 0.774 | 0.051 | 0.328 | 2,950 | |
| Median | | | | 2.15 | 6.2 | 7.1 | 10985 | 11040 | 1,300 | 0.595 | 0.014 | 0.490 | 0.550 | 0.044 | 0.345 | 2,850 | |
| Standard Deviation | | | | 1.46 | 0.11 | 0.21 | 504 | 1165 | 0.535 | 0.463 | 0.017 | 0.140 | 0.873 | 0.033 | 0.046 | 0,578 | |
| Minimum | | | | 0.70 | 6.03 | 6.60 | 9750 | 9710 | 0.230 | 0.510 | 0.010 | 0.350 | 0.100 | 0.021 | 0.250 | 2,100 | |
| Maximum | | | | 4.90 | 6.38 | 7.30 | 11250 | 13320 | 1,700 | 1,900 | 0.057 | 0.700 | 2,500 | 0.130 | 0.380 | 3,900 | |
| EP-53 | 08/11/97 | EPRI-9708-172 | GW | 7.74 | 6.58 | 7.20 | 7790 | 7300 | 51 | 1.3 | 0.01 | U | 0.025 | U | 0.1 | 0.003 | |
| EP-53 | 02/04/98 | EPRI-9802-178 | GW | 1.43 | 6.43 | 7.00 | 7590 | 9580 | 63 | 1.4 | 0.01 | U | 0.032 | J4 | 0.1 | 0.003 | |
| EP-53 | 8/12/98 | EPRI-9808-178 | GW | 0.99 | 6.66 | 7.2 | 7550 | 5010 | 62 | 1.4 | 0.010 | U | 0.025 | U | 0.10 | U | |
| EP-53 | 11/5/98 | EPRI-9811-179 | GW | 1.1 | 7.08 | 6.8 | 7980 | 6540 | 56 | 14 | 1.6 | 0.010 | U | 0.025 | U | 0.10 | U |
| EP-53 | 2/4/99 | EPRI-9902-120 | GW | 1.8 | 6.44 | 7.1 | 7040 | 7780 | 55 | 1.7 | 0.010 | U | 0.025 | U | 0.1 | U | |
| EP-53 | 5/5/99 | EPRI-9905-121 | GW | 1.6 | 6.63 | 7.3 | 7120 | 15650 | 54 | 1.4 | 0.010 | U | 0.025 | U | 0.10 | U | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (lab) | Specific Conductivity SC (fld) | Specific Conductivity SC (lab) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | | | | |
|--------------------|----------|----------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|---------|--------|-------|-------|----|
| EP-53 | 08/04/99 | EPRI-9908-121 | GW | 6.85 | 7.1 | 7190 | 7240 | 44 | 0.46 | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.75 | 1.2 | |
| Average | | | | 2.44 | 6.67 | 7.10 | 7466 | 8443 | 55,000 | 1,323 | 0.010 | 0.026 | 0.100 | 0.003 | 1,273 | 4,157 | | | | |
| Median | | | | 1.52 | 6.63 | 7.1 | 7550 | 7300 | 55,000 | 1,400 | 0.010 | 0.025 | 0.100 | 0.003 | 1,200 | 4,500 | | | | |
| Standard Deviation | | | | 2.61 | 0.23 | 0.16 | 358 | 3460 | 6,481 | 0.405 | 0.000 | 0.003 | 0.000 | 0.000 | 0.465 | 1,464 | | | | |
| Minimum | | | | 0.99 | 6.43 | 6.80 | 7040 | 5010 | 44,000 | 0.460 | 0.010 | 0.025 | 0.100 | 0.003 | 0.750 | 1,200 | | | | |
| Maximum | | | | 7.74 | 7.08 | 7.30 | 7980 | 15650 | 63,000 | 1,700 | 0.010 | 0.032 | 0.100 | 0.003 | 2,000 | 5,700 | | | | |
| EP-54 | 08/11/97 | EPRI-9708-119A | GW | 1.64 | 6.06 | | 10470 | | | | | | | | | | | | | |
| EP-54 D | 08/26/97 | EPRI-9708-119 | GW | 6.60 | 6.90 | 11340 | 1980 | 22 | 5.7 | 0.01 | U | 0.18 | 13 | 0.003 | U | 0.075 | 113 | | | |
| EP-54 | 11/06/97 | EPRI-9711-119 | GW | 2.51 | 6.14 | 6.80 | 10750 | 12010 | 29 | 4.5 | 0.01 | U | 0.57 | 14 | 0.003 | U | 0.071 | 94 | | |
| EP-54 | 02/12/98 | EPRI-9802-119 | GW | 1.94 | 5.98 | 7.40 | 10100 | 11060 | 27 | 2 | 0.01 | U | 0.21 | 2.3 | 0.003 | U | 0.065 | 41 | | |
| EP-54 | 05/11/98 | EPRI-9805-119 | GW | 1.93 | 6.20 | 7.10 | 9780 | 11910 | 50 | 1.5 | 0.01 | U | 0.12 | 3.4 | 0.011 | 0.082 | 32 | | | |
| EP-54 | 8/12/98 | EPRI-9808-119 | GW | 3.35 | 6.31 | 7.2 | 10200 | 11320 | 59 | 0.84 | 0.010 | U | 0.060 | 2.1 | 0.035 | 0.065 | 17 | | | |
| EP-54 | 11/15/98 | EPRI-9811-119 | GW | 5.8 | 6.48 | 6.7 | 10680 | 9280 | 50 | 14 | 0.7 | 0.010 | U | 0.086 | 0.24 | J4 | 0.007 | 12 | | |
| EP-54 | 2/9/99 | EPRI-9902-121 | GW | 5.7 | 6.6 | 7.4 | 10500 | 10150 | 50 | 0.55 | 0.010 | U | 0.066 | 0.36 | J4 | 0.004 | 0.098 | 10 | | |
| EP-54 | 5/6/99 | EPRI-9905-122 | GW | 5.9 | 6.35 | 7.1 | 9540 | 11490 | 56 | 0.53 | 0.010 | U | 0.059 | 0.22 | 0.005 | 0.070 | 9.2 | | | |
| EP-54 D | 5/7/99 | EPRI-9905-122 | GW | 2.6 | 6.43 | 7.7 | 8980 | 9300 | 47 | 0.47 | 0.010 | U | 0.089 | 0.1 | U | 0.003 | U | 0.11 | 8.0 | |
| EP-54 | 08/04/99 | EPRI-9908-122 | GW | 6.37 | 7 | 11000 | 11260 | 50 | 0.49 | 0.01 | U | 0.1 | 0.16 | 0.003 | U | 0.17 | 9.8 | | | |
| Average | | | | 3.49 | 6.32 | 7.13 | 10287 | 10021 | 44,000 | 1,728 | 0.010 | 0.154 | | 3.588 | 0.008 | 0.092 | 34,600 | | | |
| Median | | | | 2.60 | 6.35 | 7.1 | 10350 | 11060 | 50,000 | 0.770 | 0.010 | 0.095 | 1,230 | 0.004 | 0.079 | 14,500 | | | | |
| Standard Deviation | | | | 1.80 | 0.21 | 0.31 | 715 | 2827 | 12,996 | 1,867 | 0.000 | 0.155 | 5,352 | 0.010 | 0.033 | 38,175 | | | | |
| Minimum | | | | 1.64 | 5.98 | 6.70 | 8980 | 1980 | 22,000 | 0.470 | 0.010 | 0.059 | 0.100 | 0.003 | 0.065 | 8,000 | | | | |
| Maximum | | | | 5.90 | 6.60 | 7.70 | 11340 | 12010 | 59,000 | 5,700 | 0.010 | 0.570 | 14,000 | 0.035 | 0.170 | 113,000 | | | | |
| EP-55 | 08/15/97 | EPRI-9708-120 | GW | 1.85 | 6.17 | 7.00 | 10550 | 10700 | 62 | 0.13 | 0.01 | U | 0.025 | U | 229 | 0.02 | 0.28 | 200 | | |
| EP-55 | 11/19/97 | EPRI-9711-120 | GW | 2.12 | 6.25 | 6.90 | 10480 | 12860 | 59 | 0.043 | 0.01 | U | 0.025 | U | 130 | 0.003 | U | 0.24 | 82 | |
| EP-55 | 02/12/98 | EPRI-9802-120 | GW | 1.21 | 5.95 | 6.90 | 10510 | 14030 | 57 | 0.042 | 0.01 | U | 0.025 | U | 99 | 0.003 | U | 0.19 | 71 | |
| EP-55 | 05/20/98 | EPRI-9805-120 | GW | 1.93 | 6.06 | 6.70 | 10280 | 10320 | 56 | 0.013 | 0.01 | U | 0.025 | U | 84 | 0.004 | U | 0.18 | 43 | |
| EP-55 | 8/27/98 | EPRI-9808-120 | GW | 0.94 | 6.15 | 6.4 | 9980 | 10020 | 61 | 0.008 | 0.010 | U | 0.025 | U | 77 | 0.003 | U | 0.068 | 35 | |
| EP-55 | 11/16/98 | EPRI-9811-120 | GW | 1.7 | 6.24 | 6.5 | 9940 | 9850 | 40 | 0.005 | U | 0.010 | U | 0.025 | 71 | 0.003 | U | 0.10 | U | |
| EP-55 | 2/11/99 | EPRI-9902-122 | GW | 0.9 | 6.31 | 6.7 | 10240 | 10350 | 55 | 0.005 | U | 0.010 | U | 0.025 | U | 95 | 0.003 | U | 0.079 | 41 |
| EP-55 | 5/14/99 | EPRI-9905-123 | GW | 1 | 6.25 | 7.1 | 10510 | 10850 | 26 | 0.005 | U | 0.010 | U | 0.025 | U | 52 | 0.003 | U | 0.10 | J4 |
| EP-55 | 08/10/99 | EPRI-9908-123 | GW | 0.5 | 6.33 | 6.9 | 10470 | 10550 | 25 | 0.005 | U | 0.01 | U | 0.025 | U | 35 | 0.003 | U | 0.026 | 12 |
| Average | | | | 1.35 | 6.19 | 6.79 | 10329 | 11059 | 49,000 | 0.028 | 0.010 | 0.025 | 96,889 | 0.005 | 0.140 | 59,000 | | | | |
| Median | | | | 1.21 | 6.24 | 6.9 | 10470 | 10550 | 56,000 | 0.008 | 0.010 | 0.025 | 84,000 | 0.003 | 0.100 | 41,000 | | | | |
| Standard Deviation | | | | 0.56 | 0.12 | 0.23 | 235 | 1418 | 14,782 | 0.041 | 0.000 | 0.000 | 56,607 | 0.006 | 0.086 | 57,515 | | | | |
| Minimum | | | | 0.50 | 5.95 | 6.40 | 9940 | 9850 | 25,000 | 0.005 | 0.010 | 0.025 | 35,000 | 0.003 | 0.026 | 12,000 | | | | |
| Maximum | | | | 2.12 | 6.33 | 7.10 | 10550 | 14030 | 62,000 | 0.130 | 0.010 | 0.025 | 229,000 | 0.020 | 0.280 | 200,000 | | | | |
| EP-56 | 08/11/97 | EPRI-9708-121A | GW | 2.51 | 7.34 | | | | | | | | | | | | | | | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999

Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (flnd) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|---------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| EP-56 D | 08/26/97 | EPRI-9708-121 | GW | 7.25 | 7.60 | 5600 | 1063 | 1.9 | 0.004 | 0.01 | U | 0.025 | U | 0.1 | U |
| EP-56 | 11/04/97 | EPRI-9711-121 | GW | 0.77 | 7.12 | 7.60 | 5520 | 5930 | 2.9 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-56 | 02/04/98 | EPRI-9802-121 | GW | 1.81 | 7.14 | 7.80 | 5520 | 6620 | 2.2 | 0.005 | U | 0.01 | U | 0.027 | J4 |
| EP-56 | 05/07/98 | EPRI-9805-121 | GW | 1.08 | 7.03 | 7.60 | 5500 | 7170 | 1.9 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-56 | 8/12/98 | EPRI-9808-121 | GW | 0.98 | 7.15 | 7.6 | 5520 | 5600 | 1.5 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-56 | 11/14/98 | EPRI-9811-121 | GW | 1.2 | 6.38 | 7.3 | 5600 | 7230 | 1.0 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-56 | 2/4/99 | EPRI-9902-123 | GW | 1 | 7.23 | 7.6 | 5600 | 6130 | 0.74 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-56 D | 2/4/99 | EPRI-9902-179 | GW | 1 | 7.24 | 8.2 | 5640 | 6140 | 1.3 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-56 | 5/4/99 | EPRI-9905-124 | GW | 1.9 | 7.13 | 7.6 | 5580 | 5850 | 1.3 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-56 | 08/04/99 | EPRI-9908-124 | GW | 7.17 | 7.5 | 5390 | 5460 | 2.8 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-57 | 08/16/97 | EPRI-9708-122 | GW | 1 | 7.30 | 7.90 | 3330 | 3370 | 1.1 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-57 | 11/14/97 | EPRI-9711-122 | GW | 1.72 | 7.01 | 7.40 | 3070 | 3500 | 0.97 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-57 | 02/18/98 | EPRI-9802-122 | GW | 0.78 | 7.01 | 7.50 | 2900 | 3530 | 0.98 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-57 | 05/18/98 | EPRI-9805-122 | GW | 1.01 | 7.18 | 7.50 | 2610 | 2440 | 0.79 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-57 | 8/24/98 | EPRI-9808-122 | GW | 0.23 | 7.01 | 7.7 | 3250 | 2840 | 0.60 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-57 | 11/16/98 | EPRI-9811-122 | GW | 0.3 | 7.07 | 7.6 | 2070 | 1913 | 0.52 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-57 | 2/24/99 | EPRI-9902-124 | GW | 0.2 | 7.15 | 7.7 | 3020 | 3460 | 0.56 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-57 | 5/13/99 | EPRI-9905-125 | GW | 0.6 | 7.11 | 7.8 | 2340 | 2120 | 0.35 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-57 | 08/09/99 | EPRI-9908-125 | GW | 0.3 | 7.07 | 7.6 | 2670 | 2560 | 0.25 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-58 | 08/16/97 | EPRI-9708-123 | GW | 0.24 | 6.54 | 6.90 | 11230 | 11340 | 1.4 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-58 | 11/14/97 | EPRI-9711-123 | GW | 0.84 | 6.54 | 6.90 | 11480 | 14130 | 4.8 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-58 | 02/18/98 | EPRI-9802-123 | GW | 0.79 | 6.38 | 6.80 | 11510 | 13740 | 4.2 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-58 | 05/18/98 | EPRI-9805-123 | GW | 0.43 | 6.35 | 6.80 | 11500 | 11490 | 4.5 | 0.005 | U | 0.011 | U | 0.025 | J4 |
| EP-58 | 8/24/98 | EPRI-9808-123 | GW | 0.8 | 6.4 | 7.0 | 2070 | 11680 | 4.1 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-58 | 11/16/98 | EPRI-9811-123 | GW | 1.3 | 6.39 | 7.2 | 11580 | 11290 | 3.7 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-58 | 2/24/99 | EPRI-9902-125 | GW | 1 | 6.53 | 7.8 | 11510 | 13950 | 3.7 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-58 | 5/13/99 | EPRI-9905-126 | GW | 0.9 | 6.38 | 7.2 | 11660 | 10990 | 5.1 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-58 | 08/10/99 | EPRI-9908-126 | GW | 0.5 | 6.49 | 8 | 11590 | 11610 | 4.1 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-58 | 08/16/97 | EPRI-9708-123 | GW | 0.45 | 7.07 | 7.6 | 2785 | 2700 | 0.580 | 0.005 | U | 0.010 | U | 0.025 | 0.186 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.025 | 0.023 |
| EP-58 | 1.72 | 7.18 | 7.80 | 3250 | 3530 | 0.980 | 0.005 | 0.010 | 0.025 | 0.025 | 0.0280 | 0.003 | 0.003 | 0.040 | 0.022 |
| EP-58 | 0.45 | 7.08 | 7.60 | 2741 | 2795 | 0.628 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.088 | 0.020 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.023 | 0.020 |
| EP-58 | 1.72 | 7.18 | 7.80 | 3250 | 3530 | 0.980 | 0.005 | 0.010 | 0.025 | 0.025 | 0.0280 | 0.003 | 0.003 | 0.040 | 0.022 |
| EP-58 | 0.45 | 7.07 | 7.6 | 2785 | 2700 | 0.580 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.088 | 0.020 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.023 | 0.020 |
| EP-58 | 1.72 | 7.18 | 7.80 | 3250 | 3530 | 0.980 | 0.005 | 0.010 | 0.025 | 0.025 | 0.0280 | 0.003 | 0.003 | 0.040 | 0.022 |
| EP-58 | 0.45 | 7.07 | 7.6 | 2785 | 2700 | 0.580 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.088 | 0.020 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.023 | 0.020 |
| EP-58 | 1.72 | 7.18 | 7.80 | 3250 | 3530 | 0.980 | 0.005 | 0.010 | 0.025 | 0.025 | 0.0280 | 0.003 | 0.003 | 0.040 | 0.022 |
| EP-58 | 0.45 | 7.07 | 7.6 | 2785 | 2700 | 0.580 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.088 | 0.020 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.023 | 0.020 |
| EP-58 | 1.72 | 7.18 | 7.80 | 3250 | 3530 | 0.980 | 0.005 | 0.010 | 0.025 | 0.025 | 0.0280 | 0.003 | 0.003 | 0.040 | 0.022 |
| EP-58 | 0.45 | 7.07 | 7.6 | 2785 | 2700 | 0.580 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.088 | 0.020 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.023 | 0.020 |
| EP-58 | 1.72 | 7.18 | 7.80 | 3250 | 3530 | 0.980 | 0.005 | 0.010 | 0.025 | 0.025 | 0.0280 | 0.003 | 0.003 | 0.040 | 0.022 |
| EP-58 | 0.45 | 7.07 | 7.6 | 2785 | 2700 | 0.580 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.088 | 0.020 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.023 | 0.020 |
| EP-58 | 1.72 | 7.18 | 7.80 | 3250 | 3530 | 0.980 | 0.005 | 0.010 | 0.025 | 0.025 | 0.0280 | 0.003 | 0.003 | 0.040 | 0.022 |
| EP-58 | 0.45 | 7.07 | 7.6 | 2785 | 2700 | 0.580 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.088 | 0.020 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.023 | 0.020 |
| EP-58 | 1.72 | 7.18 | 7.80 | 3250 | 3530 | 0.980 | 0.005 | 0.010 | 0.025 | 0.025 | 0.0280 | 0.003 | 0.003 | 0.040 | 0.022 |
| EP-58 | 0.45 | 7.07 | 7.6 | 2785 | 2700 | 0.580 | 0.005 | 0.010 | 0.025 | 0.025 | 0.025 | 0.003 | 0.003 | 0.088 | 0.020 |
| EP-58 | 0.52 | 0.07 | 0.13 | 397 | 643 | 0.268 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.005 |
| EP-58 | 0.20 | 7.01 | 7.40 | 2070 | 1913 | 0.250 | 0.005 | 0.010 | | | | | | | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| Average | | | | 0.76 | 6.44 | 7.18 | 11518 | 12147 | 3.956 | 0.005 | 0.010 | 0.025 | 1.277 | 0.003 | 0.046 |
| Median | | | | 0.80 | 6.4 | 7 | 11510 | 11610 | 4.100 | 0.005 | 0.010 | 0.025 | 1.000 | 0.003 | 0.034 |
| Standard Deviation | | | | 0.32 | 0.08 | 0.44 | 123 | 1426 | 1.065 | 0.000 | 0.000 | 0.600 | 0.000 | 0.043 | 0.020 |
| Minimum | | | | 0.24 | 6.35 | 6.80 | 11230 | 10090 | 1.400 | 0.005 | 0.010 | 0.025 | 0.900 | 0.003 | 0.019 |
| Maximum | | | | 1.30 | 6.54 | 8.00 | 11660 | 14130 | 5.100 | 0.005 | 0.011 | 0.025 | 2.700 | 0.003 | 0.160 |
| EP-59 | 08/09/97 | EPRI-9708-124 | GW | 2.08 | 6.98 | 7.70 | 4780 | 4750 | 3.6 | 0.005 | U | 0.01 | U | 0.003 | U |
| EP-59 | 11/05/97 | EPRI-9711-124 | GW | 0.2 | 7.23 | 7.60 | 4660 | 5340 | 3.8 | 0.005 | U | 0.01 | U | 0.003 | U |
| EP-59 | 02/05/98 | EPRI-9802-124 | GW | 1.06 | 7.09 | 7.30 | 4640 | 5630 | 3.4 | 0.005 | U | 0.01 | U | 0.003 | U |
| EP-59 | 05/08/98 | EPRI-9805-124 | GW | 1.33 | 7.13 | 7.70 | 4800 | 5600 | 3.1 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-59 | 8/10/98 | EPRI-9808-124 | GW | 1.75 | 7.09 | 7.4 | 4850 | 4750 | 3.2 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-59 D | 8/10/98 | EPRI-9808-184 | GW | | | 7.4 | 4850 | | 3.2 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-59 | 11/09/98 | EPRI-9811-124 | GW | 2.7 | 7.04 | 7.4 | 4980 | 4980 | 2.9 | 0.007 | U | 0.010 | U | 0.025 | U |
| EP-59 | 2/10/99 | EPRI-9902-126 | GW | 0.7 | 7.13 | 7.6 | 5260 | 5320 | 2.6 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-59 D | 2/10/99 | EPRI-9902-185 | GW | 0.7 | 7.14 | 8.3 | 5270 | 5230 | 2.6 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-59 | 5/6/99 | EPRI-9905-127 | GW | 0.8 | 7.01 | 7.4 | 5060 | 5400 | 3.1 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-59 | 08/03/99 | EPRI-9908-127 | GW | 0.4 | 7.18 | 7.4 | 4920 | 4950 | 2.8 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 1.17 | 7.10 | 7.56 | 4915 | 5195 | 3.118 | 0.005 | U | 0.010 | U | 0.025 | U |
| Median | | | | 0.93 | 7.11 | 7.4 | 4850 | 5275 | 3.100 | 0.005 | U | 0.010 | U | 0.025 | U |
| Standard Deviation | | | | 0.79 | 0.08 | 0.28 | 212 | 322 | 0.384 | 0.001 | U | 0.000 | U | 0.003 | U |
| Minimum | | | | 0.20 | 6.98 | 7.30 | 4640 | 4750 | 2.600 | 0.005 | U | 0.010 | U | 0.025 | U |
| Maximum | | | | 2.70 | 7.23 | 8.30 | 5270 | 5630 | 3.800 | 0.007 | U | 0.010 | U | 0.025 | U |
| EP-60 | 08/08/97 | EPRI-9708-125 | GW | 2.44 | 6.98 | 7.50 | 9140 | 8840 | 0.007 | 0.005 | U | 0.011 | U | 0.025 | U |
| EP-60 | 11/05/97 | EPRI-9711-125 | GW | 0.16 | 6.99 | 7.50 | 8560 | 9660 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 |
| EP-60 | 02/05/98 | EPRI-9802-125 | GW | 1.7 | 6.95 | 7.30 | 8780 | 10210 | 0.009 | 0.005 | U | 0.01 | U | 0.034 | U |
| EP-60 | 05/08/98 | EPRI-9805-125 | GW | 1.23 | 7.24 | 7.60 | 8880 | 9880 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-60 | 8/10/98 | EPRI-9808-125 | GW | 3.77 | 7.06 | 7.7 | 8700 | 8310 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-60 | 11/09/98 | EPRI-9811-125 | GW | 3.6 | 7.21 | 7.7 | 8480 | 8240 | 0.009 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-60 | 2/10/99 | EPRI-9902-127 | GW | 1.9 | 7 | 7.8 | 8670 | 8650 | 0.009 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-60 | 5/6/99 | EPRI-9905-132 | GW | 0.7 | 6.8 | 7.4 | 8670 | 9010 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-60 | 08/03/99 | EPRI-9908-128 | GW | 3 | 7.18 | 7.6 | 8570 | 8410 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-61 | 08/16/97 | EPRI-9708-126 | GW | 2.3 | 7.15 | 7.90 | 9290 | 9210 | 0.005 | U | 0.01 | U | 0.025 | U | 0.22 |
| EP-61 | 11/14/97 | EPRI-9711-126 | GW | 1.71 | 6.93 | 7.20 | 9080 | 11290 | 0.011 | U | 0.005 | U | 1.2 | U | 0.021 |
| EP-61 | 02/18/98 | EPRI-9802-126 | GW | 1.68 | 6.85 | 7.30 | 9200 | 10350 | 0.025 | J4 | 0.005 | U | 0.025 | U | 0.36 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) Type (flu) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (flu) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|----------------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| EP-61 D | 02/18/98 | EPRI-9802-180 | GW | 1.68 | 6.85 | 7.40 | 9190 | 10350 | 0.015 | 14 | 0.005 | U | 0.01 | U | 0.35 |
| EP-61 | 05/18/98 | EPRI-9805-126 | GW | 0.51 | 6.95 | 7.30 | 8860 | 8810 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-61 | 8/24/98 | EPRI-9808-126 | GW | 0.74 | 7.03 | 7.5 | 8620 | 8710 | 0.011 | 0.005 | U | 0.010 | U | 0.18 | 0.003 |
| EP-61 | 11/16/98 | EPRI-9811-126 | GW | 1.1 | 7.02 | 7.6 | 8530 | 8320 | 0.008 | 0.005 | U | 0.010 | U | 0.13 | 0.003 |
| EP-61 | 2/24/99 | EPRI-9902-128 | GW | 0.6 | 7.17 | 7.6 | 8320 | 9720 | 0.073 | 0.005 | U | 0.011 | U | 0.25 | U |
| EP-61 | 5/13/99 | EPRI-9905-129 | GW | 0.9 | 6.78 | 8.0 | 8240 | 7360 | 0.011 | 0.005 | U | 0.015 | U | 0.18 | 0.003 |
| EP-61 | 08/10/99 | EPRI-9908-129 | GW | 1.1 | 7.15 | 7.7 | 8070 | 8060 | 0.014 | 0.005 | U | 0.014 | U | 0.25 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | 1.10 | 6.985 | 7.55 | 8740 | 9218 | 0.018 | 0.005 | 0.011 | 0.005 | 0.025 | 0.511 | 0.003 |
| Standard Deviation | | | | 0.58 | 0.14 | 0.26 | 445 | 1208 | 0.020 | 0.000 | 0.002 | 0.000 | 0.280 | 0.305 | 0.020 |
| Minimum | | | | 0.51 | 6.78 | 7.20 | 8070 | 7360 | 0.005 | 0.005 | 0.010 | 0.025 | 0.490 | 0.000 | 0.001 |
| Maximum | | | | 2.30 | 7.17 | 8.00 | 9290 | 11290 | 0.073 | 0.005 | 0.015 | 0.025 | 0.110 | 0.003 | 0.020 |
| EP-62 | 08/09/97 | EPRI-9708-127 | GW | 1.45 | 7.10 | 7.70 | 5050 | 5030 | 1.1 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-62 | 11/05/97 | EPRI-9711-127 | GW | 1.16 | 7.09 | 7.70 | 5050 | 5580 | 1.2 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-62 | 02/05/98 | EPRI-9802-127 | GW | 3.07 | 7.16 | 7.40 | 5460 | 5980 | 0.84 | 0.005 | U | 0.01 | U | 0.026 | U |
| EP-62 | 05/08/98 | EPRI-9805-127 | GW | 2.87 | 7.21 | 7.70 | 4820 | 5480 | 0.96 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-62 | 8/10/98 | EPRI-9808-127 | GW | 4.33 | 7.16 | 7.7 | 4840 | 4770 | 1.2 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-62 | 11/9/98 | EPRI-9811-127 | GW | 1.6 | 7.3 | 7.5 | 4680 | 4710 | 0.99 | 0.011 | U | 0.010 | U | 0.025 | U |
| EP-62 | 2/11/99 | EPRI-9902-129 | GW | 4.8 | 7.41 | 8.5 | 4500 | 4600 | 0.77 | 0.024 | U | 0.010 | U | 0.025 | U |
| EP-62 | 5/6/99 | EPRI-9905-130 | GW | 3.8 | 7.1 | 7.6 | 4420 | 4600 | 0.83 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-62 | 08/03/99 | EPRI-9908-130 | GW | 2.1 | 7.29 | 7.4 | 4410 | 4470 | 0.77 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 2.80 | 7.20 | 7.69 | 4803 | 5024 | 0.962 | 0.008 | 0.010 | 0.025 | 0.100 | 0.003 | 0.057 |
| Median | | | | 2.87 | 7.16 | 7.7 | 4820 | 4770 | 0.960 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.039 |
| Standard Deviation | | | | 1.32 | 0.11 | 0.33 | 347 | 532 | 0.173 | 0.006 | 0.000 | 0.000 | 0.000 | 0.000 | 0.047 |
| Minimum | | | | 1.16 | 7.09 | 7.40 | 4410 | 4470 | 0.770 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.023 |
| Maximum | | | | 4.80 | 7.41 | 8.50 | 5460 | 5980 | 1.200 | 0.024 | 0.010 | 0.026 | 0.100 | 0.003 | 0.140 |
| EP-63 | 08/09/97 | EPRI-9708-128 | GW | 2.83 | 7.13 | 7.80 | 8100 | 880 | 0.019 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-63 | 11/05/97 | EPRI-9711-128 | GW | 0.33 | 7.16 | 7.80 | 8260 | 9220 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-63 | 02/05/98 | EPRI-9802-128 | GW | 2.23 | 7.08 | 7.40 | 8210 | 9590 | 0.02 | 0.005 | U | 0.01 | U | 0.029 | U |
| EP-63 | 05/08/98 | EPRI-9805-128 | GW | 1.58 | 7.15 | 7.60 | 8390 | 9360 | 0.022 | 0.005 | U | 0.01 | U | 0.1 | 0.003 |
| EP-63 | 8/10/98 | EPRI-9808-128 | GW | 1.86 | 7.16 | 7.7 | 8470 | 8270 | 0.02 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-63 | 11/9/98 | EPRI-9811-128 | GW | 1.4 | 7.28 | 7.6 | 8480 | 8430 | 0.025 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-63 | 2/11/99 | EPRI-9902-130 | GW | 1.3 | 7.27 | 7.8 | 8440 | 8590 | 0.027 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-63 | 5/6/99 | EPRI-9905-131 | GW | 1 | 7.04 | 7.6 | 8300 | 8450 | 0.02 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-63 D | 5/6/99 | EPRI-9905-181 | GW | 0.9 | 7.04 | 7.7 | 8210 | 8450 | 0.018 | 0.005 | U | 0.010 | U | 0.1 | 0.003 |
| EP-63 | 08/03/99 | EPRI-9908-131 | GW | 1.2 | 7.18 | 7.1 | 8140 | 8240 | 0.021 | 0.005 | U | 0.012 | U | 0.1 | 0.003 |
| Average | | | | 1.46 | 7.15 | 7.61 | 8300 | 7948 | 0.021 | 0.005 | 0.010 | 0.025 | 0.111 | 0.003 | 0.042 |
| Median | | | | 1.35 | 7.155 | 7.65 | 8280 | 8450 | 0.021 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.029 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| Standard Deviation | | | | 0.71 | 0.08 | 2530 | 0.003 | 0.000 | 0.001 | 0.001 | 0.031 | 0.000 | 0.028 | 0.028 | |
| Minimum | | | | 0.33 | 7.04 | 8100 | 0.018 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.160 | 0.022 | |
| Maximum | | | | 2.83 | 7.28 | 8480 | 9590 | 0.027 | 0.005 | 0.012 | 0.029 | 0.200 | 0.003 | 0.240 | 0.110 |
| EP-64 | 08/09/97 | EPR1-9708-129 | GW | 3.96 | 7.39 | 7.80 | 8590 | 9700 | 0.025 | 0.005 | U | 0.025 | U | 0.1 | U |
| EP-64 | 11/05/97 | EPR1-9711-129 | GW | 0.19 | 7.25 | 7.80 | 11000 | 13050 | 0.048 | 0.005 | U | 0.025 | U | 0.1 | U |
| EP-64 | 02/05/98 | EPR1-9802-129 | GW | 3.76 | 7.98 | 7.90 | 10420 | 10800 | 0.043 | 0.005 | U | 0.01 | U | 0.049 | U |
| EP-64 | 05/08/98 | EPR1-9805-129 | GW | 2.60 | 6.82 | 8.00 | 10000 | 10940 | 0.041 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-64 | 8/10/08 | EPR1-9808-129 | GW | 3 | 7.4 | 7.9 | 9540 | 9410 | 0.04 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-64 | 11/19/98 | EPR1-9811-129 | GW | 4 | 7.55 | 7.7 | 9490 | 9450 | 0.045 | 0.014 | U | 0.010 | U | 0.025 | U |
| EP-64 | 2/10/99 | EPR1-9902-131 | GW | 2.9 | 7.89 | 8.5 | 9520 | 9670 | 0.039 | 0.011 | U | 0.010 | U | 0.025 | U |
| EP-64 | 5/6/99 | EPR1-9905-128 | GW | 2.3 | 7.57 | 7.9 | 9280 | 9910 | 0.038 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-64 | 08/03/99 | EPR1-9908-132 | GW | 5 | 7.48 | 7.8 | 8380 | 9420 | 0.036 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 3.08 | 7.48 | 7.92 | 9580 | 10261 | 0.039 | 0.007 | U | 0.010 | U | 0.028 | U |
| Median | | | | 3.00 | 7.48 | 7.9 | 9520 | 9700 | 0.040 | 0.005 | U | 0.010 | U | 0.025 | U |
| Standard Deviation | | | | 1.37 | 0.34 | 0.23 | 823 | 1194 | 0.007 | 0.003 | U | 0.000 | U | 0.008 | U |
| Minimum | | | | 0.19 | 6.82 | 7.70 | 8380 | 9410 | 0.025 | 0.005 | U | 0.010 | U | 0.025 | U |
| Maximum | | | | 5.00 | 7.98 | 8.50 | 11000 | 13050 | 0.048 | 0.014 | U | 0.010 | U | 0.049 | U |
| EP-65 | 08/16/97 | EPR1-9708-130 | GW | 0.35 | 7.15 | 7.70 | 7420 | 7360 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 |
| EP-65 | 11/14/97 | EPR1-9711-130 | GW | 1.4 | 7.02 | 7.60 | 7380 | 9180 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-65 | 02/18/98 | EPR1-9802-130 | GW | 0.84 | 7.07 | 7.50 | 7500 | 9190 | 0.009 | J4 | 0.005 | U | 0.01 | U | 0.025 |
| EP-65 | 05/18/98 | EPR1-9805-130 | GW | 0.56 | 7.10 | 7.30 | 7440 | 7310 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-65 | 8/24/98 | EPR1-9808-130 | GW | 0.27 | 7.02 | 7.5 | 7330 | 7390 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-65 | 11/16/98 | EPR1-9811-130 | GW | 0.6 | 7.08 | 7.6 | 7280 | 7060 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-65 | 2/24/99 | EPR1-9902-132 | GW | 0.4 | 7.16 | 7.7 | 6980 | 8290 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-65 D | 2/24/99 | EPR1-9902-194 | GW | 0.4 | 7.16 | 7.7 | 7010 | 8280 | 0.008 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-65 | 5/13/99 | EPR1-9905-133 | GW | 1 | 6.98 | 7.7 | 6740 | 6010 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-65 | 08/10/99 | EPR1-9908-133 | GW | 0.3 | 7.14 | 7.8 | 6610 | 6660 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-65 D | 08/10/99 | EPR1-9908-204 | GW | 0.3 | 7.14 | 7.7 | 6610 | 6660 | 0.005 | 0.005 | U | 0.013 | U | 0.025 | U |
| Average | | | | 0.58 | 7.09 | 7.62 | 7118 | 7581 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| Median | | | | 0.40 | 7.1 | 7.7 | 7280 | 7360 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| Standard Deviation | | | | 0.36 | 0.06 | 0.14 | 342 | 1036 | 0.002 | 0.000 | U | 0.000 | U | 0.085 | U |
| Minimum | | | | 0.27 | 6.98 | 7.30 | 6610 | 6010 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U |
| Maximum | | | | 1.40 | 7.16 | 7.80 | 7500 | 9190 | 0.013 | 0.005 | U | 0.010 | U | 0.300 | U |
| EP-66 | 08/08/97 | EPR1-9708-131 | GW | 6.7 | 7.05 | 7.50 | 8390 | 8370 | 13 | 0.005 | U | 0.011 | U | 0.025 | U |
| EP-66 | 11/05/97 | EPR1-9711-131 | GW | 1.3 | 6.80 | 7.50 | 7920 | 9020 | 11 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-66 | 02/05/98 | EPR1-9802-131 | GW | 4.42 | 7.09 | 7.60 | 7220 | 8290 | 9.7 | 0.005 | U | 0.01 | U | 0.032 | U |
| EP-66 | 05/08/98 | EPR1-9805-131 | GW | 2.99 | 7.39 | 7.70 | 7690 | 8980 | 10 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-66 | 8/10/98 | EPR1-9808-131 | GW | 6.54 | 6.95 | 7.5 | 8130 | 7820 | 11 | 0.007 | U | 0.010 | U | 0.025 | U |
| Average | | | | 0.58 | 7.09 | 7.62 | 7118 | 7581 | 0.007 | 0.005 | U | 0.011 | U | 0.025 | U |
| Median | | | | 0.40 | 7.1 | 7.7 | 7280 | 7360 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| Standard Deviation | | | | 0.36 | 0.06 | 0.14 | 342 | 1036 | 0.002 | 0.000 | U | 0.000 | U | 0.085 | U |
| Minimum | | | | 0.27 | 6.98 | 7.30 | 6610 | 6010 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U |
| Maximum | | | | 1.40 | 7.16 | 7.80 | 7500 | 9190 | 0.013 | 0.005 | U | 0.010 | U | 0.300 | U |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (Cu) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| EP-66 | 11/9/98 | EPR1-9811-131 | GW | 5.3 | 7.09 | 7.4 | 7440 | 7530 | 8.6 | 0.078 | 0.010 | U | 0.066 | 0.10 | UJ |
| EP-66 | 2/10/99 | EPR1-9902-133 | GW | 5.3 | 7.17 | 8.0 | 7720 | 7700 | 9.1 | 0.034 | 0.010 | U | 0.025 | 0.10 | U |
| EP-66 | 5/6/99 | EPR1-9905-134 | GW | 5.5 | 6.98 | 7.5 | 7620 | 8660 | 9.9 | 0.011 | 0.010 | U | 0.025 | 0.10 | U |
| EP-66 | 08/04/99 | EPR1-9908-134 | GW | 7 | 7.8 | 8000 | 7680 | 10 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-67 | 08/12/97 | EPR1-9708-132 | GW | 1.5 | 6.74 | 7.60 | 4400 | 4490 | 0.015 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-67 | 11/07/97 | EPR1-9711-132 | GW | 0.9 | 6.84 | 7.40 | 4460 | 5000 | 0.042 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-67 | 02/11/98 | EPR1-9802-132 | GW | 1.71 | 6.66 | 7.30 | 4470 | 5820 | 0.015 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-67 | 02/11/98 | EPR1-9802-179 | GW | 1.71 | 6.66 | 7.30 | 4480 | 5820 | 0.015 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-67 | 05/12/98 | EPR1-9805-132 | GW | 0.94 | 6.94 | 7.20 | 4440 | 4450 | 0.015 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-67 | 8/13/98 | EPR1-9808-132 | GW | 1.09 | 6.79 | 7.6 | 4360 | 4310 | 0.013 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-67 | 11/10/98 | EPR1-9811-132 | GW | 1.6 | 6.77 | 7.4 | 4370 | 4350 | 0.021 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-67 | 2/10/99 | EPR1-9902-134 | GW | 1.7 | 6.91 | 7.7 | 4340 | 4400 | 0.016 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-67 | 5/7/99 | EPR1-9905-135 | GW | 1.3 | 6.81 | 7.3 | 4440 | 4820 | 0.020 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-67 | 08/05/99 | EPR1-9908-135 | GW | | 6.86 | 7.7 | 4330 | 4860 | 0.02 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |
| EP-68 | 08/14/97 | EPR1-9708-133 | GW | 6.38 | 7.14 | 7.70 | 5430 | 5290 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 |
| EP-68 D | 08/14/97 | EPR1-9708-174 | GW | 6.38 | 7.14 | 7.70 | 5330 | 5290 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 |
| EP-68 | 11/11/97 | EPR1-9711-133 | GW | 6.09 | 7.11 | 7.30 | 5440 | 5590 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 |
| EP-68 | 02/11/98 | EPR1-9802-133 | GW | 7.59 | 6.93 | 7.70 | 4980 | 6080 | 0.005 | U | 0.005 | U | 0.016 | U | 0.025 |
| EP-68 | 05/13/98 | EPR1-9805-133 | GW | 5.87 | 7.17 | 7.40 | 5690 | 5320 | 0.009 | 0.005 | U | 0.012 | U | 0.025 | U |
| EP-68 D | 05/13/98 | EPR1-9805-179 | GW | | | | 8.10 | 5740 | | | | | | | |
| EP-68 | 8/13/98 | EPR1-9808-133 | GW | 6.52 | 7.16 | 7.8 | 4260 | 3990 | 0.007 | 0.005 | U | 0.016 | U | 0.025 | U |
| EP-68 | 11/11/98 | EPR1-9811-133 | GW | 6.4 | 7.4 | 7.9 | 4480 | 4130 | 0.009 | 0.005 | U | 0.012 | U | 0.025 | U |
| EP-68 | 2/18/99 | EPR1-9902-135 | GW | 5.6 | 7.31 | 7.5 | 3840 | 3690 | 0.005 | U | 0.005 | U | 0.025 | U | 0.1 |
| EP-68 | 5/10/99 | EPR1-9905-136 | GW | 6 | 7.08 | 7.6 | 4030 | 3990 | 0.005 | U | 0.010 | U | 0.025 | U | 0.1 |
| EP-68 | 08/05/99 | EPR1-9908-136 | GW | | 7.17 | 7.9 | 4780 | 4790 | 0.005 | 0.005 | U | 0.013 | U | 0.025 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | |
|--------------------|----------|----------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|-------|---|
| Minimum | | | | 5.60 | 6.93 | 7.30 | 3840 | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.160 | 0.020 | | |
| Maximum | | | | 7.59 | 7.40 | 8.10 | 5740 | 0.010 | 0.005 | 0.016 | 0.025 | 0.100 | 0.003 | 0.340 | 0.071 | | |
| EP-70 | 11/07/97 | EPRI-9711-135 | GW | 0.75 | 6.91 | 7.50 | 6740 | 7510 | 1.7 | 0.013 | 0.01 | 0.025 | 0.1 | U | 0.003 | U | |
| EP-70 | 02/11/98 | EPRI-9802-135 | GW | 0.56 | 6.79 | 7.40 | 6600 | 8480 | 1.4 | 0.014 | 0.01 | 0.025 | 0.1 | U | 0.003 | U | |
| EP-70 | 05/12/98 | EPRI-9805-135 | GW | 0.38 | 7.07 | 7.40 | 6290 | 6210 | 1.2 | 0.012 | 0.01 | 0.025 | 0.1 | U | 0.003 | U | |
| EP-70R | 08/12/97 | EPRI-9708-135A | GW | 0.52 | 6.84 | | | 7150 | | | | | | | | | |
| EP-70R | 08/26/97 | EPRI-9708-135 | GW | | 7.19 | 7.90 | 6970 | 1291 | 2 | 0.01 | 0.01 | 0.025 | 0.1 | U | 0.003 | U | |
| EP-70R | 08/26/97 | EPRI-9708-180 | GW | | 7.19 | 7.60 | 6970 | 1291 | 1.9 | 0.01 | 0.01 | 0.025 | 0.1 | U | 0.003 | U | |
| EP-70 | 8/13/98 | EPRI-9808-135 | GW | 1.39 | 6.94 | 7.6 | 6150 | 5960 | 1.2 | 0.013 | 0.010 | 0.025 | 0.10 | U | 0.003 | U | |
| EP-70 | 11/10/98 | EPRI-9811-135 | GW | 0.9 | 7.02 | 7.4 | 6320 | 6220 | 1.0 | 0.015 | 0.010 | 0.025 | 0.10 | U | 0.003 | U | |
| EP-70 D | 11/10/98 | EPRI-9811-180 | GW | 0.8 | 7.02 | 7.3 | 6310 | 6230 | 1.0 | 0.014 | 0.010 | 0.025 | 0.10 | U | 0.003 | U | |
| EP-70 | 2/1/099 | EPRI-9902-136 | GW | 0.9 | 7.04 | 7.7 | 6080 | 6080 | 0.83 | 0.014 | 0.010 | 0.025 | 0.10 | U | 0.003 | U | |
| EP-70 | 5/7/99 | EPRI-9905-137 | GW | 0.7 | 6.92 | 7.5 | 6230 | 6630 | 0.83 | 0.009 | 0.010 | 0.025 | 0.1 | U | 0.003 | U | |
| EP-70 | 08/05/99 | EPRI-9908-137 | GW | | 7.01 | 7 | 6020 | 6660 | 0.72 | 0.009 | 0.01 | 0.025 | 0.1 | U | 0.003 | U | |
| Average | | | | 0.77 | 7.00 | 7.48 | 6425 | 5809 | 1.253 | 0.012 | 0.010 | 0.025 | 0.100 | U | 0.003 | U | |
| Median | | | | 0.75 | 7.015 | 7.5 | 6310 | 6225 | 1.200 | 0.013 | 0.010 | 0.025 | 0.100 | U | 0.003 | U | |
| Standard Deviation | | | | 0.29 | 0.12 | 0.23 | 341 | 2229 | 0.444 | 0.002 | 0.000 | 0.000 | 0.000 | U | 0.024 | 0.038 | |
| Minimum | | | | 0.38 | 6.79 | 7.00 | 6020 | 1291 | 0.720 | 0.009 | 0.010 | 0.025 | 0.100 | U | 0.003 | 0.180 | |
| Maximum | | | | 1.39 | 7.19 | 7.90 | 6970 | 8480 | 2.000 | 0.015 | 0.010 | 0.025 | 0.100 | U | 0.003 | 0.240 | |
| EP-71R | 08/12/97 | EPRI-9708-136 | GW | 0.43 | 6.79 | 7.50 | 6480 | 6560 | 0.16 | 0.005 | U | 0.025 | 0.1 | U | 0.003 | U | |
| EP-71 | 11/07/97 | EPRI-9711-136 | GW | 0.54 | 6.85 | 7.50 | 6470 | 7180 | 0.19 | 0.005 | U | 0.025 | 0.1 | U | 0.003 | U | |
| EP-71 | 02/11/98 | EPRI-9802-136 | GW | 0.82 | 6.70 | 7.50 | 6770 | 8670 | 0.14 | 0.005 | U | 0.025 | 0.1 | U | 0.012 | U | |
| EP-71 | 05/12/98 | EPRI-9805-136 | GW | 0.39 | 6.99 | 7.30 | 6440 | 6400 | 0.13 | 0.005 | U | 0.025 | 0.1 | U | 0.003 | U | |
| EP-71 | 8/13/98 | EPRI-9808-136 | GW | 0.31 | 6.86 | 7.5 | 6290 | 6260 | 0.14 | 0.005 | U | 0.025 | 0.10 | U | 0.003 | U | |
| EP-71 | 11/10/98 | EPRI-9811-136 | GW | 1.1 | 7 | 7.3 | 5750 | 5670 | 0.13 | 0.006 | 0.010 | 0.025 | 0.10 | U | 0.003 | U | |
| EP-71 | 2/10/99 | EPRI-9902-137 | GW | 1 | 7.01 | 7.7 | 5940 | 5970 | 0.12 | 0.005 | U | 0.025 | 0.10 | U | 0.003 | U | |
| EP-71 | 08/05/99 | EPRI-9908-138 | GW | | 6.92 | 7.5 | 5850 | 6560 | 0.13 | 0.005 | U | 0.025 | 0.1 | U | 0.003 | U | |
| Average | | | | 0.66 | 6.89 | 7.48 | 6249 | 6659 | 0.143 | 0.005 | 0.010 | 0.025 | 0.100 | U | 0.004 | U | |
| Median | | | | 0.54 | 6.89 | 7.5 | 6365 | 6480 | 0.135 | 0.005 | 0.010 | 0.025 | 0.100 | U | 0.003 | U | |
| Standard Deviation | | | | 0.32 | 0.11 | 0.13 | 362 | 927 | 0.023 | 0.000 | 0.000 | 0.000 | 0.000 | U | 0.035 | 0.020 | |
| Minimum | | | | 0.31 | 6.70 | 7.30 | 5750 | 5670 | 0.120 | 0.005 | 0.010 | 0.025 | 0.100 | U | 0.003 | 0.210 | |
| Maximum | | | | 1.10 | 7.01 | 7.70 | 6770 | 8670 | 0.190 | 0.006 | 0.010 | 0.025 | 0.100 | U | 0.012 | 0.320 | |
| EP-72 | 08/12/97 | EPRI-9708-137 | GW | 0.37 | 6.77 | 7.80 | 6220 | 6300 | 0.48 | 0.21 | 0.01 | U | 0.025 | 0.1 | U | 0.003 | U |
| EP-72 | 11/07/97 | EPRI-9711-137 | GW | 0.95 | 6.86 | 7.40 | 6040 | 6810 | 0.49 | 0.2 | 0.01 | U | 0.025 | 0.1 | U | 0.003 | U |
| EP-72 | 02/11/98 | EPRI-9802-137 | GW | 0.72 | 6.72 | 7.40 | 6030 | 7900 | 0.5 | 0.21 | 0.01 | U | 0.025 | 0.1 | U | 0.003 | U |
| EP-72 | 05/13/98 | EPRI-9805-137 | GW | 0.29 | 7.02 | 7.50 | 6030 | 5970 | 0.5 | 0.22 | 0.01 | U | 0.025 | 0.1 | U | 0.003 | U |
| EP-72 | 8/13/98 | EPRI-9808-137 | GW | 0.21 | 6.89 | 7.5 | 6050 | 6000 | 0.49 | 0.20 | 0.010 | U | 0.025 | 0.10 | U | 0.003 | U |
| EP-72 | 11/10/98 | EPRI-9811-137 | GW | 1.2 | 7 | 7.3 | 6090 | 6080 | 0.45 | 0.20 | 0.010 | U | 0.025 | 0.10 | U | 0.003 | U |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) feld | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fild) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|----------|-------------|--------------------------------------|---------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| EP-72 | 11/1/98 | EPRI-9811-137 | GW | 1.2 | 7 | 7.3 | 6090 | 6080 | 0.45 | 0.2 | 0.01 | U | 0.025 | U | 0.42 |
| Average | | | | 0.71 | 6.89 | 7.46 | 6079 | 6449 | 0.480 | 0.206 | 0.010 | 0.025 | 0.100 | 0.003 | 0.416 |
| Median | | | | 0.72 | 6.89 | 7.4 | 6050 | 6080 | 0.490 | 0.200 | 0.010 | 0.025 | 0.100 | 0.003 | 0.420 |
| Standard Deviation | | | | 0.42 | 0.12 | 0.17 | 67 | 703 | 0.022 | 0.008 | 0.000 | 0.000 | 0.000 | 0.049 | 0.470 |
| Minimum | | | | 0.21 | 6.72 | 7.30 | 6030 | 5970 | 0.450 | 0.200 | 0.010 | 0.025 | 0.100 | 0.003 | 0.39 |
| Maximum | | | | 1.20 | 7.02 | 7.80 | 6220 | 7900 | 0.500 | 0.220 | 0.010 | 0.025 | 0.100 | 0.003 | 0.450 |
| EP-73 | 08/12/97 | EPRI-9708-138 | GW | 5.73 | 6.88 | 7.90 | 6760 | 6760 | 0.031 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-73 | 11/13/97 | EPRI-9711-138 | GW | 1.2 | 6.91 | 7.40 | 6520 | 8610 | 0.033 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-73 | 02/12/98 | EPRI-9802-138 | GW | 0.97 | 6.84 | 7.60 | 6850 | 9340 | 0.023 | J4 | 0.005 | U | 0.01 | U | 0.025 |
| EP-73 | 05/11/98 | EPRI-9805-138 | GW | 1.43 | 6.62 | 7.70 | 6900 | 7810 | 0.11 | 0.01 | U | 0.025 | U | 0.1 | U |
| EP-73 | 8/17/98 | EPRI-9808-138 | GW | 0.81 | 6.97 | 7.5 | 6700 | 6610 | 0.031 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-73 | 11/5/98 | EPRI-9811-138 | GW | 6.2 | 7.13 | 7.4 | 6580 | 5750 | 0.039 | J4 | 0.012 | U | 0.025 | U | 0.10 |
| EP-73 | 2/9/99 | EPRI-9902-139 | GW | 2.7 | 7.13 | 7.7 | 6540 | 6340 | 0.038 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-73 | 5/7/99 | EPRI-9905-140 | GW | 0.8 | 6.97 | 7.5 | 6700 | 7670 | 0.037 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-73 D | 5/7/99 | EPRI-9905-183 | GW | 0.8 | 6.96 | 7.7 | 6700 | 7680 | 0.034 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-73 | 08/05/99 | EPRI-9908-140 | GW | 5.2 | 7.01 | 7.5 | 6550 | 7280 | 0.027 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 2.58 | 6.94 | 7.59 | 6680 | 7385 | 0.040 | 0.006 | U | 0.010 | U | 0.025 | U |
| Median | | | | 1.32 | 6.965 | 7.55 | 6700 | 7475 | 0.034 | 0.005 | U | 0.010 | U | 0.025 | U |
| Standard Deviation | | | | 2.24 | 0.15 | 0.16 | 132 | 1077 | 0.025 | 0.003 | U | 0.000 | U | 0.000 | U |
| Minimum | | | | 0.80 | 6.62 | 7.40 | 6520 | 5750 | 0.023 | 0.005 | U | 0.010 | U | 0.025 | U |
| Maximum | | | | 6.20 | 7.13 | 7.90 | 6900 | 9340 | 0.110 | 0.012 | U | 0.010 | U | 0.025 | U |
| EP-75 | 08/12/97 | EPRI-9708-140 | GW | 1.54 | 6.84 | 7.40 | 19620 | 18940 | 12 | 0.036 | U | 0.054 | U | 0.1 | U |
| EP-75 | 11/13/97 | EPRI-9711-140 | GW | 1.96 | 6.82 | 7.20 | 18340 | 21300 | 21 | 0.019 | U | 0.051 | U | 0.1 | U |
| EP-75 | 02/06/98 | EPRI-9802-140 | GW | 1.11 | 6.86 | 7.20 | 19240 | 23900 | 18 | 0.022 | U | 0.086 | U | 0.3 | J4 |
| EP-75 | 05/11/98 | EPRI-9805-140 | GW | 2.40 | 6.52 | 7.50 | 20000 | 20000 | 17 | 0.041 | U | 0.1 | U | 0.005 | U |
| EP-75 | 8/17/98 | EPRI-9808-140 | GW | 1.13 | 6.85 | 7.4 | 18700 | 17890 | 18 | 0.005 | U | 0.042 | U | 0.10 | U |
| EP-75 | 11/5/98 | EPRI-9811-140 | GW | 5 | 6.9 | 7.2 | 19100 | 6900 | 18 | J4 | 0.025 | U | 0.058 | U | 0.13 |
| EP-75 | 2/22/99 | EPRI-9902-140 | GW | 6.8 | 6.94 | 7.3 | 18720 | 22000 | 17 | 0.010 | U | 0.061 | U | 0.1 | U |
| EP-75 | 5/10/99 | EPRI-9905-141 | GW | 0.3 | 6.87 | 7.6 | 19390 | 20100 | 18 | 0.009 | U | 0.075 | U | 1.2 | U |
| EP-75 | 08/06/99 | EPRI-9908-141 | GW | 0.4 | 6.86 | 7.2 | 16010 | 18110 | 17 | 0.005 | U | 0.066 | U | 0.1 | U |
| Average | | | | 2.29 | 6.83 | 7.33 | 18791 | 19904 | 17333 | 0.019 | U | 0.020 | U | 0.066 | U |
| Median | | | | 1.54 | 6.86 | 7.3 | 19100 | 20000 | 18000 | 0.019 | U | 0.010 | U | 0.061 | U |
| Standard Deviation | | | | 2.20 | 0.12 | 0.15 | 1159 | 2224 | 2,345 | 0.013 | U | 0.030 | U | 0.018 | U |
| Minimum | | | | 0.30 | 6.52 | 7.20 | 16010 | 16900 | 12,000 | 0.005 | U | 0.010 | U | 0.042 | U |
| Maximum | | | | 6.80 | 6.94 | 7.60 | 20000 | 23900 | 21,000 | 0.041 | U | 0.100 | U | 1,200 | U |
| EP-76 | 08/12/97 | EPRI-9708-141 | GW | 0.35 | 7.39 | 8.00 | 5110 | 5170 | 0.48 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-76 | 11/11/97 | EPRI-9711-141 | GW | 0.16 | 7.21 | 7.50 | 4670 | 5050 | 0.48 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 0.47 | | | | | | | U | 0.003 | U | 0.42 | U |
| Median | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) pH (fid) | pH (lab) | Specific Conductivity SC (fid) | Specific Conductivity SC (lab) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|--------------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| EP-76 | 02/06/98 | EPRI-9802-141 | GW | 0.34 | 7.22 | 7.60 | 4800 | 6000 | 0.54 | 0.005 | U | 0.025 | U | 0.1 | J4 |
| EP-76 | 05/11/98 | EPRI-9805-141 | GW | 1.04 | 7.22 | 7.70 | 5000 | 5390 | 0.41 | 0.005 | U | 0.025 | U | 0.1 | U |
| EP-76 | 8/17/98 | EPRI-9808-141 | GW | 0.11 | 7.21 | 7.6 | 5070 | 5090 | 0.42 | 0.005 | U | 0.025 | U | 0.10 | U |
| EP-76 | 11/5/98 | EPRI-9811-141 | GW | 0.9 | 7.61 | 7.7 | 5680 | 5150 | 2.3 | J4 | 0.010 | U | 0.050 | U | JJ |
| EP-76 | 2/22/99 | EPRI-9902-141 | GW | 4.4 | 7.34 | 7.6 | 5120 | 5860 | 0.77 | 0.005 | U | 0.025 | U | 0.1 | U |
| EP-76 | 5/10/99 | EPRI-9905-142 | GW | 0.7 | 7.05 | 7.6 | 5490 | 5550 | 1.7 | 0.005 | U | 0.010 | U | 0.56 | U |
| Average | | | | | | | | | | | | | | | |
| Median | | | | 0.53 | 7.22 | 7.6 | 5090 | 5280 | 0.510 | 0.005 | 0.010 | 0.025 | 0.100 | 0.005 | 0.160 |
| Standard Deviation | | | | 1.42 | 0.17 | 0.15 | 332 | 364 | 0.714 | 0.002 | 0.000 | 0.009 | 0.163 | 0.007 | 0.128 |
| Minimum | | | | 0.11 | 7.05 | 7.50 | 4670 | 5050 | 0.410 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.130 |
| Maximum | | | | 4.40 | 7.61 | 8.00 | 5680 | 6000 | 2.300 | 0.010 | 0.010 | 0.050 | 0.560 | 0.023 | 0.510 |
| EP-77 | 08/12/97 | EPRI-9708-142 | GW | 3.83 | 6.98 | 8.40 | 5400 | 5350 | 5.6 | 0.012 | 0.01 | U | 0.025 | U | 0.1 |
| EP-77 | 11/13/97 | EPRI-9711-142 | GW | 1.5 | 7.02 | 7.60 | 5350 | 6550 | 6 | 0.013 | 0.01 | U | 0.025 | U | 0.1 |
| EP-77 D | 11/13/97 | EPRI-9711-178 | GW | | | | | | 5.7 | 0.012 | 0.01 | U | 0.025 | U | 0.1 |
| EP-77 | 02/12/98 | EPRI-9802-142 | GW | 1.1 | 7.00 | 7.50 | 5330 | 6910 | 5.7 | 0.015 | 0.01 | U | 0.025 | U | 0.1 |
| EP-77 | 05/13/98 | EPRI-9805-142 | GW | 0.71 | 7.23 | 7.50 | 5070 | 5320 | 5.4 | 0.016 | 0.01 | U | 0.025 | U | 0.1 |
| EP-77 | 8/17/98 | EPRI-9808-142 | GW | 0.82 | 7.09 | 7.5 | 5800 | 5730 | 6.1 | 0.018 | 0.010 | U | 0.025 | U | 0.10 |
| EP-77 | 11/11/98 | EPRI-9811-142 | GW | | 7.3 | 7.5 | 5770 | 5600 | 6.8 | 0.020 | 0.010 | U | 0.025 | U | 0.10 |
| EP-77 | 2/11/99 | EPRI-9902-142 | GW | 0.9 | 7.23 | 7.8 | 5450 | 5450 | 6.2 | 0.016 | 0.010 | U | 0.025 | U | 0.10 |
| EP-77 | 5/7/99 | EPRI-9905-143 | GW | 1.1 | 7.08 | 7.6 | 5350 | 5800 | 7.6 | 0.011 | 0.010 | U | 0.025 | U | 0.1 |
| EP-77 | 08/05/99 | EPRI-9908-143 | GW | 1.2 | 7.14 | 7.4 | 5110 | 5640 | 7.2 | 0.01 | 0.01 | U | 0.025 | U | 0.1 |
| Average | | | | | | | | | | | | | | | |
| Median | | | | 1.40 | 7.12 | 7.64 | 5399 | 5817 | 6.230 | 0.014 | 0.010 | U | 0.025 | U | 0.100 |
| Standard Deviation | | | | | 1.10 | 7.09 | 7.55 | 5355 | 5640 | 6.050 | 0.014 | 0.010 | 0.025 | U | 0.019 |
| Minimum | | | | | 1.01 | 0.11 | 0.29 | 237 | 550 | 0.735 | 0.003 | 0.000 | 0.000 | U | 0.007 |
| Maximum | | | | | 0.71 | 6.98 | 7.40 | 5670 | 5320 | 5.400 | 0.010 | 0.010 | 0.025 | U | 0.003 |
| EP-78 | 08/13/97 | EPRI-9708-143 | GW | 0.25 | 7.78 | 8.00 | 2600 | 2640 | 6.3 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-78 | 11/18/97 | EPRI-9711-143 | GW | 0.74 | 7.77 | 7.90 | 2310 | 2940 | 5.6 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-78 D | 11/18/97 | EPRI-9711-179 | GW | | | | | | 5.6 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-78 | 02/06/98 | EPRI-9802-143 | GW | 0.73 | 7.69 | 7.90 | 2940 | 3780 | 5.9 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-78 | 05/14/98 | EPRI-9805-143 | GW | 0.82 | 7.70 | 8.00 | 3730 | 3750 | 5.6 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-78 | 8/19/98 | EPRI-9808-143 | GW | 0.24 | 7.73 | 8.1 | 3660 | 3740 | 5.4 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-78 | 11/11/98 | EPRI-9811-143 | GW | 1 | 8.05 | 8.1 | 2220 | 2170 | 6.4 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-78 | 2/18/99 | EPRI-9902-143 | GW | | | | | 3450 | 47 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-78 | 5/11/99 | EPRI-9905-144 | GW | 2.3 | 7.62 | 7.3 | 3750 | 3770 | 5.5 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-78 D | 5/11/99 | EPRI-9905-186 | GW | 2.2 | 7.62 | 7.5 | 3740 | J3 | 3830 | 5.9 | 0.005 | U | 0.010 | U | 0.22 |
| EP-78 | 08/09/99 | EPRI-9908-144 | GW | 0.9 | 7.86 | 7.8 | 2520 | 2440 | 5.9 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | | 1.02 | 7.76 | 7.85 | 3022 | 3229 | 5.709 | 0.005 | 0.010 | 0.025 | U | 0.100 |
| | | | | | | | | | | | | | | | 0.024 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (lab) | Specific Conductivity SC (fld) | Specific Conductivity SC (lab) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | | | | | | |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|-------|------|-------|-------|-------|-------|-------|
| Median | | | | 0.82 | 7.73 | 7.9 | 2940 | 3740 | 5,600 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.240 | 0.023 | | | | | | |
| Standard Deviation | | | | 0.75 | 0.13 | 0.25 | 649 | 677 | 0.461 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.195 | 0.005 | | | | | | |
| Minimum | | | | 0.24 | 7.62 | 7.30 | 2220 | 2170 | 4,700 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.200 | 0.020 | | | | | | |
| Maximum | | | | 2.30 | 8.05 | 8.10 | 3750 | 3830 | 6,400 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.740 | 0.033 | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| EP-79 | 08/13/97 | EPRI-9708-144 | GW | 1.06 | 7.47 | 8.00 | 48390 | 4870 | 0.011 | 0.005 | U | 0.012 | 0.025 | U | 0.1 | 0.003 | U | 0.17 | 0.02 | U | | |
| EP-79 | 11/18/97 | EPRI-9711-144 | GW | 0.77 | 7.43 | 8.20 | 49000 | 6500 | 0.01 | 0.005 | U | 0.012 | 0.025 | U | 0.1 | 0.003 | U | 0.19 | 0.02 | U | | |
| EP-79 | 02/06/98 | EPRI-9802-144 | GW | 0.63 | 7.42 | 7.90 | 4940 | 6700 | 0.007 | 0.005 | U | 0.01 | 0.025 | U | 0.1 | 0.003 | U | 0.18 | 0.02 | U | | |
| EP-79 | 05/14/98 | EPRI-9805-144 | GW | 0.43 | 7.52 | 7.80 | 5080 | 5150 | 0.008 | 0.005 | U | 0.011 | 0.025 | U | 0.1 | 0.003 | U | 0.17 | 0.02 | U | | |
| EP-79 | 8/19/98 | EPRI-9808-144 | GW | 0.15 | 7.5 | 8.0 | 5330 | 5420 | 0.01 | 0.005 | U | 0.012 | 0.025 | U | 0.10 | 0.003 | U | 0.17 | 0.026 | | | |
| EP-79 | 11/11/98 | EPRI-9811-144 | GW | 1.6 | 7.67 | 7.8 | 4710 | 4650 | 0.009 | 0.005 | U | 0.010 | 0.025 | U | 0.10 | 0.003 | U | 0.15 | 0.050 | | | |
| EP-79 | 2/18/99 | EPRI-9902-144 | GW | 1 | 7.61 | 7.8 | 4650 | 4660 | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | | |
| EP-79 | 5/11/99 | EPRI-9905-145 | GW | 6.7 | 7.41 | 8.2 | 4900 | J3 | 4790 | 0.026 | 0.005 | U | 0.010 | 0.025 | U | 0.10 | U | 0.003 | U | 0.14 | 0.041 | |
| EP-79 | 08/09/99 | EPRI-9908-145 | GW | 0.4 | 7.53 | 8 | 4730 | 4770 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.14 | 0.024 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Average | | | | 1.42 | 7.51 | 7.97 | 4903 | 5279 | 0.010 | 0.005 | U | 0.011 | 0.025 | U | 0.100 | 0.003 | U | 0.156 | 0.027 | | | |
| Median | | | | 0.77 | 7.5 | 8 | 4900 | 4870 | 0.009 | 0.005 | U | 0.010 | 0.025 | U | 0.100 | 0.003 | U | 0.170 | 0.020 | | | |
| Standard Deviation | | | | 2.03 | 0.09 | 0.16 | 208 | 790 | 0.006 | 0.000 | U | 0.001 | 0.000 | U | 0.000 | 0.000 | U | 0.030 | 0.011 | | | |
| Minimum | | | | 0.15 | 7.41 | 7.80 | 4650 | 4650 | 0.005 | 0.005 | U | 0.010 | 0.025 | U | 0.100 | 0.003 | U | 0.092 | 0.020 | | | |
| Maximum | | | | 6.70 | 7.67 | 8.20 | 5330 | 6700 | 0.026 | 0.005 | U | 0.012 | 0.025 | U | 0.100 | 0.003 | U | 0.190 | 0.050 | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| EP-80 | 08/13/97 | EPRI-9708-145 | GW | 0.31 | 7.23 | 7.70 | 5040 | 5040 | 0.019 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.017 | 0.02 | |
| EP-80 | 11/17/97 | EPRI-9711-145 | GW | 2.9 | 7.05 | 7.90 | 5100 | 6840 | 0.018 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.041 | 0.02 | |
| EP-80 | 02/05/98 | EPRI-9802-145 | GW | 0.88 | 7.14 | 7.40 | 5040 | 6190 | 0.018 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.039 | 0.02 | |
| EP-80 | 05/13/98 | EPRI-9805-145 | GW | 0.68 | 7.26 | 7.60 | 4960 | 5020 | 0.02 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.039 | 0.02 | |
| EP-80 | 8/19/98 | EPRI-9808-145 | GW | 2.15 | 7.27 | 8.0 | 5180 | 5300 | 0.014 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.005 | U | |
| EP-80 | 11/11/98 | EPRI-9811-145 | GW | 1.9 | 7.38 | 7.5 | 5130 | 5040 | 0.016 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.022 | 0.080 | |
| EP-80 | 2/18/99 | EPRI-9902-145 | GW | 1.9 | 7.3 | 7.5 | 5290 | 5230 | 0.009 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.046 | 0.052 | |
| EP-80 | 5/11/99 | EPRI-9905-146 | GW | 0.6 | 7.19 | 7.9 | 5170 | J3 | 5240 | 0.015 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.039 | 0.022 |
| EP-80 | 08/09/99 | EPRI-9908-146 | GW | 0.2 | 7.27 | 7.8 | 5240 | 5250 | 0.016 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.006 | 0.027 | |
| | | | | | | | | | | | | | | | | | | | | | | |
| Average | | | | 1.28 | 7.23 | 7.70 | 5128 | 5461 | 0.016 | 0.005 | U | 0.010 | 0.025 | U | 0.100 | 0.003 | U | 0.028 | 0.032 | | | |
| Median | | | | 0.88 | 7.26 | 7.7 | 5130 | 5240 | 0.016 | 0.005 | U | 0.010 | 0.025 | U | 0.100 | 0.003 | U | 0.039 | 0.022 | | | |
| Standard Deviation | | | | 0.95 | 0.10 | 0.21 | 105 | 628 | 0.003 | 0.000 | U | 0.009 | 0.000 | U | 0.000 | 0.000 | U | 0.016 | 0.021 | | | |
| Minimum | | | | 0.20 | 7.05 | 7.40 | 4960 | 5020 | 0.009 | 0.005 | U | 0.010 | 0.025 | U | 0.100 | 0.003 | U | 0.005 | 0.020 | | | |
| Maximum | | | | 2.90 | 7.38 | 8.00 | 5290 | 6840 | 0.020 | 0.005 | U | 0.010 | 0.025 | U | 0.100 | 0.003 | U | 0.046 | 0.080 | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| EP-81 | 08/13/97 | EPRI-9708-146 | GW | 2.82 | 7.01 | 7.70 | 2550 | 2530 | 0.21 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.22 | 0.02 | |
| EP-81 | 11/17/97 | EPRI-9711-146 | GW | 2.88 | 6.90 | 7.80 | 2390 | 3290 | 0.19 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.21 | 0.025 | |
| EP-81 | 02/05/98 | EPRI-9802-146 | GW | 2.94 | 7.00 | 7.50 | 2560 | 2980 | 0.32 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.21 | 0.025 | |
| EP-81 | 05/14/98 | EPRI-9805-149 | GW | 3.44 | 7.04 | 7.40 | 2540 | 2630 | 0.24 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.21 | 0.021 | |
| EP-81 | 8/19/98 | EPRI-9808-146 | GW | 0.7 | 7.08 | 7.6 | 2630 | 2720 | 0.25 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.26 | 0.038 | |
| EP-81 | 11/11/98 | EPRI-9811-146 | GW | 3.6 | 7.1 | 7.3 | 2430 | 2370 | 0.089 | 0.006 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.24 | 0.11 | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (flnd) | pH (Lab) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | |
|--------------------|----------|---------------|------|------------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|
| EP-81 | 2/18/99 | EPRI-9902-146 | GW | 4.7 | 7.19 | 7.4 | 2550 | 0.21 | 0.007 | 0.01 | U | 0.025 | U | 0.1 | U | |
| EP-81 | 5/11/99 | EPRI-9905-147 | GW | 6.8 | 7 | 7.8 | 2550 | 0.24 | 0.005 | U | 0.010 | U | 0.025 | U | 0.19 | |
| EP-81 | 08/09/99 | EPRI-9908-147 | GW | 3.6 | 7.12 | 7.7 | 2830 | 0.4 | 0.005 | U | 0.01 | U | 0.025 | U | 0.24 | |
| Average | | | | 3.50 | 7.05 | 7.58 | 2557 | | 0.239 | | 0.005 | | 0.010 | | 0.11 | |
| Median | | | | 3.44 | 7.04 | 7.6 | 2550 | | 0.240 | | 0.005 | | 0.010 | | 0.071 | |
| Standard Deviation | | | | 1.63 | 0.08 | 0.19 | 125 | | 0.086 | | 0.001 | | 0.000 | | 0.045 | |
| Minimum | | | | 0.70 | 6.90 | 7.30 | 2390 | | 0.089 | | 0.005 | | 0.010 | | 0.020 | |
| Maximum | | | | 6.80 | 7.19 | 7.80 | 2830 | | 0.400 | | 0.007 | | 0.010 | | 0.260 | |
| EP-82 | 08/13/97 | EPRI-9708-147 | GW | 1.31 | 7.06 | 7.70 | 3980 | | 0.016 | | 0.005 | | U | 0.025 | U | 0.27 |
| EP-82 | 11/18/97 | EPRI-9711-147 | GW | 2.15 | 7.03 | 8.00 | 3250 | | 0.011 | | 0.005 | | U | 0.025 | U | 0.21 |
| EP-82 | 02/11/98 | EPRI-9802-147 | GW | 1.73 | 6.94 | 7.60 | 4320 | | 0.006 | J4 | 0.005 | | U | 0.025 | U | 0.17 |
| EP-82 | 05/14/98 | EPRI-9805-147 | GW | 0.67 | 7.12 | 7.60 | 4740 | | 0.01 | | 0.005 | | U | 0.025 | U | 0.024 |
| EP-82 | 8/19/98 | EPRI-9808-147 | GW | 0.43 | 7.16 | 7.7 | 4880 | | 0.009 | | 0.005 | | U | 0.010 | U | 0.023 |
| EP-82 | 11/11/98 | EPRI-9811-147 | GW | 1.6 | 7.33 | 7.4 | 4880 | | 0.01 | | 0.005 | | U | 0.010 | U | 0.027 |
| EP-82 | 2/18/99 | EPRI-9902-147 | GW | 0.5 | 7.28 | 7.6 | 4770 | | 0.005 | | 0.005 | | U | 0.025 | U | 0.22 |
| EP-82 | 5/11/99 | EPRI-9905-148 | GW | 1.5 | 7.15 | 7.8 | 4870 | J3 | 4970 | | 0.010 | | U | 0.010 | U | 0.042 |
| EP-82 | 08/09/99 | EPRI-9908-148 | GW | 0.4 | 7.23 | 7.7 | 4490 | | 0.01 | | 0.005 | | U | 0.025 | U | 0.058 |
| Average | | | | 1.14 | 7.14 | 7.68 | 4459 | | 4699 | | 0.010 | | 0.005 | | 0.13 | 0.038 |
| Median | | | | 1.31 | 7.15 | 7.7 | 4720 | | 4780 | | 0.010 | | 0.005 | | 0.180 | 0.024 |
| Standard Deviation | | | | 0.65 | 0.12 | 0.16 | 546 | | 446 | | 0.003 | | 0.000 | | 0.039 | 0.013 |
| Minimum | | | | 0.40 | 6.94 | 7.40 | 3250 | | 3960 | | 0.005 | | 0.010 | | 0.100 | 0.020 |
| Maximum | | | | 2.15 | 7.33 | 8.00 | 4880 | | 5360 | | 0.016 | | 0.005 | | 0.100 | 0.058 |
| EP-83 | 08/13/97 | EPRI-9708-148 | GW | 5.75 | 7.47 | 8.00 | 3940 | | 3960 | | 0.01 | | 0.005 | | U | 0.025 |
| EP-83 | 11/18/97 | EPRI-9711-148 | GW | 4.42 | 7.36 | 8.20 | 3940 | | 4930 | | 0.005 | | U | 0.01 | U | 0.037 |
| EP-83 | 02/06/98 | EPRI-9802-148 | GW | 6.33 | 7.51 | 7.80 | 3720 | | 4670 | | 0.006 | | 0.005 | | U | 0.044 |
| EP-83 | 05/13/98 | EPRI-9805-148 | GW | 4.85 | 7.51 | 7.80 | 3840 | | 3880 | | 0.01 | | 0.005 | | U | 0.02 |
| EP-83 | 8/19/98 | EPRI-9808-148 | GW | 3.4 | 7.53 | 8.0 | 3930 | | 4040 | | 0.006 | | 0.005 | | U | 0.054 |
| EP-83 | 11/12/98 | EPRI-9811-148 | GW | 7.6 | 7.7 | 3680 | 3470 | | 0.008 | | 0.009 | | 0.010 | | U | 0.044 |
| EP-83 | 2/22/99 | EPRI-9902-148 | GW | 6 | 7.58 | 7.8 | 3880 | | 4510 | | 0.005 | | U | 0.025 | U | 0.026 |
| EP-83 D | 2/22/99 | EPRI-9902-192 | GW | 5.8 | 7.57 | 7.8 | 3870 | | 4510 | | 0.005 | | U | 0.025 | U | 0.040 |
| EP-83 | 08/09/99 | EPRI-9908-149 | GW | 4.9 | 7.48 | 7.9 | 3870 | | 3910 | | 0.006 | | 0.005 | | U | 0.047 |
| Average | | | | 5.18 | 7.51 | 7.89 | 3852 | | 4209 | | 0.007 | | 0.005 | | 0.100 | 0.037 |
| Median | | | | 5.33 | 7.51 | 7.8 | 3870 | | 4040 | | 0.006 | | 0.005 | | 0.100 | 0.044 |
| Standard Deviation | | | | 0.97 | 0.07 | 0.15 | 94 | | 467 | | 0.002 | | 0.001 | | 0.000 | 0.021 |
| Minimum | | | | 3.40 | 7.36 | 7.70 | 3680 | | 3470 | | 0.005 | | 0.010 | | 0.100 | 0.039 |
| Maximum | | | | 6.33 | 7.60 | 8.20 | 3940 | | 4930 | | 0.010 | | 0.009 | | 0.100 | 0.140 |
| EP-84 | 08/13/97 | EPRI-9708-149 | GW | 3.33 | 7.39 | 7.90 | 1958 | | 1908 | | 0.1 | | 0.007 | | 0.026 | 0.036 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) (flu) | pH (lab) | Specific Conductivity SC (flu) | Specific Conductivity SC (lab) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | |
|--------------------|----------|---------------|------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|-------|
| EP-84 | 11/18/97 | EPR1-9711-149 | GW | 1.37 | 7.16 | 8.10 | 2650 | 3260 | 0.041 | 0.007 | 0.01 | U | 0.01 | 0.031 | 0.035 | |
| EP-84 | 02/06/98 | EPR1-9802-149 | GW | 1.35 | 7.18 | 7.40 | 2990 | 3470 | 0.035 | 0.007 | 0.01 | U | 0.018 | 0.024 | 0.048 | |
| EP-84 | 05/13/98 | EPR1-9805-146 | GW | 2.28 | 7.22 | 7.50 | 3040 | 3050 | 0.034 | 0.006 | 0.01 | U | 0.025 | 0.029 | 0.052 | |
| EP-84 | 8/19/98 | EPR1-9808-149 | GW | 1.97 | 7.25 | 7.8 | 2780 | 2820 | 0.03 | 0.006 | 0.010 | U | 0.025 | 0.027 | 0.046 | |
| EP-84 | 11/12/98 | EPR1-9811-149 | GW | 7.31 | 7.6 | 2980 | 2790 | 0.031 | 0.009 | 0.010 | U | 0.025 | 0.025 | 0.096 | | |
| EP-84 | 2/22/99 | EPR1-9902-149 | GW | 3.3 | 7.21 | 7.5 | 3070 | 3370 | 0.022 | 0.008 | 0.01 | U | 0.025 | 0.021 | 0.046 | |
| EP-84 | 5/11/99 | EPR1-9905-150 | GW | 2.9 | 7.23 | 7.9 | 3030 | J3 | 3080 | 0.024 | 0.006 | 0.010 | U | 0.025 | 0.024 | 0.044 |
| EP-84 | 08/09/99 | EPR1-9908-150 | GW | 2.7 | 7.44 | 7.9 | 1838 | 1854 | 0.097 | 0.005 | U | 0.01 | U | 0.008 | 0.019 | 0.025 |
| Average | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| EP-85 | 08/13/97 | EPR1-9708-150 | GW | 0.32 | 7.33 | 8.00 | 2900 | 2890 | 3.1 | 0.005 | U | 0.01 | U | 0.026 | 0.025 | |
| EP-85 | 11/17/97 | EPR1-9711-150 | GW | 0.35 | 7.30 | 8.00 | 2300 | 2950 | 3.2 | 0.005 | U | 0.01 | U | 0.025 | 0.024 | |
| EP-85 | 02/03/98 | EPR1-9802-150 | GW | 0.61 | 7.34 | 7.70 | 2600 | 3140 | 2.9 | 0.005 | U | 0.01 | U | 0.025 | 0.020 | |
| EP-85 | 05/14/98 | EPR1-9805-150 | GW | 0.52 | 7.39 | 7.70 | 2970 | 3010 | 2.8 | 0.005 | U | 0.01 | U | 0.025 | 0.025 | |
| EP-85 | 8/19/98 | EPR1-9808-150 | GW | 0.14 | 7.38 | 7.8 | 3240 | 3340 | 2.7 | 0.005 | U | 0.010 | U | 0.025 | 0.019 | |
| EP-85 D | 8/19/98 | EPR1-9808-180 | GW | 7.8 | 3250 | 7.8 | 3250 | 2.7 | 0.005 | U | 0.010 | U | 0.025 | U | 0.032 | |
| EP-85 | 11/11/98 | EPR1-9811-150 | GW | 1.5 | 7.51 | 7.7 | 2850 | 2800 | 3.1 | 0.005 | U | 0.010 | U | 0.025 | 0.033 | |
| EP-85 | 2/18/99 | EPR1-9902-150 | GW | 0.4 | 7.45 | 7.6 | 2770 | 2780 | 2.5 | 0.005 | U | 0.01 | U | 0.025 | 0.029 | |
| EP-85 D | 2/18/99 | EPR1-9902-189 | GW | 0.4 | 7.45 | 7.7 | 2770 | 2780 | 2.6 | 0.005 | U | 0.01 | U | 0.025 | 0.044 | |
| EP-85 | 5/11/99 | EPR1-9905-151 | GW | 0.5 | 7.32 | 8.0 | 3070 | J3 | 3120 | 2.9 | 0.005 | U | 0.010 | U | 0.020 | |
| EP-85 | 08/09/99 | EPR1-9908-151 | GW | 0.5 | 7.38 | 7.8 | 3200 | 3230 | 2.8 | 0.005 | U | 0.01 | U | 0.025 | 0.02 | |
| EP-85 D | 08/09/99 | EPR1-9908-202 | GW | 0.5 | 7.38 | 7.8 | 3190 | 3220 | 2.8 | 0.005 | U | 0.01 | U | 0.025 | 0.02 | |
| Average | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | |
| EP-86 | 08/13/97 | EPR1-9708-151 | GW | 7.63 | 7.63 | 8.00 | 2630 | 2610 | 0.011 | 0.005 | U | 0.01 | U | 0.025 | 0.025 | |
| EP-86 | 11/18/97 | EPR1-9711-151 | GW | 5.56 | 7.54 | 8.30 | 2650 | 3240 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | 0.025 | |
| EP-86 | 02/06/98 | EPR1-9802-151 | GW | 6 | 7.53 | 7.80 | 2640 | 3300 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | 0.020 | |
| EP-86 | 05/14/98 | EPR1-9805-151 | GW | 8.01 | 7.70 | 7.90 | 2640 | 2670 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | 0.029 | |
| EP-86 | 8/19/98 | EPR1-9808-151 | GW | 7.66 | 7.67 | 8.1 | 2660 | 2690 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | 0.019 | |
| EP-86 | 11/12/98 | EPR1-9811-151 | GW | 7.45 | 7.9 | 2640 | 2480 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | 0.038 | | |
| EP-86 D | 11/12/98 | EPR1-9811-181 | GW | | | 7.9 | 2640 | 0.005 | U | 0.005 | U | 0.010 | U | 0.025 | 0.039 | |
| EP-86 | 2/18/99 | EPR1-9902-151 | GW | 6.5 | 7.74 | 7.9 | 2600 | 0.005 | U | 0.005 | U | 0.01 | U | 0.020 | 0.049 | |
| EP-86 | 5/11/99 | EPR1-9905-152 | GW | 8.7 | 7.69 | 8.2 | 2570 | J3 | 2600 | 0.007 | 0.005 | U | 0.010 | U | 0.031 | 0.025 |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999

Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) pH (flud) | pH (Lab) | Specific Conductivity SC (Lab) | Specific Conductivity SC (flud) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS |
|--------------------|----------|---------------|------|---------------------|-------------|--------------------------------------|---------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| EP-86 | 08/09/99 | EPR1-9908-152 | GW | 6.9 | 7.66 | 8.1 | 2600 | 2600 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 7.13 | 7.62 | 8.01 | 2627 | 2754 | 0.007 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.033 |
| Median | | | | 7.28 | 7.66 | 7.95 | 2640 | 2610 | 0.007 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.034 |
| Standard Deviation | | | | 1.07 | 0.10 | 0.16 | 28 | 298 | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.007 | 0.007 |
| Minimum | | | | 5.56 | 7.45 | 7.80 | 2570 | 2480 | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.020 |
| Maximum | | | | 8.70 | 7.74 | 8.30 | 2660 | 3300 | 0.011 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.043 |
| EP-87 | 09/15/97 | EPR1-9708-152 | GW | | | 7.50 | 546 | | 0.054 | 0.005 | U | 0.016 | 0.033 | 0.1 | U |
| EP-87 | 11/18/97 | EPR1-9711-152 | GW | 4.7 | 7.49 | 8.20 | 560 | 685 | 0.033 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-87 | 08/10/99 | EPR1-9908-153 | GW | 3.4 | 7.34 | 7.8 | 666 | 688 | 0.029 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 4.05 | 7.42 | 7.83 | 591 | 687 | 0.039 | 0.005 | U | 0.012 | 0.028 | 0.100 | 0.004 |
| Median | | | | 4.05 | 7.415 | 7.8 | 560 | 687 | 0.033 | 0.005 | U | 0.010 | 0.025 | 0.100 | 0.003 |
| Standard Deviation | | | | 0.92 | 0.11 | 0.35 | 66 | 2 | 0.013 | 0.000 | U | 0.005 | 0.000 | 0.002 | 0.006 |
| Minimum | | | | 3.40 | 7.34 | 7.50 | 546 | 685 | 0.029 | 0.005 | U | 0.010 | 0.025 | 0.100 | 0.005 |
| Maximum | | | | 4.70 | 7.49 | 8.20 | 666 | 688 | 0.054 | 0.005 | U | 0.016 | 0.033 | 0.100 | 0.006 |
| EP-88 | 08/12/97 | EPR1-9708-153 | GW | 0.73 | 7.35 | 8.40 | 5150 | 5370 | 0.02 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-88 | 11/11/97 | EPR1-9711-153 | GW | 0.43 | 7.41 | 7.90 | 5240 | 5980 | 0.017 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-88 | 02/12/98 | EPR1-9802-153 | GW | 1.53 | 7.24 | 7.80 | 5320 | 6600 | 0.017 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-88 | 05/11/98 | EPR1-9805-153 | GW | 1.21 | 7.60 | 8.00 | 5370 | 5860 | 0.032 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-88 | 8/17/98 | EPR1-9808-153 | GW | 0.85 | 7.31 | 7.7 | 5400 | 5460 | 0.027 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-88 | 11/11/98 | EPR1-9811-153 | GW | 4.9 | 7.4 | 7.6 | 4940 | 4710 | 0.016 | 0.012 | 0.010 | U | 0.025 | U | 0.055 |
| EP-88 | 2/11/99 | EPR1-9902-153 | GW | 1.3 | 7.53 | 8.2 | 5350 | 5360 | 0.028 | 0.008 | U | 0.010 | U | 0.025 | U |
| EP-88 | 5/7/99 | EPR1-9905-154 | GW | 0.9 | 7.34 | 7.9 | 5340 | 5810 | 0.017 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-88 | 08/05/99 | EPR1-9908-154 | GW | 4.4 | 7.34 | 8.1 | 5070 | 5930 | 0.021 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | | 1.81 | 7.39 | 7.96 | 5242 | 5676 | 0.022 | 0.006 | U | 0.010 | U | 0.025 | U |
| Median | | | | 1.21 | 7.35 | 7.9 | 5320 | 5810 | 0.020 | 0.005 | U | 0.010 | U | 0.025 | U |
| Standard Deviation | | | | 1.65 | 0.11 | 0.25 | 157 | 529 | 0.006 | 0.002 | U | 0.000 | U | 0.000 | 0.025 |
| Minimum | | | | 0.43 | 7.24 | 7.60 | 4940 | 4710 | 0.016 | 0.005 | U | 0.010 | U | 0.025 | U |
| Maximum | | | | 4.90 | 7.60 | 8.40 | 5400 | 6600 | 0.032 | 0.012 | U | 0.010 | U | 0.025 | U |
| EP-89 | 03/12/97 | EPR1-9708-154 | GW | 5.34 | 7.04 | 7.90 | 2780 | 2800 | 0.01 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-89 | 11/13/97 | EPR1-9711-154 | GW | 3.98 | 7.12 | 7.40 | 2770 | 3350 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-89 | 02/11/98 | EPR1-9802-154 | GW | 4.09 | 7.00 | 7.70 | 2770 | 3600 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-89 | 05/13/98 | EPR1-9805-154 | GW | 4.05 | 7.29 | 7.70 | 2780 | 2770 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-89 | 8/13/98 | EPR1-9808-154 | GW | 3.55 | 7.17 | 7.9 | 2840 | 2810 | 0.009 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-89 | 11/10/98 | EPR1-9811-154 | GW | 5.3 | 7.19 | 7.5 | 2860 | 2830 | 0.005 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-89 | 2/10/99 | EPR1-9902-154 | GW | 3.7 | 7.32 | 8.0 | 2770 | 2810 | 0.007 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-89 | 5/7/99 | EPR1-9905-155 | GW | 4.2 | 7.17 | 7.8 | 2790 | 2990 | 0.006 | 0.005 | U | 0.010 | U | 0.025 | U |
| EP-89 | 08/05/99 | EPR1-9908-155 | GW | 7.24 | 7.9 | 2850 | 3220 | 0.009 | 0.005 | U | 0.01 | U | 0.025 | U | |

Table H-2. Summary of Groundwater Analytical Results, August 1997 through August 1999
Wells Dissolved Metals

| Site | Date | Samp # | Type | (O) fluid | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) DIS | Cadmium (CD) DIS | Chromium (CR) DIS | Copper (CU) DIS | Iron (FE) DIS | Lead (PB) DIS | Selenium (SE) DIS | Zinc (ZN) DIS | | |
|--------------------|----------|---------------|------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|------|
| EP-89 D | 08/05/99 | EPR1-9908-198 | GW | | 7.24 | 8 | 2860 | | 3220 | 0.009 | 0.005 | U | 0.025 | U | 0.019 | | |
| Average | | | | 4.28 | 7.18 | 7.78 | 2807 | 3040 | | 0.007 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | | |
| Median | | | | 4.07 | 7.18 | 7.85 | 2785 | 2910 | | 0.007 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | | |
| Standard Deviation | | | | 0.68 | 0.10 | 0.20 | 40 | 290 | | 0.002 | 0.000 | 0.000 | 0.000 | 0.000 | 0.006 | | |
| Minimum | | | | 3.55 | 7.00 | 7.40 | 2770 | 2770 | | 0.005 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | | |
| Maximum | | | | 5.34 | 7.32 | 8.00 | 2860 | 3600 | | 0.010 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | | |
| EP-90 | 12/12/97 | EPR1-9711-139 | GW | | 7.41 | 8.10 | 2920 | 3700 | 0.15 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | |
| EP-90 | 02/17/98 | EPR1-9802-139 | GW | 5.13 | 7.12 | 7.80 | 2950 | 3920 | 0.18 | | 0.01 | U | 0.025 | U | 0.1 | U | |
| EP-90 | 05/13/98 | EPR1-9805-139 | GW | 3.68 | 7.39 | 7.80 | 2900 | 2740 | 0.17 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | |
| EP-90 | 8/17/98 | EPR1-9808-139 | GW | 1.91 | 7.42 | 7.8 | 2380 | 2390 | 0.21 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | |
| EP-90 | 11/15/98 | EPR1-9811-139 | GW | 1.7 | 7.43 | 7.6 | 2660 | 512 | R | 0.17 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 |
| EP-90 | 2/11/99 | EPR1-9902-155 | GW | 1.2 | 7.41 | 7.9 | 3340 | 3320 | 0.15 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | |
| EP-90 | 5/1/99 | EPR1-9905-156 | GW | 4.4 | 7.01 | 7.7 | 4090 | 4360 | 0.13 | 0.005 | U | 0.010 | U | 0.025 | U | 0.1 | |
| EP-90 | 08/05/99 | EPR1-9908-156 | GW | 1.1 | 7.19 | 7.8 | 4960 | 4960 | 0.16 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | |
| Average | | | | | | | | | | | | | | | | | |
| Median | | | | 2.73 | 7.30 | 7.81 | 3275 | 3238 | 0.165 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.725 | 0.052 | |
| Standard Deviation | | | | 1.91 | 7.4 | 7.8 | 2935 | 3510 | 0.165 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.720 | 0.033 | |
| Minimum | | | | 1.64 | 0.17 | 0.15 | 850 | 1379 | 0.024 | 0.000 | 0.000 | 0.000 | 0.000 | 0.000 | 0.218 | 0.057 | |
| Maximum | | | | 1.10 | 7.01 | 7.60 | 2380 | 512 | 0.130 | 0.005 | 0.010 | 0.025 | 0.100 | 0.003 | 0.420 | 0.020 | |

TABLE H-3

**ANALYTICAL RESULTS FOR TOTAL METALS,
GROUNDWATER SAMPLES, EM WELLS**

Table H-3. Summary of Groundwater Analytical Results, August 1999 through February 2000
EM Total Metals

| Site | Date | Samp # | Type | (O) fild | pH (fild) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | | | | | | | | | |
|--------------------|----------|---------------|------|----------|--------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| EM-1 | 08/11/99 | EPRI-9908-168 | GW | 1.5 | 7.38 | 7.8 | 5610 | 5500 | 0.005 | U | 0.01 | U | 0.025 | U | 0.23 | J4 | 0.007 | 0.005 | U | 0.042 | | | | |
| EM-1 | 10/30/99 | EPRI-9911-161 | GW | | 7.16 | 7.8 | 5600 | 5050 | 0.005 | U | 0.01 | U | 0.025 | U | 0.59 | J2 | 0.004 | 0.005 | U | 0.02 | U | | | |
| EM-1 | 01/31/00 | EPRI-0002-195 | GW | 1.02 | 7.26 | 7.8 | 5580 | 5310, | 0.005 | U | 0.01 | U | 0.025 | U | 0.84 | 0.003 | 0.007 | 0.007 | U | 0.02 | U | | | |
| Average | | | | 1.26 | 7.27 | 7.80 | 5597 | 5287 | 0.005 | | 0.010 | | 0.025 | | 0.553 | | 0.005 | 0.006 | | 0.027 | | | | |
| Median | | | | 1.26 | 7.26 | 7.8 | 5600 | 5310 | 0.005 | | 0.010 | | 0.025 | | 0.590 | | 0.004 | 0.005 | | 0.020 | | | | |
| Standard Deviation | | | | 0.34 | 0.11 | 0.00 | 15 | 225.91 | 0.000 | | 0.000 | | 0.000 | | 0.307 | | 0.002 | 0.001 | | 0.013 | | | | |
| Minimum | | | | 1.02 | 7.16 | 7.80 | 5580 | 5050 | 0.005 | | 0.010 | | 0.025 | | 0.230 | | 0.003 | 0.005 | | 0.020 | | | | |
| Maximum | | | | 1.50 | 7.38 | 7.80 | 5610 | 5500 | 0.005 | | 0.010 | | 0.025 | | 0.840 | | 0.007 | 0.007 | | 0.042 | | | | |
| EM-2 | 08/06/99 | EPRI-9908-169 | GW | 1.6 | 6.81 | 7.5 | 5740 | 6320 | 1.9 | 0.005 | U | 0.01 | U | 0.03 | 2.4 | 0.013 | 0.11 | 0.038 | | | | | | |
| EM-2 | 10/29/99 | EPRI-9911-262 | GW | 1.1 | 6.6 | 7.7 | 6040 | 5360 | 1.4 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.003 | U | 0.17 | 0.02 | U | | |
| EM-2 | 01/25/00 | EPRI-0002-196 | GW | 3.3 | 7.05 | 7.7 | 5330 | 5160 | 1 | 0.005 | U | 0.01 | U | 0.025 | U | 1.2 | J4 | 0.019 | J1 | 0.12 | 0.02 | U | | |
| Average | | | | 2.00 | 6.82 | 7.63 | 5703 | 5613 | 1.433 | 0.005 | | 0.010 | | 0.027 | | 1.233 | | 0.012 | 0.133 | | 0.026 | | | |
| Median | | | | 1.60 | 6.81 | 7.7 | 5740 | 5360 | 1.400 | 0.005 | | 0.010 | | 0.025 | | 1.200 | | 0.013 | 0.120 | | 0.020 | | | |
| Standard Deviation | | | | 1.15 | 0.23 | 0.12 | 356 | | 0.451 | 0.000 | | 0.000 | | 0.003 | | 1.150 | | 0.008 | 0.032 | | 0.010 | | | |
| Minimum | | | | 1.10 | 6.60 | 7.50 | 5330 | 5160 | 1.000 | 0.005 | | 0.010 | | 0.025 | | 0.100 | | 0.003 | 0.110 | | 0.020 | | | |
| Maximum | | | | 3.30 | 7.05 | 7.70 | 6040 | 6320 | 1.900 | 0.005 | | 0.010 | | 0.030 | | 2.400 | | 0.019 | 0.170 | | 0.038 | | | |
| EM-4 | 08/06/99 | EPRI-9908-170 | GW | 0.8 | 7.21 | 7.9 | 10440 | 10600 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.18 | 0.003 | 0.005 | U | 0.022 | | | | |
| EM-4 | 10/29/99 | EPRI-9911-164 | GW | 2.1 | 6.96 | 7.8 | 9400 | 8720 | 0.012 | 0.005 | U | 0.01 | U | 0.025 | U | 0.1 | U | 0.004 | 0.005 | U | 0.037 | | | |
| EM-4 | 01/25/00 | EPRI-0002-197 | GW | 1.5 | 7.28 | 7.8 | 9240 | 9300 | 0.005 | U | 0.003 | U | 0.01 | U | 0.025 | U | 0.1 | J4 | 0.007 | J1 | 0.005 | U | 0.021 | |
| Average | | | | 1.47 | 7.15 | 7.83 | 9693 | 9540 | 0.008 | 0.005 | | 0.010 | | 0.025 | | 0.127 | | 0.005 | 0.005 | | 0.027 | | | |
| Median | | | | 1.50 | 7.21 | 7.8 | 9400 | 9300 | 0.007 | 0.005 | | 0.010 | | 0.025 | | 0.100 | | 0.004 | 0.005 | | 0.022 | | | |
| Standard Deviation | | | | 0.65 | 0.17 | 0.06 | 652 | 963 | 0.004 | 0.000 | | 0.000 | | 0.000 | | 0.046 | | 0.002 | 0.000 | | 0.009 | | | |
| Minimum | | | | 0.80 | 6.96 | 7.80 | 9240 | 8720 | 0.005 | 0.005 | | 0.010 | | 0.025 | | 0.100 | | 0.003 | 0.005 | | 0.021 | | | |
| Maximum | | | | 2.10 | 7.28 | 7.90 | 10440 | 10600 | 0.012 | 0.005 | | 0.010 | | 0.025 | | 0.180 | | 0.007 | 0.005 | | 0.037 | | | |
| EM-5 | 08/06/99 | EPRI-9908-171 | GW | 0.7 | 7.46 | 7.8 | 2660 | 2630 | 2.3 | 0.017 | U | 0.01 | U | 0.025 | U | 0.72 | | 0.003 | 0.007 | | 0.11 | | | |
| EM-5 | 11/02/99 | EPRI-9911-165 | GW | 4.1 | 7.38 | 7.9 | 3010 | 3210 | 2.4 | 0.005 | U | 0.01 | U | 0.025 | U | 0.87 | J2 | 0.006 | 0.005 | U | 0.061 | | | |
| EM-5 | 11/02/99 | EPRI-9911-236 | GW | 4 | 7.39 | 8 | 3020 | 3190 | 2.3 | 0.006 | U | 0.01 | U | 0.025 | U | 0.83 | J2 | 0.009 | 0.005 | U | 0.063 | | | |
| Average | | | | 2.28 | 7.44 | 7.93 | 2698 | 2770 | 2.400 | 0.011 | | 0.010 | | 0.025 | | 0.738 | | 0.008 | 0.006 | | 0.077 | | | |
| Median | | | | 2.35 | 7.425 | 7.95 | 2835 | 2910 | 2.350 | 0.011 | | 0.010 | | 0.025 | | 0.775 | | 0.008 | 0.006 | | 0.068 | | | |
| Standard Deviation | | | | 2.06 | 0.06 | 0.10 | 432 | 0.141 | 0.006 | 0.000 | | 0.152 | | 0.004 | | 0.001 | | 0.023 | | 0.005 | | 0.072 | | |
| Minimum | | | | 0.30 | 7.38 | 7.80 | 2100 | 2050 | 2.300 | 0.005 | | 0.010 | | 0.025 | | 0.530 | | 0.003 | 0.005 | | 0.061 | | | |

Table H-3. Summary of Groundwater Analytical Results, August 1999 through February 2000
EM Total Metals

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|--------------------|----------|---------------|------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| Maximum | | | | 4.10 | 7.51 | 8.00 | 3020 | 3210 | 2,600 | 0.017 | 0.010 | 0.025 | 0.870 | 0.012 | 0.007 |
| EM-6 | 08/06/99 | EPR1-9908-172 | GW | 0.5 | 7.3 | 8 | 3640 | 3840 | 0.033 | 0.007 | 0.01 | 0.067 | 0.1 | 0.008 | 0.071 |
| EM-6 | 08/06/99 | EPR1-9908-200 | GW | 0.4 | 7.3 | 8 | 3640 | 3850 | 0.032 | 0.007 | 0.01 | 0.065 | 0.1 | 0.009 | 0.07 |
| EM-6 | 11/02/99 | EPR1-9911-166 | GW | 2.2 | 7.3 | 8 | 3300 | 3660 | 0.037 | 0.007 | 0.01 | 0.069 | 0.12 | J2 | 0.013 |
| EM-6 | 01/25/00 | EPR1-0002-199 | GW | 1.2 | 7.26 | 8 | 4330 | 4240 | 0.024 | 0.005 | 0.01 | 0.025 | 0.1 | JU | 0.012 |
| Average | | | | 1.08 | 7.29 | 8.00 | 3728 | 3898 | 0.032 | 0.007 | 0.010 | 0.057 | 0.105 | 0.011 | 0.073 |
| Median | | | | 0.85 | 7.3 | 8 | 3640 | 3845 | 0.033 | 0.007 | 0.010 | 0.066 | 0.100 | 0.011 | 0.071 |
| Standard Deviation | | | | 0.83 | 0.02 | 0.00 | 432 | 244 | 0.005 | 0.001 | 0.000 | 0.021 | 0.010 | 0.002 | 0.007 |
| Minimum | | | | 0.40 | 7.26 | 8.00 | 3300 | 3660 | 0.024 | 0.005 | 0.010 | 0.025 | 0.100 | 0.008 | 0.066 |
| Maximum | | | | 2.20 | 7.30 | 8.00 | 4330 | 4240 | 0.037 | 0.007 | 0.010 | 0.069 | 0.120 | 0.013 | 0.083 |
| EM-7 | 08/06/99 | EPR1-9908-173 | GW | 3.9 | 7.54 | 7.7 | 4410 | 4420 | 2.2 | 0.073 | 0.018 | 0.16 | 1.4 | 0.63 | 0.037 |
| EM-7 | 10/30/99 | EPR1-9911-167 | GW | | 7.41 | 7.8 | 2520 | 2410 | 3.3 | 0.26 | 0.036 | 0.81 | 2.9 | 1.5 | 0.077 |
| EM-7 | 01/31/00 | EPR1-0002-200 | GW | 1.2 | 7.59 | 7.8 | 2260 | 1980 | 2.1 | 0.29 | 0.043 | 1.3 | 4 | 2 | 0.071 |
| Average | | | | 2.55 | 7.51 | 7.77 | 3063 | 2937 | 2.533 | 0.208 | 0.032 | 0.757 | 2.767 | 1.377 | 0.062 |
| Median | | | | 2.55 | 7.54 | 7.8 | 2520 | 2410 | 2.200 | 0.260 | 0.036 | 0.810 | 2.900 | 1.500 | 0.071 |
| Standard Deviation | | | | 1.91 | 0.09 | 0.06 | 1173 | | 0.6666 | 0.118 | 0.013 | 0.572 | 1.305 | 0.693 | 0.022 |
| Minimum | | | | 1.20 | 7.41 | 7.70 | 2260 | 1980 | 2.100 | 0.073 | 0.018 | 0.160 | 1.400 | 0.630 | 0.037 |
| Maximum | | | | 3.90 | 7.59 | 7.80 | 4410 | 4420 | 3,300 | 0.290 | 0.043 | 1.300 | 4,000 | 2,000 | 0.077 |

TABLE H-4

**ANALYTICAL RESULTS FOR TOTAL METALS,
GROUNDWATER SAMPLES, EP WELLS**

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | |
|--------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|------|
| EP-4 | 08/02/99 | EPRI-9908-100 | GW 1.3 | 7.61 | 7.8 | 2440 | 0.13 | 0.005 | U | 0.01 | U | 0.025 | U | 2.20 | |
| EP-4 | 10/25/99 | EPRI-9911-100 | GW 1 | 7.28 | 8.3 | 2660 | 0.16 | 0.005 | U | 0.012 | U | 0.18 | I2 | 13.00 | |
| EP-4 | 01/29/00 | EPRI-0002-100 | GW 1 | 7.64 | 8 | 2310 | 0.13 | 0.005 | U | 0.01 | U | 0.025 | U | 7.50 | |
| Average | | | 1.15 | 7.51 | 8.03 | 2470 | 0.140 | 0.005 | U | 0.011 | U | 0.077 | U | 7.57 | |
| Median | | | 1.15 | 7.61 | 8 | 2440 | 0.130 | 0.005 | U | 0.010 | U | 0.025 | U | 7.50 | |
| Standard Deviation | | | 0.21 | 0.20 | 0.25 | 177 | 0.017 | 0.000 | U | 0.001 | U | 0.089 | U | 0.057 | |
| Minimum | | | 1.00 | 7.28 | 7.80 | 2310 | 0.130 | 0.005 | U | 0.010 | U | 0.025 | U | 2.20 | |
| Maximum | | | 1.30 | 7.64 | 8.30 | 2660 | 0.160 | 0.005 | U | 0.012 | U | 0.180 | U | 13.00 | |
| EP-5 | 08/02/99 | EPRI-9908-101 | GW 1.8 | 7.44 | 7.9 | 3300 | 0.057 | 0.005 | U | 0.01 | U | 0.025 | U | 1.50 | |
| EP-5 | 10/25/99 | EPRI-9911-101 | GW 1 | 8.1 | 8230 | | 0.042 | 0.005 | U | 0.01 | U | 0.055 | U | 0.43 | |
| Average | | | 1.80 | 7.44 | 8.00 | 5765 | 0.050 | 0.005 | U | 0.010 | U | 0.040 | U | 0.97 | |
| Median | | | 1.80 | 7.44 | 8 | 5765 | 0.050 | 0.005 | U | 0.010 | U | 0.040 | U | 0.97 | |
| Standard Deviation | | | 0.14 | 0.14 | 0.14 | 3486 | 0.011 | 0.000 | U | 0.000 | U | 0.021 | U | 0.76 | |
| Minimum | | | 1.80 | 7.44 | 7.90 | 3300 | 0.042 | 0.005 | U | 0.010 | U | 0.025 | U | 0.43 | |
| Maximum | | | 1.80 | 7.44 | 8.10 | 8230 | 0.050 | 0.005 | U | 0.010 | U | 0.055 | U | 1.50 | |
| EP-6 | 08/02/99 | EPRI-9908-102 | GW 1.6 | 7.37 | 8.4 | 7760 | 0.027 | 0.005 | U | 0.01 | U | 0.025 | U | 0.12 | |
| EP-6 | 10/25/99 | EPRI-9911-102 | GW 3.1 | 7.15 | 8 | 8070 | 0.018 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | |
| EP-6 | 01/29/00 | EPRI-0002-102 | GW 3.1 | 7.46 | 7.9 | 7860 | 0.02 | 0.005 | U | 0.01 | U | 0.031 | U | 0.39 | |
| Average | | | 2.35 | 7.33 | 8.10 | 7897 | 0.022 | 0.005 | U | 0.010 | U | 0.027 | U | 0.20 | |
| Median | | | 2.35 | 7.37 | 8 | 7860 | 0.020 | 0.005 | U | 0.010 | U | 0.025 | U | 0.12 | |
| Standard Deviation | | | 1.06 | 0.16 | 0.26 | 158 | 0.005 | 0.000 | U | 0.000 | U | 0.003 | U | 0.16 | |
| Minimum | | | 1.60 | 7.15 | 7.90 | 7760 | 0.018 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | |
| Maximum | | | 3.10 | 7.46 | 8.40 | 8070 | 0.027 | 0.005 | U | 0.010 | U | 0.031 | U | 0.39 | |
| EP-7 | 08/02/99 | EPRI-9908-103 | GW 1.9 | 7.33 | 7.7 | 3790 | 0.063 | 0.005 | U | 0.01 | U | 0.025 | U | 1.60 | |
| EP-7 | 10/25/99 | EPRI-9911-103 | GW 6.97 | 7.8 | 6700 | 6910 | 0.12 | 0.005 | U | 0.01 | U | 0.025 | U | 5.80 | |
| EP-7 | 10/25/99 | EPRI-9911-206 | GW 7.9 | 6700 | 7.5 | 3840 | 3630 | 0.097 | 0.005 | U | 0.01 | U | 0.025 | U | 5.50 |
| EP-7 | 01/29/00 | EPRI-0002-103 | GW 1.7 | 7.27 | 7.5 | 3790 | 3560 | 0.095 | 0.005 | U | 0.01 | U | 0.025 | U | 3.50 |
| EP-7 | 01/29/00 | EPRI-0002-230 | GW 2.6 | 7.34 | 7.8 | 3820 | 3560 | 0.095 | 0.005 | U | 0.01 | U | 0.025 | U | 3.00 |
| Average | | | 2.07 | 7.23 | 7.74 | 4970 | 0.099 | 0.005 | U | 0.010 | U | 0.025 | U | 3.88 | |
| Median | | | 1.90 | 7.3 | 7.8 | 3840 | 0.097 | 0.005 | U | 0.010 | U | 0.025 | U | 3.50 | |
| Standard Deviation | | | 0.47 | 0.17 | 0.15 | 1579 | 0.023 | 0.000 | U | 0.000 | U | 0.005 | U | 1.76 | |
| Minimum | | | 1.70 | 6.97 | 7.50 | 3790 | 0.063 | 0.005 | U | 0.010 | U | 0.025 | U | 1.60 | |
| Maximum | | | 2.60 | 7.34 | 7.90 | 6700 | 0.120 | 0.005 | U | 0.010 | U | 0.025 | U | 5.80 | |
| EP-12 | 08/11/99 | EPRI-9908-104 | GW 0.1 | 7.31 | 7.6 | 6110 | 6070 | 2 | 0.005 | U | 0.01 | 0.025 | U | 1.40 | |
| EP-12 | 10/29/99 | EPRI-9911-104 | GW 2.5 | 8 | 8.3 | 4400 | 4180 | 3.3 | 0.005 | U | 0.015 | 0.031 | U | 0.42 | |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | | |
|--------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|
| EP-12 | 02/08/00 | EPRI-0002-104 | GW | 7.5 | 5520 | | 2.3 | 0.005 | U | 0.01 | U | 0.025 | U | 1.60 | | |
| EP-12 D | 02/08/00 | EPRI-0002-237 | GW | 7.6 | 5420 | | 2.6 | 0.005 | U | 0.011 | U | 0.025 | U | 1.50 | | |
| Average | | | 1.30 | 7.66 | 5363 | 5125 | 2.550 | 0.005 | 0.012 | 0.027 | 1.24 | 0.011 | 0.360 | 0.020 | | |
| Median | | | 1.30 | 7.655 | 7.6 | 5170 | 5125 | 2.450 | 0.005 | 0.011 | 0.025 | 1.45 | 0.010 | 0.350 | 0.020 | |
| Standard Deviation | | | 1.70 | 0.49 | 0.37 | 710 | 0.557 | 0.000 | 0.002 | 0.003 | 0.54 | 0.007 | 0.107 | 0.001 | | |
| Minimum | | | 0.10 | 7.31 | 7.50 | 4400 | 4180 | 2.000 | 0.005 | 0.010 | 0.025 | 0.44 | 0.004 | 0.260 | 0.020 | |
| Maximum | | | 2.50 | 8.00 | 8.30 | 6110 | 6070 | 3.300 | 0.005 | 0.015 | 0.031 | 1.60 | 0.021 | 0.480 | 0.021 | |
| EP-13 | 08/03/99 | EPRI-9908-105 | GW | 2.6 | 7.19 | 7.5 | 11200 | 11300 | 38 | 0.66 | 0.01 | U | 0.053 | 0.40 | 0.069 | |
| EP-13 | 10/28/99 | EPRI-9911-105 | GW | 3.7 | 7.03 | 8 | 8960 | 8160 | 31 | 0.38 | 0.01 | U | 0.025 | U | 0.47 | |
| EP-13 | 01/25/00 | EPRI-0002-105 | GW | 4.7 | 7.27 | 7.8 | 10170 | 9840 | 34 | 0.53 | 0.01 | U | 0.025 | U | 0.47 | |
| Average | | | 3.67 | 7.16 | 7.77 | 10110 | 9767 | 34,333 | 0.523 | 0.010 | 0.034 | 0.45 | 0.015 | 4.867 | 0.039 | |
| Median | | | 3.70 | 7.19 | 7.8 | 10170 | 9840 | 34,000 | 0.530 | 0.010 | 0.025 | 0.47 | 0.010 | 4,500 | 0.030 | |
| Standard Deviation | | | | | 0.25 | 1121 | | 3,512 | 0.140 | 0.000 | 0.016 | 0.04 | 0.009 | 0.723 | 0.025 | |
| Minimum | | | 2.60 | 7.03 | 7.50 | 8960 | 8160 | 31,000 | 0.380 | 0.010 | 0.025 | 0.40 | 0.009 | 4,400 | 0.020 | |
| Maximum | | | 4.70 | 7.27 | 8.00 | 11200 | 11300 | 38,000 | 0.660 | 0.010 | 0.053 | 0.47 | 0.025 | 5,700 | 0.068 | |
| EP-14 | 08/03/99 | EPRI-9908-106 | GW | 0.4 | 7.11 | 7.5 | 4300 | 4340 | 2.1 | 0.005 | U | 0.01 | U | 0.90 | 0.098 | |
| EP-14 | 10/28/99 | EPRI-9911-106 | GW | 0.2 | 6.87 | 8.1 | 4750 | 5400 | 1.4 | 0.005 | U | 0.01 | U | 0.025 | U | |
| EP-14 | 01/25/00 | EPRI-0002-106 | GW | 0.1 | 6.92 | 7.5 | 5130 | 4970 | 1.5 | 0.005 | U | 0.01 | U | 0.025 | U | |
| Average | | | 0.23 | 6.97 | 7.70 | 4727 | 4903 | 1,667 | 0.005 | 0.010 | 0.025 | 0.42 | 0.007 | 0.200 | 0.028 | |
| Median | | | 0.20 | 6.92 | 7.5 | 4750 | 4970 | 1,500 | 0.005 | 0.010 | 0.025 | 0.18 | 0.008 | 0.200 | 0.020 | |
| Standard Deviation | | | 0.15 | 0.13 | 0.35 | 415 | | 0.379 | 0.000 | 0.000 | 0.000 | 0.42 | 0.004 | 0.010 | 0.024 | |
| Minimum | | | 0.10 | 6.87 | 7.50 | 4300 | | 4340 | 1,400 | 0.005 | 0.010 | 0.025 | 0.18 | 0.003 | 0.190 | 0.010 |
| Maximum | | | 0.40 | 7.11 | 8.10 | 5130 | | 5400 | 2,100 | 0.005 | 0.010 | 0.025 | 0.90 | 0.010 | 0.210 | 0.055 |
| EP-15 | 08/03/99 | EPRI-9908-107 | GW | 2 | 7.19 | 7.5 | 4460 | 4500 | 0.014 | 0.005 | U | 0.01 | U | 0.025 | U | |
| EP-15 D | 08/03/99 | EPRI-9908-194 | GW | 2 | 7.19 | 7.6 | 4460 | 4520 | 0.014 | 0.005 | U | 0.01 | U | 0.025 | U | |
| EP-15 | 10/28/99 | EPRI-9911-107 | GW | 1.3 | 6.85 | 8.1 | 4400 | 3960 | 0.021 | 0.012 | 0.01 | U | 0.025 | U | 1.20 | |
| EP-15 | 01/24/00 | EPRI-0002-107 | GW | 1.6 | 7.14 | 7.8 | 4560 | 4470 | 0.009 | 0.005 | U | 0.01 | U | 0.025 | U | |
| Average | | | 1.73 | 7.09 | 7.75 | 4470 | 4363 | 0.015 | 0.007 | 0.010 | 0.025 | 1.57 | 0.005 | 0.140 | 0.021 | |
| Median | | | 1.80 | 7.165 | 7.7 | 4460 | 4485 | 0.014 | 0.005 | 0.010 | 0.025 | 0.97 | 0.004 | 0.145 | 0.021 | |
| Standard Deviation | | | 0.34 | 0.16 | 0.26 | 66 | | 269 | 0.005 | 0.004 | 0.000 | 0.000 | 1.37 | 0.003 | 0.014 | 0.001 |
| Minimum | | | 1.30 | 6.85 | 7.50 | 4400 | | 3960 | 0.009 | 0.005 | 0.010 | 0.025 | 0.74 | 0.003 | 0.120 | 0.020 |
| Maximum | | | 2.00 | 7.19 | 8.10 | 4560 | | 4520 | 0.021 | 0.012 | 0.010 | 0.025 | 3.60 | 0.010 | 0.150 | 0.022 |
| EP-20 | 08/02/99 | EPRI-9908-108 | GW | 1.6 | 6.89 | 7.2 | 9930 | 10090 | 1.1 | 0.03 | 0.01 | U | 0.026 | 0.90 | 0.005 | U |
| EP-20 | 10/26/99 | EPRI-9911-108 | GW | 2.2 | 6.73 | 7.2 | 9800 | 9770 | 0.75 | J4 | 0.03 | 0.01 | UJ | 0.025 | U | 1.60 |
| EP-20 | 01/31/00 | EPRI-0002-108 | GW | 2.1 | 6.86 | 7.5 | 9530 | 9120 | 0.97 | 0.076 | 0.01 | U | 0.025 | U | 1.70 | 0.004 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fl.d) | pH (fl.d) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | | | | | | | | |
|--------------------|----------|---------------|------------|-----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|-------|-------|-----------|-------|-------|---|
| EP-20 D | 01/31/00 | EPRI-0002-232 | GW | 1.1 | 6.8 | 7.5 | 9500 | 9050 | 0.9 | 0.066 | 0.01 | U | 0.025 | U | 1.90 | 0.007 | 0.29 | 0.055 | | | | |
| Average | | | | 1.75 | 6.82 | 7.35 | 9690 | 9508 | 0.930 | 0.051 | 0.010 | 0.025 | 1.53 | 0.005 | 0.298 | 0.050 | | | | | | |
| Median | | | | 1.85 | 6.83 | 7.35 | 9665 | 9445 | 0.935 | 0.048 | 0.010 | 0.025 | 1.65 | 0.005 | 0.285 | 0.051 | | | | | | |
| Standard Deviation | | | | 0.51 | 0.07 | 0.17 | 209 | | 0.146 | 0.024 | 0.000 | 0.000 | 0.43 | 0.002 | 0.036 | 0.009 | | | | | | |
| Minimum | | | | 1.10 | 6.73 | 7.20 | 9500 | 9050 | 0.750 | 0.030 | 0.010 | 0.025 | 0.90 | 0.003 | 0.270 | 0.040 | | | | | | |
| Maximum | | | | 2.20 | 6.89 | 7.50 | 9930 | 10090 | 1.100 | 0.076 | 0.010 | 0.026 | 1.90 | 0.007 | 0.350 | 0.060 | | | | | | |
| EP-21 | 08/10/99 | EPRI-9908-109 | GW | 0.8 | 7.66 | 8 | 5140 | 5160 | 0.042 | 0.005 | U | 0.01 | U | 0.03 | 1.30 | J4 | 0.016 | 0.017 | 0.079 UJ1 | | | |
| EP-21 | 11/03/99 | EPRI-9911-109 | GW | 1.3 | 7.28 | 7.9 | 5240 | 5760 | 0.15 | 0.012 | 0.01 | U | 0.13 | 8.70 | 0.078 | J4 | 0.015 | 1 | | | | |
| EP-21 | 02/01/00 | EPRI-0002-109 | GW | 0.7 | 7.54 | 8.1 | 4880 | 1101 | R | 0.064 | 0.005 | U | 0.01 | U | 0.025 | U | 1.80 | J4 | 0.007 | 0.071 | 0.15 | |
| Average | | | | 0.93 | 7.49 | 8.00 | 5087 | 4007 | 0.085 | 0.007 | 0.010 | 0.062 | 3.93 | 0.034 | 0.034 | 0.410 | | | | | | |
| Median | | | | 0.80 | 7.54 | 8 | 5140 | 5160 | 0.064 | 0.005 | 0.010 | 0.030 | 1.80 | 0.016 | 0.017 | 0.150 | | | | | | |
| Standard Deviation | | | | 0.32 | 0.19 | 0.10 | 186 | | 0.057 | 0.004 | 0.000 | 0.059 | 4.14 | 0.039 | 0.032 | 0.512 | | | | | | |
| Minimum | | | | 0.70 | 7.28 | 7.90 | 4880 | 1101 | 0.042 | 0.005 | 0.010 | 0.025 | 1.30 | 0.007 | 0.015 | 0.079 | | | | | | |
| Maximum | | | | 1.30 | 7.66 | 8.10 | 5240 | 5760 | 0.150 | 0.012 | 0.010 | 0.130 | 8.70 | 0.078 | 0.071 | 1.000 | | | | | | |
| EP-22 D | 11/16/98 | EPRI-9811-110 | GW | 0.9 | 7.51 | 8 | 7480 | 7480 | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | U | 0.003 | U | 0.054 | 0.083 | |
| EP-22 | 01/26/00 | EPRI-0002-110 | GW | 2.8 | 7.19 | 7.9 | 7500 | 6930 | 1.2 | 0.011 | 0.012 | 0.037 | 12.00 | 0.1 | 0.11 | 0.11 | 0.26 | | | | | |
| Average | | | | 1.85 | 7.35 | 7.95 | 7490 | | 1 | 0 | 0 | 0 | 6.05 | 0 | 0 | 0 | | | | | | |
| Median | | | | 1.85 | 7.35 | 7.95 | 7490 | | 1 | 0 | 0 | 0 | 6.05 | 0 | 0 | 0 | | | | | | |
| Standard Deviation | | | | 1.34 | 0.23 | 0.07 | 14 | | 1 | 0 | 0 | 0 | 8.41 | 0 | 0 | 0 | | | | | | |
| Minimum | | | | 0.90 | 7.19 | 7.90 | 7480 | | 0 | 0 | 0 | 0 | 0.10 | 0 | 0 | 0 | | | | | | |
| Maximum | | | | 2.80 | 7.51 | 8.00 | 7500 | | 1 | 0 | 0 | 0 | 12.00 | 0 | 0 | 0 | | | | | | |
| EP-23 | 08/04/99 | EPRI-9908-111 | GW | | 7.49 | 7.8 | 3750 | 3840 | 9.4 | 0.005 | U | 0.01 | J4 | 0.039 | J4 | 0.78 | J4 | 0.02 | J4 | 0.009 | 0.099 | |
| EP-23 | 10/30/99 | EPRI-9911-111 | GW | | 7.35 | 7.9 | 3340 | 3320 | 11 | 0.008 | 0.01 | U | 0.24 | 0.93 | 0.93 | 0.088 | 0.013 | 0.012 | 0.14 | J2 | | |
| EP-23 | 02/01/00 | EPRI-0002-111 | GW | 1 | 7.49 | 7.8 | 4770 | 951 | R | 3.1 | J4 | 0.006 | 0.01 | U | 0.15 | 1.10 | J1, | 0.081 | 0.012 | 0.1 | | |
| Average | | | | 7.44 | 7.83 | 3953 | 2704 | | 7.833 | 0.006 | 0.010 | 0.143 | 0.94 | 0.063 | 0.011 | 0.113 | | | | | | |
| Median | | | | 7.49 | 7.8 | 3750 | 3320 | | 9.400 | 0.006 | 0.010 | 0.150 | 0.93 | 0.081 | 0.012 | 0.100 | | | | | | |
| Standard Deviation | | | | 0.08 | 0.06 | 736 | | | 4.177 | 0.002 | 0.000 | 0.101 | 0.16 | 0.037 | 0.002 | 0.023 | | | | | | |
| Minimum | | | | 1.00 | 7.35 | 7.80 | 3340 | | 951 | 3.100 | 0.005 | 0.010 | 0.039 | 0.78 | 0.020 | 0.009 | 0.099 | | | | | |
| Maximum | | | | 1.00 | 7.49 | 7.90 | 4770 | | 3840 | 11.000 | 0.008 | 0.010 | 0.240 | 1.10 | 0.088 | 0.013 | 0.140 | | | | | |
| EP-24 | 08/10/99 | EPRI-9908-112 | GW | 0.6 | 7.05 | 7.8 | 5680 | | 5640 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U | 0.17 | J4 | 0.003 | U | 0.005 | U |
| EP-24 | 11/03/99 | EPRI-9911-112 | GW | 1 | 6.96 | 7.7 | 5200 | | 5990 | 0.007 | 0.005 | U | 0.01 | U | 0.022 | 1.40 | 0.009 | J4 | 0.005 | U | 0.024 | U |
| EP-24 | 02/01/00 | EPRI-0002-112 | GW | 0.3 | 6.93 | 7.5 | 5120 | | 1072 | R | 0.006 | J4 | 0.005 | U | 0.025 | U | 0.43 | J1, | 0.008 | 0.006 | 0.02 | U |
| Average | | | | 0.63 | 6.98 | 7.67 | 5333 | | 4234 | 0.009 | 0.005 | 0.010 | 0.024 | 0.67 | 0.007 | 0.005 | 0.021 | | | | | |
| Median | | | | 0.60 | 6.96 | 7.7 | 5200 | | 5640 | 0.007 | 0.005 | 0.010 | 0.025 | 0.43 | 0.008 | 0.005 | 0.020 | | | | | |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000
Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | Conductivity SC (fld) | (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|--------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|-----------------------|----------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| Standard Deviation | | | 0.35 | 0.06 | 0.15 | 303 | | 0.004 | 0.000 | 0.002 | 0.000 | 0.003 | 0.001 | 0.002 | |
| Minimum | | | 0.30 | 6.93 | 7.50 | 5120 | | 1072 | 0.006 | 0.005 | 0.010 | 0.022 | 0.17 | 0.003 | 0.020 |
| Maximum | | | 1.00 | 7.05 | 7.80 | 5680 | | 5990 | 0.013 | 0.005 | 0.010 | 0.025 | 1.40 | 0.009 | 0.024 |
| Geometric Mean | | | 0.565 | 6.980 | 7.666 | 5328 | | 3309 | 0.008 | 0.005 | 0.010 | 0.024 | 0.47 | 0.006 | 0.021 |
| EP-25 | 08/11/99 | EPRI-9908-113 | GW | 7.1 | 7210 | | | 1.1 | 0.005 | U | 0.01 | U | 0.025 | U | 8.20 |
| EP-25 | 11/03/99 | EPRI-9911-113 | GW | 3.3 | 6.87 | 7.3 | 6580 | 5750 | 7.8 | 0.005 | U | 0.01 | U | 0.009 | 0.15 |
| EP-25 D | 11/03/99 | EPRI-9911-238 | GW | 3.3 | 6.82 | 7.5 | 5640 | 5970 | 6.7 | 0.005 | U | 0.01 | U | 0.034 | 0.3 |
| EP-25 | 02/08/00 | EPRI-0002-113 | GW | 7.6 | 5200 | | | 4 | 0.006 | U | 0.01 | U | 0.14 | 7.50 | 0.12 |
| Average | | | 3.30 | 6.85 | 7.38 | 6158 | | 4,900 | 0.005 | 0.010 | U | 0.067 | U | 7.15 | 0.054 |
| Median | | | 3.3 | 6.845 | 7.4 | 6110 | | 5,350 | 0.005 | 0.010 | U | 0.051 | U | 7.10 | 0.043 |
| Standard Deviation | | | 0.00 | 0.04 | 0.22 | 908 | | 2,994 | 0.001 | 0.000 | U | 0.051 | U | 0.88 | 0.048 |
| Minimum | | | 3.30 | 6.82 | 7.10 | 5200 | | 1,100 | 0.005 | 0.010 | U | 0.025 | U | 6.20 | 0.009 |
| Maximum | | | 3.30 | 6.87 | 7.60 | 7210 | | 7,800 | 0.006 | 0.010 | U | 0.140 | U | 8.20 | 0.120 |
| EP-26 | 08/04/99 | EPRI-9908-114 | GW | 7.07 | 7.4 | 2000 | 2200 | 2.28 | J4 | 2.5 | 0.01 | U | 0.28 | J4 | 2.20 |
| EP-26 | 01/26/00 | EPRI-0002-114 | GW | 0.5 | 7.16 | 7.9 | 4440 | 4210 | 0.085 | 0.29 | U | 0.057 | U | 17.00 | 0.12 |
| Average | | | 7.12 | 7.65 | 3220 | | | 0 | 1 | 0 | 0 | 0 | 0 | 9.60 | 0 |
| Median | | | 7.115 | 7.65 | 3220 | | | 0 | 1 | 0 | 0 | 0 | 0 | 9.60 | 0 |
| Standard Deviation | | | 0.06 | 0.35 | 1725 | | | 0 | 2 | 0 | 0 | 0 | 0 | 10.47 | 0 |
| Minimum | | | 7.07 | 7.40 | 2000 | | | 0 | 0 | 0 | 0 | 0 | 0 | 2.20 | 0 |
| Maximum | | | 7.16 | 7.90 | 4440 | | | 0 | 3 | 0 | 0 | 0 | 0 | 17.00 | 0 |
| EP-29 | 08/02/99 | EPRI-9908-115 | GW | 3.5 | 7.59 | 7.8 | 3180 | 3220 | 0.26 | 0.005 | U | 0.014 | U | 7.20 | 0.008 |
| EP-29 | 10/26/99 | EPRI-9911-115 | GW | 2.4 | 7.42 | 8.2 | 3160 | 3130 | 0.27 | J4 | 0.005 | U | 0.027 | 14.00 | |
| EP-29 | 01/31/00 | EPRI-0002-115 | GW | 1.6 | 7.62 | 8.1 | 3190 | 3040 | 0.33 | U | 0.03 | U | 0.025 | U | 10.00 |
| Average | | | 2.50 | 7.54 | 8.03 | 3177 | | 3130 | 0.287 | 0.005 | U | 0.025 | U | 10.40 | 0.010 |
| Median | | | 2.40 | 7.59 | 8.1 | 3180 | | 3130 | 0.270 | 0.005 | U | 0.030 | U | 10.00 | 0.010 |
| Standard Deviation | | | 0.95 | 0.11 | 0.21 | 15 | | 0.038 | 0.000 | 0.009 | U | 0.001 | U | 3.42 | 0.003 |
| Minimum | | | 1.60 | 7.42 | 7.80 | 3160 | | 3040 | 0.260 | 0.005 | U | 0.014 | U | 7.20 | 0.008 |
| EP-35 | 08/02/99 | EPRI-9908-116 | GW | 2.9 | 6.92 | 7.1 | 6920 | 7000 | 0.78 | 0.005 | U | 0.015 | U | 1.60 | 0.009 |
| EP-35 | 10/26/99 | EPRI-9911-116 | GW | 1.7 | 6.71 | 7.8 | 6770 | 6740 | 0.67 | J4 | 0.005 | U | 0.011 | J4 | 2.80 |
| EP-35 | 01/31/00 | EPRI-0002-116 | GW | 1.7 | 6.91 | 7.7 | 6660 | 6350 | 0.92 | U | 0.005 | U | 0.046 | 9.80 | 0.033 |
| Average | | | 2.10 | 6.85 | 7.53 | 6783 | | 6697 | 0.790 | 0.005 | U | 0.018 | U | 4.73 | 0.018 |
| Median | | | 1.70 | 6.91 | 7.7 | 6770 | | 6740 | 0.780 | 0.005 | U | 0.015 | U | 2.80 | 0.011 |
| Standard Deviation | | | 0.69 | 0.12 | 0.38 | 131 | | 0.125 | 0.000 | 0.009 | U | 0.012 | U | 4.43 | 0.013 |
| Minimum | | | 1.70 | 6.71 | 7.10 | 6660 | | 6350 | 0.670 | 0.005 | U | 0.011 | U | 1.60 | 0.009 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000
Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (Zn) TOT | | | | | | | |
|---------------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|-------|-------|-------|-------|---|
| Maximum | | | 2.90 | 6.92 | 7.80 | 6920 | 7000 | 0.920 | 0.005 | 0.028 | 0.046 | 9.80 | 0.033 | 1.700 | 0.044 | | | | | | |
| EP-43 | 08/11/99 | EPRI-9908-117 | GW 2 | 7.57 | 7.5 | 8070 | 6880 | 0.32 | 0.005 | U | 0.01 | U | 0.025 | U | 1.70 | J4 | 0.003 | U | 0.27 | 0.02 | U |
| EP-43 D | 08/11/99 | EPRI-9908-206 | GW 1.3 | 7.61 | 7.5 | 8060 | 6890 | 0.33 | 0.005 | U | 0.01 | U | 0.025 | U | 1.70 | J4 | 0.003 | U | 0.28 | 0.02 | U |
| EP-43 | 10/29/99 | EPRI-9911-117 | GW 7.7 | 7.72 | 7.8 | 8130 | 7320 | 1 | 0.005 | U | 0.01 | U | 0.027 | U | 1.70 | J2 | 0.015 | U | 0.15 | 0.03 | |
| EP-43 | 02/08/00 | EPRI-0002-117 | GW | 7.3 | 7.3 | 3900 | | 1.3 | 0.005 | U | 0.054 | 0.035 | 2.40 | | | | | | | | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-44 | 10/26/99 | EPRI-9911-162 | GW 1.40 | 7.02 | 8.00 | 5740 | 5710 | 3.100 | 0.005 | U | 0.010 | UJ | 0.036 | 1.10 | 2,J4 | 0.028 | J4 | 0.089 | J4 | 0.120 | |
| EP-49 | 11/02/99 | EPRI-9911-118 | GW | | | 5.4 | 10440 | | 221 | 13 | 0.023 | | 1.2 | 631.00 | J2 | 0.78 | | 0.11 | | 420 | |
| EP-49 | 01/29/00 | EPRI-0002-118 | GW 0.1 | 6.62 | 7.4 | 9960 | 9530 | 40 | 0.28 | 0.017 | 0.045 | | 49.00 | | | | 0.023 | 0.056 | 59 | | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-51 | 08/04/99 | EPRI-9908-119 | GW | 6.87 | 7.2 | 11040 | 9560 | 0.37 | 0.035 | 0.1 | J4 | 0.051 | J4 | 0.004 | J4 | 0.23 | | 0.35 | | | |
| EP-51 D | 08/04/99 | EPRI-9908-196 | GW | 6.88 | 7.2 | 11020 | 9570 | 0.55 | 0.033 | 0.51 | J4 | 0.084 | UJ4 | 1.30 | J4 | 0.012 | J4 | 0.24 | 0.33 | | |
| EP-51 | 11/02/99 | EPRI-9911-119 | GW 1.6 | 6.71 | 7.3 | 9920 | 9840 | 0.97 | 0.034 | 3 | | 0.25 | 4.20 | | | 0.038 | | 0.29 | 0.5 | | |
| EP-51 | 01/26/00 | EPRI-0002-119 | GW 6.86 | 6.86 | 7.5 | 9820 | 9000 | 1.2 | 0.031 | 4.7 | | 0.24 | 6.20 | | | 0.051 | | 0.23 | 0.43 | | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-52 | 08/05/99 | EPRI-9908-120 | GW | 0.7 | 6.21 | 7.2 | 11190 | 12290 | 1.4 | 0.51 | 0.16 | 0.39 | | | | | | | | | |
| EP-52 | 10/29/99 | EPRI-9911-120 | GW 1.5 | 6.07 | 7 | 11250 | 9900 | 1.6 | 0.45 | 0.097 | 0.5 | | | | | | | | | 2.7 | |
| EP-52 | 01/26/00 | EPRI-0002-120 | GW 0.4 | 6.38 | 8.6 | 11940 | 11220 | 1.5 | 0.43 | 0.041 | 0.44 | | 1.20 | | | 0.51 | | 0.21 | 0.500 | | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fl.d) | pH (fl.d) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|---------------------------|----------|---------------|------------|-----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| Maximum | | | 1.50 | 6.38 | 8.60 | 11940 | 12290 | 1.600 | 0.510 | 0.160 | 0.500 | 2.20 | 0.750 | 0.290 |
| EP-53 | 08/04/99 | EPRI-9908-121 | GW | 6.85 | 7.1 | 7190 | 7240 | 42 | 0.46 | 0.01 | ,UJ | 0.025 ,UJ | 1.70 | J4 |
| EP-53 | 10/26/99 | EPRI-9911-121 | GW | 1 | 6.38 | 6.8 | 7380 | 7350 | 55 | 1.8 | 0.01 | ,UJ | 0.041 | 7.00 |
| EP-53 | 02/01/00 | EPRI-0002-121 | GW | 2 | 6.75 | 7.6 | 7520 | 1594 | R | 45 | 1.2 | 0.01 | U | 0.04 |
| Average | | | 1.50 | 6.66 | 7.17 | 7363 | 5395 | 47.333 | 1.153 | 0.010 | 0.035 | 7.23 | 0.007 | 1.140 |
| Median | | | 1.5 | 6.75 | 7.1 | 7380 | 7240 | 45.000 | 1.200 | 0.010 | 0.040 | 7.00 | 0.006 | 1.100 |
| Standard Deviation | | | 0.71 | 0.25 | 0.40 | 166 | | 6.807 | 0.671 | 0.000 | 0.009 | 5.65 | 0.004 | 0.541 |
| Minimum | | | 1.00 | 6.38 | 6.80 | 7190 | 1594 | 42.000 | 0.460 | 0.010 | 0.025 | 1.70 | 0.004 | 0.620 |
| Maximum | | | 2.00 | 6.85 | 7.60 | 7520 | 7350 | 55.000 | 1.800 | 0.010 | 0.041 | 13.00 | 0.011 | 1.700 |
| EP-54 | 08/04/99 | EPRI-9908-122 | GW | 6.37 | 7 | 11000 | 11260 | 45 | 0.47 | 0.015 | J4 | 0.12 | J4 | 2.90 |
| EP-54 | 10/29/99 | EPRI-9911-122 | GW | 7.4 | 6.57 | 7.4 | 10500 | 8290 | 49 | 0.86 | 0.013 | 0.62 | 11.00 | J2 |
| EP-54 | 01/26/00 | EPRI-0002-122 | GW | 7.9 | 6.51 | 7 | 7940 | 9910 | 57 | 0.57 | 0.016 | 0.38 | 16.00 | 0.022 |
| Average | | | 7.65 | 6.48 | 7.13 | 9813 | 9820 | 50.333 | 0.633 | 0.015 | 0.373 | 9.97 | 0.016 | 0.153 |
| Median | | | 7.65 | 6.51 | 7 | 10500 | 9910 | 49.000 | 0.570 | 0.015 | 0.380 | 11.00 | 0.019 | 0.130 |
| Standard Deviation | | | 0.35 | 0.10 | 0.23 | 1642 | | 6.110 | 0.203 | 0.002 | 0.250 | 6.61 | 0.008 | 0.049 |
| Minimum | | | 7.40 | 6.37 | 7.00 | 7940 | 8290 | 45.000 | 0.470 | 0.013 | 0.120 | 2.90 | 0.007 | 0.120 |
| Maximum | | | 7.90 | 6.57 | 7.40 | 11000 | 11260 | 57.000 | 0.860 | 0.016 | 0.620 | 16.00 | 0.022 | 0.210 |
| EP-55 | 08/10/99 | EPRI-9908-123 | GW | 0.5 | 6.33 | 6.9 | 10470 | 10350 | 29 | 0.19 | 0.01 | U | 0.033 | 45.00 |
| EP-55 | 10/29/99 | EPRI-9911-123 | GW | 1.6 | 6.2 | 8.1 | 10240 | 10290 | 36 | 0.58 | 0.011 | 0.11 | 57.00 | J2 |
| EP-55 | 02/07/00 | EPRI-0002-123 | GW | 1.3 | 6.38 | 6.9 | 10000 | 9420 | 54 | 0.16 | 0.01 | U | 0.031 | 46.00 |
| Average | | | 1.13 | 6.30 | 7.30 | 10237 | 10087 | 39.667 | 0.310 | 0.010 | 0.058 | 49.33 | 0.063 | 0.124 |
| Median | | | 1.30 | 6.33 | 6.9 | 10240 | 10290 | 36.000 | 0.190 | 0.00 | 0.033 | 46.00 | 0.031 | 0.150 |
| Standard Deviation | | | 0.57 | 0.09 | 0.69 | 235 | | 12.897 | 0.234 | 0.001 | 0.045 | 6.66 | 0.038 | 0.063 |
| Minimum | | | 0.50 | 6.20 | 6.90 | 10000 | 9420 | 29.000 | 0.160 | 0.010 | 0.031 | 45.00 | 0.028 | 0.052 |
| Maximum | | | 1.60 | 6.38 | 8.10 | 10470 | 10550 | 54.000 | 0.580 | 0.011 | 0.110 | 57.00 | 0.130 | 0.170 |
| EP-56 | 08/04/99 | EPRI-9908-124 | GW | 7.17 | 7.5 | 5390 | 5460 | 2.2 | J4 | 0.005 | U | 0.01 | ,UJ | 0.025 ,UJ |
| EP-56 | 10/26/99 | EPRI-9911-124 | GW | 1.9 | 7.04 | 8.1 | 5290 | 5320 | 0.33 | J4 | 0.005 | U | 0.01 | J4 |
| EP-56 | 10/26/99 | EPRI-9911-220 | GW | | | | 8.2 | 5300 | 0.43 | J4 | 0.005 | U | 0.022 | J4 |
| EP-56 | 02/01/00 | EPRI-0002-124 | GW | 1 | 7.03 | 7.8 | 5120 | 4810 | 2.7 | J4 | 0.005 | U | 0.012 | 0.028 |
| EP-56 | 02/01/00 | EPRI-0002-233 | GW | 0.7 | 7.1 | 7.8 | 5080 | 4850 | 2.1 | J4 | 0.005 | U | 0.012 | 0.03 |
| Average | | | 1.20 | 7.09 | 7.88 | 5236 | 5110 | 1.552 | 0.005 | 0.013 | 0.039 | 19.38 | 0.017 | 0.039 |
| Median | | | 1 | 7.07 | 7.8 | 5290 | 5085 | 2.100 | 0.005 | 0.012 | 0.030 | 23.00 | 0.016 | 0.041 |
| Standard Deviation | | | 0.62 | 0.06 | 0.28 | 131 | | 1.094 | 0.000 | 0.005 | 0.016 | 10.96 | 0.006 | 0.012 |
| Minimum | | | 0.70 | 7.03 | 7.50 | 5080 | 4810 | 0.330 | 0.005 | 0.010 | 0.025 | 2.90 | 0.010 | 0.024 |
| Maximum | | | 1.90 | 7.17 | 8.20 | 5390 | 5460 | 2.700 | 0.005 | 0.022 | 0.064 | 29.00 | 0.026 | 0.051 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|---------------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| EP-57 | 08/10/99 | EPRI-9908-125 | GW 0.3 | 7.07 | 7.6 | 2670 | 2560 | 0.29 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-57 | 11/03/99 | EPRI-9911-125 | GW 1.3 | 6.87 | 7.5 | 2230 | 3210 | 0.5 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-57 | 02/07/00 | EPRI-0002-125 | GW 0.04 | 7.01 | 7.7 | 3080 | 2700 | 0.43 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | 0.55 | 6.98 | 7.60 | 2993 | 2823 | 0.407 | 0.005 | 0.010 | 0.025 | 0.025 | 3.53 | 0.006 |
| Median | | | 0.30 | 7.01 | 7.6 | 3080 | 2700 | 0.430 | 0.005 | 0.010 | 0.025 | 0.025 | 3.10 | 0.004 |
| Standard Deviation | | | 0.67 | 0.10 | 0.10 | 290 | 0.107 | 0.000 | 0.000 | 0.000 | 0.005 | 0.005 | 2.98 | 0.006 |
| Minimum | | | 0.04 | 6.87 | 7.50 | 2670 | 2560 | 0.290 | 0.005 | 0.010 | 0.025 | 0.025 | 0.79 | 0.003 |
| Maximum | | | 1.30 | 7.07 | 7.70 | 3230 | 3210 | 0.500 | 0.005 | 0.010 | 0.025 | 0.025 | 6.70 | 0.012 |
| EP-58 | 08/10/99 | EPRI-9908-126 | GW 0.5 | 6.49 | 8 | 11590 | 11610 | 4 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-58 | 11/03/99 | EPRI-9911-126 | GW 1.1 | 6.36 | 7 | 11310 | 12390 | 4.2 | 0.005 | U | 0.02 | U | 0.025 | U |
| EP-58 | 02/07/00 | EPRI-0002-126 | GW 0.04 | 6.42 | 7.2 | 11700 | 10800 | 3.4 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | 0.55 | 6.42 | 7.40 | 11533 | 11667 | 3.867 | 0.005 | 0.013 | 0.053 | 0.053 | 13.23 | 0.034 |
| Median | | | 0.50 | 6.42 | 7.2 | 11590 | 11610 | 4.000 | 0.005 | 0.010 | 0.025 | 0.025 | 7.60 | 0.016 |
| Standard Deviation | | | 0.53 | 0.07 | 0.53 | 201. | | 0.416 | 0.000 | 0.006 | 0.049 | 0.049 | 14.78 | 0.042 |
| Minimum | | | 0.04 | 6.36 | 7.00 | 11310 | 10800 | 3.400 | 0.005 | 0.010 | 0.025 | 0.025 | 2.10 | 0.004 |
| Maximum | | | 1.10 | 6.49 | 8.00 | 11700 | 12390 | 4.200 | 0.005 | 0.020 | 0.110 | 0.110 | 30.00 | 0.082 |
| EP-59 | 08/03/99 | EPRI-9908-127 | GW 0.4 | 7.18 | 7.4 | 4920 | 4950 | 2.7 | 0.005 | U | 0.012 | U | 0.025 | U |
| EP-59 | 10/27/99 | EPRI-9911-127 | GW 3.9 | 6.99 | 8.1 | 4740 | 4780 | 2.6 | 0.005 | U | 0.12 | U | 0.062 | U |
| EP-59 | 01/28/00 | EPRI-0002-127 | GW 0.6 | 7.12 | 7.9 | 5160 | 4900 | 2.9 | 0.005 | U | 0.032 | U | 0.025 | U |
| Average | | | 1.63 | 7.10 | 7.80 | 4940 | 4877 | 2.733 | 0.005 | 0.055 | 0.037 | 0.037 | 0.92 | 0.007 |
| Median | | | 0.60 | 7.12 | 7.9 | 4920 | 4900 | 2.700 | 0.005 | 0.032 | 0.025 | 0.025 | 0.44 | 0.003 |
| Standard Deviation | | | 1.97 | 0.10 | 0.36 | 21.1 | | 0.153 | 0.000 | 0.057 | 0.021 | 0.021 | 1.03 | 0.008 |
| Minimum | | | 0.40 | 6.99 | 7.40 | 4740 | 4780 | 2.600 | 0.005 | 0.012 | 0.025 | 0.025 | 0.22 | 0.003 |
| Maximum | | | 3.90 | 7.18 | 8.10 | 5160 | 4950 | 2.900 | 0.005 | 0.120 | 0.062 | 0.062 | 2.10 | 0.016 |
| EP-60 | 08/03/99 | EPRI-9908-128 | GW 3 | 7.18 | 7.6 | 8570 | 8410 | 0.008 | 0.005 | U | 0.05 | 0.025 | U | 0.46 |
| EP-60 | 10/27/99 | EPRI-9911-128 | GW 0.7 | 6.82 | 8.1 | 8280 | 8130 | 0.01 | 0.005 | U | 0.26 | 0.025 | U | 2.00 |
| EP-60 | 01/28/00 | EPRI-0002-128 | GW 0.3 | 7.05 | 7.9 | 8320 | 7890 | 0.008 | 0.005 | U | 0.06 | 0.025 | U | 1.10 |
| Average | | | 1.33 | 7.02 | 7.87 | 8390 | 8143 | 0.009 | 0.005 | 0.123 | 0.025 | 0.025 | 1.19 | 0.003 |
| Median | | | 0.70 | 7.05 | 7.9 | 8320 | 8130 | 0.008 | 0.005 | 0.060 | 0.025 | 0.025 | 1.10 | 0.003 |
| Standard Deviation | | | 1.46 | 0.18 | 0.25 | 157 | | 0.001 | 0.000 | 0.118 | 0.000 | 0.000 | 0.77 | 0.005 |
| Minimum | | | 0.30 | 6.82 | 7.60 | 8280 | 7890 | 0.008 | 0.005 | 0.050 | 0.025 | 0.025 | 0.46 | 0.003 |
| Maximum | | | 3.00 | 7.18 | 8.10 | 8570 | 8410 | 0.010 | 0.005 | 0.260 | 0.025 | 0.025 | 2.00 | 0.003 |
| EP-61 | 08/10/99 | EPRI-9908-129 | GW 1.1 | 7.15 | 7.7 | 8070 | 8060 | 0.014 | 0.005 | U | 0.02 | 0.025 | U | 1.90 |
| EP-61 | 11/03/99 | EPRI-9911-129 | GW 1.8 | 6.96 | 7.8 | 8180 | 8990 | 0.039 | 0.005 | U | 0.021 | 0.091 | U | 14.00 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (Cu) TOT | Iron (Fe) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|--------------------|----------|---------------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| EP-61 | 02/07/00 | EPRI-0002-129 | GW | 0.9 | 7.09 | 7.7 | 8360 | 7780 | 0.026 | 0.005 | U | 0.01 | U | 0.29 |
| Average | | | | 1.27 | 7.07 | 7.73 | 8203 | 8277 | 0.026 | 0.005 | 0.017 | 0.047 | 5.40 | 0.014 |
| Median | | | | 1.10 | 7.09 | 7.7 | 8180 | 8060 | 0.026 | 0.005 | 0.020 | 0.025 | 1.90 | 0.003 |
| Standard Deviation | | | | | 0.06 | 146 | | | 0.013 | 0.000 | 0.006 | 0.038 | 7.49 | 0.018 |
| Minimum | | | | 0.90 | 6.96 | 7.70 | 8070 | 7780 | 0.014 | 0.005 | 0.010 | 0.025 | 0.29 | 0.003 |
| Maximum | | | | 1.80 | 7.15 | 7.80 | 8360 | 8990 | 0.039 | 0.005 | 0.021 | 0.091 | 14.00 | 0.035 |
| EP-62 | 08/03/99 | EPRI-9908-130 | GW | 2.1 | 7.29 | 7.4 | 4410 | 4470 | 0.75 | 0.005 | U | 0.01 | U | 0.14 |
| EP-62 | 10/27/99 | EPRI-9911-130 | GW | 4.3 | 7.04 | 8.2 | 4000 | 3830 | 0.56 | 0.005 | U | 0.01 | U | 0.25 |
| EP-62 | 01/28/00 | EPRI-0002-130 | GW | 6.2 | 7.3 | 7.1 | 4460 | 4310 | 0.82 | 0.005 | U | 0.01 | U | 0.24 |
| Average | | | | 4.20 | 7.21 | 7.57 | 4290 | 4203 | 0.710 | 0.005 | 0.010 | 0.025 | 0.32 | 0.003 |
| Median | | | | 4.30 | 7.29 | 7.4 | 4410 | 4310 | 0.750 | 0.005 | 0.010 | 0.025 | 0.24 | 0.003 |
| Standard Deviation | | | | | 0.57 | 252 | | | 0.135 | 0.000 | 0.000 | 0.000 | 0.23 | 0.000 |
| Minimum | | | | 2.10 | 7.04 | 7.10 | 4000 | 3830 | 0.560 | 0.005 | 0.010 | 0.025 | 0.14 | 0.003 |
| Maximum | | | | 6.20 | 7.30 | 8.20 | 4460 | 4470 | 0.820 | 0.005 | 0.010 | 0.025 | 0.57 | 0.003 |
| EP-63 | 08/03/99 | EPRI-9908-131 | GW | 1.2 | 7.18 | 7.1 | 8140 | 8240 | 0.022 | 0.005 | U | 0.01 | U | 0.55 |
| EP-63 | 10/27/99 | EPRI-9911-131 | GW | 1 | 6.95 | 7.7 | 7680 | 7710 | 0.024 | 0.005 | U | 0.01 | U | 0.35 |
| EP-63 | 01/28/00 | EPRI-0002-131 | GW | 0.3 | 7.22 | 7.8 | 7400 | 7010 | 0.022 | 0.005 | U | 0.01 | U | 0.025 |
| Average | | | | 0.83 | 7.12 | 7.53 | 7740 | 7653 | 0.023 | 0.005 | 0.010 | 0.028 | 0.43 | 0.006 |
| Median | | | | 1.00 | 7.18 | 7.7 | 7680 | 7710 | 0.022 | 0.005 | 0.010 | 0.025 | 0.55 | 0.007 |
| Standard Deviation | | | | 0.47 | 0.15 | 0.38 | 374 | | 0.001 | 0.000 | 0.000 | 0.006 | 0.29 | 0.003 |
| Minimum | | | | 0.30 | 6.95 | 7.10 | 7400 | 7010 | 0.022 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 |
| Maximum | | | | 1.20 | 7.22 | 7.80 | 8140 | 8240 | 0.024 | 0.005 | 0.010 | 0.035 | 0.64 | 0.009 |
| EP-64 | 08/03/99 | EPRI-9908-132 | GW | 5 | 7.48 | 7.8 | 8380 | 9420 | 0.038 | 0.005 | U | 0.01 | U | 0.51 |
| EP-64 | 10/27/99 | EPRI-9911-132 | GW | 4.3 | 7.39 | 8.4 | 9080 | 9070 | 0.049 | 0.005 | U | 0.01 | U | 0.39 |
| EP-64 | 01/28/00 | EPRI-0002-132 | GW | 4.6 | 7.84 | 8.3 | 9410 | 8960 | 0.043 | 0.005 | U | 0.01 | U | 0.76 |
| Average | | | | 4.63 | 7.57 | 8.17 | 8957 | 9150 | 0.043 | 0.005 | 0.010 | 0.027 | 0.55 | 0.003 |
| Median | | | | 4.60 | 7.48 | 8.3 | 9080 | 9070 | 0.043 | 0.005 | 0.010 | 0.025 | 0.51 | 0.003 |
| Standard Deviation | | | | 0.35 | 0.24 | 0.32 | 526 | | 0.006 | 0.000 | 0.000 | 0.003 | 0.19 | 0.001 |
| Minimum | | | | 4.30 | 7.39 | 7.80 | 8380 | 8960 | 0.038 | 0.005 | 0.010 | 0.025 | 0.39 | 0.003 |
| Maximum | | | | 5.00 | 7.84 | 8.40 | 9410 | 9420 | 0.049 | 0.005 | 0.010 | 0.030 | 0.76 | 0.004 |
| EP-65 | 08/10/99 | EPRI-9908-133 | GW | 0.3 | 7.14 | 7.8 | 6610 | 6660 | 0.012 | 0.005 | U | 0.01 | U | 0.57 |
| EP-65 | 08/10/99 | EPRI-9908-204 | GW | 0.3 | 7.14 | 7.7 | 6610 | 6660 | 0.012 | 0.005 | U | 0.01 | U | 0.56 |
| EP-65 | 11/03/99 | EPRI-9911-133 | GW | 2.3 | 6.93 | 7.6 | 6400 | 7130 | 0.033 | 0.005 | U | 0.01 | U | 0.67 |
| EP-65 | 02/07/00 | EPRI-0002-133 | GW | 0.4 | 6.99 | 7.6 | 6520 | 6160 | 0.02 | 0.005 | U | 0.01 | U | 0.17 |
| EP-65 | 02/07/00 | EPRI-0002-236 | GW | 0.2 | 7 | 7.7 | 6500 | 6190 | 0.018 | 0.005 | U | 0.01 | U | 0.23 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity (SC (fld)) | Specific Conductivity (SC (lab)) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | | | |
|--------------------|----------|---------------|-----------|----------|----------------------------------|----------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|---------|-------|------|
| Average | | | 0.70 | 7.04 | 6528 | 6560 | 0.019 | 0.005 | 0.010 | 0.025 | 0.44 | 0.004 | 0.202 | 0.020 | | | |
| Median | | | 0.30 | 7 | 6520 | 6660 | 0.018 | 0.005 | 0.010 | 0.025 | 0.56 | 0.003 | 0.200 | 0.020 | | | |
| Standard Deviation | | | 0.90 | 0.10 | 0.08 | 88 | 401 | 0.009 | 0.000 | 0.000 | 0.22 | 0.002 | 0.023 | 0.000 | | | |
| Minimum | | | 0.20 | 6.93 | 7.60 | 6400 | 6160 | 0.012 | 0.005 | 0.010 | 0.025 | 0.17 | 0.003 | 0.180 | 0.020 | | |
| Maximum | | | 2.30 | 7.14 | 7.80 | 6610 | 7130 | 0.033 | 0.005 | 0.010 | 0.026 | 0.67 | 0.007 | 0.240 | 0.020 | | |
| EP-66 | 08/04/99 | EPRI-9908-134 | GW | 7 | 7.8 | 8000 | 7680 | 9.6 | 0.012 | 0.01 | J4 | 0.026 | J4 | 0.22 | 0.28 | 0.045 | |
| EP-66 | 10/27/99 | EPRI-9911-134 | GW | 6 | 6.92 | 8.3 | 5910 | 5920 | 6.1 | 0.005 | U | 0.01 | U | 0.82 | J2 | 0.004 | |
| EP-66 | 01/28/00 | EPRI-0002-134 | GW | 6.4 | 7.28 | 7.8 | 7860 | 7530 | 10 | 0.005 | U | 0.01 | U | 0.80 | 0.005 | 0.22 | |
| Average | | | 6.20 | 7.07 | 7.97 | 7257 | 7043 | 8.567 | 0.007 | 0.010 | 0.025 | 0.61 | 0.004 | 0.237 | 0.032 | | |
| Median | | | 6.2 | 7 | 7.8 | 7860 | 7530 | 9.600 | 0.005 | 0.010 | 0.025 | 0.80 | 0.004 | 0.220 | 0.030 | | |
| Standard Deviation | | | 0.28 | 0.19 | 0.29 | 1168 | | 2.146 | 0.004 | 0.000 | 0.001 | 0.34 | 0.001 | 0.038 | 0.013 | | |
| Minimum | | | 6.00 | 6.92 | 7.80 | 5910 | | 6.100 | 0.005 | 0.010 | 0.025 | 0.22 | 0.004 | 0.210 | 0.020 | | |
| Maximum | | | 6.40 | 7.28 | 8.30 | 8000 | | 10.000 | 0.012 | 0.010 | 0.026 | 0.82 | 0.005 | 0.280 | 0.045 | | |
| EP-67 | 08/05/99 | EPRI-9908-135 | GW | 6.86 | 7.7 | 4230 | 4860 | 0.023 | 0.005 | U | 0.01 | U | 0.025 | U | 0.21 | 0.003 | |
| EP-67 | 10/28/99 | EPRI-9911-135 | GW | 2 | 6.64 | 7.3 | 4400 | 4410 | 0.017 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | |
| EP-67 | 01/24/00 | EPRI-0002-135 | GW | 1.3 | 6.88 | 7.5 | 4380 | 4280 | 0.009 | 0.005 | U | 0.01 | U | 0.025 | U | 0.12 | |
| Average | | | 1.65 | 6.79 | 7.50 | 4370 | 4517 | 0.01633 | 0.005 | 0.010 | 0.025 | 0.14 | 0.006 | 0.11 | 0.023 | | |
| Median | | | 1.65 | 6.86 | 7.50 | 4380 | 4410 | 0.017 | 0.005 | 0.010 | 0.025 | 0.12 | 0.003 | 0.11 | 0.02 | | |
| Standard Deviation | | | 0.49 | 0.13 | 0.20 | 36 | | 0.00702 | 8.23E-11 | 0.000 | 0 | 0.06 | 0.005 | 0.01 | 0.00173 | | |
| Minimum | | | 1.30 | 6.64 | 7.30 | 4330 | | 4280 | 0.009 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.100 | 0.020 | |
| Maximum | | | 2.00 | 6.88 | 7.70 | 4400 | | 4860 | 0.023 | 0.005 | 0.010 | 0.025 | 0.21 | 0.011 | 0.120 | 0.023 | |
| EP-68 | 08/05/99 | EPRI-9908-136 | GW | 7.17 | 7.9 | 4780 | 4790 | 0.005 | 0.005 | U | 0.01 | U | 0.025 | U | 0.42 | 0.003 | |
| EP-68 | 10/28/99 | EPRI-9911-136 | GW | 12.1 | 6.88 | 7.4 | 5900 | 5340 | 0.005 | U | 0.005 | U | 0.025 | U | 0.36 | 0.003 | |
| EP-68 | 01/25/00 | EPRI-0002-136 | GW | 5.4 | 7.07 | 7.8 | 5800 | 5570 | 0.005 | U | 0.005 | U | 0.014 | J4 | 0.25 | 0.01 | |
| EP-68 | 01/25/00 | EPRI-0002-221 | GW | 5.2 | 7.09 | 7.7 | 5780 | 5560 | | 0.005 | U | 0.016 | U | 0.025 | U | 4.60 | 0.01 |
| Average | | | 7.57 | 7.05 | 7.70 | 5565 | 5315 | 0.005 | 0.005 | 0.013 | 0.025 | 1.97 | 0.007 | 0.265 | 0.020 | | |
| Median | | | 5.4 | 7.08 | 7.75 | 5790 | 5450 | 0.005 | 0.005 | 0.012 | 0.025 | 1.46 | 0.007 | 0.265 | 0.020 | | |
| Standard Deviation | | | 3.93 | 0.12 | 0.22 | 526 | | 0.000 | 0.000 | 0.003 | 0.000 | 2.02 | 0.004 | 0.021 | 0.000 | | |
| Minimum | | | 5.20 | 6.88 | 7.40 | 4780 | | 4790 | 0.005 | 0.005 | 0.010 | 0.025 | 0.36 | 0.003 | 0.240 | 0.020 | |
| Maximum | | | 12.10 | 7.17 | 7.90 | 5900 | | 5570 | 0.005 | 0.005 | 0.016 | 0.025 | 4.60 | 0.010 | 0.290 | 0.020 | |
| EP-70 | 08/05/99 | EPRI-9908-137 | GW | 7.01 | 7 | 6020 | 6660 | 0.75 | 0.009 | U | 0.025 | U | 0.10 | U | 0.24 | 0.02 | |
| EP-70 | 10/28/99 | EPRI-9911-137 | GW | 0.2 | 6.76 | 7.2 | 6220 | 8 | 0.009 | U | 0.01 | U | 0.025 | U | 0.29 | 0.02 | |
| EP-70 | 01/24/00 | EPRI-0002-137 | GW | 0.2 | 7.03 | 7.6 | 6110 | 5950 | 0.63 | 0.007 | U | 0.025 | U | 0.10 | U | 0.27 | 0.02 |
| EP-70 | 01/24/00 | EPRI-0002-219 | GW | 0.2 | 7.03 | 7.5 | 6100 | 5950 | 0.64 | 0.008 | U | 0.025 | U | 0.10 | U | 0.26 | 0.02 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (mg) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | | | | |
|--------------------|----------|---------------|----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|-------|-------|
| Average | | | 0.20 | 6.96 | 7.33 | 6113 | 6195 | 0.705 | 0.008 | 0.010 | 0.025 | 0.10 | 0.006 | 0.198 | 0.128 | | | |
| Median | | | 0.2 | 7.02 | 7.35 | 6105 | 6085 | 0.695 | 0.009 | 0.010 | 0.025 | 0.10 | 0.006 | 0.190 | 0.125 | | | |
| Standard Deviation | | | 0.00 | 0.13 | 0.28 | 82 | | 0.083 | 0.001 | 0.000 | 0.000 | 0.00 | 0.004 | 0.015 | 0.010 | | | |
| Minimum | | | 0.20 | 6.76 | 7.00 | 6020 | 5950 | 0.630 | 0.007 | 0.010 | 0.025 | 0.10 | 0.003 | 0.190 | 0.120 | | | |
| Maximum | | | 0.20 | 7.03 | 7.60 | 6220 | 6660 | 0.800 | 0.009 | 0.010 | 0.025 | 0.10 | 0.010 | 0.220 | 0.140 | | | |
| EP-71 | 08/05/99 | EPRI-9908-138 | GW | 6.92 | 7.5 | 5850 | 6560 | 0.12 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | U | | |
| EP-71 | 10/28/99 | EPRI-9911-138 | GW | 0.2 | 6.71 | 7.9 | 5800 | 5800 | 0.12 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | U | |
| EP-71 | 01/24/00 | EPRI-0002-138 | GW | 0.9 | 6.97 | 7.6 | 5950 | 5770 | 0.11 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | U | |
| Average | | | 0.55 | 6.87 | 7.67 | 5867 | 6043 | 0.117 | 0.005 | 0.010 | 0.025 | 0.10 | 0.005 | 0.223 | 0.020 | | | |
| Median | | | 0.55 | 6.92 | 7.6 | 5850 | 5800 | 0.120 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.230 | 0.020 | | | |
| Standard Deviation | | | 0.49 | 0.14 | 0.21 | 76 | | 0.006 | 0.000 | 0.000 | 0.000 | 0.00 | 0.003 | 0.021 | 0.000 | | | |
| Minimum | | | 0.20 | 6.71 | 7.50 | 5800 | 5770 | 0.110 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.200 | 0.020 | | | |
| Maximum | | | 0.90 | 6.97 | 7.90 | 5950 | 6560 | 0.120 | 0.005 | 0.010 | 0.025 | 0.10 | 0.008 | 0.240 | 0.020 | | | |
| EP-72 | 01/24/00 | EPRI-0002-139 | GW | 2.7 | 7.11 | 7.9 | 5700 | 5560 | 0.065 | 0.005 | U | 0.01 | U | 0.025 | U | 0.86 | 0.011 | UJ1 |
| EP-73 | 08/05/99 | EPRI-9908-140 | GW | 5.2 | 7.01 | 7.5 | 6550 | 7280 | 0.026 | 0.005 | U | 0.01 | U | 0.025 | U | 0.15 | 0.003 | U |
| EP-73 | 10/29/99 | EPRI-9911-140 | GW | 1.2 | 6.8 | 7.6 | 6520 | 5760 | 0.061 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | U | 0.039 |
| EP-73 | 01/26/00 | EPRI-0002-140 | GW | 0.4 | 7.07 | 7.8 | 6600 | 6200 | 0.019 | 0.005 | U | 0.01 | U | 0.025 | U | 0.28 | 0.003 | U |
| Average | | | 2.27 | 6.96 | 7.63 | 6557 | 6413 | 0.035 | 0.005 | 0.010 | 0.025 | 0.18 | 0.015 | 0.990 | 0.033 | | | |
| Median | | | 1.2 | 7.01 | 7.6 | 6550 | 6200 | 0.026 | 0.005 | 0.010 | 0.025 | 0.15 | 0.003 | 0.960 | 0.024 | | | |
| Standard Deviation | | | 2.57 | 0.14 | 0.15 | 40 | | 0.023 | 0.000 | 0.000 | 0.000 | 0.09 | 0.021 | 0.098 | 0.019 | | | |
| Minimum | | | 0.40 | 6.80 | 7.50 | 6520 | 5760 | 0.019 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.910 | 0.020 | | | |
| Maximum | | | 5.20 | 7.07 | 7.80 | 6600 | 7280 | 0.061 | 0.005 | 0.010 | 0.025 | 0.28 | 0.039 | 1.100 | 0.054 | | | |
| EP-75 | 08/06/99 | EPRI-9908-141 | GW | 0.4 | 6.86 | 7.2 | 16010 | 18110 | 16 | 0.005 | U | 0.01 | U | 0.066 | 0.37 | 0.01 | 3.6 | 0.094 |
| EP-75 | 01/26/00 | EPRI-0002-142 | GW | 1.8 | 7.01 | 7.7 | 18110 | 16220 | 14 | 0.005 | U | 0.01 | U | 0.051 | 1.50 | 0.023 | 3.3 | 0.084 |
| Average | | | 1.10 | 6.94 | 7.45 | 17060 | | 15 | 0 | 0.010 | 0.059 | 0.94 | 0.017 | 3.450 | 0.089 | | | |
| Median | | | 1.10 | 6.935 | 7.45 | 17060 | | 15 | 0 | 0.010 | 0.059 | 0.94 | 0.017 | 3.450 | 0.089 | | | |
| Standard Deviation | | | 0.99 | 0.11 | 0.35 | 1485 | | 1 | 0 | 0.000 | 0.011 | 0.80 | 0.009 | 0.212 | 0.007 | | | |
| Minimum | | | 0.40 | 6.86 | 7.20 | 16010 | | 14 | 0 | 0.010 | 0.051 | 0.37 | 0.010 | 3.300 | 0.084 | | | |
| Maximum | | | 1.80 | 7.01 | 7.70 | 18110 | | 16 | 0 | 0.010 | 0.066 | 1.50 | 0.023 | 3.600 | 0.094 | | | |
| EP-76 | 1/26/00 | EPRI-0002-141 | GW | 0.7 | 7.33 | 8.3 | 5060 | 4860 | 1.3 | 0.005 | U | 0.010 | U | 0.025 | U | 0.10 | U | 0.011 |
| EP-77 | 08/05/99 | EPRI-9908-143 | GW | 1.2 | 7.14 | 7.4 | 5110 | 5640 | 6 | 0.01 | U | 0.025 | U | 0.55 | 0.011 | 0.023 | 3.3 | 0.084 |
| EP-77 | 10/29/99 | EPRI-9911-143 | GW | 0.6 | 6.94 | 8.4 | 5080 | 4300 | 5.8 | 0.008 | U | 0.029 | U | 7.40 | J2 | 0.015 | 0.022 | 0.03 |
| EP-77 | 10/29/99 | EPRI-9911-227 | GW | | | | 7.9 | 5030 | 6 | 0.008 | U | 0.025 | U | 6.20 | J2 | 0.012 | 0.022 | 0.027 |
| EP-77 | 01/25/00 | EPRI-0002-143 | GW | 0.2 | 7.21 | 8.2 | 4500 | 4410 | 7.7 | 0.012 | U | 0.025 | U | 0.51 | J4 | 0.012 | UJ1 | 0.023 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | |
|--------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|----|
| Average | | | 0.67 | 7.10 | 7.98 | 4930 | 4783 | 6.375 | 0.010 | 0.010 | 0.026 | 3.67 | 0.013 | 0.028 | |
| Median | | | 0.60 | 7.14 | 8.05 | 5055 | 4410 | 6.000 | 0.009 | 0.010 | 0.025 | 3.38 | 0.012 | 0.029 | |
| Standard Deviation | | | 0.50 | 0.14 | 0.43 | 289 | 744 | 0.888 | 0.002 | 0.000 | 0.002 | 3.65 | 0.002 | 0.007 | |
| Minimum | | | 0.20 | 6.94 | 7.40 | 4500 | 4300 | 5.800 | 0.008 | 0.010 | 0.025 | 0.51 | 0.011 | 0.020 | |
| Maximum | | | 1.20 | 7.21 | 8.40 | 5110 | 5640 | 7.700 | 0.012 | 0.010 | 0.029 | 7.40 | 0.015 | 0.036 | |
| EP-78 | 08/09/99 | EPRI-9908-144 | GW | 0.9 | 7.86 | 7.8 | 2520 | 2440 | 5.2 | 0.005 | U | 0.01 | U | 0.007 | |
| EP-78 | 10/31/99 | EPRI-9911-144 | GW | 7.43 | 8 | 2620 | 2610 | 4.6 | 0.005 | U | 0.01 | U | 0.025 | U | |
| EP-78 | 01/28/00 | EPRI-0002-144 | GW | 0.7 | 7.62 | 7.6 | 3400 | 3250 | 4.8 | 0.005 | U | 0.01 | U | 0.015 | |
| Average | | | 0.80 | 7.64 | 7.80 | 2847 | 2767 | 4.867 | 0.005 | 0.010 | 0.025 | 0.33 | 0.006 | 0.029 | |
| Median | | | 0.8 | 7.62 | 7.8 | 2620 | 2610 | 4.800 | 0.005 | 0.010 | 0.025 | 0.26 | 0.007 | 0.030 | |
| Standard Deviation | | | 0.14 | 0.22 | 0.20 | 482 | 427 | 0.306 | 0.000 | 0.000 | 0.000 | 0.27 | 0.003 | 0.176 | |
| Minimum | | | 0.70 | 7.43 | 7.60 | 2520 | 2440 | 4.600 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.024 | |
| Maximum | | | 0.90 | 7.86 | 8.00 | 3400 | 3250 | 5.200 | 0.005 | 0.010 | 0.025 | 0.62 | 0.009 | 0.570 | |
| EP-79 | 08/09/99 | EPRI-9908-145 | GW | 0.4 | 7.53 | 8 | 4730 | 4770 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | |
| EP-79 | 10/31/99 | EPRI-9911-145 | GW | 7.27 | 8 | 4500 | 4480 | 0.009 | 0.005 | U | 0.01 | U | 0.025 | U | |
| EP-79 | 01/28/00 | EPRI-0002-145 | GW | 0.2 | 7.48 | 8 | 4700 | 4520 | 0.006 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-79 | 01/28/00 | EPRI-0002-227 | GW | 0.1 | 7.48 | 8 | 4710 | 4520 | 0.006 | 0.005 | U | 0.011 | U | 0.025 | U |
| Average | | | 0.23 | 7.44 | 8.00 | 4660 | 4573 | 0.007 | 0.005 | 0.010 | 0.025 | 0.48 | 0.004 | 0.115 | |
| Median | | | 0.2 | 7.48 | 8 | 4705 | 4520 | 0.007 | 0.005 | 0.010 | 0.025 | 0.45 | 0.004 | 0.115 | |
| Standard Deviation | | | 0.15 | 0.12 | 0.00 | 107 | 133 | 0.001 | 0.000 | 0.001 | 0.000 | 0.43 | 0.001 | 0.006 | |
| Minimum | | | 0.10 | 7.27 | 8.00 | 4500 | 4480 | 0.006 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.110 | |
| Maximum | | | 0.40 | 7.53 | 8.00 | 4730 | 4770 | 0.009 | 0.005 | 0.011 | 0.025 | 0.90 | 0.006 | 0.120 | |
| EP-80 | 08/09/99 | EPRI-9908-146 | GW | 0.2 | 7.27 | 7.8 | 5240 | 5250 | 0.015 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-80 | 10/27/99 | EPRI-9911-146 | GW | 0.6 | 6.96 | 8.3 | 5320 | 5280 | 0.015 | 0.005 | U | 0.01 | U | 0.025 | J2 |
| EP-80 | 01/28/00 | EPRI-0002-146 | GW | 0.8 | 7.22 | 8.1 | 5130 | 4870 | 0.016 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | 0.53 | 7.15 | 8.07 | 5230 | 5133 | 0.015 | 0.005 | 0.010 | 0.025 | 0.46 | 0.003 | 0.020 | |
| Median | | | 0.6 | 7.22 | 8.1 | 5240 | 5250 | 0.015 | 0.005 | 0.010 | 0.025 | 0.46 | 0.003 | 0.020 | |
| Standard Deviation | | | 0.31 | 0.17 | 0.25 | 95 | 229 | 0.001 | 0.000 | 0.000 | 0.000 | 0.08 | 0.001 | 0.014 | |
| Minimum | | | 0.20 | 6.96 | 7.80 | 5130 | 4870 | 0.015 | 0.005 | 0.010 | 0.025 | 0.38 | 0.003 | 0.005 | |
| Maximum | | | 0.80 | 7.27 | 8.30 | 5320 | 5280 | 0.016 | 0.005 | 0.010 | 0.025 | 0.54 | 0.004 | 0.020 | |
| EP-81 | 08/09/99 | EPRI-9908-147 | GW | 3.6 | 7.12 | 7.7 | 2830 | 3150 | 0.36 | 0.005 | U | 0.01 | U | 0.005 | J4 |
| EP-81 | 10/27/99 | EPRI-9911-147 | GW | 4.9 | 6.83 | 8.1 | 2750 | 2710 | 0.26 | 0.005 | U | 0.01 | U | 0.005 | J4 |
| EP-81 | 01/28/00 | EPRI-0002-147 | GW | 3.5 | 7.09 | 7.7 | 3310 | 2930 | 0.64 | 0.005 | U | 0.011 | U | 0.006 | J2 |
| Average | | | 4.00 | 7.01 | 7.83 | 2963 | 2930 | 0.420 | 0.005 | 0.010 | 0.025 | 0.88 | 0.005 | 0.243 | |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity (SC) (lab) | Specific Conductivity (SC) (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (Cu) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|---------------------------|----------|---------------|-----------|----------|----------------------------------|----------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| Median | | | 3.6 | 7.09 | 7.7 | 2830 | 2930 | 0.360 | 0.005 | 0.010 | 0.025 | 0.38 | 0.005 | 0.260 |
| Standard Deviation | | | 0.78 | 0.16 | 0.23 | 303 | 220 | 0.197 | 0.000 | 0.001 | 0.000 | 1.07 | 0.002 | 0.029 |
| Minimum | | | 3.50 | 6.83 | 7.70 | 2750 | 2710 | 0.260 | 0.005 | 0.010 | 0.025 | 0.15 | 0.003 | 0.210 |
| Maximum | | | 4.90 | 7.12 | 8.10 | 3310 | 3150 | 0.640 | 0.005 | 0.011 | 0.025 | 2.10 | 0.006 | 0.260 |
| EP-82 | 08/09/99 | EPRI-9908-148 | GW | 0.4 | 7.23 | 7.7 | 4490 | 4560 | 0.009 | 0.005 | U | 0.01 | U | 0.025 |
| EP-82 | 10/31/99 | EPRI-9911-148 | GW | 7.01 | 7.7 | 3600 | 3580 | 0.011 | 0.005 | U | 0.01 | U | 0.025 | |
| EP-82 | 01/27/00 | EPRI-0002-148 | GW | 0.3 | 7.12 | 8.1 | 4340 | 4140 | 0.006 | 0.005 | U | 0.01 | U | 0.025 |
| Average | | | 0.35 | 7.12 | 7.83 | 4143 | 4093 | 0.009 | 0.005 | 0.010 | 0.025 | 0.18 | 0.003 | 0.127 |
| Median | | | 0.35 | 7.12 | 7.7 | 2340 | 4140 | 0.009 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.120 |
| Standard Deviation | | | 0.07 | 0.11 | 0.23 | 476 | 492 | 0.003 | 0.000 | 0.000 | 0.000 | 0.13 | 0.001 | 0.021 |
| Minimum | | | 0.30 | 7.01 | 7.70 | 3600 | 3580 | 0.006 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.110 |
| Maximum | | | 0.40 | 7.23 | 8.10 | 4490 | 4560 | 0.011 | 0.005 | 0.010 | 0.025 | 0.33 | 0.004 | 0.150 |
| EP-83 | 08/09/99 | EPRI-9908-149 | GW | 4.9 | 7.48 | 7.9 | 3870 | 3910 | 0.005 | 0.005 | U | 0.01 | U | 0.025 |
| EP-83 | 10/30/99 | EPRI-9911-149 | GW | | 7.22 | 7.8 | 3900 | 3920 | 0.007 | 0.005 | U | 0.01 | U | 0.025 |
| EP-83 | 10/30/99 | EPRI-9911-229 | GW | | 7.8 | 3910 | | 0.008 | 0.005 | U | 0.01 | U | 0.025 | U |
| EP-83 | 01/27/00 | EPRI-0002-149 | GW | 5.8 | 7.47 | 8.3 | 3900 | 3710 | 0.006 | 0.005 | U | 0.01 | U | 0.025 |
| EP-83 | 01/27/00 | EPRI-0002-226 | GW | 5.7 | 7.46 | 8.2 | 3910 | 3710 | 0.005 | 0.005 | U | 0.01 | U | 0.025 |
| Average | | | 5.47 | 7.41 | 8.00 | 3898 | 3813 | 0.006 | 0.005 | 0.010 | 0.025 | 0.88 | 0.003 | 0.044 |
| Median | | | 5.70 | 7.465 | 7.9 | 3900 | 3810 | 0.006 | 0.005 | 0.010 | 0.025 | 0.27 | 0.003 | 0.044 |
| Standard Deviation | | | 0.49 | 0.13 | 0.23 | 16 | 118 | 0.001 | 0.000 | 0.000 | 0.000 | 0.93 | 0.000 | 0.003 |
| Minimum | | | 4.90 | 7.22 | 7.80 | 3870 | 3710 | 0.005 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.040 |
| Maximum | | | 5.80 | 7.48 | 8.30 | 3920 | 3920 | 0.008 | 0.005 | 0.010 | 0.025 | 2.00 | 0.003 | 0.046 |
| EP-84 | 08/09/99 | EPRI-9908-150 | GW | 2.7 | 7.44 | 7.9 | 1838 | 1854 | 0.095 | 0.005 | U | 0.01 | U | 0.025 |
| EP-84 | 10/30/99 | EPRI-9911-150 | GW | | 6.88 | 7.4 | 3080 | 3070 | 0.031 | 0.006 | U | 0.01 | U | 0.025 |
| EP-84 | 01/27/00 | EPRI-0002-150 | GW | 0.8 | 7.12 | 8 | 3090 | 2920 | 0.029 | 0.007 | U | 0.01 | U | 0.046 |
| Average | | | 1.75 | 7.15 | 7.77 | 2669 | 2615 | 0.052 | 0.006 | 0.010 | 0.032 | 0.24 | 0.046 | 0.022 |
| Median | | | 1.75 | 7.12 | 7.9 | 3080 | 2920 | 0.031 | 0.006 | 0.010 | 0.025 | 0.11 | 0.027 | 0.023 |
| Standard Deviation | | | 1.34 | 0.28 | 0.32 | 720 | | 0.038 | 0.001 | 0.000 | 0.012 | 0.23 | 0.035 | 0.005 |
| Minimum | | | 0.80 | 6.88 | 7.40 | 1838 | 1854 | 0.029 | 0.005 | 0.010 | 0.025 | 0.10 | 0.025 | 0.017 |
| Maximum | | | 2.70 | 7.44 | 8.00 | 3090 | 3070 | 0.095 | 0.007 | 0.010 | 0.046 | 0.50 | 0.087 | 0.047 |
| EP-85 | 08/09/99 | EPRI-9908-151 | GW | 0.5 | 7.38 | 7.8 | 3200 | 3230 | 2.600 | 0.005 | U | 0.010 | U | 0.015 |
| EP-85 | 08/09/99 | EPRI-9908-202 | GW | 0.5 | 7.38 | 7.8 | 3190 | 3220 | 2.600 | 0.005 | U | 0.010 | U | 0.014 |
| EP-85 | 10/27/99 | EPRI-9911-151 | GW | 0.5 | 7.15 | 8.1 | 2700 | 2400 | 0.005 | U | 0.010 | U | 0.046 | U |
| EP-85 | 10/27/99 | EPRI-9911-224 | GW | 0.5 | 7.15 | 8.2 | 2700 | 2500 | 0.005 | U | 0.010 | U | 0.180 | J2 |
| EP-85 | 01/28/00 | EPRI-0002-151 | GW | 0.2 | 7.31 | 7.9 | 3000 | 2870 | 2.300 | 0.005 | U | 0.010 | U | 0.190 |
| Average | | | 0.80 | 7.15 | 7.77 | 2669 | 2615 | 0.052 | 0.006 | 0.010 | 0.032 | 0.24 | 0.046 | 0.022 |
| Median | | | 0.80 | 7.12 | 7.9 | 3080 | 2920 | 0.031 | 0.006 | 0.010 | 0.025 | 0.11 | 0.027 | 0.023 |
| Standard Deviation | | | 0.34 | 0.28 | 0.32 | 720 | | 0.038 | 0.001 | 0.000 | 0.012 | 0.23 | 0.035 | 0.005 |
| Minimum | | | 0.80 | 6.88 | 7.40 | 1838 | 1854 | 0.029 | 0.005 | 0.010 | 0.025 | 0.10 | 0.025 | 0.017 |
| Maximum | | | 2.70 | 7.44 | 8.00 | 3090 | 3070 | 0.095 | 0.007 | 0.010 | 0.046 | 0.50 | 0.087 | 0.047 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | (AS) TOT SC (fld) | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | | | |
|--------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|-------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|-------|-------|
| Average | | | 0.44 | 7.27 | 2958 | 2944 | 2,480 | 0.005 | 0.010 | 0.025 | 0.10 | 0.006 | 0.232 | 0.021 | | | |
| Median | | | 0.50 | 7.31 | 7.9 | 3000 | 2870 | 2,500 | 0.005 | 0.010 | 0.025 | 0.10 | 0.004 | 0.180 | 0.020 | | |
| Standard Deviation | | | 0.13 | 0.12 | 0.18 | 249 | 266 | 0.130 | 0.000 | 0.000 | 0.00 | 0.005 | 0.128 | 0.001 | | | |
| Minimum | | | 0.20 | 7.15 | 7.80 | 2700 | 2700 | 2,300 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.150 | 0.020 | | |
| Maximum | | | 0.50 | 7.38 | 8.20 | 3200 | 3230 | 2,600 | 0.005 | 0.010 | 0.025 | 0.10 | 0.015 | 0.460 | 0.023 | | |
| EP-86 | 08/09/99 | EPRI-9908-152 | GW | 6.9 | 7.66 | 8.1 | 2600 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.41 | 0.004 | |
| EP-86 | 10/31/99 | EPRI-9911-152 | GW | 7.34 | 7.9 | 2640 | 2620 | 0.005 | U | 0.01 | U | 0.025 | U | 0.17 | 0.003 | U | |
| EP-86 | 10/31/99 | EPRI-9911-231 | GW | 8 | 2650 | | 0.005 | U | 0.005 | U | 0.01 | U | 0.025 | U | 0.16 | 0.003 | |
| EP-86 | 01/27/00 | EPRI-0002-152 | GW | 7.5 | 7.58 | 8.2 | 2640 | 2520 | 0.005 | U | 0.01 | U | 0.025 | U | 0.66 | 0.006 | |
| Average | | | | 7.20 | 7.53 | 8.05 | 2633 | 2580 | 0.006 | 0.005 | 0.010 | 0.025 | 0.35 | 0.004 | 0.032 | 0.020 | |
| Median | | | | 7.20 | 7.58 | 8.05 | 2640 | 2600 | 0.005 | 0.005 | 0.010 | 0.025 | 0.29 | 0.004 | 0.032 | 0.020 | |
| Standard Deviation | | | | 0.42 | 0.17 | 0.13 | 22 | | 0.001 | 0.000 | 0.000 | 0.000 | 0.24 | 0.001 | 0.002 | 0.000 | |
| Minimum | | | | 6.90 | 7.34 | 7.90 | 2600 | 2520 | 0.005 | 0.005 | 0.010 | 0.025 | 0.16 | 0.003 | 0.030 | 0.020 | |
| Maximum | | | | 7.50 | 7.66 | 8.20 | 2650 | 2620 | 0.007 | 0.005 | 0.010 | 0.025 | 0.66 | 0.006 | 0.034 | 0.020 | |
| EP-87 | 08/10/99 | EPRI-9908-153 | GW | 3.4 | 7.34 | 7.8 | 666 | 688 | 0.027 | 0.005 | U | 0.01 | U | 0.025 | U | 3.00 | J4 |
| EP-88 | 08/05/99 | EPRI-9908-154 | GW | 4.4 | 7.34 | 8.1 | 5070 | 5930 | 0.024 | 0.005 | U | 0.01 | U | 0.025 | U | 0.70 | 0.01 |
| EP-88 | 10/30/99 | EPRI-9911-154 | GW | 7.13 | 7.7 | 5300 | 5360 | 0.022 | 0.005 | U | 0.01 | U | 0.025 | U | 0.51 | 0.003 | |
| EP-88 | 01/26/00 | EPRI-0002-154 | GW | 2.3 | 7.4 | 8.6 | 5220 | 4970 | 0.012 | 0.005 | U | 0.01 | U | 0.025 | U | 0.69 | 0.004 |
| EP-88 | 01/26/00 | EPRI-0002-223 | GW | 1.7 | 7.41 | 8.2 | 5230 | 5180 | 0.013 | 0.005 | U | 0.01 | U | 0.025 | U | 0.75 | 0.004 |
| Average | | | | 2.80 | 7.32 | 8.15 | 5205 | 5360 | 0.018 | 0.005 | 0.010 | 0.025 | 0.66 | 0.005 | 0.052 | 0.032 | |
| Median | | | | 2.30 | 7.37 | 8.15 | 5225 | 5270 | 0.018 | 0.005 | 0.010 | 0.025 | 0.70 | 0.004 | 0.056 | 0.022 | |
| Standard Deviation | | | | 1.42 | 0.13 | 0.37 | 97 | | 0.006 | 0.000 | 0.000 | 0.000 | 0.11 | 0.003 | 0.011 | 0.020 | |
| Minimum | | | | 1.70 | 7.13 | 7.70 | 5070 | 4970 | 0.012 | 0.005 | 0.010 | 0.025 | 0.51 | 0.003 | 0.035 | 0.021 | |
| Maximum | | | | 4.40 | 7.41 | 8.60 | 5300 | 5930 | 0.024 | 0.005 | 0.010 | 0.025 | 0.75 | 0.010 | 0.060 | 0.062 | |
| EP-89 | 08/05/99 | EPRI-9908-155 | GW | | 7.24 | 7.9 | 2830 | 3220 | 0.012 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | 0.005 |
| EP-89 | 08/05/99 | EPRI-9908-198 | GW | 7.24 | 8 | 2850 | 3220 | 0.011 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | 0.004 | |
| EP-89 | 10/28/99 | EPRI-9911-155 | GW | 2.8 | 6.92 | 8.1 | 2880 | 2580 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | 0.003 |
| EP-89 | 10/28/99 | EPRI-9911-225 | GW | 2.8 | 6.92 | 8.1 | 2880 | 2580 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.10 | 0.004 |
| EP-89 | 01/24/00 | EPRI-0002-155 | GW | 3.5 | 7.14 | 7.9 | 2810 | 2750 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | U | 0.12 | 0.015 |
| Average | | | | 3.03 | 7.09 | 8.00 | 2856 | 2870 | 0.009 | 0.005 | 0.010 | 0.025 | 0.10 | 0.006 | 0.020 | 0.023 | |
| Median | | | | 2.8 | 7.14 | 8 | 2860 | 2750 | 0.007 | 0.005 | 0.010 | 0.025 | 0.10 | 0.004 | 0.019 | 0.020 | |
| Standard Deviation | | | | 0.40 | 0.16 | 0.10 | 29 | | 0.002 | 0.000 | 0.000 | 0.000 | 0.01 | 0.005 | 0.004 | 0.004 | |
| Minimum | | | | 2.80 | 6.92 | 7.90 | 2810 | 2580 | 0.007 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.016 | 0.020 | |
| Maximum | | | | 3.50 | 7.24 | 8.10 | 2880 | 3220 | 0.012 | 0.005 | 0.010 | 0.025 | 0.12 | 0.015 | 0.024 | 0.029 | |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|--------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| EP-90 | 08/05/99 | EPRI-9908-156 | GW | 1.1 | 7.19 | 7.8 | 4960 | 0.17 | 0.005 | U | 0.01 | U | 0.019 | 1 |
| EP-90 | 10/30/99 | EPRI-9911-156 | GW | 6.92 | 7.6 | 4660 | 4680 | 0.14 | 0.005 | U | 0.01 | U | 0.003 | U |
| EP-90 | 01/24/00 | EPRI-0002-156 | GW | 0.5 | 7.17 | 7.8 | 5340 | 5010 | 0.12 | 0.005 | U | 0.01 | U | 1.1 |
| Average | | | | 0.80 | 7.09 | 7.73 | 4987 | 4883 | 0.143 | 0.005 | 0.010 | 0.033 | 1.21 | 0.011 |
| Median | | | | 0.8 | 7.17 | 7.8 | 4960 | 4960 | 0.140 | 0.005 | 0.010 | 0.025 | 1.40 | 0.011 |
| Standard Deviation | | | | 0.42 | 0.15 | 0.12 | 341 | | 0.025 | 0.000 | 0.000 | 0.013 | 0.91 | 0.008 |
| Minimum | | | | 0.50 | 6.92 | 7.60 | 4660 | 4680 | 0.120 | 0.005 | 0.010 | 0.025 | 0.22 | 0.003 |
| Maximum | | | | 1.10 | 7.19 | 7.80 | 5340 | 5010 | 0.170 | 0.005 | 0.010 | 0.048 | 2.00 | 0.019 |
| EP-93 | 10/13/99 | EPRI-9911-192 | GW | 4.6 | 7.33 | 7.7 | 5100 | 5180 | 0.005 | 0.005 | U | 0.01 | U | 11.00 |
| EP-93 | 01/27/00 | EPRI-0002-157 | GW | 3.4 | 7.31 | 8.1 | 5210 | 4890 | 0.031 | 0.005 | U | 0.14 | 0.044 | 61.00 |
| Average | | | | 4.00 | 7.32 | 7.90 | 5155 | | 0.018 | 0.005 | 0.075 | 0.055 | 36.00 | 0.021 |
| Median | | | | 4 | 7.32 | 7.9 | 5155 | | 0.018 | 0.005 | 0.075 | 0.035 | 36.00 | 0.021 |
| Standard Deviation | | | | 0.85 | 0.01 | 0.28 | 78 | | 0.018 | 0.000 | 0.092 | 0.013 | 35.36 | 0.018 |
| Minimum | | | | 3.40 | 7.31 | 7.70 | 5100 | | 0.005 | 0.005 | 0.010 | 0.025 | 11.00 | 0.008 |
| Maximum | | | | 4.60 | 7.33 | 8.10 | 5210 | | 0.031 | 0.005 | 0.140 | 0.044 | 61.00 | 0.033 |
| EP-94 | 10/13/99 | EPRI-9911-194 | GW | 5.9 | 7.18 | 7.6 | 5040 | 5110 | 0.007 | 0.005 | U | 0.01 | U | 2.20 |
| EP-94 | 01/27/00 | EPRI-0002-158 | GW | 2 | 7.31 | 8 | 4870 | 4580 | 0.014 | 0.005 | U | 0.01 | U | 0.50 |
| Average | | | | 3.95 | 7.25 | 7.80 | 4955 | | 0.011 | 0.005 | 0.010 | 0.025 | 1.35 | 0.008 |
| Median | | | | 3.95 | 7.245 | 7.8 | 4955 | | 0.011 | 0.005 | 0.010 | 0.025 | 1.35 | 0.008 |
| Standard Deviation | | | | 2.76 | 0.09 | 0.28 | 120 | | 0.005 | 0.000 | 0.000 | 0.000 | 1.20 | 0.001 |
| Minimum | | | | 2.00 | 7.18 | 7.60 | 4870 | | 0.007 | 0.005 | 0.010 | 0.025 | 0.50 | 0.007 |
| Maximum | | | | 5.90 | 7.31 | 8.00 | 5040 | | 0.014 | 0.005 | 0.010 | 0.025 | 2.20 | 0.008 |
| EP-95 | 10/26/99 | EPRI-9911-159 | GW | 6.67 | 8.3 | 3340 | 3110 | 0.006 | J4 | 0.005 | U | 0.01 | J4 | 0.022 |
| EP-95 | 01/27/00 | EPRI-0002-159 | GW | 6 | 7.66 | 8.3 | 3380 | 3200 | 0.009 | 0.005 | U | 0.01 | U | 0.13 |
| Average | | | | 7.17 | 8.30 | 3360 | | | 0.008 | 0.005 | 0.010 | 0.025 | 0.67 | 0.003 |
| Median | | | | 7.165 | 8.3 | 3360 | | | 0.008 | 0.005 | 0.010 | 0.025 | 0.67 | 0.003 |
| Standard Deviation | | | | 0.70 | 0.00 | 28 | | | 0.002 | 0.000 | 0.000 | 0.000 | 0.76 | 0.000 |
| Minimum | | | | 6.67 | 8.30 | 3340 | | | 0.006 | 0.005 | 0.010 | 0.025 | 0.13 | 0.003 |
| Maximum | | | | 7.66 | 8.30 | 3380 | | | 0.009 | 0.005 | 0.010 | 0.025 | 1.20 | 0.003 |
| EP-96 | 10/13/99 | EPRI-9911-193 | GW | 6.6 | 7.27 | 7.7 | 4960 | 5090 | 0.005 | 0.005 | U | 0.01 | U | 12.00 |
| EP-96 | 01/27/00 | EPRI-0002-160 | GW | 3.8 | 7.21 | 8 | 4930 | 4680 | 0.007 | 0.005 | U | 0.021 | U | 8.60 |
| Average | | | | 5.20 | 7.24 | 7.85 | 4945 | | 0.006 | 0.005 | 0.016 | 0.025 | 10.30 | 0.014 |
| Median | | | | 5.2 | 7.24 | 7.85 | 4945 | | 0.006 | 0.005 | 0.016 | 0.025 | 10.30 | 0.014 |
| Standard Deviation | | | | 1.98 | 0.04 | 0.21 | 21 | | 0.001 | 0.000 | 0.008 | 0.005 | 2.40 | 0.003 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | (AS) TOT | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|--------------------|----------|------------------|-----------|----------|--------------------------------|--------------------------------|----------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|
| Minimum | | | 3.80 | 7.21 | 4930 | | 0.005 | 0.005 | 0.010 | 0.025 | 8.60 | 0.010 | 0.015 | 0.042 | |
| Maximum | | | 6.60 | 7.27 | 8.00 | 4960 | | 0.007 | 0.005 | 0.021 | 0.025 | 12.00 | 0.017 | 0.019 | 0.053 |
| EP-97 | 10/18/99 | EPRI-9911-196 GW | 6.8 | 7.16 | 7.8 | 4940 | | 0.16 | 0.019 | 0.01 | U | 0.23 | 8.30 | 0.085 | 0.02 |
| EP-97 | 01/27/00 | EPRI-0002-161 GW | 1 | 7.36 | 8.1 | 5020 | | 0.14 | 0.013 | 0.01 | U | 0.19 | 4.70 | 0.13 | 0.008 |
| Average | | | 3.90 | 7.26 | 7.95 | 4980 | | 0.150 | 0.016 | 0.010 | 0.210 | 6.50 | 0.108 | 0.014 | 0.160 |
| Median | | | 3.9 | 7.26 | 7.95 | 4980 | | 0.150 | 0.016 | 0.010 | 0.210 | 6.50 | 0.108 | 0.014 | 0.160 |
| Standard Deviation | | | 4.10 | 0.14 | 0.21 | 57 | | 0.014 | 0.004 | 0.000 | 0.028 | 2.55 | 0.032 | 0.008 | 0.000 |
| Minimum | | | 1.00 | 7.16 | 7.80 | 4940 | | 0.140 | 0.013 | 0.010 | 0.190 | 4.70 | 0.085 | 0.008 | 0.160 |
| Maximum | | | 6.80 | 7.36 | 8.10 | 5020 | | 0.160 | 0.019 | 0.010 | 0.230 | 8.30 | 0.130 | 0.020 | 0.160 |
| EP-98 | 10/18/99 | EPRI-9911-197 GW | 4.9 | 7.66 | 8.1 | 6370 | | 0.018 | 0.005 | U | 0.01 | U | 0.035 | 11.00 | 0.026 |
| EP-98 | 01/27/00 | EPRI-0002-162 GW | 2.6 | 7.72 | 8.1 | 7370 | | 0.027 | 0.005 | U | 0.01 | U | 0.044 | 3.90 | 0.027 |
| Average | | | 3.75 | 7.69 | 8.10 | 6870 | | 0.023 | 0.005 | 0.010 | 0.040 | 7.45 | 0.027 | 0.055 | 0.046 |
| Median | | | 3.75 | 7.69 | 8.1 | 6870 | | 0.023 | 0.005 | 0.010 | 0.040 | 7.45 | 0.027 | 0.055 | 0.046 |
| Standard Deviation | | | 1.63 | 0.04 | 0.00 | 707 | | 0.006 | 0.000 | 0.000 | 0.006 | 5.02 | 0.001 | 0.205 | 0.003 |
| Minimum | | | 2.60 | 7.66 | 8.10 | 6370 | | 0.018 | 0.005 | 0.010 | 0.035 | 3.90 | 0.026 | 0.360 | 0.044 |
| Maximum | | | 4.90 | 7.72 | 8.10 | 7370 | | 0.027 | 0.005 | 0.010 | 0.044 | 11.00 | 0.027 | 0.650 | 0.048 |
| EP-99 | 10/18/99 | EPRI-9911-195 GW | | 7.6 | 5600 | | | 5.4 | 0.005 | U | 0.01 | U | 0.042 | 0.00 | 0.15 |
| EP-100 | 10/20/99 | EPRI-9911-198 GW | 3.7 | 6.63 | 8 | 8830 | | 9410 | 0.008 | 0.022 | 0.01 | U | 0.025 | U | 0.34 |
| EP-100 | 01/26/00 | EPRI-0002-164 GW | 1 | 6.75 | 7.5 | 9870 | | 9230 | 0.02 | 0.043 | 0.01 | U | 0.034 | 7.30 | 0.01 |
| Average | | | 2.35 | 6.69 | 7.75 | 9350 | | 0.014 | 0.033 | 0.010 | 0.030 | 3.82 | 0.009 | 0.420 | 0.185 |
| Median | | | 2.35 | 6.69 | 7.75 | 9350 | | 0.014 | 0.033 | 0.010 | 0.030 | 3.82 | 0.009 | 0.420 | 0.185 |
| Standard Deviation | | | 1.91 | 0.08 | 0.35 | 735 | | 0.008 | 0.015 | 0.000 | 0.006 | 4.92 | 0.002 | 0.000 | 0.078 |
| Minimum | | | 1.00 | 6.63 | 7.50 | 8830 | | 0.008 | 0.022 | 0.010 | 0.025 | 0.34 | 0.007 | 0.420 | 0.130 |
| Maximum | | | 3.70 | 6.75 | 8.00 | 9870 | | 0.020 | 0.043 | 0.010 | 0.034 | 7.30 | 0.010 | 0.420 | 0.240 |
| EP-101 | 10/21/99 | EPRI-9911-199 GW | 2.7 | 6.99 | 7.7 | 7220 | | 7270 | 7.2 | 0.78 | 0.01 | U | 0.028 | 2.60 | 0.015 |
| EP-101 | 01/25/00 | EPRI-0002-165 GW | 2.1 | 7.26 | 7.8 | 8680 | | 8860 | 4.5 | 0.72 | 0.01 | U | 0.025 | U | 1.60 |
| Average | | | 2.40 | 7.13 | 7.75 | 7950 | | 5.850 | 0.750 | 0.010 | 0.027 | 2.10 | 0.017 | 2.550 | 0.104 |
| Median | | | 2.4 | 7.125 | 7.75 | 7950 | | 5.850 | 0.750 | 0.010 | 0.027 | 2.10 | 0.017 | 2.550 | 0.104 |
| Standard Deviation | | | 0.42 | 0.19 | 0.07 | 1032 | | 1.909 | 0.042 | 0.000 | 0.002 | 0.71 | 0.002 | 0.354 | 0.079 |
| Minimum | | | 2.10 | 6.99 | 7.70 | 7220 | | 4.500 | 0.720 | 0.010 | 0.025 | 1.60 | 0.015 | 2.300 | 0.048 |
| Maximum | | | 2.70 | 7.26 | 7.80 | 8680 | | 7.200 | 0.780 | 0.010 | 0.028 | 2.60 | 0.018 | 2.890 | 0.160 |
| EP-102 | 10/21/99 | EPRI-9911-200 GW | 3.2 | 7.05 | 7.8 | 2760 | | 2860 | 0.21 | 0.05 | 0.01 | U | 0.025 | U | 1000.00 |
| EP-102 | 01/25/00 | EPRI-0002-166 GW | 0.6 | 7.24 | 7.9 | 2870 | | 2810 | 0.21 | 0.075 | 0.01 | U | 0.025 | U | 4800.00 |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000
Wells Total Metals

| Site | Date | Samp # | (Q) (fld) | pH (fld) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | | |
|--------------------|----------|---------------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|---------------|------------------|
| Average | | | 1.90 | 7.15 | 7.85 | 2815 | | 0.210 | 0.063 | 0.010 | 0.025 | 2900.00 | 0.008 | 4,900 0.070 | | |
| Median | | | 1.9 | 7.145 | 7.85 | 2815 | | 0.210 | 0.063 | 0.010 | 0.025 | 2900.00 | 0.008 | 4,900 0.070 | | |
| Standard Deviation | | | 1.84 | 0.13 | 0.07 | 78 | | 0.000 | 0.018 | 0.000 | 0.000 | 2687.01 | 0.006 | 0.141 0.035 | | |
| Minimum | | | 0.60 | 7.05 | 7.80 | 2760 | | 0.210 | 0.050 | 0.010 | 0.025 | 1000.00 | 0.004 | 4,800 0.045 | | |
| Maximum | | | 3.20 | 7.24 | 7.90 | 2870 | | 0.210 | 0.075 | 0.010 | 0.025 | 4800.00 | 0.012 | 5,000 0.094 | | |
| EP-103 | 10/21/99 | EPRI-9911-201 | GW | 4.6 | 7.21 | 8 | 1590 | 1618 | 0.005 | U | 0.01 | U | 0.025 | U | 1500.00 0.027 | |
| EP-103 | 01/24/00 | EPRI-0002-167 | GW | 3.9 | 7.34 | 8.3 | 1498 | 1465 | 0.011 | 0.005 | U | 0.01 | U | 0.025 | U | 5500.00 0.02 |
| Average | | | 4.25 | 7.28 | 8.15 | 1544 | | 0.008 | 0.005 | 0.010 | 0.025 | 3500.00 | 0.008 | 0.190 0.024 | | |
| Median | | | 4.25 | 7.275 | 8.15 | 1544 | | 0.008 | 0.005 | 0.010 | 0.025 | 3500.00 | 0.008 | 0.190 0.024 | | |
| Standard Deviation | | | 0.49 | 0.09 | 0.21 | 65 | | 0.004 | 0.000 | 0.000 | 0.000 | 2828.43 | 0.007 | 0.042 0.005 | | |
| Minimum | | | 3.90 | 7.21 | 8.00 | 1498 | | 0.005 | 0.005 | 0.010 | 0.025 | 1500.00 | 0.003 | 0.160 0.020 | | |
| Maximum | | | 4.60 | 7.34 | 8.30 | 1590 | | 0.011 | 0.005 | 0.010 | 0.025 | 5500.00 | 0.013 | 0.220 0.027 | | |
| EP-104 | 10/21/99 | EPRI-9911-202 | GW | 2.1 | 7.11 | 7.8 | 4600 | 4650 | 0.071 | 0.005 | U | 0.01 | U | 0.025 | U | 4100.00 0.02 |
| EP-104 | 01/24/00 | EPRI-0002-168 | GW | 1.5 | 7.28 | 8.1 | 4640 | 4510 | 0.08 | 0.005 | U | 0.01 | U | 0.025 | U | 9000.00 0.023 |
| Average | | | 1.80 | 7.20 | 7.95 | 4620 | | 0.076 | 0.005 | 0.010 | 0.025 | 6550.00 | 0.011 | 0.102 0.022 | | |
| Median | | | 1.8 | 7.195 | 7.95 | 4620 | | 0.076 | 0.005 | 0.010 | 0.025 | 6550.00 | 0.011 | 0.102 0.022 | | |
| Standard Deviation | | | 0.42 | 0.12 | 0.21 | 28 | | 0.006 | 0.000 | 0.000 | 0.000 | 3464.82 | 0.006 | 0.012 0.002 | | |
| Minimum | | | 1.50 | 7.11 | 7.80 | 4600 | | 0.071 | 0.005 | 0.010 | 0.025 | 4100.00 | 0.006 | 0.093 0.020 | | |
| Maximum | | | 2.10 | 7.28 | 8.10 | 4640 | | 0.080 | 0.005 | 0.010 | 0.025 | 9000.00 | 0.015 | 0.110 0.023 | | |
| EP-105 | 10/21/99 | EPRI-9911-204 | GW | 4 | 7.15 | 8 | 4460 | 4600 | 0.3 | 0.005 | U | 0.01 | U | 0.025 | U | 9100.00 0.055 |
| EP-105 | 01/25/00 | EPRI-0002-169 | GW | 3.1 | 7.43 | 8 | 3780 | 3590 | 0.4 | 0.005 | U | 0.01 | U | 0.078 | J4 | 57000.00 0.18 |
| Average | | | 3.55 | 7.29 | 8.00 | 4120 | | 0.350 | 0.005 | 0.010 | 0.052 | 33050.00 | 0.044 | 0.051 0.118 | | |
| Median | | | 3.55 | 7.29 | 8 | 4120 | | 0.350 | 0.005 | 0.010 | 0.052 | 33050.00 | 0.044 | 0.051 0.118 | | |
| Standard Deviation | | | 0.64 | 0.20 | 0.00 | 481 | | 0.071 | 0.000 | 0.000 | 0.037 | 33870.41 | 0.045 | 0.024 0.088 | | |
| Minimum | | | 3.10 | 7.15 | 8.00 | 3780 | | 0.300 | 0.005 | 0.010 | 0.025 | 9100.00 | 0.012 | 0.034 0.055 | | |
| Maximum | | | 4.00 | 7.43 | 8.00 | 4460 | | 0.400 | 0.005 | 0.010 | 0.078 | 57000.00 | 0.076 | 0.068 0.180 | | |
| EP-106 | 10/21/99 | EPRI-9911-205 | GW | 5.6 | 7.14 | 7.7 | 4180 | 4300 | 0.005 | U | 0.01 | U | 0.025 | U | 3.10 0.053 | |
| EP-106 | 01/25/00 | EPRI-0002-170 | GW | 1.4 | 7.08 | 7.7 | 4950 | 4860 | 0.007 | 0.005 | U | 0.01 | U | 0.025 | J4 | 0.014 [J1] 0.022 |
| Average | | | 3.50 | 7.11 | 7.70 | 4565 | | 0.006 | 0.005 | 0.010 | 0.025 | 1.85 | 0.009 | 0.099 0.038 | | |
| Median | | | 3.5 | 7.11 | 7.7 | 4565 | | 0.006 | 0.005 | 0.010 | 0.025 | 1.85 | 0.009 | 0.099 0.038 | | |
| Standard Deviation | | | 2.97 | 0.04 | 0.00 | 544 | | 0.001 | 0.000 | 0.000 | 0.000 | 1.77 | 0.007 | 0.016 0.022 | | |
| Minimum | | | 1.40 | 7.08 | 7.70 | 4180 | | 0.005 | 0.005 | 0.010 | 0.025 | 0.60 | 0.004 | 0.087 0.022 | | |
| Maximum | | | 5.60 | 7.14 | 7.70 | 4950 | | 0.007 | 0.005 | 0.010 | 0.025 | 3.10 | 0.014 | 0.110 0.053 | | |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity (SC) (lab) | Specific Conductivity (SC) (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT | |
|--------------------|----------|---------------|-----------|----------|----------------------------------|----------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-------|
| EP-107 | 10/21/99 | EPRI-9911-203 | GW | 5.2 | 6.99 | 7.8 | 6450 | 6500 | 0.015 | U | 0.01 | U | 0.003 | U | 0.49 |
| EP-107 | 01/24/00 | EPRI-0002-171 | GW | 2.1 | 7.17 | 7.7 | 6450 | 6270 | 0.012 | 0.005 | U | 0.01 | U | 0.009 | U |
| Average | | | 3.65 | 7.08 | 7.75 | 6450 | | 0.014 | 0.005 | 0.010 | 0.025 | 0.14 | 0.006 | 0.455 | |
| Median | | | 3.65 | 7.08 | 7.75 | 6450 | | 0.014 | 0.005 | 0.010 | 0.025 | 0.14 | 0.006 | 0.455 | |
| Standard Deviation | | | 2.19 | 0.13 | 0.07 | 0 | | 0.002 | 0.000 | 0.000 | 0.06 | 0.06 | 0.004 | 0.024 | |
| Minimum | | | 2.10 | 6.99 | 7.70 | 6450 | | 0.012 | 0.005 | 0.010 | 0.025 | 0.10 | 0.003 | 0.420 | |
| Maximum | | | 5.20 | 7.17 | 7.80 | 6450 | | 0.015 | 0.005 | 0.010 | 0.025 | 0.18 | 0.009 | 0.490 | |
| EP-108 | 10/26/99 | EPRI-9911-172 | GW | 6.64 | 8.3 | 2810 | 2850 | 0.7 | 14 | 0.005 | U | 0.01 | UJ | 0.025 | U |
| EP-108 | 01/28/00 | EPRI-0002-172 | GW | 1.5 | 7.52 | 8.2 | 3500 | 3360 | 1.4 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | 1.50 | 7.08 | 8.25 | 3155 | | 1.050 | 0.005 | 0.010 | 0.025 | 1.41 | 0.005 | 0.042 | |
| Median | | | 1.5 | 7.08 | 8.25 | 3155 | | 1.050 | 0.005 | 0.010 | 0.025 | 1.41 | 0.005 | 0.042 | |
| Standard Deviation | | | | 0.62 | 0.07 | 488 | | 0.495 | 0.000 | 0.000 | 0.000 | 1.26 | 0.001 | 0.018 | |
| Minimum | | | 1.50 | 6.64 | 8.20 | 2810 | | 0.700 | 0.005 | 0.010 | 0.025 | 0.52 | 0.004 | 0.037 | |
| Maximum | | | 1.50 | 7.52 | 8.30 | 3500 | | 1.400 | 0.005 | 0.010 | 0.025 | 2.30 | 0.006 | 0.060 | |
| EP-109 | 10/26/99 | EPRI-9911-173 | GW | 6.53 | 8.3 | 3470 | 3330 | 0.007 | 14 | 0.005 | U | 0.01 | UJ | 0.025 | U |
| EP-109 | 01/28/00 | EPRI-0002-173 | GW | 3.1 | 7.4 | 7.9 | 4000 | 3850 | 0.014 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | 3.10 | 6.97 | 8.10 | 3735 | | 0.011 | 0.005 | 0.010 | 0.025 | 1.06 | 0.021 | 0.064 | |
| Median | | | 3.1 | 6.965 | 8.1 | 3735 | | 0.011 | 0.005 | 0.010 | 0.025 | 1.06 | 0.021 | 0.064 | |
| Standard Deviation | | | | 0.62 | 0.28 | 375 | | 0.005 | 0.000 | 0.000 | 0.000 | 0.21 | 0.025 | 0.001 | |
| Minimum | | | 3.10 | 6.53 | 7.90 | 3470 | | 0.007 | 0.005 | 0.010 | 0.025 | 0.91 | 0.003 | 0.063 | |
| Maximum | | | 3.10 | 7.40 | 8.30 | 4000 | | 0.014 | 0.005 | 0.010 | 0.025 | 1.20 | 0.039 | 0.064 | |
| EP-110 | 10/29/99 | EPRI-9911-174 | GW | 4 | 6.99 | 8.4 | 2780 | 2510 | 0.005 | U | 0.005 | U | 0.025 | U | 1.30 |
| EP-110 | 01/24/00 | EPRI-0002-174 | GW | 3.4 | 7.23 | 7.8 | 2750 | 2700 | 0.009 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | 3.70 | 7.11 | 8.10 | 2765 | | 0.007 | 0.005 | 0.010 | 0.025 | 1.04 | 0.017 | 0.034 | |
| Median | | | 3.7 | 7.11 | 8.1 | 2765 | | 0.007 | 0.005 | 0.010 | 0.025 | 1.04 | 0.017 | 0.034 | |
| Standard Deviation | | | 0.42 | 0.17 | 0.42 | 21 | | 0.003 | 0.000 | 0.000 | 0.000 | 0.37 | 0.005 | 0.000 | |
| Minimum | | | 3.40 | 6.99 | 7.80 | 2750 | | 0.005 | 0.005 | 0.010 | 0.025 | 0.78 | 0.013 | 0.017 | |
| Maximum | | | 4.00 | 7.23 | 8.40 | 2780 | | 0.009 | 0.005 | 0.010 | 0.025 | 1.30 | 0.020 | 0.026 | |
| EP-111 | 10/28/99 | EPRI-9911-175 | GW | 3.5 | 7.11 | 7.7 | 5450 | 5410 | 0.97 | 0.005 | U | 0.01 | U | 0.039 | 15.00 |
| EP-111 | 01/29/00 | EPRI-0002-175 | GW | 0.1 | 7.21 | 7.8 | 5390 | 5110 | 0.91 | 0.005 | U | 0.01 | U | 0.025 | U |
| Average | | | 1.80 | 7.16 | 7.75 | 5420 | | 0.940 | 0.005 | 0.010 | 0.032 | 8.50 | 0.025 | 0.008 | |
| Median | | | 1.8 | 7.16 | 7.75 | 5420 | | 0.940 | 0.005 | 0.010 | 0.032 | 8.50 | 0.025 | 0.008 | |
| Standard Deviation | | | 2.40 | 0.07 | 0.07 | 42 | | 0.042 | 0.000 | 0.000 | 0.010 | 9.19 | 0.031 | 0.004 | |
| Minimum | | | 0.10 | 7.11 | 7.70 | 5390 | | 0.910 | 0.005 | 0.010 | 0.025 | 2.00 | 0.005 | 0.020 | |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (Cu) TOT | Iron (Fe) TOT | Lead (Pb) TOT | Selenium (Se) TOT | Zinc (Zn) TOT | | |
|---------------------------|----------|------------------|-----------|----------|--------------------------------|--------------------------------|------------------|------------------|-------------------|-----------------|---------------|---------------|-------------------|---------------|-----------|----------|
| Maximum | | | 3.50 | 7.21 | 5450 | | 0.970 | 0.005 | 0.010 | 0.039 | 15.00 | 0.047 | 0.010 | 0.130 | | |
| EP-112 | 10/28/99 | EPRI-9911-176 GW | 8.5 | 7.32 | 7.8 | 5250 | 5090 | 0.012 | 0.005 | U | 0.025 | U | 0.015 | 0.012 | 0.096 J2 | |
| EP-112 | 01/29/00 | EPRI-0002-176 GW | 0.1 | 7.11 | 8 | 7520 | 7130 | 0.013 | 0.005 | U | 0.025 | U | 0.003 | U | 0.02 U | |
| Average | | | 4.30 | 7.22 | 7.90 | 6385 | | 0.013 | 0.005 | 0.010 | 0.025 | 5.74 | 0.009 | 0.010 | 0.058 | |
| Median | | | 4.3 | 7.215 | 7.9 | 6385 | | 0.013 | 0.005 | 0.010 | 0.025 | 5.74 | 0.009 | 0.010 | 0.058 | |
| Standard Deviation | | | 5.94 | 0.15 | 0.14 | 1605 | | 0.001 | 0.000 | 0.000 | 0.000 | 7.44 | 0.008 | 0.004 | 0.054 | |
| Minimum | | | 0.10 | 7.11 | 7.80 | 5250 | | 0.012 | 0.005 | 0.010 | 0.025 | 0.48 | 0.003 | 0.007 | 0.020 | |
| Maximum | | | 8.50 | 7.32 | 8.00 | 7520 | | 0.013 | 0.005 | 0.010 | 0.025 | 11.00 | 0.015 | 0.012 | 0.096 | |
| EP-113 | 10/28/99 | EPRI-9911-177 GW | 7.5 | 7.41 | 8 | 4060 | 4080 | 0.005 | U | 0.01 | U | 4.50 | J2 | 0.009 | 0.005 U | |
| EP-113 | 01/29/00 | EPRI-0002-177 GW | 0.1 | 7.3 | 7.6 | 4180 | 4050 | 0.005 | U | 0.01 | U | 0.025 | U | 0.005 | U | |
| Average | | | 3.80 | 7.36 | 7.80 | 4120 | | 0.005 | 0.005 | 0.010 | 0.025 | 2.90 | 0.006 | 0.005 | 0.036 | |
| Median | | | 3.8 | 7.355 | 7.8 | 4120 | | 0.005 | 0.005 | 0.010 | 0.025 | 2.90 | 0.006 | 0.005 | 0.036 | |
| Standard Deviation | | | 5.23 | 0.08 | 0.28 | 85 | | 0.000 | 0.000 | 0.000 | 0.000 | 2.26 | 0.004 | 0.000 | 0.022 | |
| Minimum | | | 0.10 | 7.30 | 7.60 | 4060 | | 0.005 | 0.005 | 0.010 | 0.025 | 1.30 | 0.003 | 0.005 | 0.020 | |
| Maximum | | | 7.50 | 7.41 | 8.00 | 4180 | | 0.005 | 0.005 | 0.010 | 0.025 | 4.50 | 0.009 | 0.005 | 0.051 | |
| EP-114 | 11/18/99 | EPRI-9911-178 GW | 4.4 | 6.19 | 6.7 | 9800 | 10820 | 118 | 0.13 | 0.019 | 0.044 | 58.00 | 0.02 | 0.06 | 35 | |
| EP-114 | 01/31/00 | EPRI-0002-178 GW | 0.3 | 6.35 | 6.6 | 8480 | 9070 | 214 | 2.7 | 0.16 | 11 | 361.00 | 6.6 | 0.12 | 75 | |
| Average | | | 2.35 | 6.27 | 6.65 | 9140 | | 166.000 | 1.415 | 0.090 | 5.522 | 209.50 | 3.310 | 0.090 | 55.000 | |
| Median | | | 2.35 | 6.27 | 6.65 | 9140 | | 166.000 | 1.415 | 0.090 | 5.522 | 209.50 | 3.310 | 0.090 | 55.000 | |
| Standard Deviation | | | 2.90 | 0.11 | 0.07 | 933 | | 67.882 | 1.817 | 0.100 | 7.747 | 214.25 | 4.653 | 0.042 | 28.284 | |
| Minimum | | | 0.30 | 6.19 | 6.60 | 8480 | | 118.000 | 0.130 | 0.019 | 0.044 | 58.00 | 0.020 | 0.060 | 35.000 | |
| Maximum | | | 4.40 | 6.35 | 6.70 | 9800 | | 214.000 | 2.700 | 0.160 | 11.000 | 361.00 | 6.600 | 0.120 | 75.000 | |
| EP-115 | 11/22/99 | EPRI-9911-179 GW | 3.3 | 7.08 | 7.7 | 17800 | 1842 | R | 0.28 | 1.1 | 0.010 | U | 0.49 | 2.80 | 0.18 | 0.38 0.8 |
| EP-115 | 01/31/00 | EPRI-0002-179 GW | 1.8 | 6.81 | 7.7 | 11440 | 10470 | 0.26 | 0.19 | 0.01 | U | 0.14 | 0.87 | 0.02 | 0.42 0.34 | |
| Average | | | 2.55 | 6.95 | 7.70 | 14620.00 | | 0.27 | 0.65 | 0.01 | 0.32 | 1.84 | 0.10 | 0.40 | 0.57 | |
| Median | | | 2.55 | 6.945 | 7.7 | 14620 | | 0.27 | 0.645 | 0.01 | 0.315 | 1.84 | 0.1 | 0.4 | 0.57 | |
| Standard Deviation | | | 1.06 | 0.19 | 0.00 | 4497.20 | | 0.01 | 0.64 | 0.00 | 0.25 | 1.36 | 0.11 | 0.03 | 0.33 | |
| Minimum | | | 1.80 | 6.81 | 7.70 | 11440.00 | | 0.26 | 0.19 | 0.01 | 0.14 | 0.87 | 0.02 | 0.38 | 0.34 | |
| Maximum | | | 3.30 | 7.08 | 7.70 | 17800.00 | | 0.28 | 1.10 | 0.01 | 0.49 | 2.80 | 0.18 | 0.42 | 0.80 | |
| EP-116 | 11/18/99 | EPRI-9911-180 GW | 2.4 | 6.56 | 7.3 | 6280 | 6460 | 2.3 | 1.2 | 0.032 | 3.7 | 41.00 | 2 | 0.47 | 6 | |
| EP-116 | 01/31/00 | EPRI-0002-180 GW | 2.1 | 6.92 | 7.6 | 6480 | 6020 | 4.9 | 1.5 | 0.044 | 6.9 | 90.00 | 4.1 | 0.42 | 4.4 | |
| Average | | | 2.25 | 6.74 | 7.45 | 6380 | | 3.600 | 1.350 | 0.038 | 5.300 | 65.50 | 3.050 | 0.445 | 5.200 | |

Table H-4. Summary of Groundwater Analytical Results, August 1999 through February 2000

Wells Total Metals

| Site | Date | Samp # | (O) (fld) | pH (fld) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | Arsenic (AS) TOT | Cadmium (CD) TOT | Chromium (CR) TOT | Copper (CU) TOT | Iron (FE) TOT | Lead (PB) TOT | Selenium (SE) TOT | Zinc (ZN) TOT |
|--------------------|----------|------------------|--------------|-------------|--------------------------------------|--------------------------------------|---------------------|---------------------|----------------------|--------------------|------------------|------------------|----------------------|------------------|
| Median | | | 2.25 | 6.74 | 6380 | | 3,600 | 1,350 | 0.038 | 5,300 | 65.50 | 3,050 | 0.445 | 5,200 |
| Standard Deviation | | | 0.21 | 0.25 | 0.21 | 141 | | 1,838 | 0.212 | 0.008 | 2,263 | 34.65 | 1.485 | 0.035 |
| Minimum | | | 2.10 | 6.56 | 7.30 | 6280 | | 2,300 | 1,200 | 0.032 | 3,700 | 41.00 | 2,000 | 0.420 |
| Maximum | | | 2.40 | 6.92 | 7.60 | 6480 | | 4,900 | 1,500 | 0.044 | 6,900 | 90.00 | 4,100 | 0.470 |
| EP-117 | 11/18/99 | EPRI-9911-181 GW | 1.4 | 7.23 | 7.8 | 2580 | 2810 | 6 | 0.2 | 0.01 | U | 0.086 | 5.40 | 0.28 |
| EP-117 | 01/31/00 | EPRI-0002-181 GW | 1.3 | 7.35 | 7.5 | 2640 | 2590 | 11 | 2.7 | 0.16 | 2.1 | 228.00 | 10 | 1.1 |
| Average | | | 1.35 | 7.29 | 7.65 | 2610 | | 8,500 | 1,450 | 0.085 | 1,093 | 116.70 | 5.140 | 1.100 |
| Median | | | 1.35 | 7.29 | 7.65 | 2610 | | 8,500 | 1,450 | 0.085 | 1,093 | 116.70 | 5.140 | 1.100 |
| Standard Deviation | | | 0.07 | 0.08 | 0.21 | 42 | | 3,536 | 1,768 | 0.106 | 1,424 | 157.40 | 6.873 | 0.000 |
| Minimum | | | 1.30 | 7.23 | 7.50 | 2580 | | 6,000 | 0.200 | 0.010 | 0.086 | 5.40 | 0.280 | 1.100 |
| Maximum | | | 1.40 | 7.35 | 7.80 | 2640 | | 11,000 | 2,700 | 0.160 | 2,100 | 228.00 | 10,000 | 1.100 |
| EP-118 | 11/18/99 | EPRI-9911-182 GW | 3.6 | 7.46 | 8 | 3460 | 3780 | 0.22 | 0.009 | 0.052 | 0.14 | 184.00 | 0.17 | 0.29 |
| EP-118 | 01/31/00 | EPRI-0002-182 GW | 1.6 | 7.74 | 8 | 3080 | 2950 | 0.43 | 0.071 | 0.27 | 1.2 | 868.00 | 2.5 | 0.28 |
| Average | | | 2.60 | 7.60 | 8.00 | 3270 | | 0.325 | 0.040 | 0.161 | 0.670 | 526.00 | 1.335 | 0.285 |
| Median | | | 2.6 | 7.6 | 8 | 3270 | | 0.325 | 0.040 | 0.161 | 0.670 | 526.00 | 1.335 | 0.285 |
| Standard Deviation | | | 1.41 | 0.20 | 0.00 | 269 | | 0.148 | 0.044 | 0.154 | 0.750 | 483.66 | 1.648 | 0.007 |
| Minimum | | | 1.60 | 7.46 | 8.00 | 3080 | | 0.220 | 0.009 | 0.052 | 0.140 | 184.00 | 0.170 | 0.280 |
| Maximum | | | 3.60 | 7.74 | 8.00 | 3460 | | 0.430 | 0.071 | 0.270 | 1.200 | 868.00 | 2.500 | 0.290 |

TABLE H-5

**ANALYTICAL RESULTS FOR NUTRIENTS,
GROUNDWATER SAMPLES, EM WELLS**

Table H-5. Summary of Groundwater Analytical Results, August 1997 through February 2000
EM Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|----------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EM-1 | 08/13/97 | EPRI-9708-155 | GW | 4.05 | 7.52 | 7.80 | 5200 | 5210 | 0.23 |
| EM-1 | 11/17/97 | EPRI-9711-155 | GW | 4.96 | 7.20 | 8.00 | 4020 | 6250 | 0.073 |
| EM-1 | 02/19/98 | EPRI-9802-155 | GW | 1.64 | 7.39 | 7.50 | 5480 | 6410 | 0.054 |
| EM-1 | 05/18/98 | EPRI-9805-155 | GW | 3.15 | 7.43 | 7.60 | 5550 | 5480 | 0.05 |
| EM-1 | 8/20/98 | EPRI-9808-155 | GW | 1.57 | 7.38 | 7.8 | 5560 | 5600 | 0.050 |
| EM-1 | 11/18/98 | EPRI-9811-155 | GW | 2.20 | 7.06 | 7.6 | 5580 | 5540 | 0.050 |
| EM-1 | 2/24/99 | EPRI-9902-167 | GW | 2.20 | 7.46 | 7.6 | 5600 | 6860 | 0.050 |
| EM-1 | 5/12/99 | EPRI-9905-168 | GW | 2.30 | 6.94 | 7.9 | 5670 | J3 5740 | 0.10 U,UJ4 |
| EM-1 | 08/11/99 | EPRI-9908-168 | GW | 1.5 | 7.38 | 7.8 | 5610 | 5500 | 0.05 U |
| EM-1 | 10/30/99 | EPRI-9911-161 | GW | | 7.16 | 7.8 | 5600 | 5050 | 0.17 UJ1 |
| EM-1 | 01/31/00 | EPRI-0002-195 | GW | 1.02 | 7.26 | 7.8 | 5580 | 5310 | 0.37 UJ1 |
| Average | | | | 2.46 | 7.29 | 7.75 | 5405 | 5723 | 0.113 |
| Median | | | | 2.20 | 7.38 | 7.8 | 5580 | 5540 | 0.054 |
| Standard Deviation | | | | 1.24 | 0.18 | 0.15 | 475 | 556 | 0.104 |
| Minimum | | | | 1.02 | 6.94 | 7.50 | 4020 | 5050 | 0.050 |
| Maximum | | | | 4.96 | 7.52 | 8.00 | 5670 | 6860 | 0.370 |
| EM-2 | 08/11/97 | EPRI-9708-156A | GW | 6.28 | 7.08 | | | 4630 | |
| EM-2 | 08/26/97 | EPRI-9708-156 | GW | | 7.40 | 7.90 | 4550 | 871 R | 28 |
| EM-2 | 11/17/97 | EPRI-9711-156 | GW | 1.41 | 7.00 | 7.70 | 3960 | 5150 | 17 |
| EM-2 | 02/17/98 | EPRI-9802-156 | GW | 1.26 | 6.90 | 7.70 | 4150 | 5450 | 20 |
| EM-2 | 05/18/98 | EPRI-9805-156 | GW | 4.29 | 7.14 | 7.50 | 4190 | 4180 | 19 |
| EM-2 | 8/13/98 | EPRI-9808-156 | GW | 1.06 | 7.02 | 7.8 | 4210 | 4240 | 19 |
| EM-2 | 11/11/98 | EPRI-9811-156 | GW | 3.50 | 7.23 | 7.5 | 4260 | 4190 | 19 |
| EM-2 | 2/22/99 | EPRI-9902-168 | GW | 2.40 | 7.12 | 7.6 | 4510 | 5330 | 18 J4 |
| EM-2 | 5/10/99 | EPRI-9905-169 | GW | 1.30 | 6.71 | 7.4 | 6050 | 6480 | 99 |
| EM-2 | 08/06/99 | EPRI-9908-169 | GW | 1.6 | 6.81 | 7.5 | 5740 | 6320 | 102 |
| EM-2 | 10/29/99 | EPRI-9911-262 | GW | 1.1 | 6.6 | 7.7 | 6040 | 5360 | 72 |
| EM-2 | 01/25/00 | EPRI-0002-196 | GW | 3.3 | 7.05 | 7.7 | 5330 | 5160 | 42 |
| Average | | | | 2.50 | 7.01 | 7.64 | 4817 | 4780 | 41 |
| Median | | | | 1.60 | 7.035 | 7.7 | 4510 | 5155 | 20 |
| Standard Deviation | | | | 1.68 | 0.22 | 0.15 | 809 | 1444 | 33 |
| Minimum | | | | 1.06 | 6.60 | 7.40 | 3960 | 871 | 17 |
| Maximum | | | | 6.28 | 7.40 | 7.90 | 6050 | 6480 | 102 |
| EM-4 | 08/11/97 | EPRI-9708-158A | GW | 2.72 | 7.28 | | | 10570 | |
| EM-4 | 08/26/97 | EPRI-9708-158 | GW | | 7.50 | 7.90 | 10410 | 2090 R | 0.3 |
| EM-4 | 11/17/97 | EPRI-9711-158 | GW | 2.57 | 7.10 | 7.70 | 11300 | 14110 | 0.19 |
| EM-4 | 02/17/98 | EPRI-9802-157 | GW | 1.14 | 6.97 | 7.40 | 11150 | 14370 | 0.25 |
| EM-4 | 05/18/98 | EPRI-9805-157 | GW | 1.49 | 7.23 | 7.70 | 9420 | 10150 | 0.23 |
| EM-4 | 8/13/98 | EPRI-9808-157 | GW | 1.06 | 7.02 | 7.8 | 9560 | 4240 R | 0.22 |
| EM-4 | 11/11/98 | EPRI-9811-157 | GW | 1.90 | 6.95 | 7.4 | 10460 | 10370 | 0.24 |
| EM-4 | 2/22/99 | EPRI-9902-169 | GW | 8.30 | 7.27 | 7.5 | 9940 | 11540 | 0.15 J4 |
| EM-4 | 5/10/99 | EPRI-9905-170 | GW | 0.90 | 7.01 | 7.6 | 10270 | 10850 | 0.43 |
| EM-4 | 5/10/99 | EPRI-9905-185 | GW | 1.00 | 7.01 | 7.7 | 10270 | 10780 | 0.35 |
| EM-4 | 08/06/99 | EPRI-9908-170 | GW | 0.8 | 7.21 | 7.9 | 10440 | 10600 | 0.16 |
| EM-4 | 10/29/99 | EPRI-9911-164 | GW | 2.1 | 6.96 | 7.8 | 9400 | 8720 | 0.23 UJ1,J4 |
| EM-4 | 01/25/00 | EPRI-0002-197 | GW | 1.5 | 7.28 | 7.8 | 9240 | 9300 | 0.2 UJ1,J4 |
| Average | | | | 2.12 | 7.14 | 7.68 | 10155 | 9822 | 0.25 |
| Median | | | | 1.50 | 7.1 | 7.7 | 10270 | 10570 | 0.23 |
| Standard Deviation | | | | 2.05 | 0.17 | 0.17 | 668 | 3391 | 0.08 |
| Minimum | | | | 0.80 | 6.95 | 7.40 | 9240 | 2090 | 0.15 |
| Maximum | | | | 8.30 | 7.50 | 7.90 | 11300 | 14370 | 0.43 |

Table H-5. Summary of Groundwater Analytical Results, August 1997 through February 2000
EM Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | | Specific Conductivity SC (fld) | | NO3+N02 as N | |
|--------------------|----------|----------------|------|--------------|-------------|-------------|--------------------------------------|------|--------------------------------------|------|-----------------|--------|
| EM-5 | 08/11/97 | EPRI-9708-159A | GW | 0.96 | 7.65 | | | | 5970 | | | |
| EM-5 | 08/26/97 | EPRI-9708-159 | GW | | 7.64 | 8.00 | 6160 | | 1187 | R | 0.15 | |
| EM-5 | 11/17/97 | EPRI-9711-159 | GW | 0.79 | 7.30 | 7.70 | 6700 | | 8790 | | 0.05 | U |
| EM-5 | 02/17/98 | EPRI-9802-158 | GW | 1.84 | 7.17 | 7.70 | 6990 | | 9310 | | 0.28 | |
| EM-5 | 05/18/98 | EPRI-9805-158 | GW | 1.21 | 7.59 | 7.90 | 4920 | | 4950 | | 0.16 | |
| EM-5 | 8/17/98 | EPRI-9808-158 | GW | 0.18 | 7.50 | 7.8 | 4970 | | 5010 | | 0.19 | |
| EM-5 | 11/11/98 | EPRI-9811-158 | GW | 3.50 | 7.43 | 7.6 | 5090 | | 5030 | | 0.10 | U |
| EM-5 | 2/11/99 | EPRI-9902-170 | GW | 0.90 | 7.47 | 7.8 | 4740 | | 4800 | | 0.050 | U |
| EM-5 | 2/11/99 | EPRI-9902-187 | GW | 0.90 | 7.48 | 7.8 | 4770 | | 4800 | | 0.050 | U |
| EM-5 | 5/10/99 | EPRI-9905-171 | GW | 0.70 | 7.35 | 7.7 | 3700 | | 3800 | | 0.1 | U |
| EM-5 | 08/06/99 | EPRI-9908-171 | GW | 0.7 | 7.46 | 7.8 | 2660 | | 2630 | | 0.36 | |
| EM-5 | 11/02/99 | EPRI-9911-165 | GW | 4.1 | 7.38 | 7.9 | 3010 | | 3210 | | 0.17 | |
| EM-5 | 11/02/99 | EPRI-9911-236 | GW | 4 | 7.39 | 8 | 3020 | | 3190 | | 0.11 | |
| EM-5 | 01/25/00 | EPRI-0002-198 | GW | 0.3 | 7.51 | 8 | 2100 | | 2050 | | 0.11 | UJ1,J4 |
| Average | | | | | 1.54 | 7.45 | 7.82 | 4525 | | 4623 | | 0.145 |
| Median | | | | | 0.90 | 7.465 | 7.8 | 4770 | | 4800 | | 0.110 |
| Standard Deviation | | | | | 1.39 | 0.13 | 0.13 | 1551 | | 2300 | | 0.092 |
| Minimum | | | | | 0.18 | 7.17 | 7.60 | 2100 | | 1187 | | 0.050 |
| Maximum | | | | | 4.10 | 7.65 | 8.00 | 6990 | | 9310 | | 0.360 |
| EM-6 | 08/11/97 | EPRI-9708-160 | GW | 4.48 | 7.25 | 7.90 | 4520 | | 4480 | | 10 | |
| EM-6 | 08/11/97 | EPRI-9708-173 | GW | | | 7.80 | 4500 | | | | | 8.2 |
| EM-6 | 11/17/97 | EPRI-9711-160 | GW | 0.98 | 7.15 | 7.60 | 4500 | | 5750 | | 6.9 | |
| EM-6 | 02/17/98 | EPRI-9802-159 | GW | 0.91 | 7.04 | 7.80 | 4330 | | 5810 | | 9 | |
| EM-6 | 05/18/98 | EPRI-9805-159 | GW | 1.57 | 7.21 | 7.60 | 4090 | | 4310 | | 6.6 | |
| EM-6 | 05/18/98 | EPRI-9805-180 | GW | | | 7.50 | 4120 | | | | | 6.9 |
| EM-6 | 8/17/98 | EPRI-9808-159 | GW | 0.32 | 7.17 | 7.6 | 4600 | | 4610 | | 7.5 | |
| EM-6 | 11/11/98 | EPRI-9811-159 | GW | 1.40 | 7.45 | 7.8 | 3550 | | 3590 | | 5.9 | |
| EM-6 | 2/11/99 | EPRI-9902-171 | GW | 3.60 | 7.30 | 7.8 | 4290 | | 4390 | | 6.2 | |
| EM-6 | 5/10/99 | EPRI-9905-172 | GW | 0.60 | 7.06 | 7.7 | 3810 | | 4290 | | 5.3 | |
| EM-6 | 08/06/99 | EPRI-9908-172 | GW | 0.5 | 7.3 | 8 | 3640 | | 3840 | | 4.7 | |
| EM-6 | 08/06/99 | EPRI-9908-200 | GW | 0.4 | 7.3 | 8 | 3640 | | 3850 | | 5.7 | |
| EM-6 | 11/02/99 | EPRI-9911-166 | GW | 2.2 | 7.3 | 8 | 3300 | | 3660 | | 4.7 | |
| EM-6 | 01/25/00 | EPRI-0002-199 | GW | 1.2 | 7.26 | 8 | 4330 | | 4240 | | 7.2 | J4 |
| Average | | | | | 1.51 | 7.23 | 7.79 | 4087 | | 4402 | | 6.8 |
| Median | | | | | 1.09 | 7.255 | 7.8 | 4205 | | 4300 | | 6.8 |
| Standard Deviation | | | | | 1.31 | 0.11 | 0.17 | 424 | | 722 | | 1.5 |
| Minimum | | | | | 0.32 | 7.04 | 7.50 | 3300 | | 3590 | | 4.7 |
| Maximum | | | | | 4.48 | 7.45 | 8.00 | 4600 | | 5810 | | 10.0 |
| EM-7 | 11/17/97 | EPRI-9711-161 | GW | 1.78 | 7.56 | 8.40 | 5700 | | 7070 | | 1.5 | |
| EM-7 | 02/19/98 | EPRI-9802-160 | GW | 2.33 | 7.77 | 7.80 | 6020 | | 6810 | | 0.32 | |
| EM-7 | 05/07/98 | EPRI-9805-160 | GW | 1.3 | 7.24 | 7.80 | 5560 | | 6960 | | 0.41 | |
| EM-7 | 08/20/98 | EPRI-9808-160 | GW | 1.95 | 7.38 | 7.70 | 5220 | | 5240 | | 0.18 | |
| EM-7 | 11/11/98 | EPRI-9811-160 | GW | 2.30 | 7.54 | 7.6 | 5310 | | 5190 | | 0.1 | U |
| EM-7 | 2/24/99 | EPRI-9902-172 | GW | 2.00 | 7.69 | 7.8 | 5110 | | 6320 | | 0.54 | |
| EM-7 | 5/12/99 | EPRI-9905-173 | GW | 3.60 | 7.66 | 7.4 | 4540 | J3 | 4560 | | 0.10 | U,UJ4 |
| EM-7 | 8/6/99 | EPRI-9908-173 | GW | 3.90 | 7.54 | 7.7 | 4410 | | 4420 | | 0.23 | |
| EM-7 | 10/30/99 | EPRI-9911-167 | GW | | 7.41 | 7.8 | 2520 | | 2410 | | 0.16 | UJ1 |
| EM-7 | 01/31/00 | EPRI-0002-200 | GW | 1.2 | 7.59 | 7.8 | 2260 | | 1980 | | 0.37 | UJ1 |
| Average | | | | | 2.26 | 7.54 | 7.78 | 4665 | | 5096 | | 0.39 |
| Median | | | | | 2.00 | 7.55 | 7.8 | 5165 | | 5215 | | 0.28 |
| Standard Deviation | | | | | 0.93 | 0.16 | 0.25 | 1295 | | 1811 | | 0.42 |
| Minimum | | | | | 1.20 | 7.24 | 7.40 | 2260 | | 1980 | | 0.10 |
| Maximum | | | | | 3.90 | 7.77 | 8.40 | 6020 | | 7070 | | 1.50 |

TABLE H-6

**ANALYTICAL RESULTS FOR NUTRIENTS,
GROUNDWATER SAMPLES, EP WELLS**

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-4 | 08/06/97 | EPRI-9708-100 | GW | 1.51 | 7.06 | 7.70 | 2350 | 2230 | 0.05 U |
| EP-4 | 11/04/97 | EPRI-9711-100 | GW | 1 | 7.46 | 7.80 | 1656 | 1906 | 0.05 U |
| EP-4 | 02/04/98 | EPRI-9802-100 | GW | 1.91 | 7.58 | 8.00 | 1595 | 1563 | 0.05 U |
| EP-4 | 05/05/98 | EPRI-9805-100 | GW | 3.20 | 7.95 | 7.90 | 1831 | 1670 | 0.093 |
| EP-4 | 8/5/98 | EPRI-9808-100 | GW | 1.34 | 7.36 | 7.8 | 1970 | 2190 | 0.050 U |
| EP-4 | 2/3/99 | EPRI-9902-100 | GW | 1.20 | 8.08 | 8.1 | 1965 | 1620 | 0.21 |
| EP-4 | 5/5/99 | EPRI-9905-100 | GW | 2.10 | 7.60 | 7.9 | 2170 | 2050 | 0.1 U |
| EP-4 | 08/02/99 | EPRI-9908-100 | GW | 1.3 | 7.61 | 7.8 | 2440 | 2490 | 0.076 UJ1 |
| EP-4 | 10/25/99 | EPRI-9911-100 | GW | | 7.28 | 8.3 | 2660 | 2650 | 0.11 |
| EP-4 | 01/29/00 | EPRI-0002-100 | GW | 1 | 7.64 | 8 | 2310 | 2290 | 0.18 J3 |
| Average | | | | 1.62 | 7.56 | 7.93 | 2095 | 2066 | 0.097 |
| Median | | | | 1.34 | 7.59 | 7.9 | 2070 | 2120 | 0.085 |
| Standard Deviation | | | | 0.70 | 0.30 | 0.18 | 350 | 372 | 0.057 |
| Minimum | | | | 1.00 | 7.06 | 7.70 | 1595 | 1563 | 0.050 |
| Maximum | | | | 3.20 | 8.08 | 8.30 | 2660 | 2650 | 0.210 |
| EP-5 | 08/06/97 | EPRI-9708-101 | GW | 1.29 | 7.47 | 7.70 | 3350 | 3330 | 0.05 U |
| EP-5 | 11/04/97 | EPRI-9711-101 | GW | 2.52 | 7.58 | 8.00 | 3100 | 3700 | 0.05 U |
| EP-5 | 02/04/98 | EPRI-9802-101 | GW | 0.68 | 7.58 | 8.10 | 3070 | 3060 | 0.14 |
| EP-5 | 05/05/98 | EPRI-9805-101 | GW | 5.22 | 7.81 | 8.00 | 2980 | 2560 | 0.055 |
| EP-5 | 8/5/98 | EPRI-9808-101 | GW | 1.14 | 7.36 | 7.8 | 2900 | 3360 | 0.050 U |
| EP-5 | 11/3/98 | EPRI-9811-101 | GW | 1.00 | 7.04 | 7.6 | 3010 | 2890 | 0.05 U |
| EP-5 | 2/3/99 | EPRI-9902-101 | GW | 1.70 | 7.87 | 8.0 | 2820 | 2800 | 0.28 |
| EP-5 | 5/5/99 | EPRI-9905-101 | GW | 2.20 | 7.52 | 8.1 | 2780 | 2600 | 0.1 U |
| EP-5 | 08/02/99 | EPRI-9908-101 | GW | 1.8 | 7.44 | 7.9 | 3300 | 3550 | 0.05 U |
| EP-5 | 10/25/99 | EPRI-9911-101 | GW | | 7.18 | 8.1 | 8230 | 8380 | 0.36 |
| Average | | | | 1.95 | 7.49 | 7.93 | 3554 | 3623 | 0.119 |
| Median | | | | 1.70 | 7.495 | 8 | 3040 | 3195 | 0.053 |
| Standard Deviation | | | | 1.36 | 0.25 | 0.18 | 1653 | 1716 | 0.112 |
| Minimum | | | | 0.68 | 7.04 | 7.60 | 2780 | 2560 | 0.050 |
| Maximum | | | | 5.22 | 7.87 | 8.10 | 8230 | 8380 | 0.360 |
| EP-6 | 08/06/97 | EPRI-9708-102 | GW | 1.47 | 7.34 | 7.90 | 7320 | 7240 | 11 |
| EP-6 | 11/04/97 | EPRI-9711-102 | GW | 1.03 | 7.44 | 7.90 | 7010 | 7440 | 17 |
| EP-6 | 02/04/98 | EPRI-9802-102 | GW | 3.1 | 7.53 | 8.00 | 6060 | 997 | A 0.05 U |
| EP-6 | 05/05/98 | EPRI-9805-102 | GW | 3.00 | 7.62 | 8.00 | 5810 | 4950 | 0.35 |
| EP-6 | 8/5/98 | EPRI-9808-102 | GW | 1.24 | 7.30 | 8.0 | 6720 | 7440 | 3.2 |
| EP-6 | 11/3/98 | EPRI-9811-102 | GW | 1.50 | 7.33 | 7.7 | 7120 | 7030 | 4.3 |
| EP-6 | 2/3/99 | EPRI-9902-102 | GW | 2.50 | 7.51 | 7.9 | 7270 | 6960 | 0.38 |
| EP-6 | 5/5/99 | EPRI-9905-102 | GW | 1.40 | 7.39 | 8.1 | 7400 | 7100 | 0.19 |
| EP-6 | 5/5/99 | EPRI-9905-179 | GW | 1.60 | 7.43 | 7.9 | 7400 | 6810 | 0.1 U |
| EP-6 | 08/02/99 | EPRI-9908-102 | GW | 1.6 | 7.37 | 8.4 | 7760 | 7630 | 6.6 |
| EP-6 | 10/25/99 | EPRI-9911-102 | GW | | 7.15 | 8 | 8070 | 8090 | 3.5 |
| EP-6 | 01/29/00 | EPRI-0002-102 | GW | 3.1 | 7.46 | 7.9 | 7860 | 7430 | 1.2 J3 |
| Average | | | | 1.96 | 7.41 | 7.98 | 7150 | 6593 | 3.99 |
| Median | | | | 1.60 | 7.41 | 7.95 | 7295 | 7170 | 2.20 |
| Standard Deviation | | | | 0.80 | 0.12 | 0.17 | 680 | 1919 | 5.27 |
| Minimum | | | | 1.03 | 7.15 | 7.70 | 5810 | 997 | 0.05 |
| Maximum | | | | 3.10 | 7.62 | 8.40 | 8070 | 8090 | 17.00 |
| EP-7 | 08/06/97 | EPRI-9708-103 | GW | 1.66 | 7.17 | 7.80 | 2810 | 2580 | 0.05 U |
| EP-7 | 11/04/97 | EPRI-9711-103 | GW | 1.55 | 7.36 | 7.90 | 2710 | 2850 | 0.05 U |
| EP-7 | 02/04/98 | EPRI-9802-103 | GW | 1.62 | 7.30 | 7.90 | 2810 | 501 | R 0.076 |
| EP-7 | 05/05/98 | EPRI-9805-103 | GW | 3.73 | 7.67 | 7.80 | 2890 | 2500 | 0.05 U |
| EP-7 | 8/5/98 | EPRI-9808-103 | GW | 0.690 | 7.28 | 7.8 | 2800 | 630 | R 0.050 U |
| EP-7 | 11/3/98 | EPRI-9811-103 | GW | 1.20 | 7.31 | 7.6 | 2660 | 2610 | 0.050 U |
| EP-7 | 2/3/99 | EPRI-9902-103 | GW | 1.90 | 7.51 | 7.9 | 2960 | 2790 | 0.1 U |
| EP-7 | 2/3/99 | EPRI-9902-177 | GW | 2.00 | 7.51 | 7.8 | 2950 | 2800 | 0.1 U |
| EP-7 | 5/5/99 | EPRI-9905-103 | GW | 2.50 | 7.50 | 7.9 | 3110 | 3030 | 0.41 |
| EP-7 | 08/02/99 | EPRI-9908-103 | GW | 1.9 | 7.33 | 7.7 | 3790 | 3800 | 0.13 UJ1 |
| EP-7 | 10/25/99 | EPRI-9911-103 | GW | | 6.97 | 7.8 | 6700 | 6910 | 0.11 |
| EP-7 | 10/25/99 | EPRI-9911-206 | GW | | | 7.9 | 6700 | | 0.1 |
| EP-7 | 01/29/00 | EPRI-0002-103 | GW | 1.7 | 7.27 | 7.5 | 3840 | 3630 | 0.17 J3 |
| EP-7 | 01/29/00 | EPRI-0002-230 | GW | 2.6 | 7.34 | 7.8 | 3820 | 3560 | 0.2 J3 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| Average | | | | 1.92 | 7.35 | 7.79 | 3611 | 2938 | 0.12 |
| Median | | | | 1.80 | 7.33 | 7.8 | 2955 | 2800 | 0.10 |
| Standard Deviation | | | | 0.77 | 0.18 | 0.12 | 1373 | 1558 | 0.10 |
| Minimum | | | | 0.69 | 6.97 | 7.50 | 2660 | 501 | 0.05 |
| Maximum | | | | 3.73 | 7.67 | 7.90 | 6700 | 6910 | 0.41 |
| EP-12 | 11/03/97 | EPRI-9711-104 | GW | 1.44 | 6.80 | 7.30 | 5840 | 7490 | 21 |
| EP-12 | 02/03/98 | EPRI-9802-104 | GW | 1.55 | 6.76 | 7.40 | 6580 | 7870 | 32 |
| EP-12 | 05/20/98 | EPRI-9805-104 | GW | 2.38 | 7.05 | 7.60 | 5280 | 4820 | 18 |
| EP-12 | 8/27/98 | EPRI-9808-104 | GW | 1.12 | 6.79 | 7.3 | 6360 | 5650 | 33 |
| EP-12 | 11/16/98 | EPRI-9811-104 | GW | 1.70 | 6.88 | 7.5 | 5580 | 5710 | 16 |
| EP-12 | 2/25/99 | EPRI-9902-104 | GW | 2.60 | 7.08 | 7.4 | 4890 | 4980 | 13 |
| EP-12 | 5/14/99 | EPRI-9905-104 | GW | 1.30 | 6.86 | 7.7 | 6020 | J3 5910 | 10 |
| EP-12 | 5/14/99 | EPRI-9905-193 | GW | 2.10 | 7 | 7.7 | 5900 | J3 5950 | 14 |
| EP-12 | 08/11/99 | EPRI-9908-104 | GW | 0.1 | 7.31 | 7.6 | 6110 | 6070 | 12 |
| EP-12 | 10/29/99 | EPRI-9911-104 | GW | 2.5 | 8 | 8.3 | 4400 | 4180 | 0.86 J4 |
| EP-12 | 02/08/00 | EPRI-0002-104 | GW | | | 7.5 | 5520 | | 3.2 J4 |
| EP-12 | 02/08/00 | EPRI-0002-237 | GW | | | 7.6 | 5420 | | 2.1 J4 |
| Average | | | | 1.68 | 7.05 | 7.58 | 5658.3 | 5863.0 | 14.60 |
| Median | | | | 1.625 | 6.94 | 7.55 | 5710.0 | 5810.0 | 13.50 |
| Standard Deviation | | | | 0.76 | 0.37 | 0.27 | 615.5 | 1130.2 | 10.45 |
| Minimum | | | | 0.10 | 6.76 | 7.30 | 4400.0 | 4180.0 | 0.86 |
| Maximum | | | | 2.60 | 8.00 | 8.30 | 6580.0 | 7870.0 | 33.00 |
| EP-13 | 08/07/97 | EPRI-9708-105 | GW | 5.56 | 7.35 | 7.70 | 12500 | 12410 | 104 |
| EP-13 | 11/06/97 | EPRI-9711-105 | GW | 4.01 | 7.11 | 7.80 | 12210 | 14320 | 105 |
| EP-13 | 02/17/98 | EPRI-9802-105 | GW | 0.182 | 6.95 | 7.70 | 11910 | 14100 | 103 |
| EP-13 | 05/07/98 | EPRI-9805-105 | GW | 2.79 | 6.96 | 7.70 | 11440 | 10900 | 82 |
| EP-13 | 8/6/98 | EPRI-9808-105 | GW | 2.80 | 6.98 | 7.70 | 11220 | 11320 | 83 |
| EP-13 | 11/4/98 | EPRI-9811-105 | GW | 7.2 | 7.12 | 7.40 | 11420 | 12670 | 73 |
| EP-13 | 2/8/99 | EPRI-9902-105 | GW | 5.60 | 7.16 | 7.60 | 11200 | 11070 | 82 |
| EP-13 | 5/6/99 | EPRI-9905-105 | GW | 5.90 | 7.08 | 7.70 | 10640 | 11480 | 119 |
| EP-13 | 08/03/99 | EPRI-9908-105 | GW | 2.6 | 7.19 | 7.50 | 11200 | 11300 | 96 |
| EP-13 | 10/28/99 | EPRI-9911-105 | GW | 3.7 | 7.03 | 8.00 | 8960 | 8160 | 81 |
| EP-13 | 01/25/00 | EPRI-0002-105 | GW | 4.7 | 7.27 | 7.80 | 10170 | 9840 | 96 |
| Average | | | | 4.09 | 7.11 | 7.69 | 11170 | 11597 | 93 |
| Median | | | | 4.01 | 7.11 | 7.70 | 11220 | 11320 | 96 |
| Standard Deviation | | | | 1.97 | 0.13 | 0.16 | 985 | 1770 | 14 |
| Minimum | | | | 0.18 | 6.95 | 7.40 | 8960 | 8160 | 73 |
| Maximum | | | | 7.20 | 7.35 | 8.00 | 12500 | 14320 | 119 |
| EP-14 | 11/05/97 | EPRI-9711-106 | GW | 0.4 | 6.91 | 7.50 | 4430 | 5020 | 19 |
| EP-14 | 02/17/98 | EPRI-9802-106 | GW | 0.35 | 6.76 | 7.50 | 4520 | 6090 | 17 |
| EP-14 | 05/07/98 | EPRI-9805-106 | GW | 1.60 | 6.86 | 7.40 | 4660 | 5500 | 13 |
| EP-14 | 8/6/98 | EPRI-9808-106 | GW | 0.500 | 6.9 | 7.7 | 3590 | 3890 | 4.3 |
| EP-14 | 11/4/98 | EPRI-9811-106 | GW | 1.00 | 6.92 | 7.2 | 4230 | 4600 | 10 |
| EP-14 | 2/8/99 | EPRI-9902-106 | GW | 0.700 | 6.95 | 7.6 | 5070 | 4950 | 18 |
| EP-14 | 5/6/99 | EPRI-9905-106 | GW | 6.00 | 6.85 | 7.4 | 4900 | 5240 | 29 |
| EP-14 | 08/03/99 | EPRI-9908-106 | GW | 0.4 | 7.11 | 7.5 | 4300 | 4340 | 31 |
| EP-14 | 10/28/99 | EPRI-9911-106 | GW | 0.2 | 6.87 | 8.1 | 4750 | 5400 | 39 |
| EP-14 | 01/25/00 | EPRI-0002-106 | GW | 0.1 | 6.92 | 7.5 | 5130 | 4970 | 23 J4 |
| Average | | | | 1.13 | 6.91 | 7.54 | 4558 | 5000 | 20 |
| Median | | | | 0.45 | 6.91 | 7.5 | 4590 | 4995 | 19 |
| Standard Deviation | | | | 1.77 | 0.09 | 0.24 | 457 | 622 | 10 |
| Minimum | | | | 0.10 | 6.76 | 7.20 | 3590 | 3890 | 4 |
| Maximum | | | | 6.00 | 7.11 | 8.10 | 5130 | 6090 | 39 |
| EP-15 | 08/07/97 | EPRI-9708-107 | GW | 2.84 | 7.20 | 7.80 | 3150 | 2830 | 23 |
| EP-15 | 11/06/97 | EPRI-9711-107 | GW | 2.37 | 7.30 | 7.90 | 3060 | 3180 | 12 |
| EP-15 | 02/17/98 | EPRI-9802-107 | GW | 2.45 | 7.12 | 7.70 | 3100 | 3980 | 17 |
| EP-15 | 05/07/98 | EPRI-9805-107 | GW | 2.47 | 7.35 | 7.80 | 2960 | 3320 | 18 |
| EP-15 | 8/10/98 | EPRI-9808-107 | GW | 1.77 | 7.34 | 7.9 | 2810 | 2750 | 13 |
| EP-15 | 11/5/98 | EPRI-9811-107 | GW | 1.5 | 7.21 | 7.6 | 3090 | 3040 | 18 |
| EP-15 | 2/8/99 | EPRI-9902-107 | GW | 2.50 | 7.27 | 7.8 | 3620 | 3560 | 18 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-15 | 2/8/99 | EPRI-9902-181 | GW | 2.50 | 7.27 | 8.0 | 3600 | 3560 | 17 |
| EP-15 | 5/5/99 | EPRI-9905-107 | GW | 7.30 | 7.12 | 7.7 | 4170 | 8580 | R 21 |
| EP-15 | 08/03/99 | EPRI-9908-107 | GW | 2 | 7.19 | 7.5 | 4460 | 4500 | 32 |
| EP-15 | 08/03/99 | EPRI-9908-194 | GW | 2 | 7.19 | 7.6 | 4460 | 4520 | 30 |
| EP-15 | 10/28/99 | EPRI-9911-107 | GW | 1.3 | 6.85 | 8.1 | 4400 | 3960 | 20 |
| EP-15 | 01/24/00 | EPRI-0002-107 | GW | 1.6 | 7.14 | 7.8 | 4560 | 4470 | 26 |
| Average | | | | 2.51 | 7.20 | 7.78 | 3649 | 4019 | 20 |
| Median | | | | 2.37 | 7.2 | 7.8 | 3600 | 3560 | 18 |
| Standard Deviation | | | | 1.51 | 0.13 | 0.17 | 669 | 1502 | 6 |
| Minimum | | | | 1.30 | 6.85 | 7.50 | 2810 | 2750 | 12 |
| Maximum | | | | 7.30 | 7.35 | 8.10 | 4560 | 8580 | 32 |
| EP-20 | 08/07/97 | EPRI-9708-108 | GW | 1.98 | 6.72 | 7.40 | 11160 | 11270 | 235 |
| EP-20 | 11/03/97 | EPRI-9711-108 | GW | 2.56 | 7.05 | 7.30 | 10760 | 12760 | 107 |
| EP-20 | 02/03/98 | EPRI-9802-108 | GW | 2.36 | 7.06 | 7.40 | 10800 | 13110 | 201 |
| EP-20 | 05/06/98 | EPRI-9805-108 | GW | 3.49 | 7.22 | 7.50 | 10510 | 10580 | 183 |
| EP-20 | 8/6/98 | EPRI-9808-108 | GW | 2.39 | 6.88 | 7.6 | 10210 | 10440 | 163 |
| EP-20 | 11/4/98 | EPRI-9811-108 | GW | 1.60 | 6.92 | 7.1 | 10370 | 10130 | 148 |
| EP-20 | 2/4/99 | EPRI-9902-108 | GW | 2.40 | 6.96 | 7.4 | 9910 | 10010 | 107 |
| EP-20 | 5/4/99 | EPRI-9905-108 | GW | 2.3 | 6.95 | 7.4 | 10320 | 10220 | 172 |
| EP-20 | 08/02/99 | EPRI-9908-108 | GW | 1.6 | 6.89 | 7.2 | 9930 | 10090 | 143 |
| EP-20 | 10/26/99 | EPRI-9911-108 | GW | 2.2 | 6.73 | 7.2 | 9800 | 9770 | 143 |
| EP-20 | 01/31/00 | EPRI-0002-108 | GW | 2.1 | 6.86 | 7.5 | 9530 | 9120 | 84 |
| EP-20 | 01/31/00 | EPRI-0002-232 | GW | 1.1 | 6.8 | 7.5 | 9500 | 9050 | 84 |
| Average | | | | 2.17 | 6.92 | 7.38 | 10233 | 10546 | 148 |
| Median | | | | 2.25 | 6.905 | 7.4 | 10265 | 10175 | 146 |
| Standard Deviation | | | | 0.59 | 0.14 | 0.15 | 520 | 1267 | 47 |
| Minimum | | | | 1.10 | 6.72 | 7.10 | 9500 | 9050 | 84 |
| Maximum | | | | 3.49 | 7.22 | 7.60 | 11160 | 13110 | 235 |
| EP-21 | 11/18/97 | EPRI-9711-109 | GW | | | 7.80 | 6260 | | 0.05 U |
| EP-21 | 02/18/98 | EPRI-9802-109 | GW | 0.65 | 7.30 | 8.00 | 5980 | 8000 | 0.05 U |
| EP-21 | 05/21/98 | EPRI-9805-109 | GW | 0.41 | 7.26 | 7.80 | 5740 | 1096 | R 0.1 U |
| EP-21 | 8/24/98 | EPRI-9808-109 | GW | 0.310 | 7.41 | 8.0 | 5680 | 5670 | 0.050 U |
| EP-21 | 11/16/98 | EPRI-9811-109 | GW | 0.200 | 7.57 | 8.0 | 5690 | 5630 | 0.050 U |
| EP-21 | 2/24/99 | EPRI-9902-109 | GW | 0.400 | 7.56 | 8.1 | 5670 | 5740 | 0.27 |
| EP-21 | 08/10/99 | EPRI-9908-109 | GW | 0.8 | 7.66 | 8 | 5140 | 5160 | 0.05 J4 |
| EP-21 | 11/03/99 | EPRI-9911-109 | GW | 1.3 | 7.28 | 7.9 | 5240 | 5760 | 0.12 |
| EP-21 | 02/01/00 | EPRI-0002-109 | GW | 0.7 | 7.54 | 8.1 | 4880 | 1101 | R 1.2 J3 |
| Average | | | | 0.60 | 7.45 | 7.97 | 5587 | 4770 | 0.22 |
| Median | | | | 0.53 | 7.475 | 8 | 5680 | 5650 | 0.05 |
| Standard Deviation | | | | 0.35 | 0.15 | 0.11 | 430 | 2421 | 0.38 |
| Minimum | | | | 0.20 | 7.26 | 7.80 | 4880 | 1096 | 0.05 |
| Maximum | | | | 1.30 | 7.66 | 8.10 | 6260 | 8000 | 1.20 |
| EP-22 | 08/15/97 | EPRI-9708-110 | GW | 2.92 | 7.46 | 7.90 | 8540 | 8510 | 100 |
| EP-22 | 11/18/97 | EPRI-9711-110 | GW | 1.01 | 7.16 | 7.40 | 9980 | 12900 | 158 |
| EP-22 | 02/18/98 | EPRI-9802-110 | GW | 3.75 | 7.49 | 7.60 | 9900 | 11910 | 294 |
| EP-22 | 06/10/98 | EPRI-9806-201 | GW | 2.26 | 7.63 | 7.70 | 9520 | 9560 | 210 |
| EP-22 | 8/24/98 | EPRI-9808-110 | GW | 0.170 | 7.36 | 7.8 | 6840 | 6850 | 29 |
| EP-22 | 11/16/98 | EPRI-9811-110 | GW | 0.900 | 7.51 | 8.0 | 7480 | 7480 | 13 |
| EP-22 | 01/26/00 | EPRI-0002-110 | GW | 2.8 | 7.19 | 7.9 | 7500 | 6930 | 11 J3 |
| Average | | | | 1.97 | 7.40 | 7.76 | 8537 | 9163 | 116 |
| Median | | | | 2.26 | 7.46 | 7.8 | 8540 | 8510 | 100 |
| Standard Deviation | | | | 1.30 | 0.17 | 0.21 | 1290 | 2424 | 109 |
| Minimum | | | | 0.17 | 7.16 | 7.40 | 6840 | 6850 | 11 |
| Maximum | | | | 3.75 | 7.63 | 8.00 | 9980 | 12900 | 294 |
| EP-23 | 08/11/97 | EPRI-9708-111 | GW | 1.17 | 7.36 | 7.50 | 6790 | 6640 | 0.3 |
| EP-23 | 11/04/97 | EPRI-9711-111 | GW | 0.73 | 7.51 | 7.70 | 6130 | 6810 | 0.16 |
| EP-23 | 02/04/98 | EPRI-9802-111 | GW | 1.45 | 7.42 | 7.70 | 6190 | 7190 | 0.14 |
| EP-23 | 05/11/98 | EPRI-9805-111 | GW | 0.88 | 7.13 | 7.60 | 5500 | 5790 | 0.05 U |
| EP-23 | 8/12/98 | EPRI-9808-111 | GW | 0.990 | 7.47 | 7.7 | 5620 | 5010 | 0.058 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|----------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-23 | 11/5/98 | EPRI-9811-111 | GW | 0.600 | 7.50 | 7.5 | 5790 | 4650 | 0.050 |
| EP-23 | 2/11/99 | EPRI-9902-111 | GW | | | 7.8 | 5470 | | 0.050 |
| EP-23 | 5/7/99 | EPRI-9905-111 | GW | 0.9 | 7.41 | 7.8 | 4310 | | 0.14 |
| EP-23 | 5/14/99 | EPRI-9905-111A | GW | 1.90 | 7.29 | 7.8 | 4190 | J3 4200 | J4 |
| EP-23 | 08/04/99 | EPRI-9908-111 | GW | | 7.49 | 7.8 | 3750 | | 0.10 |
| EP-23 | 10/30/99 | EPRI-9911-111 | GW | | 7.35 | 7.9 | 3340 | | 0.32 |
| EP-23 | 02/01/00 | EPRI-0002-111 | GW | 1 | 7.49 | 7.8 | 4770 | 951 R | UJ1 0.19 |
| Average | | | | 1.06 | 7.41 | 7.74 | 5005 | 4618 | 0.12 |
| Median | | | | 0.95 | 7.445 | 7.8 | 5470 | 4535 | 0.10 |
| Standard Deviation | | | | 0.42 | 0.12 | 0.11 | 984 | 1792 | 0.08 |
| Minimum | | | | 0.60 | 7.13 | 7.50 | 3340 | 951 | 0.05 |
| Maximum | | | | 1.90 | 7.51 | 7.90 | 6190 | 7190 | 0.32 |
| EP-24 | 08/15/97 | EPRI-9708-112 | GW | 1.13 | 6.70 | 8.00 | 5150 | 4660 | 0.05 |
| EP-24 | 11/18/97 | EPRI-9711-112 | GW | 0 | 0.00 | 7.70 | 5940 | 0 | U 0.05 |
| EP-24 | 02/18/98 | EPRI-9802-112 | GW | 1.26 | 6.74 | 8.10 | 5130 | 5820 | U 0.05 |
| EP-24 | 05/21/98 | EPRI-9805-112 | GW | 0.80 | 6.95 | 7.50 | 5380 | 999 R | U 0.1 |
| EP-24 | 8/24/98 | EPRI-9808-112 | GW | 0.501 | 6.79 | 7.3 | 5200 | 5000 | U 0.050 |
| EP-24 | 11/16/98 | EPRI-9811-112 | GW | 0.600 | 6.93 | 7.7 | 5390 | 5220 | U 0.050 |
| EP-24 | 2/11/99 | EPRI-9902-112 | GW | | | 7.8 | 5800 | | 0.20 |
| EP-24 | 5/14/99 | EPRI-9905-112 | GW | | | 7.4 | 6410 J3 | | U 0.10 |
| EP-24 | 08/10/99 | EPRI-9908-112 | GW | 0.6 | 7.05 | 7.8 | 5680 | 5640 | J4 0.08 |
| EP-24 | 11/03/99 | EPRI-9911-112 | GW | 1 | 6.96 | 7.7 | 5200 | 5990 | 0.13 |
| EP-24 | 02/01/00 | EPRI-0002-112 | GW | 0.3 | 6.93 | 7.5 | 5120 | 1072 R | UJ1 0.16 |
| Average | | | | 0.69 | 6.12 | 7.68 | 5491 | 3822 | 0.09 |
| Median | | | | 0.60 | 6.93 | 7.7 | 5380 | 5000 | 0.08 |
| Standard Deviation | | | | 0.40 | 2.30 | 0.24 | 419 | 2403 | 0.05 |
| Minimum | | | | 0.00 | 0.00 | 7.30 | 5120 | 0 | 0.05 |
| Maximum | | | | 1.26 | 7.05 | 8.10 | 6410 | 5990 | 0.20 |
| EP-25 | 08/15/97 | EPRI-9708-113 | GW | 1.32 | 7.13 | 7.40 | 5990 | 5730 | 0.94 |
| EP-25 | 11/19/97 | EPRI-9711-113 | GW | | | 7.80 | 5470 | | U 0.05 |
| EP-25 | 02/18/98 | EPRI-9802-113 | GW | | | 7.60 | 5420 | | U 0.05 |
| EP-25 | 05/21/98 | EPRI-9805-113 | GW | | | 7.50 | 5760 | | U 0.1 |
| EP-25 | 8/24/98 | EPRI-9808-113 | GW | | | 7.2 | 5420 | | U 0.050 |
| EP-25 | 11/16/98 | EPRI-9811-113 | GW | | | 7.5 | 5470 | | 0.055 |
| EP-25 | 5/14/99 | EPRI-9905-113 | GW | | | 7.0 | 7880 J3 | | 0.67 |
| EP-25 | 08/11/99 | EPRI-9908-113 | GW | | | 7.1 | 7210 | | 1 |
| EP-25 | 11/03/99 | EPRI-9911-113 | GW | 3.3 | 6.87 | 7.3 | 6580 | 5750 | 0.12 |
| EP-25 | 11/03/99 | EPRI-9911-238 | GW | 3.3 | 6.82 | 7.5 | 5640 | 5970 | 0.12 |
| EP-25 | 02/08/00 | EPRI-0002-113 | GW | | | 7.6 | 5200 | | UJ1 J4 0.36 |
| Average | | | | 2.64 | 6.94 | 7.41 | 6004 | 5817 | 0.32 |
| Median | | | | 3.30 | 6.87 | 7.5 | 5640 | 5750 | 0.12 |
| Standard Deviation | | | | | | 0.24 | 860 | | 0.37 |
| Minimum | | | | 1.32 | 6.82 | 7.00 | 5200 | 5730 | 0.05 |
| Maximum | | | | 3.30 | 7.13 | 7.80 | 7880 | 5970 | 1.00 |
| EP-26 | 08/11/97 | EPRI-9708-114 | GW | 5.26 | 7.69 | 7.20 | 544 | 568 | 2.3 |
| EP-26 | 11/04/97 | EPRI-9711-114 | GW | 5.05 | 7.15 | 7.30 | 1700 | 1900 | 3.9 |
| EP-26 | 02/04/98 | EPRI-9802-114 | GW | 5.74 | 7.58 | 7.40 | 202 | 239 | 1.4 |
| EP-26 | 05/07/98 | EPRI-9805-114 | GW | 6.30 | 7.64 | 7.00 | 141 | 170 | 1.8 |
| EP-26 | 8/12/98 | EPRI-9808-114 | GW | 5.59 | 7.21 | 7.4 | 188 | 190 | 2.1 |
| EP-26 | 11/4/98 | EPRI-9811-114 | GW | 5.70 | 7.99 | 6.4 | 412 | 448 | 3.8 |
| EP-26 | 2/4/99 | EPRI-9902-114 | GW | 6.90 | 7.26 | 7.4 | 133 | 170 | 1.4 |
| EP-26 | 5/5/99 | EPRI-9905-114 | GW | 2.10 | 7.02 | 7.3 | 362 | 4440 R | 3.0 |
| EP-26 | 08/04/99 | EPRI-9908-114 | GW | | 7.07 | 7.4 | 2000 | 2200 | 14 |
| EP-26 | 01/26/00 | EPRI-0002-114 | GW | 0.5 | 7.16 | 7.9 | 4440 | 4210 | 4.9 J3 |
| Average | | | | 4.79 | 7.38 | 7.27 | 1012 | 1454 | 4 |
| Median | | | | 5.59 | 7.235 | 7.35 | 387 | 508 | 3 |
| Standard Deviation | | | | 2.09 | 0.32 | 0.38 | 1377 | 1681 | 4 |
| Minimum | | | | 0.50 | 7.02 | 6.40 | 133 | 170 | 1 |
| Maximum | | | | 6.90 | 7.99 | 7.90 | 4440 | 4440 | 14 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-29 | 08/07/97 | EPRI-9708-115 | GW | 2.77 | 7.41 | 8.00 | 3090 | 3110 | 7.6 |
| EP-29 | 11/03/97 | EPRI-9711-115 | GW | 0.52 | 7.09 | 7.90 | 2960 | 3610 | 6.3 |
| EP-29 | 02/03/98 | EPRI-9802-115 | GW | 0.68 | 7.47 | 8.00 | 3100 | 3890 | 8.1 |
| EP-29 | 05/06/98 | EPRI-9805-115 | GW | 4.14 | 7.59 | 8.00 | 3180 | 3470 | 7.5 |
| EP-29 | 8/6/98 | EPRI-9808-115 | GW | 5.67 | 8.68 | 8.7 | 3070 | 3140 | 14 |
| EP-29 | 11/4/98 | EPRI-9811-115 | GW | 5.20 | 8.42 | 8.5 | 3350 | 3150 | 8.9 |
| EP-29 | 2/3/99 | EPRI-9902-115 | GW | 4.10 | 8.06 | 8.1 | 3130 | 3410 | 8.7 |
| EP-29 | 5/4/99 | EPRI-9905-115 | GW | 2.30 | 7.68 | 8.2 | 3160 | 3120 | 4.4 |
| EP-29 | 5/4/99 | EPRI-9905-177 | GW | 2.30 | 7.69 | 8.1 | 3140 | 3130 | 4.5 |
| EP-29 | 08/02/99 | EPRI-9908-115 | GW | 3.5 | 7.59 | 7.8 | 3180 | 3220 | 3.3 |
| EP-29 | 10/26/99 | EPRI-9911-115 | GW | 2.4 | 7.42 | 8.2 | 3160 | 3130 | 3.8 |
| EP-29 | 01/31/00 | EPRI-0002-115 | GW | 1.6 | 7.62 | 8.1 | 3190 | 3040 | 4.3 |
| | | | | | | | | | UJ1 |
| Average | | | | 2.93 | 7.73 | 8.13 | 3143 | 3285 | 7 |
| Median | | | | 2.59 | 7.605 | 8.1 | 3150 | 3145 | 7 |
| Standard Deviation | | | | 1.64 | 0.45 | 0.25 | 91 | 258 | 3 |
| Minimum | | | | 0.52 | 7.09 | 7.80 | 2960 | 3040 | 3 |
| Maximum | | | | 5.67 | 8.68 | 8.70 | 3350 | 3890 | 14 |
| | | | | | | | | | |
| EP-35 | 08/07/97 | EPRI-9708-116 | GW | 5.98 | 7.55 | 8.00 | 6530 | 6150 | 67 |
| EP-35 | 11/03/97 | EPRI-9711-116 | GW | 1.75 | 6.92 | 7.50 | 6340 | 7420 | 86 |
| EP-35 | 02/03/98 | EPRI-9802-116 | GW | 2.11 | 6.99 | 7.60 | 6760 | 7940 | 82 |
| EP-35 | 05/06/98 | EPRI-9805-116 | GW | 2.47 | 7.15 | 7.20 | 6530 | 6950 | 69 |
| EP-35 | 8/6/98 | EPRI-9808-116 | GW | 1.89 | 6.91 | 7.6 | 6300 | 5300 | 79 |
| EP-35 | 11/4/98 | EPRI-9811-116 | GW | 1.90 | 7.11 | 7.2 | 6220 | 6100 | 58 |
| EP-35 | 2/4/99 | EPRI-9902-116 | GW | 3.80 | 7.03 | 7.4 | 6410 | 6140 | 66 |
| EP-35 | 5/4/99 | EPRI-9905-116 | GW | 1.90 | 6.98 | 7.4 | 6810 | 6730 | 82 |
| EP-35 | 08/02/99 | EPRI-9908-116 | GW | 2.9 | 6.92 | 7.1 | 6920 | 7000 | 88 |
| EP-35 | 10/26/99 | EPRI-9911-116 | GW | 1.7 | 6.71 | 7.8 | 6770 | 6740 | 67 |
| EP-35 | 01/31/00 | EPRI-0002-116 | GW | 1.7 | 6.91 | 7.7 | 6660 | 6350 | 39 |
| | | | | | | | | | |
| Average | | | | 2.55 | 7.02 | 7.50 | 6568 | 6620 | 71 |
| Median | | | | 1.90 | 6.98 | 7.5 | 6530 | 6730 | 69 |
| Standard Deviation | | | | 1.30 | 0.21 | 0.28 | 233 | 721 | 14 |
| Minimum | | | | 1.70 | 6.71 | 7.10 | 6220 | 5300 | 39 |
| Maximum | | | | 5.98 | 7.55 | 8.00 | 6920 | 7940 | 88 |
| | | | | | | | | | |
| EP-43 | 11/03/97 | EPRI-9711-172 | GW | 0.52 | 7.31 | 7.60 | 4950 | 5830 | 0.05 |
| EP-43 | 02/03/98 | EPRI-9802-175 | GW | 0.03 | 7.09 | 7.50 | 9590 | 11980 | 0.05 |
| EP-43 | 05/20/98 | EPRI-9805-175 | GW | 1.50 | 7.07 | 7.50 | 4930 | 4480 | 8 |
| EP-43 | 8/27/98 | EPRI-9808-175 | GW | 1.01 | 6.94 | 7.3 | 4720 | 4780 | 13 |
| EP-43 | 11/16/98 | EPRI-9811-175 | GW | | 7.2 | | 5650 | | 0.14 |
| EP-43 | 2/25/99 | EPRI-9902-176 | GW | | 7.8 | | 7140 | | 3.6 |
| EP-43 | 2/25/99 | EPRI-9902-196 | GW | | 7.7 | | 7090 | | 3.6 |
| EP-43 | 5/14/99 | EPRI-9905-117 | GW | | 7.4 | | 8600 | J3 | 2.9 |
| EP-43 | 08/11/99 | EPRI-9908-117 | GW | 2 | 7.57 | 7.5 | 8070 | 6880 | 6.2 |
| EP-43 | 08/11/99 | EPRI-9908-206 | GW | 1.3 | 7.61 | 7.5 | 8060 | 6890 | 6.9 |
| EP-43 | 10/29/99 | EPRI-9911-117 | GW | 7.7 | 7.72 | 7.8 | 8130 | 7320 | 0.18 |
| EP-43 | 02/08/00 | EPRI-0002-117 | GW | | 7.3 | | 3900 | | UJ1,J4 |
| | | | | | | | | | 0.61 |
| Average | | | | 2.01 | 7.33 | 7.51 | 6736 | 6880 | 4 |
| Median | | | | 1.30 | 7.31 | 7.5 | 7115 | 6880 | 3 |
| Standard Deviation | | | | 2.59 | 0.31 | 0.19 | 1837 | 2499 | 4 |
| Minimum | | | | 0.03 | 6.94 | 7.20 | 3900 | 4480 | 0 |
| Maximum | | | | 7.70 | 7.72 | 7.80 | 9590 | 11980 | 13 |
| | | | | | | | | | |
| EP-44 | 10/26/99 | EPRI-9911-162 | GW | 1.40 | 7.02 | 8.00 | 5740 | 5710 | 56 |
| | | | | | | | | | |
| EP-49 | 11/19/97 | EPRI-9711-117 | GW | | | 3.50 | 11740 | | 0.2 |
| EP-49 | 02/19/98 | EPRI-9802-117 | GW | | | 4.00 | 11440 | | 0.05 |
| EP-49 | 05/21/98 | EPRI-9805-117 | GW | | | 3.60 | 10920 | | 0.1 |
| EP-49 | 8/27/98 | EPRI-9808-117 | GW | | | 5.30 | 11000 | | 0.25 |
| EP-49 | 11/16/98 | EPRI-9811-117 | GW | | | 3.7 | 10800 | | 0.050 |
| EP-49 | 2/25/99 | EPRI-9902-117 | GW | | | 4.5 | 12320 | | 0.13 |
| EP-49 | 5/14/99 | EPRI-9905-118 | GW | | | 4.2 | 10570 | J3 | 0.72 |
| EP-49 | 11/02/99 | EPRI-9911-118 | GW | | | 5.4 | 10440 | | 0.85 |
| EP-49 | 01/29/00 | EPRI-0002-118 | GW | 0.1 | 6.62 | 7.4 | 9960 | 9530 | 6 |
| | | | | | | | | | J3 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|----------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| Average | | | | | 5.96 | 4.46 | 11021 | | 1 |
| Median | | | | | 5.96 | 4 | 10920 | | 0 |
| Standard Deviation | | | | | | 1.25 | 716 | | 2 |
| Minimum | | | | 0.10 | 5.30 | 3.50 | 9960 | 9530 | 0 |
| Maximum | | | | 0.10 | 6.62 | 7.40 | 12320 | 9530 | 6 |
| EP-51 | 08/11/97 | EPRI-9708-118A | GW | 0.7 | 6.73 | | | 10400 | |
| EP-51 | 08/26/97 | EPRI-9708-118 | GW | 9.4 | 7.25 | 7.30 | 11800 | 10630 | 115 |
| EP-51 | 11/06/97 | EPRI-9711-118 | GW | 2.35 | 6.58 | 7.30 | 11670 | 12140 | 138 |
| EP-51 | 11/06/97 | EPRI-9711-174 | GW | | | 7.20 | 11440 | | 134 |
| EP-51 | 02/12/98 | EPRI-9802-118 | GW | 0.03 | 5.85 | 6.90 | 11070 | 13050 | 133 |
| EP-51 | 05/11/98 | EPRI-9805-118 | GW | 1.42 | 6.29 | 8.20 | 11800 | 9890 | 146 |
| EP-51 | 8/12/98 | EPRI-9808-118 | GW | 3.59 | 6.71 | 7.2 | 10080 | 9720 | 146 |
| EP-51 | 11/5/98 | EPRI-9811-118 | GW | 1.00 | 6.67 | 6.8 | 9840 | 8180 | 136 |
| EP-51 | 11/5/98 | EPRI-9811-178 | GW | | | 6.9 | 9820 | | 134 |
| EP-51 | 2/9/99 | EPRI-9902-118 | GW | 2.10 | 6.86 | 7.4 | 9060 | 8760 | 144 |
| EP-51 | 2/9/99 | EPRI-9902-183 | GW | 2.10 | 6.87 | 7.4 | 9140 | 8780 | 141 |
| EP-51 | 5/6/99 | EPRI-9905-119 | GW | 1.20 | 6.63 | 7.3 | 9870 | 9760 | 158 |
| EP-51 | 08/04/99 | EPRI-9908-119 | GW | | 6.87 | 7.2 | 11040 | 9560 | 192 |
| EP-51 | 08/04/99 | EPRI-9908-196 | GW | | 6.88 | 7.2 | 11020 | 9570 | 227 |
| EP-51 | 11/02/99 | EPRI-9911-119 | GW | 1.6 | 6.71 | 7.3 | 9920 | 9840 | 202 |
| EP-51 | 01/26/00 | EPRI-0002-119 | GW | 6.86 | 6.86 | 7.5 | 9820 | 9000 | 169 |
| Average | | | | | 2.70 | 6.70 | 7.27 | 10493 | 9949 |
| Median | | | | | 1.85 | 6.72 | 7.3 | 10080 | 9740 |
| Standard Deviation | | | | | 2.75 | 0.32 | 0.32 | 953 | 1310 |
| Minimum | | | | | 0.03 | 5.85 | 6.80 | 9060 | 8180 |
| Maximum | | | | | 9.40 | 7.25 | 8.20 | 11800 | 13050 |
| EP-52 | 11/06/97 | EPRI-9711-173 | GW | 6.54 | 6.10 | 7.10 | 9750 | 11000 | 157 |
| EP-52 | 02/12/98 | EPRI-9802-176 | GW | 2 | 6.03 | 6.90 | 10870 | 13320 | 130 |
| EP-52 | 8/12/98 | EPRI-9808-176 | GW | 3.33 | 6.17 | 7.0 | 10580 | 10850 | 113 |
| EP-52 | 8/12/98 | EPRI-9808-182 | GW | | | 7.1 | 10560 | | 116 |
| EP-52 | 11/5/98 | EPRI-9811-176 | GW | 2.30 | 6.28 | 6.6 | 11100 | 9710 | 99 |
| EP-52 | 2/9/99 | EPRI-9902-119 | GW | 4.90 | 6.38 | 7.1 | 11150 | 11040 | 112 |
| EP-52 | 5/6/99 | EPRI-9905-120 | GW | 1.70 | 6.20 | 7.3 | 11250 | 11880 | 144 |
| EP-52 | 08/05/99 | EPRI-9908-120 | GW | 0.7 | 6.21 | 7.2 | 11190 | 12290 | 130 |
| EP-52 | 10/29/99 | EPRI-9911-120 | GW | 1.5 | 6.07 | 7 | 11250 | 9900 | 103 |
| EP-52 | 01/26/00 | EPRI-0002-120 | GW | 0.4 | 6.38 | 8.6 | 11940 | 11220 | 114 |
| Average | | | | | 2.60 | 6.20 | 7.19 | 10964 | 11246 |
| Median | | | | | 2.00 | 6.2 | 7.1 | 11125 | 11040 |
| Standard Deviation | | | | | 2.01 | 0.13 | 0.53 | 579 | 1131 |
| Minimum | | | | | 0.40 | 6.03 | 6.60 | 9750 | 9710 |
| Maximum | | | | | 6.54 | 6.38 | 8.60 | 11940 | 13320 |
| EP-53 | 08/11/97 | EPRI-9708-172 | GW | 7.74 | 6.58 | 7.20 | 7790 | 7300 | 122 |
| EP-53 | 02/04/98 | EPRI-9802-178 | GW | 1.43 | 6.43 | 7.00 | 7590 | 9580 | 97 |
| EP-53 | 06/10/98 | EPRI-9806-200 | GW | 2.17 | 6.68 | 6.90 | 7470 | 7780 | 125 |
| EP-53 | 8/12/98 | EPRI-9808-178 | GW | 0.99 | 6.66 | 7.2 | 7550 | 5010 | 156 |
| EP-53 | 11/5/98 | EPRI-9811-179 | GW | 1.1 | 7.08 | 6.8 | 7980 | 6540 | 183 |
| EP-53 | 2/4/99 | EPRI-9902-120 | GW | 1.80 | 6.44 | 7.1 | 7040 | 7780 | 93 |
| EP-53 | 5/5/99 | EPRI-9905-121 | GW | 1.60 | 6.63 | 7.3 | 7120 | 15650 | R 112 |
| EP-53 | 08/04/99 | EPRI-9908-121 | GW | | 6.85 | 7.1 | 7190 | 7240 | 31 |
| EP-53 | 10/26/99 | EPRI-9911-121 | GW | 1 | 6.38 | 6.8 | 7380 | 7350 | 104 |
| EP-53 | 02/01/00 | EPRI-0002-121 | GW | 2 | 6.75 | 7.6 | 7520 | 1594 | R 113 |
| Average | | | | | 2.20 | 6.65 | 7.10 | 7463 | 7582 |
| Median | | | | | 1.60 | 6.645 | 7.1 | 7495 | 7325 |
| Standard Deviation | | | | | 2.12 | 0.21 | 0.24 | 294 | 3543 |
| Minimum | | | | | 0.99 | 6.38 | 6.80 | 7040 | 1594 |
| Maximum | | | | | 7.74 | 7.08 | 7.60 | 7980 | 15650 |
| EP-54 | 08/11/97 | EPRI-9708-119A | GW | 1.64 | 6.06 | | | 10470 | |
| EP-54 | 08/26/97 | EPRI-9708-119 | GW | | 6.60 | 6.90 | 11340 | 1980 | R 0.24 |
| EP-54 | 11/06/97 | EPRI-9711-119 | GW | 2.51 | 6.14 | 6.80 | 10750 | 12010 | 0.3 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|----------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-54 | 02/12/98 | EPRI-9802-119 | GW | 1.94 | 5.98 | 7.40 | 10100 | 11060 | 3.1 |
| EP-54 | 05/11/98 | EPRI-9805-119 | GW | 1.93 | 6.20 | 7.10 | 9780 | 11910 | 2.8 |
| EP-54 | 8/12/98 | EPRI-9808-119 | GW | 3.35 | 6.31 | 7.2 | 10200 | 11320 | 1.5 |
| EP-54 | 11/5/98 | EPRI-9811-119 | GW | 5.80 | 6.48 | 6.7 | 10680 | 9280 | 8.1 |
| EP-54 | 2/9/99 | EPRI-9902-121 | GW | 5.70 | 6.60 | 7.4 | 10500 | 10150 | 7.6 |
| EP-54 | 5/6/99 | EPRI-9905-122 | GW | 5.90 | 6.35 | 7.1 | 9540 | 11490 | 6.6 |
| EP-54 | 5/7/99 | EPRI-9905-122A | GW | 2.60 | 6.43 | 7.7 | 8980 | 9300 | 3.6 |
| EP-54 | 08/04/99 | EPRI-9908-122 | GW | | 6.37 | 7 | 11000 | 11260 | 8.6 |
| EP-54 | 10/29/99 | EPRI-9911-122 | GW | 7.4 | 6.57 | 7.4 | 10500 | 8290 | 5.3 |
| EP-54 | 01/26/00 | EPRI-0002-122 | GW | 7.9 | 6.51 | 7 | 7940 | 9910 | 10 |
| Average | | | | | 4.24 | 6.35 | 7.14 | 10109 | 9879 |
| Median | | | | | 3.35 | 6.37 | 7.1 | 10350 | 10470 |
| Standard Deviation | | | | | 2.34 | 0.21 | 0.29 | 943 | 2625 |
| Minimum | | | | | 1.64 | 5.98 | 6.70 | 7940 | 1980 |
| Maximum | | | | | 7.90 | 6.60 | 7.70 | 11340 | 12010 |
| EP-55 | 08/15/97 | EPRI-9708-120 | GW | 1.85 | 6.17 | 7.00 | 10550 | 10700 | 0.05 |
| EP-55 | 11/19/97 | EPRI-9711-120 | GW | 2.12 | 6.25 | 6.90 | 10480 | 12860 | 0.05 |
| EP-55 | 02/12/98 | EPRI-9802-120 | GW | 1.21 | 5.95 | 6.90 | 10510 | 14030 | 0.05 |
| EP-55 | 05/20/98 | EPRI-9805-120 | GW | 1.93 | 6.06 | 6.70 | 10280 | 10320 | 0.1 |
| EP-55 | 8/27/98 | EPRI-9808-120 | GW | 0.940 | 6.15 | 6.4 | 9980 | 10020 | 0.050 |
| EP-55 | 11/16/98 | EPRI-9811-120 | GW | 1.70 | 6.24 | 6.5 | 9940 | 9850 | 0.050 |
| EP-55 | 2/11/99 | EPRI-9902-122 | GW | 0.900 | 6.31 | 6.7 | 10240 | 10350 | 0.092 |
| EP-55 | 5/14/99 | EPRI-9905-123 | GW | 1.00 | 6.25 | 7.1 | 10510 | J3 10850 | 0.13 |
| EP-55 | 08/10/99 | EPRI-9908-123 | GW | 0.5 | 6.33 | 6.9 | 10470 | 10550 | 0.09 |
| EP-55 | 10/29/99 | EPRI-9911-123 | GW | 1.6 | 6.2 | 8.1 | 10240 | 10290 | 0.23 |
| EP-55 | 02/07/00 | EPRI-0002-123 | GW | 1.3 | 6.38 | 6.9 | 10000 | 9420 | 1.3 |
| Average | | | | | 1.37 | 6.21 | 6.92 | 10291 | 10840 |
| Median | | | | | 1.30 | 6.24 | 6.9 | 10280 | 10350 |
| Standard Deviation | | | | | 0.51 | 0.12 | 0.44 | 233 | 1373 |
| Minimum | | | | | 0.50 | 5.95 | 6.40 | 9940 | 9420 |
| Maximum | | | | | 2.12 | 6.38 | 8.10 | 10550 | 14030 |
| EP-56 | 08/11/97 | EPRI-9708-121A | GW | 2.51 | 7.34 | | | 5470 | . |
| EP-56 | 08/26/97 | EPRI-9708-121 | GW | | 7.25 | 7.60 | 5600 | 1063 | R 0.77 |
| EP-56 | 11/04/97 | EPRI-9711-121 | GW | 0.77 | 7.12 | 7.60 | 5520 | 5930 | 2 |
| EP-56 | 02/04/98 | EPRI-9802-121 | GW | 1.81 | 7.14 | 7.80 | 5520 | 6620 | 2.5 |
| EP-56 | 05/07/98 | EPRI-9805-121 | GW | 1.08 | 7.03 | 7.60 | 5500 | 7170 | 3.2 |
| EP-56 | 8/12/98 | EPRI-9808-121 | GW | 0.980 | 7.15 | 7.6 | 5520 | 5600 | 1.5 |
| EP-56 | 11/4/98 | EPRI-9811-121 | GW | 1.20 | 6.38 | 7.3 | 5600 | 7230 | 0.42 |
| EP-56 | 2/4/99 | EPRI-9902-123 | GW | 1.00 | 7.23 | 7.6 | 5600 | 6130 | 0.38 |
| EP-56 | 2/4/99 | EPRI-9902-179 | GW | 1.00 | 7.24 | 8.2 | 5640 | 6140 | 0.39 |
| EP-56 | 5/4/99 | EPRI-9905-124 | GW | 1.90 | 7.13 | 7.6 | 5580 | 5850 | 0.1 |
| EP-56 | 08/04/99 | EPRI-9908-124 | GW | | 7.17 | 7.5 | 5390 | 5460 | 0.91 |
| EP-56 | 10/26/99 | EPRI-9911-124 | GW | 1.9 | 7.04 | 8.1 | 5290 | 5320 | 0.63 |
| EP-56 | 10/26/99 | EPRI-9911-220 | GW | | | 8.2 | 5300 | | 0.63 |
| EP-56 | 2/1/00 | EPRI-0002-124 | GW | 1.00 | 7.03 | 7.8 | 5120 | 4810 | 0.45 |
| EP-56 | 2/1/00 | EPRI-0002-233 | GW | 0.70 | 7.1 | 7.8 | 5080 | 4850 | 0.45 |
| Median | | | | | 1.08 | 7.14 | 7.6 | 5520 | 5850 |
| Standard Deviation | | | | | 0.56 | 0.23 | 0.28 | 155 | 1534 |
| Minimum | | | | | 0.77 | 6.38 | 7.30 | 5120 | 1063 |
| Maximum | | | | | 2.51 | 7.34 | 8.20 | 5640 | 7230 |
| EP-57 | 08/16/97 | EPRI-9708-122 | GW | 1 | 7.30 | 7.90 | 3330 | 3370 | 3.8 |
| EP-57 | 11/14/97 | EPRI-9711-122 | GW | 1.72 | 7.01 | 7.40 | 3070 | 3500 | 1.5 |
| EP-57 | 02/18/98 | EPRI-9802-122 | GW | 0.78 | 7.01 | 7.50 | 2900 | 3530 | 0.2 |
| EP-57 | 05/18/98 | EPRI-9805-122 | GW | 1.01 | 7.18 | 7.50 | 2610 | 2440 | 0.16 |
| EP-57 | 8/24/98 | EPRI-9808-122 | GW | 0.230 | 7.01 | 7.7 | 3250 | 2840 | 1.8 |
| EP-57 | 11/16/98 | EPRI-9811-122 | GW | 0.300 | 7.07 | 7.6 | 2070 | 1913 | 0.054 |
| EP-57 | 2/24/99 | EPRI-9902-124 | GW | 0.200 | 7.15 | 7.7 | 3020 | 3460 | 0.80 |
| EP-57 | 5/13/99 | EPRI-9905-125 | GW | 0.600 | 7.11 | 7.8 | 2340 | 2120 | 0.45 |
| EP-57 | 08/10/99 | EPRI-9908-125 | GW | 0.3 | 7.07 | 7.6 | 2670 | 2560 | 0.14 |
| EP-57 | 11/03/99 | EPRI-9911-125 | GW | 1.3 | 6.87 | 7.5 | 3230 | 3210 | 0.11 |
| EP-57 | 02/07/00 | EPRI-0002-125 | GW | 0.04 | 7.01 | 7.7 | 3080 | 2700 | 1.2 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| Average | | | | 0.68 | 7.07 | 7.63 | 2870 | 2877 | 1 |
| Median | | | | 0.60 | 7.07 | 7.6 | 3020 | 2840 | 0 |
| Standard Deviation | | | | 0.53 | 0.11 | 0.15 | 403 | 577 | 1 |
| Minimum | | | | 0.04 | 6.87 | 7.40 | 2070 | 1913 | 0 |
| Maximum | | | | 1.72 | 7.30 | 7.90 | 3330 | 3530 | 4 |
| EP-58 | 08/16/97 | EPRI-9708-123 | GW | 0.24 | 6.54 | 6.90 | 11230 | 11340 | 0.05 U |
| EP-58 | 11/14/97 | EPRI-9711-123 | GW | 0.84 | 6.54 | 6.90 | 11480 | 14130 | 0.05 U |
| EP-58 | 02/18/98 | EPRI-9802-123 | GW | 0.79 | 6.38 | 6.80 | 11510 | 13740 | 0.05 U |
| EP-58 | 05/18/98 | EPRI-9805-123 | GW | 0.43 | 6.35 | 6.80 | 11500 | 11490 | 0.05 U |
| EP-58 | 8/24/98 | EPRI-9808-123 | GW | 0.800 | 6.40 | 7 | 11600 | 11680 | 0.050 U |
| EP-58 | 11/16/98 | EPRI-9811-123 | GW | 1.30 | 6.39 | 7.2 | 11580 | 11290 | 0.050 U |
| EP-58 | 2/24/99 | EPRI-9902-125 | GW | 1.00 | 6.53 | 7.8 | 11510 | 13950 | 0.057 |
| EP-58 | 5/13/99 | EPRI-9905-126 | GW | 0.900 | 6.38 | 7.2 | 11660 | 10090 | 0.10 U,UJ4 |
| EP-58 | 08/10/99 | EPRI-9908-126 | GW | 0.5 | 6.49 | 8 | 11590 | 11610 | 0.06 J4 |
| EP-58 | 11/03/99 | EPRI-9911-126 | GW | 1.1 | 6.36 | 7 | 11310 | 12590 | 0.071 |
| EP-58 | 02/07/00 | EPRI-0002-126 | GW | 0.04 | 6.42 | 7.2 | 11700 | 10800 | 1.3 UJ1 |
| Average | | | | 0.72 | 6.43 | 7.16 | 11515 | 12065 | 0 |
| Median | | | | 0.80 | 6.4 | 7 | 11510 | 11610 | 0 |
| Standard Deviation | | | | 0.38 | 0.08 | 0.40 | 140 | 1350 | 0 |
| Minimum | | | | 0.04 | 6.35 | 6.80 | 11230 | 10090 | 0 |
| Maximum | | | | 1.30 | 6.54 | 8.00 | 11700 | 14130 | 1 |
| EP-59 | 08/09/97 | EPRI-9708-124 | GW | 2.08 | 6.98 | 7.70 | 4780 | 4750 | 7.7 |
| EP-59 | 11/05/97 | EPRI-9711-124 | GW | 0.2 | 7.23 | 7.60 | 4660 | 5340 | 8.8 |
| EP-59 | 02/05/98 | EPRI-9802-124 | GW | 1.06 | 7.09 | 7.30 | 4640 | 5630 | 10 |
| EP-59 | 05/08/98 | EPRI-9805-124 | GW | 1.33 | 7.13 | 7.70 | 4800 | 5600 | 13 |
| EP-59 | 8/10/98 | EPRI-9808-124 | GW | 1.75 | 7.09 | 7.4 | 4850 | 4750 | 12 |
| EP-59 | 8/10/98 | EPRI-9808-184 | GW | | 7.4 | 4850 | | | 13 |
| EP-59 | 11/9/98 | EPRI-9811-124 | GW | 2.70 | 7.04 | 7.4 | 4980 | 4980 | 12 |
| EP-59 | 2/10/99 | EPRI-9902-126 | GW | 0.700 | 7.13 | 7.6 | 5260 | 5320 | 15 |
| EP-59 | 2/10/99 | EPRI-9902-185 | GW | 0.700 | 7.14 | 8.3 | 5270 | 5230 | 15 |
| EP-59 | 5/6/99 | EPRI-9905-127 | GW | 0.800 | 7.01 | 7.4 | 5060 | 5400 | 14 |
| EP-59 | 08/03/99 | EPRI-9908-127 | GW | 0.4 | 7.18 | 7.4 | 4920 | 4950 | 12 |
| EP-59 | 10/27/99 | EPRI-9911-127 | GW | 3.9 | 6.99 | 8.1 | 4740 | 4780 | 11 |
| EP-59 | 01/28/00 | EPRI-0002-127 | GW | 0.6 | 7.12 | 7.9 | 5160 | 4900 | 8.6 J3 |
| Average | | | | 1.35 | 7.09 | 7.63 | 4921 | 5136 | 12 |
| Median | | | | 0.93 | 7.105 | 7.6 | 4850 | 5105 | 12 |
| Standard Deviation | | | | 1.09 | 0.08 | 0.31 | 212 | 324 | 2 |
| Minimum | | | | 0.20 | 6.98 | 7.30 | 4640 | 4750 | 8 |
| Maximum | | | | 3.90 | 7.23 | 8.30 | 5270 | 5630 | 15 |
| EP-60 | 08/08/97 | EPRI-9708-125 | GW | 2.44 | 6.98 | 7.50 | 9140 | 8840 | 90 |
| EP-60 | 11/05/97 | EPRI-9711-125 | GW | 0.16 | 6.99 | 7.50 | 8560 | 9660 | 90 |
| EP-60 | 02/05/98 | EPRI-9802-125 | GW | 1.7 | 6.95 | 7.30 | 8780 | 10210 | 109 |
| EP-60 | 05/08/98 | EPRI-9805-125 | GW | 1.23 | 7.24 | 7.60 | 8880 | 9880 | 76 |
| EP-60 | 8/10/98 | EPRI-9808-125 | GW | 3.77 | 7.06 | 7.7 | 8700 | 8310 | 57 |
| EP-60 | 11/9/98 | EPRI-9811-125 | GW | 3.60 | 7.21 | 7.7 | 8480 | 8240 | 40 |
| EP-60 | 2/10/99 | EPRI-9902-127 | GW | 1.90 | 7.00 | 7.8 | 8670 | 8650 | 57 |
| EP-60 | 5/6/99 | EPRI-9905-132 | GW | 0.700 | 6.80 | 7.4 | 8670 | 9010 | 83 |
| EP-60 | 08/03/99 | EPRI-9908-128 | GW | 3 | 7.18 | 7.6 | 8570 | 8410 | 68 |
| EP-60 | 10/27/99 | EPRI-9911-128 | GW | 0.7 | 6.82 | 8.1 | 8280 | 8130 | 63 |
| EP-60 | 01/28/00 | EPRI-0002-128 | GW | 0.3 | 7.05 | 7.9 | 8320 | 7890 | 41 J3 |
| Average | | | | 1.77 | 7.03 | 7.65 | 8641 | 8839 | 70 |
| Median | | | | 1.70 | 7 | 7.6 | 8670 | 8650 | 68 |
| Standard Deviation | | | | 1.29 | 0.14 | 0.23 | 245 | 770 | 22 |
| Minimum | | | | 0.16 | 6.80 | 7.30 | 8280 | 7890 | 40 |
| Maximum | | | | 3.77 | 7.24 | 8.10 | 9140 | 10210 | 109 |
| EP-61 | 08/16/97 | EPRI-9708-126 | GW | 2.3 | 7.15 | 7.90 | 9290 | 9210 | 154 |
| EP-61 | 11/14/97 | EPRI-9711-126 | GW | 1.71 | 6.93 | 7.20 | 9080 | 11290 | 164 |
| EP-61 | 02/18/98 | EPRI-9802-126 | GW | 1.68 | 6.85 | 7.30 | 9200 | 10350 | 207 |
| EP-61 | 02/18/98 | EPRI-9802-180 | GW | 1.68 | 6.85 | 7.40 | 9190 | 10350 | 210 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-61 | 05/18/98 | EPRI-9805-126 | GW | 0.51 | 6.95 | 7.30 | 8860 | 8810 | 156 |
| EP-61 | 8/24/98 | EPRI-9808-126 | GW | 0.74 | 7.03 | 7.5 | 8620 | 8710 | 117 |
| EP-61 | 11/16/98 | EPRI-9811-126 | GW | 1.10 | 7.02 | 7.6 | 8530 | 8320 | 131 |
| EP-61 | 2/24/99 | EPRI-9902-128 | GW | 0.600 | 7.17 | 7.6 | 8320 | 9720 | 91 |
| EP-61 | 5/13/99 | EPRI-9905-129 | GW | 0.900 | 6.78 | 8.0 | 8240 | 7360 | 166 |
| EP-61 | 08/10/99 | EPRI-9908-129 | GW | 1.1 | 7.15 | 7.7 | 8070 | 8060 | 82 |
| EP-61 | 11/03/99 | EPRI-9911-129 | GW | 1.8 | 6.96 | 7.8 | 8180 | 8990 | 100 |
| EP-61 | 02/07/00 | EPRI-0002-129 | GW | 0.9 | 7.09 | 7.7 | 8360 | 7780 | 93 |
| Average | | | | 1.25 | 6.99 | 7.58 | 8662 | 9079 | 139 |
| Median | | | | 1.10 | 6.99 | 7.6 | 8575 | 8900 | 143 |
| Standard Deviation | | | | 0.56 | 0.13 | 0.25 | 444 | 1169 | 44 |
| Minimum | | | | 0.51 | 6.78 | 7.20 | 8070 | 7360 | 82 |
| Maximum | | | | 2.30 | 7.17 | 8.00 | 9290 | 11290 | 210 |
| EP-62 | 08/09/97 | EPRI-9708-127 | GW | 1.45 | 7.10 | 7.70 | 5050 | 5030 | 9.8 |
| EP-62 | 11/05/97 | EPRI-9711-127 | GW | 1.16 | 7.09 | 7.70 | 5050 | 5580 | 7.3 |
| EP-62 | 02/05/98 | EPRI-9802-127 | GW | 3.07 | 7.16 | 7.40 | 5460 | 5980 | 17 |
| EP-62 | 05/08/98 | EPRI-9805-127 | GW | 2.87 | 7.21 | 7.70 | 4820 | 5480 | 11 |
| EP-62 | 8/10/98 | EPRI-9808-127 | GW | 4.33 | 7.16 | 7.7 | 4840 | 4770 | 8.6 |
| EP-62 | 11/9/98 | EPRI-9811-127 | GW | 1.6 | 7.3 | 7.5 | 4680 | 4710 | 6.4 |
| EP-62 | 2/10/99 | EPRI-9902-129 | GW | 4.8 | 7.41 | 8.5 | 4500 | 4600 | 4.8 |
| EP-62 | 5/6/99 | EPRI-9905-130 | GW | 3.8 | 7.1 | 7.6 | 4420 | 4600 | 5.8 |
| EP-62 | 08/03/99 | EPRI-9908-130 | GW | 2.1 | 7.29 | 7.4 | 4410 | 4470 | 5.5 |
| EP-62 | 10/27/99 | EPRI-9911-130 | GW | 4.3 | 7.04 | 8.2 | 4000 | 3830 | 4.7 |
| EP-62 | 01/28/00 | EPRI-0002-130 | GW | 6.2 | 7.3 | 7.1 | 4460 | 4310 | 3.8 |
| Average | | | | 3.24 | 7.20 | 7.68 | 4699 | 4851 | 8 |
| Median | | | | 3.07 | 7.16 | 7.7 | 4680 | 4710 | 6 |
| Standard Deviation | | | | 1.60 | 0.12 | 0.38 | 401 | 622 | 4 |
| Minimum | | | | 1.16 | 7.04 | 7.10 | 4000 | 3830 | 4 |
| Maximum | | | | 6.20 | 7.41 | 8.50 | 5460 | 5980 | 17 |
| EP-63 | 08/09/97 | EPRI-9708-128 | GW | 2.83 | 7.13 | 7.80 | 8100 | 880 | R 25 |
| EP-63 | 11/05/97 | EPRI-9711-128 | GW | 0.33 | 7.16 | 7.80 | 8260 | 9220 | 21 |
| EP-63 | 02/05/98 | EPRI-9802-128 | GW | 2.23 | 7.08 | 7.40 | 8210 | 9590 | 18 |
| EP-63 | 05/08/98 | EPRI-9805-128 | GW | 1.58 | 7.15 | 7.60 | 8390 | 9360 | 14 |
| EP-63 | 8/10/98 | EPRI-9808-128 | GW | 1.86 | 7.16 | 7.7 | 8470 | 8270 | 13 |
| EP-63 | 11/9/98 | EPRI-9811-128 | GW | 1.4 | 7.28 | 7.6 | 8480 | 8430 | 6.4 |
| EP-63 | 2/10/99 | EPRI-9902-130 | GW | 1.30 | 7.27 | 7.8 | 8440 | 8590 | 7.3 |
| EP-63 | 5/6/99 | EPRI-9905-131 | GW | 1.00 | 7.04 | 7.6 | 8300 | 8450 | 6.4 |
| EP-63 | 5/6/99 | EPRI-9905-181 | GW | 0.90 | 7.04 | 7.7 | 8210 | 8450 | J4 7.9 |
| EP-63 | 08/03/99 | EPRI-9908-131 | GW | 1.2 | 7.18 | 7.1 | 8140 | 8240 | 7.6 |
| EP-63 | 10/27/99 | EPRI-9911-131 | GW | 1 | 6.95 | 7.7 | 7680 | 7710 | 4.3 |
| EP-63 | 01/28/00 | EPRI-0002-131 | GW | 0.3 | 7.22 | 7.8 | 7400 | 7010 | 2.5 |
| Average | | | | 1.33 | 7.14 | 7.63 | 8173 | 7850 | 11 |
| Median | | | | 1.25 | 7.155 | 7.7 | 8235 | 8440 | 8 |
| Standard Deviation | | | | 0.73 | 0.10 | 0.21 | 327 | 2305 | 7 |
| Minimum | | | | 0.30 | 6.95 | 7.10 | 7400 | 880 | 3 |
| Maximum | | | | 2.83 | 7.28 | 7.80 | 8480 | 9590 | 25 |
| EP-64 | 08/09/97 | EPRI-9708-129 | GW | 3.96 | 7.39 | 7.80 | 8590 | 9700 | 77 |
| EP-64 | 11/05/97 | EPRI-9711-129 | GW | 0.19 | 7.25 | 7.80 | 11000 | 13050 | 114 |
| EP-64 | 02/05/98 | EPRI-9802-129 | GW | 3.76 | 7.98 | 7.90 | 10420 | 10800 | 136 |
| EP-64 | 05/08/98 | EPRI-9805-129 | GW | 2.60 | 6.82 | 8.00 | 10000 | 10940 | 120 |
| EP-64 | 8/10/98 | EPRI-9808-129 | GW | 3.00 | 7.40 | 7.9 | 9540 | 9410 | 71 |
| EP-64 | 11/9/98 | EPRI-9811-129 | GW | 4.00 | 7.55 | 7.7 | 9490 | 9450 | 66 |
| EP-64 | 2/10/99 | EPRI-9902-131 | GW | 2.90 | 7.89 | 8.5 | 9520 | 9670 | 86 |
| EP-64 | 5/6/99 | EPRI-9905-128 | GW | 2.30 | 7.57 | 7.9 | 9280 | 9910 | 73 |
| EP-64 | 08/03/99 | EPRI-9908-132 | GW | 5 | 7.48 | 7.8 | 8380 | 9420 | 77 |
| EP-64 | 10/27/99 | EPRI-9911-132 | GW | 4.3 | 7.39 | 8.4 | 9080 | 9070 | 76 |
| EP-64 | 01/28/00 | EPRI-0002-132 | GW | 4.6 | 7.84 | 8.3 | 9410 | 8960 | 86 |
| Average | | | | 3.33 | 7.51 | 8.00 | 9519 | 10035 | 89 |
| Median | | | | 3.76 | 7.48 | 7.9 | 9490 | 9670 | 77 |
| Standard Deviation | | | | 1.35 | 0.33 | 0.27 | 752 | 1181 | 23 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|-----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| Minimum | | | | 0.19 | 6.82 | 7.70 | 8380 | 8960 | 66 |
| Maximum | | | | 5.00 | 7.98 | 8.50 | 11000 | 13050 | 136 |
| EP-65 | 08/16/97 | EPRI-9708-130 | GW | 0.35 | 7.15 | 7.70 | 7420 | 7360 | 30 |
| EP-65 | 11/14/97 | EPRI-9711-130 | GW | 1.4 | 7.02 | 7.60 | 7380 | 9180 | 66 |
| EP-65 | 02/18/98 | EPRI-9802-130 | GW | 0.84 | 7.07 | 7.50 | 7500 | 9190 | 58 |
| EP-65 | 05/18/98 | EPRI-9805-130 | GW | 0.56 | 7.10 | 7.30 | 7440 | 7310 | 35 |
| EP-65 | 8/24/98 | EPRI-9808-130 | GW | 0.270 | 7.02 | 7.5 | 7330 | 7390 | 33 |
| EP-65 | 11/16/98 | EPRI-9811-130 | GW | 0.600 | 7.08 | 7.6 | 7280 | 7060 | 31 |
| EP-65 | 2/24/99 | EPRI-9902-132 | GW | 0.400 | 7.16 | 7.7 | 6980 | 8290 | 27 |
| EP-65 | 2/24/99 | EPRI-9902-194 | GW | 0.400 | 7.16 | 7.7 | 7010 | 8280 | 31 |
| EP-65 | 5/13/99 | EPRI-9905-133 | GW | 1.00 | 6.98 | 7.7 | 6740 | 6010 | 24 |
| EP-65 | 08/10/99 | EPRI-9908-133 | GW | 0.3 | 7.14 | 7.8 | 6610 | 6660 | 36 |
| EP-65 | 08/10/99 | EPRI-9908-204 | GW | 0.3 | 7.14 | 7.7 | 6610 | 6660 | 29 |
| EP-65 | 11/03/99 | EPRI-9911-133 | GW | 2.3 | 6.93 | 7.6 | 6400 | 7130 | 25 |
| EP-65 | 02/07/00 | EPRI-0002-133 | GW | 0.4 | 6.99 | 7.6 | 6520 | 6160 | 22 |
| EP-65 | 02/07/00 | EPRI-0002-236 | GW | 0.2 | 7 | 7.7 | 6500 | 6190 | 20 |
| Average | | | | 0.67 | 7.07 | 7.62 | 6980 | 7348 | 33 |
| Median | | | | 0.40 | 7.075 | 7.65 | 6995 | 7220 | 31 |
| Standard Deviation | | | | 0.58 | 0.08 | 0.13 | 408 | 1042 | 13 |
| Minimum | | | | 0.20 | 6.93 | 7.30 | 6400 | 6010 | 20 |
| Maximum | | | | 2.30 | 7.16 | 7.80 | 7500 | 9190 | 66 |
| EP-66 | 08/08/97 | EPRI-9708-131 | GW | 6.7 | 7.05 | 7.50 | 8390 | 8370 | 40 |
| EP-66 | 11/05/97 | EPRI-9711-131 | GW | 1.3 | 6.80 | 7.50 | 7920 | 9020 | 44 |
| EP-66 | 02/05/98 | EPRI-9802-131 | GW | 4.42 | 7.09 | 7.60 | 7220 | 8290 | 44 |
| EP-66 | 05/08/98 | EPRI-9805-131 | GW | 2.99 | 7.39 | 7.70 | 7690 | 8980 | 45 |
| EP-66 | 8/10/98 | EPRI-9808-131 | GW | 6.54 | 6.95 | 7.5 | 8130 | 7820 | 40 |
| EP-66 | 11/9/98 | EPRI-9811-131 | GW | 5.30 | 7.09 | 7.4 | 7440 | 7530 | 31 |
| EP-66 | 2/10/99 | EPRI-9902-133 | GW | 5.30 | 7.17 | 8.0 | 7720 | 7700 | 34 |
| EP-66 | 5/6/99 | EPRI-9905-134 | GW | 5.50 | 6.98 | 7.5 | 7620 | 8660 | 38 |
| EP-66 | 08/04/99 | EPRI-9908-134 | GW | | 7 | 7.8 | 8000 | 7680 | 47 |
| EP-66 | 10/27/99 | EPRI-9911-134 | GW | 6 | 6.92 | 8.3 | 5910 | 5920 | 30 |
| EP-66 | 01/28/00 | EPRI-0002-134 | GW | 6.4 | 7.28 | 7.8 | 7860 | 7530 | 36 |
| Average | | | | 5.05 | 7.07 | 7.69 | 7627 | 7955 | 39 |
| Median | | | | 5.40 | 7.05 | 7.6 | 7720 | 7820 | 40 |
| Standard Deviation | | | | 1.72 | 0.17 | 0.27 | 654 | 873 | 6 |
| Minimum | | | | 1.30 | 6.80 | 7.40 | 5910 | 5920 | 30 |
| Maximum | | | | 6.70 | 7.39 | 8.30 | 8390 | 9020 | 47 |
| EP-67 | 08/12/97 | EPRI-9708-132 | GW | 1.5 | 6.74 | 7.60 | 4400 | 4490 | 18 |
| EP-67 | 11/07/97 | EPRI-9711-132 | GW | 0.9 | 6.84 | 7.40 | 4460 | 5000 | 17 |
| EP-67 | 02/11/98 | EPRI-9802-132 | GW | 1.71 | 6.66 | 7.30 | 4470 | 5820 | 19 |
| EP-67 | 02/11/98 | EPRI-9802-179 | GW | 1.71 | 6.66 | 7.30 | 4480 | 5820 | 19 |
| EP-67 | 05/12/98 | EPRI-9805-132 | GW | 0.94 | 6.94 | 7.20 | 4440 | 4450 | 17 |
| EP-67 | 8/13/98 | EPRI-9808-132 | GW | 1.09 | 6.79 | 7.6 | 4360 | 4310 | 15 |
| EP-67 | 11/10/98 | EPRI-9811-132 | GW | 1.6 | 6.77 | 7.4 | 4370 | 4350 | 16 |
| EP-67 | 2/10/99 | EPRI-9902-134 | GW | 1.70 | 6.91 | 7.7 | 4340 | 4400 | 14 |
| EP-67 | 5/7/99 | EPRI-9905-135 | GW | 1.30 | 6.81 | 7.3 | 4440 | 4820 | 15 |
| EP-67 | 08/05/99 | EPRI-9908-135 | GW | | 6.86 | 7.7 | 4330 | 4860 | 17 |
| EP-67 | 10/28/99 | EPRI-9911-135 | GW | 2 | 6.64 | 7.3 | 4400 | 4410 | 13 |
| EP-67 | 01/24/00 | EPRI-0002-135 | GW | 1.3 | 6.88 | 7.5 | 4380 | 4280 | 20 |
| Average | | | | 1.45 | 6.81 | 7.45 | 4401 | 4743 | 16 |
| Median | | | | 1.60 | 6.825 | 7.4 | 4390 | 4430 | 17 |
| Standard Deviation | | | | 0.36 | 0.10 | 0.18 | 55 | 555 | 2 |
| Minimum | | | | 0.90 | 6.64 | 7.20 | 4330 | 4280 | 13 |
| Maximum | | | | 2.00 | 6.94 | 7.70 | 4480 | 5820 | 20 |
| EP-68 | 08/14/97 | EPRI-9708-133 | GW | 6.38 | 7.14 | 7.70 | 5430 | 5290 | 24 |
| EP-68 | .08/14/97 | EPRI-9708-174 | GW | | | 7.70 | 5330 | | 25 |
| EP-68 | 11/11/97 | EPRI-9711-133 | GW | 6.09 | 7.11 | 7.30 | 5440 | 5590 | 24 |
| EP-68 | 02/11/98 | EPRI-9802-133 | GW | 7.59 | 6.93 | 7.70 | 4980 | 6080 | 33 |
| EP-68 | 05/13/98 | EPRI-9805-133 | GW | 5.87 | 7.17 | 7.40 | 5690 | 5320 | 23 |
| EP-68 | 05/13/98 | EPRI-9805-179 | GW | | | 8.10 | 5740 | | 21 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|----------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-68 | 8/13/98 | EPRI-9808-133 | GW | 6.32 | 7.16 | 7.8 | 4260 | 3990 | 41 |
| EP-68 | 11/9/98 | EPRI-9811-133 | GW | 6.40 | 7.40 | 7.9 | 4480 | 4130 | 27 |
| EP-68 | 2/18/99 | EPRI-9902-135 | GW | 5.60 | 7.31 | 7.5 | 3840 | 3690 | 35 |
| EP-68 | 5/10/99 | EPRI-9905-136 | GW | 6.00 | 7.08 | 7.6 | 4030 | 3990 | 42 |
| EP-68 | 08/05/99 | EPRI-9908-136 | GW | | 7.17 | 7.9 | 4780 | 4790 | 39 |
| EP-68 | 10/28/99 | EPRI-9911-136 | GW | 12.1 | 6.88 | 7.4 | 5900 | 5340 | 27 |
| EP-68 | 01/25/00 | EPRI-0002-136 | GW | 5.4 | 7.07 | 7.8 | 5800 | 5570 | 24 |
| EP-68 | 01/25/00 | EPRI-0002-221 | GW | 5.2 | 7.09 | 7.7 | 5780 | 5560 | 30 |
| Average | | | | 6.65 | 7.13 | 7.68 | 5106 | 4945 | 30 |
| Median | | | | 6.09 | 7.125 | 7.7 | 5380 | 5305 | 27 |
| Standard Deviation | | | | 1.92 | 0.14 | 0.22 | 711 | 796 | 7 |
| Minimum | | | | 5.20 | 6.88 | 7.30 | 3840 | 3690 | 21 |
| Maximum | | | | 12.10 | 7.40 | 8.10 | 5900 | 6080 | 42 |
| EP-70 | 08/12/97 | EPRI-9708-135A | GW | 0.52 | 6.84 | | | 7150 | |
| EP-70 | 08/26/97 | EPRI-9708-135 | GW | | 7.19 | 7.90 | 6970 | 1291 | R 62 |
| EP-70 | 08/26/97 | EPRI-9708-180 | GW | | | 7.60 | 6970 | | 59 |
| EP-70 | 11/07/97 | EPRI-9711-135 | GW | 0.75 | 6.91 | 7.50 | 6740 | 7510 | 62 |
| EP-70 | 02/11/98 | EPRI-9802-135 | GW | 0.56 | 6.79 | 7.40 | 6600 | 8480 | 78 |
| EP-70 | 5/12/98 | EPRI-9805-135 | GW | 0.38 | 7.07 | 7.4 | 6290 | 6210 | 46 |
| EP-70 | 8/13/98 | EPRI-9808-135 | GW | 1.39 | 6.94 | 7.6 | 6150 | 5960 | 42 |
| EP-70 | 11/10/98 | EPRI-9811-135 | GW | 0.8 | 7.02 | 7.4 | 6320 | 6230 | 52 |
| EP-70 | 11/10/98 | EPRI-9811-180 | GW | | | 7.3 | 6310 | | 55 |
| EP-70 | 2/10/99 | EPRI-9902-136 | GW | 0.900 | 7.04 | 7.7 | 6080 | 6080 | 20 |
| EP-70 | 05/07/99 | EPRI-9905-137 | GW | 0.7 | 6.92 | 7.5 | 6230 | 6630 | 43 |
| EP-70 | 08/05/99 | EPRI-9908-137 | GW | | 7.01 | 7 | 6020 | 6660 | 53 |
| EP-70 | 10/28/99 | EPRI-9911-137 | GW | 0.2 | 6.76 | 7.2 | 6220 | 6220 | 39 |
| EP-70 | 01/24/00 | EPRI-0002-137 | GW | 0.2 | 7.03 | 7.6 | 6110 | 5950 | 38 |
| EP-70 | 01/24/00 | EPRI-0002-219 | GW | 0.2 | 7.03 | 7.5 | 6100 | 5950 | 40 |
| Average | | | | 0.60 | 6.97 | 7.47 | 6365 | 6179 | 49 |
| Median | | | | 0.56 | 7.01 | 7.5 | 6260 | 6220 | 49 |
| Standard Deviation | | | | 0.36 | 0.12 | 0.22 | 323 | 1646 | 14 |
| Minimum | | | | 0.20 | 6.76 | 7.00 | 6020 | 1291 | 20 |
| Maximum | | | | 1.39 | 7.19 | 7.90 | 6970 | 8480 | 78 |
| EP-71 | 08/12/97 | EPRI-9708-136 | GW | 0.43 | 6.79 | 7.50 | 6480 | 6560 | 89 |
| EP-71 | 11/07/97 | EPRI-9711-136 | GW | 0.54 | 6.85 | 7.50 | 6470 | 7180 | 99 |
| EP-71 | 02/11/98 | EPRI-9802-136 | GW | 0.82 | 6.70 | 7.50 | 6770 | 8670 | 114 |
| EP-71 | 05/12/98 | EPRI-9805-136 | GW | 0.39 | 6.99 | 7.30 | 6440 | 6400 | 46 |
| EP-71 | 8/13/98 | EPRI-9808-136 | GW | 0.310 | 6.86 | 7.5 | 6290 | 6260 | 53 |
| EP-71 | 11/10/98 | EPRI-9811-136 | GW | 1.1 | 7.00 | 7.3 | 5750 | 5870 | 79 |
| EP-71 | 2/10/99 | EPRI-9902-137 | GW | 1.00 | 7.01 | 7.7 | 5940 | 5970 | 34 |
| EP-71 | 08/05/99 | EPRI-9908-138 | GW | | 6.92 | 7.5 | 5850 | 6560 | 92 |
| EP-71 | 10/28/99 | EPRI-9911-138 | GW | 0.2 | 6.71 | 7.9 | 5800 | 5800 | 64 |
| EP-71 | 01/24/00 | EPRI-0002-138 | GW | 0.9 | 6.97 | 7.6 | 5950 | 5770 | 72 |
| Average | | | | 0.63 | 6.88 | 7.53 | 6174 | 6484 | 74 |
| Median | | | | 0.54 | 6.89 | 7.5 | 6120 | 6330 | 76 |
| Standard Deviation | | | | 0.33 | 0.12 | 0.18 | 357 | 897 | 25 |
| Minimum | | | | 0.20 | 6.70 | 7.30 | 5750 | 5670 | 34 |
| Maximum | | | | 1.10 | 7.01 | 7.90 | 6770 | 8670 | 114 |
| EP-72 | 08/12/97 | EPRI-9708-137 | GW | 0.37 | 6.77 | 7.80 | 6220 | 6300 | 58 |
| EP-72 | 11/07/97 | EPRI-9711-137 | GW | 0.95 | 6.86 | 7.40 | 6040 | 6810 | 59 |
| EP-72 | 02/11/98 | EPRI-9802-137 | GW | 0.72 | 6.72 | 7.40 | 6030 | 7900 | 53 |
| EP-72 | 05/13/98 | EPRI-9805-137 | GW | 0.29 | 7.02 | 7.50 | 6030 | 5970 | 44 |
| EP-72 | 8/13/98 | EPRI-9808-137 | GW | 0.210 | 6.89 | 7.5 | 6050 | 6000 | 49 |
| EP-72 | 11/10/98 | EPRI-9811-137 | GW | 1.2 | 7.00 | 7.3 | 6090 | 6080 | 68 |
| EP-72 | 01/24/00 | EPRI-0002-139 | GW | 2.7 | 7.11 | 7.9 | 5700 | 5560 | 34 |
| Average | | | | 0.92 | 6.91 | 7.54 | 6023 | 6374 | 52 |
| Median | | | | 0.72 | 6.89 | 7.5 | 6040 | 6080 | 53 |
| Standard Deviation | | | | 0.87 | 0.14 | 0.22 | 157 | 772 | 11 |
| Minimum | | | | 0.21 | 6.72 | 7.30 | 5700 | 5560 | 34 |
| Maximum | | | | 2.70 | 7.11 | 7.90 | 6220 | 7900 | 68 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|---------------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-73 | 08/12/97 | EPRI-9708-138 | GW | 5.73 | 6.88 | 7.90 | 6760 | 6760 | 25 |
| EP-73 | 11/13/97 | EPRI-9711-138 | GW | 1.2 | 6.91 | 7.40 | 6520 | 8610 | 23 |
| EP-73 | 02/12/98 | EPRI-9802-138 | GW | 0.97 | 6.84 | 7.60 | 6850 | 9340 | 24 |
| EP-73 | 05/11/98 | EPRI-9805-138 | GW | 1.43 | 6.62 | 7.70 | 6900 | 7810 | 22 |
| EP-73 | 8/17/98 | EPRI-9808-138 | GW | 0.810 | 6.97 | 7.5 | 6700 | 6610 | 21 |
| EP-73 | 11/5/98 | EPRI-9811-138 | GW | 6.20 | 7.13 | 7.4 | 6580 | 5750 | 15 |
| EP-73 | 2/9/99 | EPRI-9902-139 | GW | 2.70 | 7.13 | 7.7 | 6540 | 6340 | 16 |
| EP-73 | 5/7/99 | EPRI-9905-140 | GW | 0.800 | 6.97 | 7.5 | 6700 | 7670 | 16 |
| EP-73 | 5/7/99 | EPRI-9905-183 | GW | 0.80 | 6.96 | 7.7 | 6700 | 7680 | 21 |
| EP-73 | 08/05/99 | EPRI-9908-140 | GW | 5.2 | 7.01 | 7.5 | 6550 | 7280 | 19 |
| EP-73 | 10/29/99 | EPRI-9911-140 | GW | 1.2 | 6.8 | 7.6 | 6520 | 5760 | 19 |
| EP-73 | 01/26/00 | EPRI-0002-140 | GW | 0.4 | 7.07 | 7.8 | 6600 | 6200 | 17 |
| Average | | | | 2.29 | 6.94 | 7.61 | 6660 | 7151 | 20 |
| Median | | | | 1.20 | 6.965 | 7.6 | 6650 | 7020 | 20 |
| Standard Deviation | | | | 2.15 | 0.15 | 0.16 | 129 | 1121 | 3 |
| Minimum | | | | 0.40 | 6.62 | 7.40 | 6520 | 5750 | 15 |
| Maximum | | | | 6.20 | 7.13 | 7.90 | 6900 | 9340 | 25 |
| EP-74 | 08/13/97 | EPRI-9708-139 | GW | 9.41 | 7.42 | 8.00 | 2550 | 2530 | 5.9 |
| EP-75 | 08/12/97 | EPRI-9708-140 | GW | 1.54 | 6.84 | 7.40 | 19620 | 18940 | 191 |
| EP-75 | 11/13/97 | EPRI-9711-140 | GW | 1.96 | 6.82 | 7.20 | 18340 | 21300 | 193 |
| EP-75 | 02/06/98 | EPRI-9802-140 | GW | 1.11 | 6.86 | 7.20 | 19240 | 23900 | 178 |
| EP-75 | 05/11/98 | EPRI-9805-140 | GW | 2.40 | 6.52 | 7.50 | 20000 | 20000 | E 148 |
| EP-75 | 8/17/98 | EPRI-9808-140 | GW | 1.13 | 6.85 | 7.4 | 18700 | 17890 | 176 |
| EP-75 | 11/5/98 | EPRI-9811-140 | GW | 5.00 | 6.90 | 7.2 | 19100 | 16900 | 111 |
| EP-75 | 2/22/99 | EPRI-9902-140 | GW | 6.80 | 6.94 | 7.3 | 18720 | 22000 | 161 |
| EP-75 | 5/10/99 | EPRI-9905-141 | GW | 0.300 | 6.87 | 7.6 | 19390 | 20100 | 160 |
| EP-75 | 08/06/99 | EPRI-9908-141 | GW | 0.4 | 6.86 | 7.2 | 16010 | 18110 | 124 |
| EP-75 | 01/26/00 | EPRI-0002-142 | GW | 1.8 | 7.01 | 7.7 | 18110 | 16220 | 175 |
| Average | | | | 2.24 | 6.85 | 7.37 | 18723 | 19536 | 162 |
| Median | | | | 1.67 | 6.86 | 7.35 | 18910 | 19470 | 168 |
| Standard Deviation | | | | 2.08 | 0.13 | 0.18 | 1114 | 2399 | 27 |
| Minimum | | | | 0.30 | 6.52 | 7.20 | 16010 | 16220 | 111 |
| Maximum | | | | 6.80 | 7.01 | 7.70 | 20000 | 23900 | 193 |
| EP-76 | 08/12/97 | EPRI-9708-141 | GW | 0.35 | 7.39 | 8.00 | 5110 | 5170 | 5.2 |
| EP-76 | 11/11/97 | EPRI-9711-141 | GW | 0.16 | 7.21 | 7.50 | 4670 | 5050 | 4.6 |
| EP-76 | 02/06/98 | EPRI-9802-141 | GW | 0.34 | 7.22 | 7.60 | 4800 | 6000 | 4.7 |
| EP-76 | 05/11/98 | EPRI-9805-141 | GW | 1.04 | 7.22 | 7.70 | 5000 | 5390 | 5 |
| EP-76 | 8/17/98 | EPRI-9808-141 | GW | 0.110 | 7.21 | 7.6 | 5070 | 5090 | 5.7 |
| EP-76 | 11/5/98 | EPRI-9811-141 | GW | 0.900 | 7.61 | 7.7 | 5680 | 5150 | 3.8 |
| EP-76 | 2/22/99 | EPRI-9902-141 | GW | 4.4 | 7.34 | 7.6 | 5120 | 5860 | 0.63 |
| EP-76 | 5/10/99 | EPRI-9905-142 | GW | 0.700 | 7.05 | 7.6 | 5490 | 5550 | 4.5 |
| EP-76 | 1/26/00 | EPRI-0002-141 | GW | 0.700 | 7.33 | 8.3 | 5060 | 4860 | 4.2 |
| Average | | | | 0.97 | 7.29 | 7.73 | 5111 | 5347 | 4 |
| Median | | | | 0.70 | 7.22 | 7.6 | 5070 | 5170 | 5 |
| Standard Deviation | | | | 1.33 | 0.16 | 0.25 | 311 | 386 | 1 |
| Minimum | | | | 0.11 | 7.05 | 7.50 | 4670 | 4860 | 1 |
| Maximum | | | | 4.40 | 7.61 | 8.30 | 5680 | 6000 | 6 |
| EP-77 | 08/12/97 | EPRI-9708-142 | GW | 3.83 | 6.98 | 8.40 | 5400 | 5350 | 0.67 |
| EP-77 | 11/13/97 | EPRI-9711-142 | GW | 1.5 | 7.02 | 7.60 | 5350 | 6550 | 13 |
| EP-77 | 11/13/97 | EPRI-9711-178 | GW | | | 7.60 | 5360 | | 0.59 |
| EP-77 | 02/12/98 | EPRI-9802-142 | GW | 1.1 | 7.00 | 7.50 | 5330 | 6910 | 0.4 |
| EP-77 | 05/13/98 | EPRI-9805-142 | GW | 0.71 | 7.23 | 7.50 | 5070 | 5320 | 0.4 |
| EP-77 | 8/17/98 | EPRI-9808-142 | GW | 0.82 | 7.09 | 7.5 | 5800 | 5730 | 0.42 |
| EP-77 | 11/11/98 | EPRI-9811-142 | GW | | | 7.30 | 5770 | 5600 | 0.71 |
| EP-77 | 2/11/99 | EPRI-9902-142 | GW | 0.900 | 7.23 | 7.8 | 5450 | 5450 | 0.59 |
| EP-77 | 5/7/99 | EPRI-9905-143 | GW | 1.10 | 7.08 | 7.6 | 5350 | 5800 | 0.32 |
| EP-77 | 08/05/99 | EPRI-9908-143 | GW | 1.2 | 7.14 | 7.4 | 5110 | 5640 | 1.8 |
| EP-77 | 10/29/99 | EPRI-9911-143 | GW | 0.6 | 6.94 | 8.4 | 5080 | 4300 | 0.58 |
| EP-77 | 10/29/99 | EPRI-9911-227 | GW | | | 7.9 | 5030 | | 0.47 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-77 | 01/25/00 | EPRI-0002-143 | GW | 0.2 | 7.21 | 8.2 | 4500 | 4410 | 0.94 |
| Average | | | | 1.20 | 7.11 | 7.76 | 5277 | 5551 | 2 |
| Median | | | | 1.00 | 7.09 | 7.6 | 5350 | 5600 | 1 |
| Standard Deviation | | | | 0.99 | 0.12 | 0.35 | 336 | 769 | 3 |
| Minimum | | | | 0.20 | 6.94 | 7.40 | 4500 | 4300 | 0 |
| Maximum | | | | 3.83 | 7.30 | 8.40 | 5800 | 6910 | 13 |
| EP-78 | 08/13/97 | EPRI-9708-143 | GW | 0.25 | 7.78 | 8.00 | 2600 | 2640 | 7.6 |
| EP-78 | 11/18/97 | EPRI-9711-143 | GW | 0.74 | 7.77 | 7.90 | 2310 | UJ1 | 2940 |
| EP-78 | 11/18/97 | EPRI-9711-179 | GW | | | 7.90 | 2320 | UJ1 | |
| EP-78 | 02/06/98 | EPRI-9802-143 | GW | 0.73 | 7.69 | 7.90 | 2940 | 3780 | 11 |
| EP-78 | 05/14/98 | EPRI-9805-143 | GW | 0.82 | 7.70 | 8.00 | 3720 | 3750 | 11 |
| EP-78 | 8/19/98 | EPRI-9808-143 | GW | 0.240 | 7.73 | 8.1 | 3660 | 3740 | 9.4 |
| EP-78 | 11/11/98 | EPRI-9811-143 | GW | 1.00 | 8.05 | 8.1 | 2220 | 2170 | 8.1 |
| EP-78 | 2/18/99 | EPRI-9902-143 | GW | 0.500 | 7.74 | 7.9 | 3450 | 3420 | 10 |
| EP-78 | 5/11/99 | EPRI-9905-144 | GW | 2.30 | 7.62 | 7.3 | 3750 | J3 | 3770 |
| EP-78 | 5/11/99 | EPRI-9905-186 | GW | 2.20 | 7.62 | 7.5 | 3740 | J3 | 3830 |
| EP-78 | 08/09/99 | EPRI-9908-144 | GW | 0.9 | 7.86 | 7.8 | 2520 | 2440 | 6.7 |
| EP-78 | 10/31/99 | EPRI-9911-144 | GW | | 7.43 | 8 | 2620 | 2610 | 6.3 |
| EP-78 | 01/28/00 | EPRI-0002-144 | GW | 0.7 | 7.62 | 7.6 | 3400 | 3250 | 11 |
| Average | | | | 0.94 | 7.72 | 7.85 | 3020 | 3195 | 9 |
| Median | | | | 0.74 | 7.715 | 7.9 | 2940 | 3335 | 9 |
| Standard Deviation | | | | 0.69 | 0.15 | 0.24 | 614 | 608 | 2 |
| Minimum | | | | 0.24 | 7.43 | 7.30 | 2220 | 2170 | 6 |
| Maximum | | | | 2.30 | 8.05 | 8.10 | 3750 | 3830 | 11 |
| EP-79 | 08/13/97 | EPRI-9708-144 | GW | 1.06 | 7.47 | 8.00 | 4890 | 4870 | 9.5 |
| EP-79 | 11/18/97 | EPRI-9711-144 | GW | 0.77 | 7.43 | 8.20 | 4900 | 6500 | 10 |
| EP-79 | 02/06/98 | EPRI-9802-144 | GW | 0.63 | 7.42 | 7.90 | 4940 | 6700 | 11 |
| EP-79 | 05/14/98 | EPRI-9805-144 | GW | 0.43 | 7.52 | 7.80 | 5080 | 5150 | 9.9 |
| EP-79 | 8/19/98 | EPRI-9808-144 | GW | 0.150 | 7.50 | 8.0 | 5330 | 5420 | 9.5 |
| EP-79 | 11/11/98 | EPRI-9811-144 | GW | 1.60 | 7.67 | 7.8 | 4710 | 4650 | 9.3 |
| EP-79 | 2/18/99 | EPRI-9902-144 | GW | 1.00 | 7.61 | 7.8 | 4650 | 4660 | 10 |
| EP-79 | 5/11/99 | EPRI-9905-145 | GW | 6.70 | 7.41 | 8.2 | 4900 | J3 | 4790 |
| EP-79 | 08/09/99 | EPRI-9908-145 | GW | 0.4 | 7.53 | 8 | 4730 | 4770 | 9.5 |
| EP-79 | 10/31/99 | EPRI-9911-145 | GW | | 7.27 | 8 | 4500 | 4480 | 7.5 |
| EP-79 | 01/28/00 | EPRI-0002-145 | GW | 0.2 | 7.48 | 8 | 4700 | 4520 | 11 |
| EP-79 | 01/28/00 | EPRI-0002-227 | GW | 0.1 | 7.48 | 8 | 4710 | 4520 | 11 |
| Average | | | | 1.19 | 7.48 | 7.98 | 4837 | 5086 | 10 |
| Median | | | | 0.63 | 7.48 | 8 | 4810 | 4780 | 10 |
| Standard Deviation | | | | 1.88 | 0.10 | 0.14 | 220 | 759 | 1 |
| Minimum | | | | 0.10 | 7.27 | 7.80 | 4500 | 4480 | 8 |
| Maximum | | | | 6.70 | 7.67 | 8.20 | 5330 | 6700 | 11 |
| EP-80 | 08/13/97 | EPRI-9708-145 | GW | 0.31 | 7.23 | 7.70 | 5040 | 5040 | 1.4 |
| EP-80 | 11/17/97 | EPRI-9711-145 | GW | 2.9 | 7.05 | 7.90 | 5100 | 6840 | 5 |
| EP-80 | 02/05/98 | EPRI-9802-145 | GW | 0.88 | 7.14 | 7.40 | 5040 | 6190 | 7.1 |
| EP-80 | 05/13/98 | EPRI-9805-145 | GW | 0.68 | 7.26 | 7.60 | 4960 | 5020 | 5.2 |
| EP-80 | 8/19/98 | EPRI-9808-145 | GW | 2.15 | 7.27 | 8.0 | 5180 | 5300 | 0.084 |
| EP-80 | 11/11/98 | EPRI-9811-145 | GW | 1.90 | 7.38 | 7.5 | 5130 | 5040 | 5.1 |
| EP-80 | 2/18/99 | EPRI-9902-145 | GW | 1.90 | 7.30 | 7.5 | 5290 | 5230 | 9.8 |
| EP-80 | 5/11/99 | EPRI-9905-146 | GW | 0.600 | 7.19 | 7.9 | 5170 | J3 | 5240 |
| EP-80 | 08/09/99 | EPRI-9908-146 | GW | 0.2 | 7.27 | 7.8 | 5240 | 5250 | 0.073 |
| EP-80 | 10/27/99 | EPRI-9911-146 | GW | 0.6 | 6.96 | 8.3 | 5320 | 5280 | 7.4 |
| EP-80 | 01/28/00 | EPRI-0002-146 | GW | 0.8 | 7.22 | 8.1 | 5130 | 4870 | 2.4 |
| Average | | | | 1.17 | 7.21 | 7.79 | 5145 | 5391 | 4 |
| Median | | | | 0.80 | 7.23 | 7.8 | 5130 | 5240 | 5 |
| Standard Deviation | | | | 0.88 | 0.12 | 0.28 | 110 | 590 | 3 |
| Minimum | | | | 0.20 | 6.96 | 7.40 | 4960 | 4870 | 0 |
| Maximum | | | | 2.90 | 7.38 | 8.30 | 5320 | 6840 | 10 |
| EP-81 | 08/13/97 | EPRI-9708-146 | GW | 2.82 | 7.01 | 7.70 | 2550 | 2530 | 6.2 |
| EP-81 | 11/17/97 | EPRI-9711-146 | GW | 2.88 | 6.90 | 7.80 | 2390 | 3290 | 8.2 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fl) | pH (fl) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fl) | NO3+N02 as N |
|--------------------|----------|---------------|------|-------------|------------|-------------|--------------------------------------|-------------------------------------|-----------------|
| EP-81 | 02/05/98 | EPRI-9802-146 | GW | 2.94 | 7.00 | 7.50 | 2560 | 2980 | 9.4 |
| EP-81 | 05/14/98 | EPRI-9805-149 | GW | 3.44 | 7.04 | 7.40 | 2540 | 2630 | 7.9 |
| EP-81 | 8/19/98 | EPRI-9808-146 | GW | 0.700 | 7.08 | 7.6 | 2630 | 2720 | 6.9 |
| EP-81 | 11/11/98 | EPRI-9811-146 | GW | 3.60 | 7.10 | 7.3 | 2430 | 2370 | 12 |
| EP-81 | 2/18/99 | EPRI-9902-146 | GW | 4.70 | 7.19 | 7.4 | 2550 | 2590 | 9.7 |
| EP-81 | 5/11/99 | EPRI-9905-147 | GW | 6.80 | 7.00 | 7.8 | 2530 | J3 2570 | 9.5 |
| EP-81 | 08/09/99 | EPRI-9908-147 | GW | 3.6 | 7.12 | 7.7 | 2830 | 3150 | 7.9 |
| EP-81 | 10/27/99 | EPRI-9911-147 | GW | 4.9 | 6.83 | 8.1 | 2750 | 2710 | 8 |
| EP-81 | 01/28/00 | EPRI-0002-147 | GW | 3.5 | 7.09 | 7.7 | 3310 | 2930 | 6.7 |
| Average | | | | 3.63 | 7.03 | 7.64 | 2643 | 2770 | 8 |
| Median | | | | 3.50 | 7.04 | 7.7 | 2550 | 2710 | 8 |
| Standard Deviation | | | | 1.52 | 0.10 | 0.23 | 255 | 283 | 2 |
| Minimum | | | | 0.70 | 6.83 | 7.30 | 2390 | 2370 | 6 |
| Maximum | | | | 6.80 | 7.19 | 8.10 | 3310 | 3290 | 12 |
| EP-82 | 08/13/97 | EPRI-9708-147 | GW | 1.31 | 7.06 | 7.70 | 3980 | 3960 | 8.9 |
| EP-82 | 11/18/97 | EPRI-9711-147 | GW | 2.15 | 7.03 | 8.00 | 3250 | UJ1 4070 | 6.4 |
| EP-82 | 02/11/98 | EPRI-9802-147 | GW | 1.73 | 6.94 | 7.60 | 4320 | 5360 | 9.1 |
| EP-82 | 05/14/98 | EPRI-9805-147 | GW | 0.67 | 7.12 | 7.60 | 4740 | 4780 | 10 |
| EP-82 | 8/19/98 | EPRI-9808-147 | GW | 0.430 | 7.16 | 7.7 | 4880 | 5000 | 8.7 |
| EP-82 | 11/11/98 | EPRI-9811-147 | GW | 1.60 | 7.33 | 7.4 | 4880 | 4820 | 9.5 |
| EP-82 | 2/18/99 | EPRI-9902-147 | GW | 0.500 | 7.28 | 7.6 | 4720 | 4770 | 10 |
| EP-82 | 5/11/99 | EPRI-9905-148 | GW | 1.50 | 7.15 | 7.8 | 4870 | J3 4970 | 10 |
| EP-82 | 08/09/99 | EPRI-9908-148 | GW | 0.4 | 7.23 | 7.7 | 4490 | 4560 | 7.8 |
| EP-82 | 10/31/99 | EPRI-9911-148 | GW | | 7.01 | 7.7 | 3600 | 3580 | 6 |
| EP-82 | 01/27/00 | EPRI-0002-148 | GW | 0.3 | 7.12 | 8.1 | 4340 | 4140 | 11 |
| Average | | | | 1.06 | 7.13 | 7.72 | 4370 | 4546 | 9 |
| Median | | | | 0.99 | 7.12 | 7.7 | 4490 | 4770 | 9 |
| Standard Deviation | | | | 0.67 | 0.12 | 0.19 | 552 | 538 | 2 |
| Minimum | | | | 0.30 | 6.94 | 7.40 | 3250 | 3580 | 6 |
| Maximum | | | | 2.15 | 7.33 | 8.10 | 4880 | 5360 | 11 |
| EP-83 | 08/13/97 | EPRI-9708-148 | GW | 5.75 | 7.47 | 8.00 | 3940 | 3960 | 8.2 |
| EP-83 | 11/18/97 | EPRI-9711-148 | GW | 4.42 | 7.36 | 8.20 | 3940 | UJ1 4930 | 6.5 |
| EP-83 | 02/06/98 | EPRI-9802-148 | GW | 6.33 | 7.51 | 7.80 | 3720 | 4670 | 7.6 |
| EP-83 | 05/13/98 | EPRI-9805-148 | GW | 4.85 | 7.51 | 7.80 | 3840 | 3880 | 9.1 |
| EP-83 | 8/19/98 | EPRI-9808-148 | GW | 3.40 | 7.53 | 8.0 | 3930 | 4040 | 7.5 |
| EP-83 | 11/12/98 | EPRI-9811-148 | GW | | 7.60 | 7.7 | 3680 | 3470 | 7.9 |
| EP-83 | 2/22/99 | EPRI-9902-148 | GW | 6.00 | 7.58 | 7.8 | 3880 | 4510 | 8.3 |
| EP-83 | 2/22/99 | EPRI-9902-192 | GW | 5.80 | 7.57 | 7.8 | 3870 | 4510 | 6.1 |
| EP-83 | 5/11/99 | EPRI-9905-149 | GW | 5.60 | 7.51 | 8.0 | 3710 | J3 3850 | 8.2 |
| EP-83 | 08/09/99 | EPRI-9908-149 | GW | 4.9 | 7.48 | 7.9 | 3870 | 3910 | 8 |
| EP-83 | 10/30/99 | EPRI-9911-149 | GW | | 7.22 | 7.8 | 3900 | 3920 | 7.1 |
| EP-83 | 10/30/99 | EPRI-9911-229 | GW | | | 7.8 | 3910 | | 6.8 |
| EP-83 | 01/27/00 | EPRI-0002-149 | GW | 5.8 | 7.47 | 8.3 | 3900 | 3710 | 9.8 |
| EP-83 | 01/27/00 | EPRI-0002-226 | GW | 5.7 | 7.46 | 8.2 | 3910 | 3710 | 9.9 |
| Average | | | | 5.32 | 7.48 | 7.94 | 3857 | 4082 | 8 |
| Median | | | | 5.70 | 7.51 | 7.85 | 3890 | 3920 | 8 |
| Standard Deviation | | | | 0.85 | 0.10 | 0.19 | 88 | 433 | 1 |
| Minimum | | | | 3.40 | 7.22 | 7.70 | 3680 | 3470 | 6 |
| Maximum | | | | 6.33 | 7.60 | 8.30 | 3940 | 4930 | 10 |
| EP-84 | 08/13/97 | EPRI-9708-149 | GW | 3.33 | 7.39 | 7.90 | 1958 | 1908 | 8.4 |
| EP-84 | 11/18/97 | EPRI-9711-149 | GW | 1.37 | 7.16 | 8.10 | 2650 | UJ1 3260 | 7.2 |
| EP-84 | 02/06/98 | EPRI-9802-149 | GW | 1.35 | 7.18 | 7.40 | 2990 | 3470 | 11 |
| EP-84 | 05/13/98 | EPRI-9805-146 | GW | 2.28 | 7.22 | 7.50 | 3040 | 3050 | 10 |
| EP-84 | 8/19/98 | EPRI-9808-149 | GW | 1.97 | 7.25 | 7.8 | 2780 | 2820 | 6.6 |
| EP-84 | 11/12/98 | EPRI-9811-149 | GW | | 7.31 | 7.6 | 2980 | 2790 | 9.7 |
| EP-84 | 2/22/99 | EPRI-9902-149 | GW | 3.30 | 7.21 | 7.5 | 3070 | 3370 | 9.3 |
| EP-84 | 5/11/99 | EPRI-9905-150 | GW | 2.90 | 7.23 | 7.9 | 3030 | J3 3080 | 9.4 |
| EP-84 | 08/09/99 | EPRI-9908-150 | GW | 2.7 | 7.44 | 7.9 | 1838 | 1854 | 6 |
| EP-84 | 10/30/99 | EPRI-9911-150 | GW | | 6.88 | 7.4 | 3080 | 3070 | 7.1 |
| EP-84 | 01/27/00 | EPRI-0002-150 | GW | 0.8 | 7.12 | 8 | 3090 | 2920 | 11 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| Average | | | | 2.22 | 7.22 | 7.73 | 2773 | 2872 | 9 |
| Median | | | | 2.28 | 7.22 | 7.8 | 2990 | 3050 | 9 |
| Standard Deviation | | | | 0.91 | 0.15 | 0.25 | 454 | 534 | 2 |
| Minimum | | | | 0.80 | 6.88 | 7.40 | 1838 | 1854 | 6 |
| Maximum | | | | 3.33 | 7.44 | 8.10 | 3090 | 3470 | 11 |
| EP-85 | 08/13/97 | EPRI-9708-150 | GW | 0.32 | 7.33 | 8.00 | 2900 | 2890 | 7.3 |
| EP-85 | 11/17/97 | EPRI-9711-150 | GW | 0.35 | 7.30 | 8.00 | 2300 | 2950 | 5.8 |
| EP-85 | 02/05/98 | EPRI-9802-150 | GW | 0.61 | 7.34 | 7.70 | 2600 | 3140 | 7.5 |
| EP-85 | 05/14/98 | EPRI-9805-150 | GW | 0.52 | 7.39 | 7.70 | 2970 | 3010 | 7.1 |
| EP-85 | 8/19/98 | EPRI-9808-150 | GW | 0.140 | 7.38 | 7.8 | 3240 | 3340 | 6.8 |
| EP-85 | 8/19/98 | EPRI-9808-180 | GW | | | 7.8 | 3250 | | 6.7 |
| EP-85 | 11/11/98 | EPRI-9811-150 | GW | 1.50 | 7.51 | 7.7 | 2850 | 2800 | 7.6 |
| EP-85 | 2/18/99 | EPRI-9902-150 | GW | 0.400 | 7.45 | 7.6 | 2770 | 2780 | 7.2 |
| EP-85 | 2/18/99 | EPRI-9902-189 | GW | 0.400 | 7.45 | 7.7 | 2770 | 2780 | 6.6 |
| EP-85 | 5/11/99 | EPRI-9905-151 | GW | 0.500 | 7.32 | 8.0 | 3070 | J3 3120 | 6.8 |
| EP-85 | 08/09/99 | EPRI-9908-151 | GW | 0.5 | 7.38 | 7.8 | 3200 | 3230 | 6.7 |
| EP-85 | 08/09/99 | EPRI-9908-202 | GW | 0.5 | 7.38 | 7.8 | 3190 | 3220 | 7.7 |
| EP-85 | 10/27/99 | EPRI-9911-151 | GW | 0.5 | 7.15 | 8.1 | 2700 | 2700 | 6.6 |
| EP-85 | 10/27/99 | EPRI-9911-224 | GW | 0.5 | 7.15 | 8.2 | 2700 | 2700 | 5.8 |
| EP-85 | 01/28/00 | EPRI-0002-151 | GW | 0.2 | 7.31 | 7.9 | 3000 | 2870 | 6.4 |
| Average | | | | 0.50 | 7.35 | 7.85 | 2901 | 2966 | 7 |
| Median | | | | 0.50 | 7.36 | 7.8 | 2900 | 2920 | 7 |
| Standard Deviation | | | | 0.32 | 0.10 | 0.17 | 270 | 212 | 1 |
| Minimum | | | | 0.14 | 7.15 | 7.60 | 2300 | 2700 | 6 |
| Maximum | | | | 1.50 | 7.51 | 8.20 | 3250 | 3340 | 8 |
| EP-86 | 08/13/97 | EPRI-9708-151 | GW | 7.68 | 7.63 | 8.00 | 2630 | 2610 | 6.6 |
| EP-86 | 11/18/97 | EPRI-9711-151 | GW | 5.56 | 7.54 | 8.30 | 2650 | JU1 3240 | 5.9 |
| EP-86 | 02/06/98 | EPRI-9802-151 | GW | 6 | 7.53 | 7.80 | 2640 | 3300 | 5.8 |
| EP-86 | 05/14/98 | EPRI-9805-151 | GW | 8.01 | 7.70 | 7.90 | 2640 | 2670 | 5.6 |
| EP-86 | 8/19/98 | EPRI-9808-151 | GW | 7.66 | 7.67 | 8.1 | 2660 | 2690 | 5.8 |
| EP-86 | 11/12/98 | EPRI-9811-151 | GW | | 7.45 | 7.9 | 2640 | 2480 | 6.8 |
| EP-86 | 11/12/98 | EPRI-9811-181 | GW | | | 7.9 | 2640 | | 6.6 |
| EP-86 | 2/18/99 | EPRI-9902-151 | GW | 6.50 | 7.74 | 7.9 | 2600 | 2600 | 6.2 |
| EP-86 | 5/11/99 | EPRI-9905-152 | GW | 8.70 | 7.69 | 8.2 | 2570 | J3 2600 | 5.6 |
| EP-86 | 08/09/99 | EPRI-9908-152 | GW | 6.9 | 7.66 | 8.1 | 2600 | 2600 | 5.8 |
| EP-86 | 10/31/99 | EPRI-9911-152 | GW | | 7.34 | 7.9 | 2640 | 2620 | 4.9 |
| EP-86 | 10/31/99 | EPRI-9911-231 | GW | | | 8 | 2650 | | 4.9 |
| EP-86 | 01/27/00 | EPRI-0002-152 | GW | 7.5 | 7.58 | 8.2 | 2640 | 2520 | 8.2 |
| Average | | | | 7.17 | 7.59 | 8.02 | 2631 | 2721 | 6 |
| Median | | | | 7.50 | 7.63 | 8 | 2640 | 2610 | 6 |
| Standard Deviation | | | | 1.01 | 0.12 | 0.15 | 25 | 278 | 1 |
| Minimum | | | | 5.56 | 7.34 | 7.80 | 2570 | 2480 | 5 |
| Maximum | | | | 8.70 | 7.74 | 8.30 | 2660 | 3300 | 8 |
| EP-87 | 09/15/97 | EPRI-9708-152 | GW | | | 7.50 | 546 | | 1.5 |
| EP-87 | 11/18/97 | EPRI-9711-152 | GW | 4.7 | 7.49 | 8.20 | 560 | JU1 685 | 2.2 |
| EP-87 | 02/06/98 | EPRI-9802-152 | GW | | | | | | |
| EP-87 | 08/10/99 | EPRI-9908-153 | GW | 3.4 | 7.34 | 7.8 | 666 | 688 | 0.77 |
| Average | | | | 4.05 | 7.42 | 7.83 | 591 | 687 | 1 |
| Median | | | | 4.05 | 7.415 | 7.8 | 560 | 687 | 2 |
| Standard Deviation | | | | 0.92 | 0.11 | 0.35 | 66 | 2 | 1 |
| Minimum | | | | 3.40 | 7.34 | 7.50 | 546 | 685 | 1 |
| Maximum | | | | 4.70 | 7.49 | 8.20 | 666 | 688 | 2 |
| EP-88 | 08/12/97 | EPRI-9708-153 | GW | 0.73 | 7.35 | 8.40 | 5150 | 5370 | 1.7 |
| EP-88 | 11/11/97 | EPRI-9711-153 | GW | 0.43 | 7.41 | 7.90 | 5240 | 5980 | 1 |
| EP-88 | 02/12/98 | EPRI-9802-153 | GW | 1.53 | 7.24 | 7.80 | 5320 | 6600 | 0.81 |
| EP-88 | 05/11/98 | EPRI-9805-153 | GW | 1.21 | 7.60 | 8.00 | 5370 | 5860 | 0.95 |
| EP-88 | 8/17/98 | EPRI-9808-153 | GW | 0.850 | 7.31 | 7.7 | 5400 | 5460 | 0.9 |
| EP-88 | 11/11/98 | EPRI-9811-153 | GW | 4.90 | 7.40 | 7.6 | 4940 | 4710 | 2.2 |
| EP-88 | 2/11/99 | EPRI-9902-153 | GW | 1.30 | 7.53 | 8.2 | 5350 | 5360 | 0.51 |
| EP-88 | 5/7/99 | EPRI-9905-154 | GW | 0.900 | 7.34 | 7.9 | 5340 | 5810 | 2.3 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|--------------------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-88 | 08/05/99 | EPRI-9908-154 | GW | 4.4 | 7.34 | 8.1 | 5070 | 5930 | 1.7 |
| EP-88 | 10/30/99 | EPRI-9911-154 | GW | | 7.13 | 7.7 | 5300 | 5360 | 2.4 |
| EP-88 | 01/26/00 | EPRI-0002-154 | GW | 2.3 | 7.4 | 8.6 | 5220 | 4970 | 3.1 |
| EP-88 | 01/26/00 | EPRI-0002-223 | GW | 1.7 | 7.41 | 8.2 | 5230 | 5180 | 3 |
| Average | | | | 1.84 | 7.37 | 8.01 | 5244 | 5549 | 2 |
| Median | | | | 1.30 | 7.375 | 7.95 | 5270 | 5415 | 2 |
| Standard Deviation | | | | 1.48 | 0.12 | 0.30 | 135 | 512 | 1 |
| Minimum | | | | 0.43 | 7.13 | 7.60 | 4940 | 4710 | 1 |
| Maximum | | | | 4.90 | 7.60 | 8.60 | 5400 | 6600 | 3 |
| EP-89 | 08/12/97 | EPRI-9708-154 | GW | 5.34 | 7.04 | 7.90 | 2780 | 2800 | 8.3 |
| EP-89 | 11/13/97 | EPRI-9711-154 | GW | 3.98 | 7.12 | 7.40 | 2770 | 3350 | 9 |
| EP-89 | 02/11/98 | EPRI-9802-154 | GW | 4.09 | 7.00 | 7.70 | 2770 | 3600 | 9.8 |
| EP-89 | 05/13/98 | EPRI-9805-154 | GW | 4.05 | 7.29 | 7.70 | 2780 | 2770 | 7.7 |
| EP-89 | 8/13/98 | EPRI-9808-154 | GW | 3.55 | 7.17 | 7.9 | 2840 | 2810 | 8.1 |
| EP-89 | 11/10/98 | EPRI-9811-154 | GW | 5.30 | 7.19 | 7.5 | 2860 | 2830 | 8.2 |
| EP-89 | 2/10/99 | EPRI-9902-154 | GW | 3.70 | 7.32 | 8.0 | 2770 | 2810 | 7.6 |
| EP-89 | 5/7/99 | EPRI-9905-155 | GW | 4.20 | 7.17 | 7.8 | 2790 | 2990 | 7.1 |
| EP-89 | 08/05/99 | EPRI-9908-155 | GW | | 7.24 | 7.9 | 2850 | 3220 | 9.8 |
| EP-89 | 08/05/99 | EPRI-9908-198 | GW | | 7.24 | 8 | 2860 | 3220 | 9.4 |
| EP-89 | 10/28/99 | EPRI-9911-155 | GW | 2.8 | 6.92 | 8.1 | 2880 | 2580 | 7.6 |
| EP-89 | 10/28/99 | EPRI-9911-225 | GW | 2.8 | 6.92 | 8.1 | 2880 | 2580 | 7.3 |
| EP-89 | 01/24/00 | EPRI-0002-155 | GW | 3.5 | 7.14 | 7.9 | 2810 | 2750 | 9.2 |
| Average | | | | 3.94 | 7.14 | 7.84 | 2818 | 2947 | 8 |
| Median | | | | 3.98 | 7.17 | 7.9 | 2810 | 2810 | 8 |
| Standard Deviation | | | | 0.83 | 0.13 | 0.21 | 44 | 310 | 1 |
| Minimum | | | | 2.80 | 6.92 | 7.40 | 2770 | 2580 | 7 |
| Maximum | | | | 5.34 | 7.32 | 8.10 | 2880 | 3600 | 10 |
| EP-9 | 05/07/98 | EPRI-9805-178 | GW | 1.12 | 7.1 | 8.1 | 2650 | 3220 | 12 |
| EP-90 | 12/12/97 | EPRI-9711-139 | GW | 0 | 7.41 | 8.10 | 2920 | 3700 | 10 |
| EP-90 | 02/17/98 | EPRI-9802-139 | GW | 5.13 | 7.12 | 7.80 | 2950 | 3920 | 14 |
| EP-90 | 05/13/98 | EPRI-9805-139 | GW | 3.68 | 7.39 | 7.80 | 2900 | 2740 | 12 |
| EP-90 | 8/17/98 | EPRI-9808-139 | GW | 1.91 | 7.42 | 7.8 | 2380 | 2390 | 8.3 |
| EP-90 | 11/5/98 | EPRI-9811-139 | GW | 1.70 | 7.43 | 7.6 | 2660 | 512 | R 11 |
| EP-90 | 2/11/99 | EPRI-9902-155 | GW | 1.20 | 7.41 | 7.9 | 3340 | 3320 | 12 |
| EP-90 | 5/10/99 | EPRI-9905-156 | GW | 4.40 | 7.01 | 7.7 | 4090 | 4360 | 32 |
| EP-90 | 08/05/99 | EPRI-9908-156 | GW | 1.1 | 7.19 | 7.8 | 4960 | 4960 | 38 |
| EP-90 | 10/30/99 | EPRI-9911-156 | GW | | 6.92 | 7.6 | 4660 | 4680 | 28 |
| EP-90 | 01/24/00 | EPRI-0002-156 | GW | 0.5 | 7.17 | 7.8 | 5340 | 5010 | 33 |
| Average | | | | 2.18 | 7.25 | 7.79 | 3620 | 3559 | 20 |
| Median | | | | 1.70 | 7.29 | 7.8 | 3145 | 3810 | 13 |
| Standard Deviation | | | | 1.80 | 0.19 | 0.14 | 1057 | 1394 | 11 |
| Minimum | | | | 0.00 | 6.92 | 7.60 | 2380 | 512 | 8 |
| Maximum | | | | 5.13 | 7.43 | 8.10 | 5340 | 5010 | 38 |
| EP-93 | 10/13/99 | EPRI-9911-192 | GW | 4.6 | 7.33 | 7.7 | 5100 | 5180 | 11 |
| EP-93 | 01/27/00 | EPRI-0002-157 | GW | 3.4 | 7.31 | 8.1 | 5210 | 4890 | 9.5 |
| Average | | | | 0.5 | 7.045 | 7.7 | 5000 | 4845 | 30.5 |
| Median | | | | 0.5 | 7.045 | 7.7 | 5000 | 4845 | 30.5 |
| Standard Deviation | | | | #DIV/0! | 0.176777 | 0.141421 | 480.8326112 | 233.3452378 | 3.535533906 |
| Minimum | | | | 0.5 | 6.92 | 7.6 | 4660 | 4680 | 28 |
| Maximum | | | | 0.5 | 7.17 | 7.8 | 5340 | 5010 | 33 |
| EP-94 | 10/13/99 | EPRI-9911-194 | GW | 5.9 | 7.18 | 7.6 | 5040 | 5110 | 14 |
| EP-94 | 01/27/00 | EPRI-0002-158 | GW | 2 | 7.31 | 8 | 4870 | 4580 | 7.9 |
| Average | | | | 3.95 | 7.25 | 7.80 | 4955 | 4845 | 11 |
| Median | | | | 3.95 | 7.245 | 7.8 | 4955 | 4845 | 11 |
| Minimum | | | | 2.00 | 7.18 | 7.60 | 4870 | 4580 | 8 |
| Maximum | | | | 5.90 | 7.31 | 8.00 | 5040 | 5110 | 14 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|---------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-95 | 10/26/99 | EPRI-9911-159 | GW | | 6.67 | 8.3 | 3340 | 3110 | 7.8 |
| EP-95 | 01/27/00 | EPRI-0002-159 | GW | 6 | 7.66 | 8.3 | 3380 | 3200 | 9.6 J3 |
| Average | | | | 6.00 | 7.17 | 8.30 | 3360 | 3155 | 9 |
| Median | | | | 6.00 | 7.165 | 8.3 | 3360 | 3155 | 9 |
| Minimum | | | | 6.00 | 6.67 | 8.30 | 3340 | 3110 | 8 |
| Maximum | | | | 6.00 | 7.66 | 8.30 | 3380 | 3200 | 10 |
| EP-96 | 10/13/99 | EPRI-9911-193 | GW | 6.6 | 7.27 | 7.7 | 4960 | 5090 | 15 |
| EP-96 | 01/27/00 | EPRI-0002-160 | GW | 3.8 | 7.21 | 8 | 4930 | 4680 | 15 J3 |
| Average | | | | 5.20 | 7.24 | 7.85 | 4945 | 4885 | 15 |
| Median | | | | 5.20 | 7.24 | 7.85 | 4945 | 4885 | 15 |
| Minimum | | | | 3.80 | 7.21 | 7.70 | 4930 | 4680 | 15 |
| Maximum | | | | 6.60 | 7.27 | 8.00 | 4960 | 5090 | 15 |
| EP-97 | 10/18/99 | EPRI-9911-196 | GW | 6.8 | 7.16 | 7.8 | 4940 | 5030 | 0.37 |
| EP-97 | 01/27/00 | EPRI-0002-161 | GW | 1 | 7.36 | 8.1 | 5020 | 4880 | 0.46 UJ1,J3 |
| Average | | | | 3.90 | 7.26 | 7.95 | 4980 | 4955 | 0 |
| Median | | | | 3.90 | 7.26 | 7.95 | 4980 | 4955 | 0 |
| Minimum | | | | 1.00 | 7.16 | 7.80 | 4940 | 4880 | 0 |
| Maximum | | | | 6.80 | 7.36 | 8.10 | 5020 | 5030 | 0 |
| EP-98 | 10/18/99 | EPRI-9911-197 | GW | 4.9 | 7.66 | 8.1 | 6370 | 6930 | 12 |
| EP-98 | 01/27/00 | EPRI-0002-162 | GW | 2.6 | 7.72 | 8.1 | 7370 | 6960 | 18 J3 |
| Average | | | | 3.75 | 7.69 | 8.10 | 6870 | 6945 | 15 |
| Median | | | | 3.75 | 7.69 | 8.1 | 6870 | 6945 | 15 |
| Minimum | | | | 2.60 | 7.66 | 8.10 | 6370 | 6930 | 12 |
| Maximum | | | | 4.90 | 7.72 | 8.10 | 7370 | 6960 | 18 |
| EP-99 | 10/18/99 | EPRI-9911-195 | GW | 9.1 | 7.03 | 7.6 | 5600 | 5660 | 68 |
| EP-100 | 10/20/99 | EPRI-9911-198 | GW | 3.7 | 6.63 | 8 | 8830 | 9410 | 142 |
| EP-100 | 01/26/00 | EPRI-0002-164 | GW | 1 | 6.75 | 7.5 | 9870 | 9230 | 250 J3 |
| Average | | | | 2.35 | 6.69 | 7.75 | 9350 | 9320 | 196 |
| Median | | | | 2.35 | 6.69 | 7.75 | 9350 | 9320 | 196 |
| Minimum | | | | 1.00 | 6.63 | 7.50 | 8830 | 9230 | 142 |
| Maximum | | | | 3.70 | 6.75 | 8.00 | 9870 | 9410 | 250 |
| EP-101 | 10/21/99 | EPRI-9911-199 | GW | 2.7 | 6.99 | 7.7 | 7220 | 7270 | 64 |
| EP-101 | 01/25/00 | EPRI-0002-165 | GW | 2.1 | 7.26 | 7.8 | 8680 | 8860 | 77 |
| Average | | | | 2.40 | 7.13 | 7.75 | 7950 | 8065 | 71 |
| Median | | | | 2.40 | 7.125 | 7.75 | 7950 | 8065 | 71 |
| Minimum | | | | 2.10 | 6.99 | 7.70 | 7220 | 7270 | 64 |
| Maximum | | | | 2.70 | 7.26 | 7.80 | 8680 | 8860 | 77 |
| EP-102 | 10/21/99 | EPRI-9911-200 | GW | 3.2 | 7.05 | 7.8 | 2960 | 2860 | 10 |
| EP-102 | 01/25/00 | EPRI-0002-166 | GW | 0.6 | 7.24 | 7.9 | 2870 | 2810 | 5.6 J4 |
| Average | | | | 1.90 | 7.15 | 7.85 | 2815 | 2835 | 8 |
| Median | | | | 1.90 | 7.145 | 7.85 | 2815 | 2835 | 8 |
| Minimum | | | | 0.60 | 7.05 | 7.80 | 2760 | 2810 | 6 |
| Maximum | | | | 3.20 | 7.24 | 7.90 | 2870 | 2860 | 10 |
| EP-103 | 10/21/99 | EPRI-9911-201 | GW | 4.6 | 7.21 | 8 | 1590 | 1618 | 3.4 |
| EP-103 | 01/24/00 | EPRI-0002-167 | GW | 3.9 | 7.34 | 8.3 | 1498 | 1465 | 1.1 |
| Average | | | | 4.25 | 7.28 | 8.15 | 1544 | 1542 | 2 |
| Median | | | | 4.25 | 7.275 | 8.15 | 1544 | 1542 | 2 |
| Minimum | | | | 3.90 | 7.21 | 8.00 | 1498 | 1465 | 1 |
| Maximum | | | | 4.60 | 7.34 | 8.30 | 1590 | 1618 | 3 |
| EP-104 | 10/21/99 | EPRI-9911-202 | GW | 2.1 | 7.11 | 7.8 | 4600 | 4650 | 10 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|---------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| EP-104 | 01/24/00 | EPRI-0002-168 | GW | 1.5 | 7.28 | 8.1 | 4640 | 4510 | 10 |
| Average | | | | 1.80 | 7.20 | 7.95 | 4620 | 4580 | 10 |
| Median | | | | 1.80 | 7.195 | 7.95 | 4620 | 4580 | 10 |
| Minimum | | | | 1.50 | 7.11 | 7.80 | 4600 | 4510 | 10 |
| Maximum | | | | 2.10 | 7.28 | 8.10 | 4640 | 4650 | 10 |
| EP-105 | 10/21/99 | EPRI-9911-204 | GW | 4 | 7.15 | 8 | 4460 | 4600 | 4.5 |
| EP-105 | 01/25/00 | EPRI-0002-169 | GW | 3.1 | 7.43 | 8 | 3780 | 3590 | 2.7 |
| Average | | | | 3.55 | 7.29 | 8.00 | 4120 | 4095 | 4 |
| Median | | | | 3.55 | 7.29 | 8 | 4120 | 4095 | 4 |
| Minimum | | | | 3.10 | 7.15 | 8.00 | 3780 | 3590 | 3 |
| Maximum | | | | 4.00 | 7.43 | 8.00 | 4460 | 4600 | 5 |
| EP-106 | 10/21/99 | EPRI-9911-205 | GW | 5.6 | 7.14 | 7.7 | 4180 | 4300 | 6.6 |
| EP-106 | 01/25/00 | EPRI-0002-170 | GW | 1.4 | 7.08 | 7.7 | 4950 | 4860 | 9.2 |
| Average | | | | 3.50 | 7.11 | 7.70 | 4565 | 4580 | 8 |
| Median | | | | 3.50 | 7.11 | 7.7 | 4565 | 4580 | 8 |
| Minimum | | | | 1.40 | 7.08 | 7.70 | 4180 | 4300 | 7 |
| Maximum | | | | 5.60 | 7.14 | 7.70 | 4950 | 4860 | 9 |
| EP-107 | 10/21/99 | EPRI-9911-203 | GW | 5.2 | 6.99 | 7.8 | 6450 | 6500 | 90 |
| EP-107 | 01/24/00 | EPRI-0002-171 | GW | 2.1 | 7.17 | 7.7 | 6450 | 6270 | 88 |
| Average | | | | 3.65 | 7.08 | 7.75 | 6450 | 6385 | 89 |
| Median | | | | 3.65 | 7.08 | 7.75 | 6450 | 6385 | 89 |
| Minimum | | | | 2.10 | 6.99 | 7.70 | 6450 | 6270 | 88 |
| Maximum | | | | 5.20 | 7.17 | 7.80 | 6450 | 6500 | 90 |
| EP-108 | 10/26/99 | EPRI-9911-172 | GW | | 6.64 | 8.3 | 2810 | 2850 | 4.2 |
| EP-108 | 01/28/00 | EPRI-0002-172 | GW | 1.5 | 7.52 | 8.2 | 3500 | 3360 | 6.3 |
| Average | | | | 1.50 | 7.08 | 8.25 | 3155 | 3105 | 5 |
| Median | | | | 1.50 | 7.08 | 8.25 | 3155 | 3105 | 5 |
| Minimum | | | | 1.50 | 6.64 | 8.20 | 2810 | 2850 | 4 |
| Maximum | | | | 1.50 | 7.52 | 8.30 | 3500 | 3360 | 6 |
| EP-109 | 10/26/99 | EPRI-9911-173 | GW | | 6.53 | 8.3 | 3470 | 3330 | 5.2 |
| EP-109 | 01/28/00 | EPRI-0002-173 | GW | 3.1 | 7.4 | 7.9 | 4000 | 3850 | 5.8 |
| Average | | | | 3.10 | 6.97 | 8.10 | 3735 | 3590 | 6 |
| Median | | | | 3.10 | 6.965 | 8.1 | 3735 | 3590 | 6 |
| Minimum | | | | 3.10 | 6.53 | 7.90 | 3470 | 3330 | 5 |
| Maximum | | | | 3.10 | 7.40 | 8.30 | 4000 | 3850 | 6 |
| EP-110 | 10/29/99 | EPRI-9911-174 | GW | 4 | 6.99 | 8.4 | 2780 | 2510 | 7.1 |
| EP-110 | 01/24/00 | EPRI-0002-174 | GW | 3.4 | 7.23 | 7.8 | 2750 | 2700 | 8.8 |
| Average | | | | 3.70 | 7.11 | 8.10 | 2765 | 2605 | 8 |
| Median | | | | 3.70 | 7.11 | 8.1 | 2765 | 2605 | 8 |
| Minimum | | | | 3.40 | 6.99 | 7.80 | 2750 | 2510 | 7 |
| Maximum | | | | 4.00 | 7.23 | 8.40 | 2780 | 2700 | 9 |
| EP-111 | 10/28/99 | EPRI-9911-175 | GW | 3.5 | 7.11 | 7.7 | 5450 | 5410 | 0.2 |
| EP-111 | 01/29/00 | EPRI-0002-175 | GW | 0.1 | 7.21 | 7.8 | 5390 | 5110 | 0.25 |
| Average | | | | 1.80 | 7.16 | 7.75 | 5420 | 5260 | 0 |
| Median | | | | 1.80 | 7.16 | 7.75 | 5420 | 5260 | 0 |
| Minimum | | | | 0.10 | 7.11 | 7.70 | 5390 | 5110 | 0 |
| Maximum | | | | 3.50 | 7.21 | 7.80 | 5450 | 5410 | 0 |
| EP-112 | 10/28/99 | EPRI-9911-176 | GW | 8.5 | 7.32 | 7.8 | 5250 | 5090 | 0.095 |
| EP-112 | 01/29/00 | EPRI-0002-176 | GW | 0.1 | 7.11 | 8 | 7520 | 7130 | 0.27 |
| Average | | | | 4.30 | 7.22 | 7.90 | 6385 | 6110 | 0 |

Table H-6. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Nutrients

| Site | Date | Samp # | Type | (O) (fld) | pH (fld) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | NO3+N02 as N |
|---------|----------|---------------|------|--------------|-------------|-------------|--------------------------------------|--------------------------------------|-----------------|
| Median | | | | 4.30 | 7.215 | 7.9 | 6385 | 6110 | 0 |
| Minimum | | | | 0.10 | 7.11 | 7.80 | 5250 | 5090 | 0 |
| Maximum | | | | 8.50 | 7.32 | 8.00 | 7520 | 7130 | 0 |
| EP-113 | 10/28/99 | EPRI-9911-177 | GW | 7.5 | 7.41 | 8 | 4060 | 4080 | 0.22 UJ1 |
| EP-113 | 01/29/00 | EPRI-0002-177 | GW | 0.1 | 7.3 | 7.6 | 4180 | 4050 | 0.28 J3 |
| Average | | | | 3.80 | 7.36 | 7.80 | 4120 | 4065 | 0 |
| Median | | | | 3.80 | 7.355 | 7.8 | 4120 | 4065 | 0 |
| Minimum | | | | 0.10 | 7.30 | 7.60 | 4060 | 4050 | 0 |
| Maximum | | | | 7.50 | 7.41 | 8.00 | 4180 | 4080 | 0 |
| EP-114 | 11/18/99 | EPRI-9911-178 | GW | 4.4 | 6.19 | 6.7 | 9800 | 10820 | 0.19 |
| EP-114 | 01/31/00 | EPRI-0002-178 | GW | 0.3 | 6.35 | 6.6 | 8480 | 9070 | 18 |
| Average | | | | 2.35 | 6.27 | 6.65 | 9140 | 9945 | 9 |
| Median | | | | 2.35 | 6.27 | 6.65 | 9140 | 9945 | 9 |
| Minimum | | | | 0.30 | 6.19 | 6.60 | 8480 | 9070 | 0 |
| Maximum | | | | 4.40 | 6.35 | 6.70 | 9800 | 10820 | 18 |
| EP-115 | 11/22/99 | EPRI-9911-179 | GW | 3.3 | 7.08 | 7.7 | 17800 | 1842 | R 60 |
| EP-115 | 01/31/00 | EPRI-0002-179 | GW | 1.8 | 6.81 | 7.7 | 11440 | 10470 | 35 |
| Average | | | | 2.55 | 6.95 | 7.70 | 14620 | 6156 | 48 |
| Median | | | | 2.55 | 6.945 | 7.7 | 14620 | 6156 | 48 |
| Minimum | | | | 1.80 | 6.81 | 7.70 | 11440 | 1842 | 35 |
| Maximum | | | | 3.30 | 7.08 | 7.70 | 17800 | 10470 | 60 |
| EP-116 | 11/18/99 | EPRI-9911-180 | GW | 2.4 | 6.56 | 7.3 | 6280 | 6460 | 9.6 |
| EP-116 | 01/31/00 | EPRI-0002-180 | GW | 2.1 | 6.92 | 7.6 | 6480 | 6020 | 8.9 UJ1 |
| Average | | | | 2.25 | 6.74 | 7.45 | 6380 | 6240 | 9 |
| Median | | | | 2.25 | 6.74 | 7.45 | 6380 | 6240 | 9 |
| Minimum | | | | 2.10 | 6.56 | 7.30 | 6280 | 6020 | 9 |
| Maximum | | | | 2.40 | 6.92 | 7.60 | 6480 | 6460 | 10 |
| EP-117 | 11/18/99 | EPRI-9911-181 | GW | 1.4 | 7.23 | 7.8 | 2580 | 2810 | 7.8 |
| EP-117 | 01/31/00 | EPRI-0002-181 | GW | 1.3 | 7.35 | 7.5 | 2640 | 2590 | 6 UJ1 |
| Average | | | | 1.35 | 7.29 | 7.65 | 2610 | 2700 | 7 |
| Median | | | | 1.35 | 7.29 | 7.65 | 2610 | 2700 | 7 |
| Minimum | | | | 1.30 | 7.23 | 7.50 | 2580 | 2590 | 6 |
| Maximum | | | | 1.40 | 7.35 | 7.80 | 2640 | 2810 | 8 |
| EP-118 | 11/18/99 | EPRI-9911-182 | GW | 3.6 | 7.46 | 8 | 3460 | 3780 | 13 |
| EP-118 | 01/31/00 | EPRI-0002-182 | GW | 1.6 | 7.74 | 8 | 3080 | 2950 | 13 |
| Average | | | | 2.60 | 7.60 | 8.00 | 3270 | 3365 | 13 |
| Median | | | | 2.60 | 7.6 | 8 | 3270 | 3365 | 13 |
| Minimum | | | | 1.60 | 7.46 | 8.00 | 3080 | 2950 | 13 |
| Maximum | | | | 3.60 | 7.74 | 8.00 | 3460 | 3780 | 13 |

TABLE H-7

**ANALYTICAL RESULTS FOR COMMON IONS,
GROUNDWATER SAMPLES, EM WELLS**

Table H-7. Summary of Groundwater Analytical Results, August 1997 through February 2000
EM Common Ions

| Site | Date | Samp # | Type | (O) (fl) | pH (lab) | Specific Conductivity SC (lab) | TDS SC (fl) | TSS (CA) DIS | Calcium (MG) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HC _{CO} ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | | |
|--------------------|----------|----------------|------|-------------|-------------|--------------------------------------|----------------|-----------------|---------------------|-----------------------|--------------------|----------------------|---|---|---------------------------------|-------------------------------|------------------|-----------------|------|------|------|------|
| EM-1 | 08/13/97 | EPRI-9708-155 | GW | 4.05 | 7.52 | 7.80 | 5200 | 5210 | 3948 | 58 | 184 | 100 | 900 | 32 | 184 | 224 | 1.0 | U | 1849 | 687 | 0.81 | |
| EM-1 | 11/17/97 | EPRI-9711-155 | GW | 4.96 | 7.20 | 8.00 | 4020 | 6250 | 2899 | 6.6 | 173 | 95 | 857 | 30 | 148 | 181 | 1.0 | U | 1206 | 564 | 0.74 | |
| EM-1 | 02/19/98 | EPRI-9802-155 | GW | 1.64 | 7.39 | 7.50 | 5380 | 6410 | 4192 | 50 | 209 | 122 | 1075 | 28 | 186 | 227 | 1.0 | U | 1695 | 720 | 0.73 | |
| EM-1 | 05/18/98 | EPRI-9805-155 | GW | 3.15 | 7.43 | 7.60 | 5550 | 5480 | 3901 | 122 | 206 | 115 | 1008 | 28 | 186 | 227 | 1.0 | U | 1699 | 743 | 0.81 | |
| EM-1 | 8/20/98 | EPRI-9808-155 | GW | 1.57 | 7.38 | 7.8 | 5360 | 5600 | 4323 | 67 | 201 | 115 | 954 | 31 | 186 | 227 | 1.0 | U | 1808 | 779 | 0.78 | |
| EM-1 | 11/18/98 | EPRI-9811-155 | GW | 2.2 | 7.06 | 7.6 | 5380 | 5540 | 4258 | 59 | 220 | 121 | 983 | 30 | 192 | 234 | 1.0 | U | 1948 | 757 | 0.77 | |
| EM-1 | 02/24/99 | EPRI-9902-167 | GW | 2.2 | 7.46 | 7.6 | 5600 | 6860 | 4338 | 63 | 213 | 115 | 859 | 30 | 185 | 226 | 1.0 | U | 1542 | 74 | 0.87 | |
| EM-1 | 05/12/99 | EPRI-9905-168 | GW | 2.3 | 6.94 | 7.9 | 5670 | 5740 | 4225 | 6.9 | 226 | 158 | 950 | 46 | 182 | 222 | 13 | 1.0 | U | 1880 | 358 | 0.82 |
| EM-1 | 08/11/99 | EPRI-9908-168 | GW | 1.5 | 7.38 | 7.8 | 5610 | 5500 | 4175 | 7.6 | 221 | 127 | 839 | 28 | 180 | 220 | 1.0 | U | 1858 | 759 | 0.86 | |
| EM-1 | 10/30/99 | EPRI-9911-161 | GW | 7.16 | 7.8 | 5000 | 5050 | 4061 | 12 | 210 | 122 | 801 | 27 | 177 | 216 | 1.0 | U | 1554 | 797 | 0.81 | | |
| EM-1 | 01/31/00 | EPRI-0002-195 | GW | 1.02 | 7.26 | 7.8 | 5380 | 5310 | 4038 | 14 | 223 | 126 | 946 | 29 | 180 | 220 | 1.0 | U | 1846 | 762 | 0.77 | |
| Average | | | | 2.46 | 7.29 | 7.75 | 5405 | 5723 | 4033 | 42 | 208 | 120 | 925 | 31 | 181 | 220 | 1.0 | | 1717 | 695 | 0.80 | |
| Median | | | | 2.20 | 7.38 | 7.8 | 5380 | 5540 | 4175 | 50 | 210 | 121 | 946 | 30 | 184 | 224 | 1.0 | | 1808 | 743 | 0.81 | |
| Standard Deviation | | | | 1.24 | 0.18 | 0.15 | 475 | 556 | 403 | 37 | 17 | 16 | 82 | 5 | 12 | 14 | 0.0 | | 215 | 128 | 0.04 | |
| Minimum | | | | 1.02 | 6.94 | 7.50 | 4020 | 5050 | 2899 | 7 | 173 | 95 | 801 | 27 | 148 | 181 | 1.0 | | 1206 | 358 | 0.73 | |
| Maximum | | | | 4.96 | 7.52 | 8.00 | 5370 | 6860 | 4338 | 122 | 226 | 158 | 1075 | 46 | 192 | 234 | 1.0 | | 1948 | 797 | 0.87 | |
| EM-2 | 08/11/97 | EPRI-9708-156A | GW | 6.28 | 7.08 | | | 4630 | | | | | | | | | | | | | | |
| EM-2 | 08/26/97 | EPRI-9708-156 | GW | 7.40 | 7.90 | 4550 | 871 | R 3389 | 68 | 204 | 74 | 831 | 16 | 280 | 342 | 1.0 | U | 1448 | 497 | 1.40 | | |
| EM-2 | 11/17/97 | EPRI-9711-156 | GW | 1.41 | 7.00 | 7.70 | 3960 | 5150 | 2952 | 7.5 | 176 | 65 | 704 | 11 | 250 | 305 | 1.0 | U | 1185 | 456 | 1.30 | |
| EM-2 | 02/17/98 | EPRI-9802-156 | GW | 1.26 | 6.90 | 7.45 | 4150 | 5450 | 3159 | 20 | 179 | 72 | 791 | 15 | 263 | 934 | 1.0 | U | 1247 | 436 | 1.40 | |
| EM-2 | 05/18/98 | EPRI-9805-156 | GW | 4.29 | 7.14 | 7.50 | 4190 | 4180 | 2917 | 9.2 | 173 | 68 | 785 | 17 | 263 | 321 | 1.0 | U | 1197 | 428 | 1.50 | |
| EM-2 | 08/13/98 | EPRI-9808-156 | GW | 1.06 | 7.02 | 7.8 | 4210 | 4240 | 3115 | 15 | 187 | 71 | 896 | 16 | 282 | 344 | 1.0 | U | 1375 | 400 | 1.40 | |
| EM-2 | 11/11/98 | EPRI-9811-156 | GW | 3.5 | 7.23 | 7.5 | 4260 | 4190 | 3150 | 7.6 | J4 | 185 | 71 | 773 | 15 | 272 | 332 | 1.0 | U | 1375 | 457 | 1.40 |
| EM-2 | 02/22/99 | EPRI-9902-168 | GW | 2.40 | 7.12 | 7.6 | 4510 | 5330 | 3338 | 16 | 196 | 77 | 835 | 23 | 275 | 336 | 1.0 | U | 929 | 442 | 1.40 | |
| EM-2 | 05/10/99 | EPRI-9905-169 | GW | 1.3 | 6.71 | 7.4 | 6050 | 6480 | 4816 | 19 | 362 | 146 | 971 | 26 | 280 | 342 | 1.0 | U | 2124 | 405 | 1.30 | |
| EM-2 | 08/06/99 | EPRI-9908-169 | GW | 1.6 | 6.81 | 7.5 | 5740 | 6320 | 4758 | 76 | 382 | 123 | 919 | 20 | 238 | 290 | 1.0 | U | 2107 | 366 | 1.50 | |
| EM-2 | 10/29/99 | EPRI-9911-262 | GW | 1.1 | 6.6 | 7.7 | 6040 | 5360 | 4494 | J4 | 351 | 126 | 788 | 18 | 285 | 348 | 1.0 | U | 2354 | 554 | 1.30 | |
| EM-2 | 01/25/00 | EPRI-0002-196 | GW | 3.3 | 7.05 | 7.7 | 5330 | 5160 | 4038 | 64 | 236 | 86 | 813 | 16 | 298 | 364 | 1.0 | U | 1931 | 491 | 1.30 | |
| Average | | | | 2.50 | 7.01 | 7.64 | 4817 | 4780 | 3666 | 28 | 239 | 89 | 828 | 18 | 272 | 331 | 1.0 | | 1570 | 448 | 1.38 | |
| Median | | | | 1.60 | 7.03 | 7.7 | 4510 | 5155 | 3338 | 16 | 196 | 74 | 813 | 16 | 275 | 336 | 1.0 | | 1375 | 442 | 1.40 | |
| Standard Deviation | | | | 1.68 | 0.22 | 0.15 | 809 | 1444 | 731 | 27 | 83 | 28 | 75 | 4 | 17 | 21 | 0.0 | | 473 | 52 | 0.08 | |
| Minimum | | | | 1.06 | 6.60 | 7.40 | 3960 | 871 | 2917 | 3 | 173 | 65 | 704 | 11 | 238 | 290 | 1.0 | | 929 | 366 | 1.30 | |
| Maximum | | | | 6.28 | 7.40 | 7.90 | 6050 | 6480 | 4816 | 76 | 382 | 146 | 971 | 26 | 298 | 364 | 1.0 | | 2354 | 554 | 1.50 | |
| EM-4 | 08/11/97 | EPRI-9708-158A | GW | 2.72 | 7.28 | | | 10570 | | | | | | | | | | | | | | |
| EM-4 | 08/26/97 | EPRI-9708-158 | GW | 7.50 | 7.90 | 10410 | 2090 | R 7094 | 15 | J4 | 441 | 198 | | 127 | 155 | 1.0 | U | 450 | 3507 | 1.30 | | |
| EM-4 | 11/17/97 | EPRI-9711-158 | GW | 2.57 | 7.10 | 7.70 | 11300 | 14110 | 7198 | 7.7 | 469 | 211 | 1959 | 42 | 126 | 154 | 1.0 | U | 547 | 3423 | 1.30 | |
| EM-4 | 02/17/98 | EPRI-9802-157 | GW | 1.14 | 6.97 | 7.40 | 11150 | 14370 | 7157 | 1 | U | 451 | 220 | | 127,869 | 156 | 1.0 | U | 503 | 3358 | 1.30 | |
| EM-4 | 05/18/98 | EPRI-9805-157 | GW | 1.49 | 7.23 | 7.70 | 9420 | 10150 | 5744 | 1 | U | 383 | 168 | | 116 | 142 | 1.0 | U | 376 | 2798 | 1.30 | |
| EM-4 | 8/13/98 | EPRI-9808-157 | GW | 1.06 | 7.02 | 7.8 | 9560 | 4240 | R 6339 | 5.6 | 417 | 183 | 1640 | 33 | 128 | 156 | 1.0 | U | 466 | 2862 | 1.20 | |
| EM-4 | 11/11/98 | EPRI-9811-157 | GW | 1.9 | 7.5 | 7.4 | 10460 | 10370 | 6473 | 1.0 | U | 440 | 196 | | 1551 | 34 | 138 | 168 | 1.0 | | 3268 | 1.20 |
| EM-4 | 02/22/99 | EPRI-9902-169 | GW | 8.3 | 7.27 | 7.5 | 9940 | 11540 | 5990 | 3.2 | 391 | 175 | 1572 | 49 | 120 | 146 | 1.0 | U | 1618 | 3200 | 1.30 | |
| EM-4 | 05/10/99 | EPRI-9905-170 | GW | 0.9 | 7.01 | 7.6 | 10270 | 10850 | 6681 | 3.6 | 425 | 198 | 1487 | 40 | 117 | 143 | 1.0 | U | 411 | 3348 | 1.30 | |
| EM-4 | 05/10/99 | EPRI-9905-185 | GW | 1 | 7.01 | 7.7 | 10270 | 10780 | 6691 | 5.0 | 425 | 199 | 1526 | 40 | 126 | 154 | 1.0 | U | 446 | 2718 | 1.30 | |
| EM-4 | 08/06/99 | EPRI-9908-170 | GW | 0.8 | 7.21 | 7.9 | 10440 | 10600 | 6683 | 3 | 403 | 188 | 1443 | 35 | 124 | 151 | 1.0 | U | 463 | 3029 | 1.30 | |

Table H-7. Summary of Groundwater Analytical Results, August 1997 through February 2000
EM Common Ions

| Site | Date | Samp # | Type | (O) | pH (lab) | Specific Conductivity SC (Lab) | Specific Conductivity SC (fld) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CACO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | | |
|--------------------|----------|----------------|------|------|-------------|--------------------------------------|--------------------------------------|------|------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|------|------|
| EM-4 | 10/29/99 | EPRI-9911-164 | GW | 2.1 | 6.96 | 7.8 | 9400 | 8720 | 5290 | J4 | 1 | U | 357 | 159 | 1188 | 27 | 119,572 | 146 | 1.0 | U | 386 | 2341 | 1.20 |
| EM-4 | 01/25/00 | EPRI-0002-197 | GW | 1.5 | 7.28 | 7.8 | 9240 | 9300 | 5473 | 6 | 299 | 141 | 1287 | 26 | 127,869 | 156 | 1.0 | U | 433 | 3020 | 1.20 | | |
| Average | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | | |
| EM-5 | 08/11/97 | EPRI-9708-159A | GW | 0.96 | 7.65 | | | 5970 | | | | | | | | | | | | | | | |
| EM-5 | 08/26/97 | EPRI-9708-159 | GW | 0.79 | 7.64 | 8.00 | 6160 | 1187 | R | 4700 | 36 | J4 | 197 | 46 | 1238 | 79 | 162 | 198 | 1.0 | U | 1943 | 742 | 6.10 |
| EM-5 | 11/17/97 | EPRI-9711-159 | GW | 0.79 | 7.30 | 7.70 | 6700 | 8790 | 5176 | 7.4 | 249 | 60 | 1445 | 83 | 174 | 212 | 1.0 | U | 2224 | 806 | 6.40 | | |
| EM-5 | 02/17/98 | EPRI-9802-158 | GW | 1.84 | 7.17 | 7.70 | 6990 | 9310 | 5485 | 8.6 | 277 | 68 | 1528 | 87 | 159,836 | 195 | 1.0 | U | 2477 | 794 | 8.00 | | |
| EM-5 | 05/18/98 | EPRI-9805-158 | GW | 1.21 | 7.59 | 7.90 | 4920 | 4950 | 3432 | 3.4 | 142 | 33 | 1084 | 54 | 156 | 1.0 | U | 1599 | 485 | 9.50 | | | |
| EM-5 | 08/17/98 | EPRI-9808-158 | GW | 0.18 | 7.5 | 7.8 | 4970 | 5010 | 3613 | 3.7 | 159 | 34 | 1071 | 60 | 154 | 188 | 1.0 | U | 1787 | 536 | 9.00 | | |
| EM-5 | 11/11/98 | EPRI-9811-158 | GW | 3.5 | 7.43 | 7.6 | 5090 | 5030 | 3771 | 4.7 | 14 | 195 | 42 | 1056 | 55 | 166 | 203 | 1.0 | U | 1718 | 586 | 7.10 | |
| EM-5 | 02/11/99 | EPRI-9902-170 | GW | 0.9 | 7.47 | 7.8 | 4740 | 4800 | 3460 | 5 | 173 | 39 | 770 | 50 | 159 | 194 | 1.0 | U | 1472 | 565 | 7.10 | | |
| EM-5 | 02/11/99 | EPRI-9902-187 | GW | 0.9 | 7.48 | 7.8 | 4770 | 4800 | 3471 | 5.1 | 171 | 38 | 780 | 55 | 159 | 194 | 1.0 | U | 1563 | 571 | 7.10 | | |
| EM-5 | 05/10/99 | EPRI-9905-171 | GW | 0.7 | 7.35 | 7.7 | 3700 | 3800 | 2554 | 5 | 111 | 27 | 692 | 31 | 112 | 137 | 1.0 | U | 1111 | 410 | 14 | | |
| EM-5 | 08/06/99 | EPRI-9908-171 | GW | 0.7 | 7.46 | 7.8 | 2660 | 2630 | 1786 | 1.4 | 78 | 16 | 479 | 27 | 130 | 159 | 1.0 | U | 715 | 296 | 4.80 | | |
| EM-5 | 11/02/99 | EPRI-9911-165 | GW | 4.1 | 7.38 | 7.9 | 3010 | 3210 | 1980 | 1.5 | 79 | 18 | 495 | 29 | 163 | 199 | 1.0 | U | 827 | 146 | 6.40 | | |
| EM-5 | 11/02/99 | EPRI-9911-236 | GW | 4 | 7.39 | 8 | 3020 | 3190 | 1976 | 1.1 | 75 | 17 | 482 | 28 | 162 | 198 | 1.0 | U | 835 | 309 | 6.50 | | |
| EM-5 | 01/25/00 | EPRI-0002-198 | GW | 0.3 | 7.51 | 8 | 2100 | 2050 | 1320 | 1 | U | 51 | 12 | 351 | 21 | 141 | 172 | 1.0 | U | 503 | 224 | 5.30 | |
| Average | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | | |
| EM-6 | 08/11/97 | EPRI-9708-160 | GW | 4.48 | 7.25 | 7.90 | 4520 | 4480 | 3400 | 3.1 | 127 | 80 | 897 | 14 | 322 | 393 | 1.0 | U | 1707 | 422 | 2.20 | | |
| EM-6 | 08/11/97 | EPRI-9708-173 | GW | 7.80 | 4500 | | | 4623 | 3286 | 6 | 151 | 35 | 882 | 51 | 152 | 185 | 1.0 | U | 1444 | 498 | 6.85 | | |
| EM-6 | 11/17/97 | EPRI-9711-160 | GW | 0.98 | 7.15 | 7.60 | 4500 | 5750 | 3372 | 2.2 | 124 | 78 | 902 | 14 | 318 | 388 | 1.0 | U | 1653 | 442 | 2.20 | | |
| EM-6 | 02/17/98 | EPRI-9802-159 | GW | 0.91 | 7.04 | 7.80 | 4330 | 5810 | 3160 | 1 | U | 120 | 77 | 877 | 14 | 304,918 | 372 | 1.0 | U | 1470 | 451 | 2.00 | |
| EM-6 | 05/18/98 | EPRI-9805-159 | GW | 1.57 | 7.21 | 7.60 | 4990 | 4310 | 2874 | 1 | U | 117 | 71 | 865 | 11 | 291 | 355 | 1.0 | U | 1280 | 419 | 1.90 | |
| EM-6 | 05/18/98 | EPRI-9805-180 | GW | | | | | 7.50 | 4120 | 2846 | 1 | U | 116 | 71 | 861 | 12 | 295 | 360 | 1.0 | U | 1223 | 390 | 2.00 |
| EM-6 | 08/17/98 | EPRI-9808-159 | GW | 0.32 | 7.17 | 7.6 | 4600 | 4610 | 3324 | 2.6 | 124 | 77 | 912 | 22 | 340 | 415 | 1.0 | U | 1539 | 454 | 2.10 | | |
| EM-6 | 11/11/98 | EPRI-9811-159 | GW | 1.4 | 7.45 | 7.8 | 3550 | 3590 | 2462 | 2.5 | J4 | 108 | 60 | 688 | 13 | 317 | 1.0 | U | 1167 | 345 | 1.70 | | |
| EM-6 | 02/11/99 | EPRI-9902-171 | GW | 3.6 | 7.3 | 7.8 | 4290 | 4390 | 3129 | 1.7 | 124 | 75 | 710 | 15 | 317 | 387 | 1.0 | U | 903 | 414 | 2.10 | | |
| EM-6 | 05/10/99 | EPRI-9905-172 | GW | 0.6 | 7.06 | 7.7 | 3810 | 4290 | 2682 | 2.5 | 112 | 70 | 716 | 16 | 288 | 351 | 1.0 | U | 989 | 318 | 1.80 | | |

Table H-7. Summary of Groundwater Analytical Results, August 1997 through February 2000
EM Common Ions

| Site | Date | Samp # | Type | (O) (flud) | pH (flud) | Specific Conductivity SC (flud) | Specific Conductivity SC (lab) | TDS | TSS | Calcium (Ca) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CACO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | |
|--------------------|----------|---------------|------|------------|-----------|---------------------------------|--------------------------------|------|------|------------------|--------------------|-----------------|-------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------|---------------|--------------|------|------|------|
| EM-6 | 08/06/99 | EPRI-9908-172 | GW | 0.5 | 7.3 | 8 | 3640 | 2567 | 2.4 | 102 | 60 | 697 | 12 | 255 | 311 | 1.0 | U | 1121 | 321 | 1.80 | | |
| EM-6 | 08/06/99 | EPRI-9908-200 | GW | 0.4 | 7.3 | 8 | 3640 | 3830 | 2.6 | 100 | 60 | 675 | 12 | 254 | 310 | 1.0 | U | 1221 | 322 | 1.80 | | |
| EM-6 | 11/02/99 | EPRI-9911-166 | GW | 2.2 | 7.3 | 8 | 3300 | 3650 | 2281 | 4.1 | 91 | 51 | 539 | 9.6 | 249 | 304 | 1.0 | U | 1058 | 342 | 1.70 | |
| EM-6 | 01/25/00 | EPRI-0002-199 | GW | 1.2 | 7.26 | 8 | 4330 | 4240 | 1 | U | 109 | 67 | 738 | 13 | 319 | 389 | 1.0 | U | 1210 | 438 | 2.00 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EM-7 | 11/17/97 | EPRL-9711-161 | GW | 1.78 | 7.56 | 8.40 | 5700 | 7070 | 4264 | 54 | 215 | 42 | 1216 | 51 | 362 | 442 | 1.0 | U | 1864 | 714 | 4.90 | |
| EM-7 | 02/18/98 | EPRL-9802-160 | GW | 2.33 | 7.77 | 7.80 | 6020 | 6810 | 4588 | 9.2 | 234 | 48 | 1349 | 39 | 250 | 305 | 1.0 | U | 2064 | 679 | 6.10 | |
| EM-7 | 05/07/98 | EPRL-9805-160 | GW | 1.3 | 7.24 | 7.80 | 5560 | 6950 | 4029 | 37 | 216 | 43 | 1199 | 48 | 222,131 | 271 | 1.0 | U | 1755 | 614 | 6.70 | |
| EM-7 | 08/20/98 | EPRL-9808-160 | GW | 1.95 | 7.38 | 7.70 | 5220 | 5240 | 3967 | 116 | 174 | 33 | 1037 | 44 | 242 | 295 | 1.0 | U | 1667 | 570 | 7.10 | |
| EM-7 | 11/11/98 | EPRL-9811-160 | GW | 2.3 | 7.54 | 7.6 | 5310 | 5190 | 3952 | 294 | 14 | 198 | 36 | 1139 | 43 | 285 | 348 | 1.0 | U | 1731 | 546 | 6.60 |
| EM-7 | 02/24/99 | EPRL-9902-172 | GW | 2 | 7.69 | 7.8 | 5110 | 6320 | 3836 | 125 | 195 | 36 | 957 | 41 | 280 | 342 | 1.0 | U | 1111 | 14 | 530 | |
| EM-7 | 05/12/99 | EPRL-9905-173 | GW | 3.6 | 7.66 | 7.4 | 4540 | 4560 | 3133 | 347 | 147 | 34 | 850 | 49 | 202 | 246 | 1.0 | ,UJ3 | 1419 | 241 | 6.50 | |
| EM-7 | 08/06/99 | EPRL-9908-173 | GW | 3.9 | 7.54 | 7.7 | 4410 | 4420 | 3121 | 139 | 142 | 27 | 834 | 37 | 235 | 287 | 1.0 | U | 1419 | 446 | 6.70 | |
| EM-7 | 10/30/99 | EPRL-9911-167 | GW | 7.41 | 7.8 | 2520 | 2410 | 1565 | 97 | 14 | 61 | 11 | 370 | 20 | 225 | 275 | 1.0 | U | 486 | 322 | 6.30 | |
| EM-7 | 01/13/00 | EPRL-0002-200 | GW | 1.2 | 7.59 | 7.8 | 2260 | 1980 | 1440 | 506 | 77 | 14 | 364 | 18 | 215 | 262 | 1.0 | U | 474 | 236 | 5.20 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |

TABLE H-8

**ANALYTICAL RESULTS FOR COMMON IONS,
GROUNDWATER SAMPLES, EP WELLS**

**Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions**

| Site | Date | Samp # | Type | (O) (fl) | pH (fl) | pH (lab) | Specific Conductivity SC (fl) | TDS (CA) DIS | TSS (CA) DIS | Calcium (MG) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | |
|--------------------|----------|---------------|------|-------------|------------|-------------|-------------------------------------|-----------------|-----------------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|-----|
| EP-4 | 08/06/97 | EPRI-9708-100 | GW | 1.51 | 7.06 | 7.70 | 2350 | 1557 | 14 | 135 | 36 | 356 | 17 | 318 | 388 | 1.0 | U | 454 | 356 | 1.2 | | |
| EP-4 | 11/04/97 | EPRI-9711-100 | GW | 1.00 | 7.46 | 7.80 | 1656 | 1906 | 22 | 56 | 15 | 251 | 12 | 284 | 346 | 1.0 | U | 287 | 196 | 1.4 | | |
| EP-4 | 02/04/98 | EPRI-9802-100 | GW | 1.91 | 7.58 | 8.00 | 1595 | 1563 | 1076 | 54 | 74 | 20 | 257 | 12 | 246 | 300 | 1.0 | U | 346 | 190 | 1.1 | |
| EP-4 | 05/05/98 | EPRI-9805-100 | GW | 3.20 | 7.95 | 7.90 | 1831 | 1670 | 1211 | 58 | 99 | 27 | 270 | 21 | 267 | 326 | 1.0 | U | 377 | 213 | 0.97 | |
| EP-4 | 08/05/98 | EPRI-9808-100 | GW | 1.34 | 7.36 | 7.8 | 1970 | 1910 | 1345 | 29 | 105 | 27 | 303 | 12 | 271 | 331 | 1.0 | U | 437 | 242 | 1 | |
| EP-4 | 02/03/99 | EPRI-9902-100 | GW | 1.20 | 8.08 | 8.1 | 1965 | 1620 | 1295 | 3434 | 101 | 27 | 321 | 13 | 638 | 778 | 1.0 | U | 364 | 222 | 0.93 | |
| EP-4 | 05/05/99 | EPRI-9905-100 | GW | 2.1 | 7.6 | 7.9 | 2170 | 2050 | 1423 | 696 | 113 | 31 | 282 | 14 | 360 | 439 | 1.0 | U | 418 | 13 | 206 | |
| EP-4 | 08/02/99 | EPRI-9908-100 | GW | 1.3 | 7.61 | 7.8 | 2410 | 2490 | 1650 | 358 | 14 | 117 | 30 | 350 | 16 | 329 | 401 | 1.0 | U | 603 | 273 | 1.1 |
| EP-4 | 10/25/99 | EPRI-9911-100 | GW | 1 | 7.28 | 8.3 | 2650 | 1767 | 129 | 129 | 36 | 390 | 20 | 277 | 338 | J3 | 1.0 | UJ3 | 654 | 272 | 1.1 | |
| EP-4 | 01/29/00 | EPRI-0002-100 | GW | 1 | 7.64 | 8 | 2310 | 2290 | 1470 | 448 | 127 | 33 | 332 | 15 | 277 | 338 | 1.0 | U | 524 | 308 | 14 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-5 | 08/06/97 | EPRI-9708-101 | GW | 1.29 | 7.47 | 7.70 | 3350 | 3330 | 2342 | 199 | 96 | 39 | 650 | 16 | 766 | 935 | 1.0 | U | 544 | 424 | 2.8 | |
| EP-5 | 11/04/97 | EPRI-9711-101 | GW | 2.52 | 7.58 | 8.00 | 3100 | 3700 | 2141 | 186 | 80 | 35 | 623 | 11 | 746 | 910 | 1.0 | U | 434 | 343 | 2.8 | |
| EP-5 | 02/04/98 | EPRI-9802-101 | GW | 0.68 | 7.58 | 8.10 | 3070 | 3660 | 2106 | 30 | 78 | 33 | 671 | 10 | 734 | 895 | 1.0 | U | 519 | 361 | 2.3 | |
| EP-5 | 05/05/98 | EPRI-9805-101 | GW | 5.22 | 7.81 | 8.00 | 2980 | 2560 | 2116 | 169 | 85 | 34 | 629 | 18 | 644 | 786 | 1.0 | U | 410 | 336 | 2.6 | |
| EP-5 | 08/05/98 | EPRI-9808-101 | GW | 1.14 | 7.36 | 7.8 | 2900 | 3360 | 1991 | 12 | 76 | 30 | 594 | 9.2 | 691 | 843 | 1.0 | U | 396 | 353 | 2.6 | |
| EP-5 | 11/03/98 | EPRI-9811-101 | GW | 1.00 | 7.04 | 7.6 | 3010 | 2890 | 1909 | J3 | 71 | 77 | 30 | 577 | 11 | 764 | 932 | 1.0 | U | 331 | 328 | 2.7 |
| EP-5 | 02/03/99 | EPRI-9902-101 | GW | 1.70 | 7.87 | 8.0 | 2820 | 2860 | 1818 | 16 | 74 | 30 | 570 | 5.8 | 712 | 869 | 1.0 | U | 318 | 302 | 2.4 | |
| EP-5 | 05/05/99 | EPRI-9905-101 | GW | 2.20 | 7.52 | 8.1 | 2780 | 2500 | 1894 | 14 | 71 | 30 | 585 | 7.5 | 660 | 805 | 1.0 | U | 444 | J3 | 285 | |
| EP-5 | 08/02/99 | EPRI-9908-101 | GW | 1.8 | 7.44 | 7.9 | 3300 | 3550 | 2288 | 149 | 14 | 87 | 36 | 550 | 11 | 609 | 743 | 1.0 | U | 577 | 352 | 2.9 |
| EP-5 | 10/25/99 | EPRI-9911-101 | GW | 7.18 | 8.1 | 8.230 | 3880 | 5887 | 39 | 323 | 124 | 1497 | 25 | 436 | 532 | J3 | 1.0 | UJ3 | 2066 | 1337 | 2.2 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-6 | 08/06/97 | EPRI-9708-102 | GW | 1.47 | 7.34 | 7.90 | 7320 | 7240 | 6029 | 1.9 | 411 | 128 | 695 | 12 | 676 | 825 | 1.0 | U | 604 | 442 | 3 | |
| EP-6 | 11/04/97 | EPRI-9711-102 | GW | 1.03 | 7.44 | 7.90 | 7010 | 7440 | 5909 | 7.5 | 365 | 118 | 609 | 11 | 702 | 856 | 1.0 | U | 439 | 348 | 3 | |
| EP-6 | 02/04/98 | EPRI-9802-102 | GW | 3.10 | 7.53 | 8.00 | 6060 | 997 | A | 4491 | 10 | 246 | 76 | 1167 | 25 | 476 | 581 | 1.0 | U | 1852 | 954 | 1.3 |
| EP-6 | 05/05/98 | EPRI-9805-02 | GW | 3.00 | 7.62 | 8.00 | 5810 | 4950 | 4263 | 7.2 | 225 | 72 | 1215 | 28 | 384 | 468 | 1.0 | U | 1664 | 760 | 1.5 | |
| EP-6 | 08/05/98 | EPRI-9808-02 | GW | 1.24 | 7.30 | 8.0 | 6720 | 7440 | 5241 | 4.4 | 328 | 100 | 1414 | 31 | 380 | 464 | 1.0 | U | 2258 | 897 | 1.4 | |
| EP-6 | 11/03/98 | EPRI-9811-02 | GW | 1.50 | 7.33 | 7.7 | 7120 | 7030 | 5710 | 7.5 | 364 | 110 | 1348 | 30 | 372 | 454 | 1.0 | U | 2632 | 914 | 1.5 | |
| EP-6 | 02/03/99 | EPRI-9902-02 | GW | 2.50 | 7.51 | 7.9 | 7270 | 6560 | 5643 | 7.0 | 415 | 137 | 1282 | 34 | 367 | 448 | 1.0 | U | 2332 | 827 | 1.6 | |
| EP-6 | 05/05/99 | EPRI-9905-02 | GW | 1.40 | 7.39 | 8.1 | 7400 | 7100 | 5803 | 5.1 | 387 | 141 | 1462 | 26 | 373 | 455 | 1.0 | U | 2807 | J3 | 882 | |
| EP-6 | 08/02/99 | EPRI-9908-02 | GW | 1.60 | 7.43 | 7.9 | 7400 | 6810 | 5894 | 3.8 | 380 | 139 | 1440 | 24 | 372 | 454 | 1.0 | U | 3168 | J3 | 879 | |
| EP-6 | 10/25/99 | EPRI-9911-02 | GW | 1.6 | 7.37 | 8.4 | 7760 | 7330 | 6252 | 6 | J4 | 409 | 143 | 27 | 328 | 360 | 20.0 | 2975 | 1013 | 1.6 | | |
| EP-6 | 10/25/99 | EPRI-9911-02 | GW | 7.15 | 8 | 8070 | 8900 | 6040 | 43 | 411 | 140 | 1383 | 27 | 380 | 464 | J3 | 1.0 | UJ3 | 3357 | 912 | 1.3 | |
| EP-6 | 01/29/00 | EPRI-0002-102 | GW | 3.1 | 7.46 | 7.9 | 7860 | 7430 | 6144 | 23 | 408 | 133 | 1288 | 22 | 391 | 477 | 1.0 | U | 2964 | 912 | 1.2 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) mV | pH (lab) | Specific Conductivity SC (mS) | Specific Conductivity SC (mS) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | |
|--------------------|----------|---------------|------|-----------|-------------|-------------------------------------|-------------------------------------|-------|-------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|
| EP-7 | 08/06/97 | EPRL-9708-03 | GW | 1.66 | 7.17 | 7.80 | 2810 | 2580 | 1942 | 12 | 103 | 34 | 490 | 12 | 320 | 390 | 1.0 | U | 672 | |
| EP-7 | 11/04/97 | EPRL-9711-03 | GW | 1.55 | 7.36 | 7.90 | 2710 | 2350 | 1974 | 15 | 96 | 32 | 484 | 5.9 | 320 | 390 | 1.0 | U | 687 | |
| EP-7 | 02/04/98 | EPRL-9802-03 | GW | 1.62 | 7.30 | 7.90 | 2810 | 501 | R | 1978 | 14 | 119 | 38 | 502 | 9.6 | 296 | 361 | 1.0 | U | 814 |
| EP-7 | 05/05/98 | EPRL-9805-03 | GW | 3.73 | 7.67 | 7.80 | 2890 | 2500 | 1920 | 15 | 127 | 41 | 512 | 14 | 264 | 322 | 1.0 | U | 687 | |
| EP-7 | 08/05/98 | EPRL-9808-03 | GW | 0.69 | 7.28 | 7.8 | 2800 | 630 | R | 1938 | 8.9 | 106 | 34 | 506 | 9.5 | 243 | 296 | 1.0 | U | 767 |
| EP-7 | 11/03/98 | EPRL-9811-03 | GW | 1.20 | 7.31 | 7.6 | 2860 | 2610 | 1790 | 18 | 83 | 27 | 446 | 9.0 | 237 | 289 | 1.0 | U | 567 | |
| EP-7 | 02/03/99 | EPRL-9902-03 | GW | 1.90 | 7.51 | 7.9 | 2960 | 2790 | 1980 | 12 | 103 | 34 | 553 | 5 | U | 297 | 362 | 1.0 | U | 702 |
| EP-7 | 02/03/99 | EPRL-9902-177 | GW | 2.00 | 7.51 | 7.8 | 2950 | 2890 | 1988 | 11 | 110 | 36 | 570 | 5 | U | 295 | 360 | 1.0 | U | 735 |
| EP-7 | 05/05/99 | EPRL-9905-03 | GW | 2.50 | 7.50 | 7.9 | 3110 | 3030 | 2119 | 10 | 112 | 39 | 551 | 7.5 | 320 | 390 | 1.0 | U | 829 | |
| EP-7 | 08/02/99 | EPRL-9908-03 | GW | 1.9 | 7.33 | 7.7 | 3790 | 3800 | 2664 | 15 | 14 | 47 | 500 | 11 | 300 | 366 | 1.0 | U | 907 | |
| EP-7 | 10/25/99 | EPRL-9911-03 | GW | 6.97 | 7.8 | 6700 | 6910 | 4506 | 23 | 330 | 103 | 1223 | 16 | 377 | 460 | 13 | 1.0 | U | 1517 | |
| EP-7 | 10/25/99 | EPRL-9911-206 | GW | 7.9 | 6700 | | | 4531 | 19 | 321 | 98 | 1168 | 15 | 372 | 454 | 13 | 1.0 | U | 1503 | |
| EP-7 | 01/29/00 | EPRL-0002-103 | GW | 1.7 | 7.27 | 7.5 | 3840 | 3630 | 2516 | 36 | 123 | 40 | 652 | 7.2 | 334 | 407 | 1.0 | U | 924 | |
| EP-7 | 01/29/00 | EPRL-0002-230 | GW | 2.6 | 7.34 | 7.8 | 3820 | 3560 | 2446 | 36 | 124 | 40 | 669 | 7.3 | 310 | 378 | 1.0 | U | 852 | |
| Average | | | | 1.92 | 7.35 | 7.79 | 3611 | 2938 | 2449 | 17 | 143 | 46 | 630 | 10 | 306 | 373 | 1.0 | U | 869 | |
| Median | | | | 1.80 | 7.33 | 7.8 | 2935 | 2800 | 1988 | 15 | 116 | 39 | 532 | 9 | 305 | 372 | 1.0 | U | 791 | |
| Standard Deviation | | | | 0.77 | 0.18 | 0.12 | 1.373 | 1.558 | 1.913 | 9 | 79 | 24 | 247 | 4 | 41 | 50 | 0.0 | U | 289 | |
| Minimum | | | | 0.69 | 6.97 | 7.50 | 2660 | 501 | 1750 | 9 | 83 | 27 | 446 | 5 | 237 | 289 | 1.0 | U | 567 | |
| Maximum | | | | 3.73 | 7.67 | 7.90 | 6700 | 6910 | 4531 | 36 | 330 | 103 | 1223 | 16 | 377 | 460 | 1.0 | U | 1197 | |
| EP-9 | 5/7/98 | EPRL-9805-178 | GW | 1.12 | 7.10 | 8.10 | 2650 | 3220 | 1750 | 6 | 55 | 23 | 534 | 18 | 179 | 218 | 1.0 | U | 729 | |
| EP-12 | 11/03/97 | EPRL-9711-104 | GW | 1.44 | 6.80 | 7.30 | 5840 | 7490 | 4846 | 7.9 | 370 | 121 | 995 | 17 | 626 | 764 | 1.0 | U | 1925 | |
| EP-12 | 02/03/98 | EPRL-9802-104 | GW | 1.55 | 6.76 | 7.40 | 6580 | 7870 | 5491 | 8.3 | 437 | 148 | 1093 | 21 | 502 | 612 | 1.0 | U | 2693 | |
| EP-12 | 05/20/98 | EPRL-9805-104 | GW | 2.38 | 7.05 | 7.60 | 5280 | 4820 | 3938 | 88 | 321 | 113 | 959 | 27 | 726 | 886 | 1.0 | U | 1566 | |
| EP-12 | 08/27/98 | EPRL-9808-104 | GW | 1.12 | 6.79 | 7.3 | 6360 | 5360 | 5362 | 174 | 428 | 147 | 1172 | 12 | 596 | 727 | 1.0 | U | 2229 | |
| EP-12 | 11/16/98 | EPRL-9811-104 | GW | 1.70 | 6.88 | 7.5 | 5580 | 5710 | 4367 | 329 | 334 | 115 | 1024 | 18 | 724 | 883 | 1.0 | U | 1731 | |
| EP-12 | 02/25/99 | EPRL-9902-104 | GW | 2.60 | 7.08 | 7.4 | 4890 | 4980 | 3834 | 16 | 14 | 288 | 86 | 775 | 15 | 635 | 775 | 1.0 | U | 1412 |
| EP-12 | 05/14/99 | EPRL-9905-104 | GW | 1.30 | 6.86 | 7.7 | 6020 | 5190 | 4936 | 41 | 340 | 134 | 1096 | 27 | 1650 | 2013 | 1.0 | U | 2121 | |
| EP-12 | 05/14/99 | EPRL-9905-193 | GW | 2.10 | 7 | 7.7 | 5900 | J3 | 5920 | 4840 | 66 | 328 | 134 | 1063 | 26 | 850 | 1037 | 1.0 | U | 2093 |
| EP-12 | 08/11/99 | EPRL-9908-104 | GW | 0.1 | 7.31 | 7.6 | 6110 | 6070 | 4736 | 36 | 360 | 126 | 945 | 15 | 940 | 1147 | 1.0 | U | 1900 | |
| EP-12 | 10/29/99 | EPRL-9911-104 | GW | 2.5 | 8 | 8.3 | 4400 | 4180 | 1831 | J4 | 47 | 138 | 68 | 809 | 10 | 1276 | 1557 | 1.0 | U | 740 |
| EP-12 | 02/08/00 | EPRL-0002-104 | GW | 7.5 | 5520 | | | 3880 | 46 | 44 | 221 | 94 | 924 | 11 | 995 | 1214 | 1.0 | U | 1433 | |
| EP-12 | 02/08/00 | EPRL-0002-237 | GW | 7.6 | 5420 | | | 3928 | 68 | J4 | 191 | 86 | 898 | 9.8 | 1035 | 1263 | 1.0 | U | 1350 | |
| Average | | | | 1.68 | 7.05 | 7.58 | 5638 | 5863 | 4340 | 77 | 313 | 114 | 979 | 17 | 880 | 1073 | 1.0 | U | 1759 | |
| Median | | | | 1.63 | 6.94 | 7.55 | 5710 | 5810 | 4562 | 47 | 331 | 118 | 977 | 16 | 788 | 962 | 1.0 | U | 1816 | |
| Standard Deviation | | | | 0.76 | 0.37 | 0.27 | 615 | 1130 | 964 | 91 | 26 | 119 | 7 | 329 | 401 | 0.0 | U | 495 | | |
| Minimum | | | | 0.10 | 6.76 | 7.30 | 4400 | 4180 | 1881 | 8 | 138 | 68 | 775 | 10 | 502 | 612 | 1.0 | U | 740 | |
| Maximum | | | | 2.60 | 8.00 | 8.30 | 6550 | 7870 | 5491 | 329 | 437 | 148 | 1172 | 27 | 1650 | 2013 | 1.0 | U | 2603 | |
| EP-13 | 08/07/97 | EPRL-9708-105 | GW | 5.56 | 7.35 | 7.70 | 12500 | 12410 | 12500 | 52 | 434 | 73 | 3087 | 110 | 352 | 429 | 1.0 | U | 5745 | |
| EP-13 | 11/06/97 | EPRL-9711-105 | GW | 4.01 | 7.11 | 7.80 | 12210 | 14320 | 10653 | 14 | 371 | 70 | 3043 | 91 | 346 | 422 | 1.0 | U | 5541 | |
| EP-13 | 02/17/98 | EPRL-9802-105 | GW | 0.18 | 6.95 | 7.70 | 11910 | 14100 | 10540 | 23 | 348 | 59 | 2992 | 102 | 342 | 417 | 1.0 | U | 5364 | |
| EP-13 | 05/07/98 | EPRL-9805-105 | GW | 2.79 | 6.96 | 7.70 | 11440 | 10900 | 9354 | 3.4 | 363 | 70 | 2776 | 97 | 327 | 399 | 1.0 | U | 5265 | |
| EP-13 | 08/06/98 | EPRL-9808-105 | GW | 2.80 | 6.98 | 7.7 | 11220 | 9839 | 7.3 | 339 | 70 | 2468 | 83 | 340 | 415 | 1.0 | U | 5322 | | |
| EP-13 | 11/04/98 | EPRL-9811-105 | GW | 7.2 | 7.12 | 7.4 | 11420 | 12670 | 9662 | 147 | 359 | 65 | 2684 | 85 | 351 | 428 | 1.0 | U | 4881 | |
| EP-13 | 02/08/99 | EPRL-9902-105 | GW | 5.6 | 7.16 | 7.6 | 11200 | 11070 | 9447 | 12 | 14 | 354 | 65 | 2040 | 90 | 323 | 394 | 1.0 | U | 4565 |
| EP-13 | 05/06/99 | EPRL-9905-105 | GW | 5.90 | 7.08 | 7.7 | 10640 | 11480 | 8859 | 6.8 | 309 | 61 | 2555 | 76 | 14 | 337 | 411 | 1.0 | U | 4552 |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (Fdt) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | |
|--------------------|----------|---------------|------|------|-------------|--------------------------------------|--------------------------------------|-------|-------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|------|
| EP-13 | 08/02/99 | EPRI-9908-05 | GW | 2.6 | 7.19 | 7.5 | 11200 | 9509 | 4.3 | J4 | 354 | 62 | 2000 | 77 | 334 | 407 | 1.0 | U | 4734 | 770 | 1.5 | |
| EP-13 | 10/28/99 | EPRI-9911-05 | GW | 3.7 | 7.03 | 8 | 8960 | 8160 | 6935 | 3.9 | 265 | 42 | 1797 | 63 | 268 | 327 | 1.0 | U | 4164 | 596 | 1.4 | |
| EP-13 | 01/25/00 | EPRI-0002-105 | GW | 4.7 | 7.27 | 7.8 | 10770 | 9840 | 8099 | 12 | 256 | 47 | 1986 | 67 | 305 | 372 | 1.0 | U | 3497 | 700 | 1.5 | |
| Average | | | | 4.09 | 7.11 | 7.69 | 11170 | 11597 | 9473 | 26 | 343 | 62 | 2493 | 86 | 329 | 402 | 1.0 | | 4875 | 710 | 1 | |
| Median | | | | 4.01 | 7.11 | 7.7 | 11220 | 11320 | 9509 | 12 | 354 | 65 | 2555 | 85 | 337 | 411 | 1.0 | | 4881 | 700 | 2 | |
| Standard Deviation | | | | 1.97 | 0.13 | 0.16 | 985 | 1770 | 1204 | 42 | 50 | 10 | 471 | 14 | 24 | 30 | 0.0 | | 665 | 73 | 0 | |
| Minimum | | | | 0.18 | 6.95 | 7.40 | 8960 | 8160 | 6935 | 3 | 256 | 42 | 1797 | 63 | 268 | 327 | 1.0 | | 3497 | 596 | 1 | |
| Maximum | | | | 7.20 | 7.35 | 8.00 | 12500 | 14320 | 11243 | 147 | 434 | 73 | 3087 | 110 | 352 | 429 | 1.0 | | 5745 | 814 | 2 | |
| EP-14 | 11/05/97 | EPRI-9711-106 | GW | 0.40 | 6.91 | 7.50 | 4430 | 5020 | 3686 | 3.6 | 364 | 92 | 623 | 53 | 272 | 332 | 1.0 | U | 1876 | 347 | 1.5 | |
| EP-14 | 02/17/98 | EPRI-9802-106 | GW | 0.35 | 6.76 | 7.50 | 4520 | 6090 | 3852 | 2.6 | 383 | 97 | 671 | 51 | 265 | 323 | 1.0 | U | 1707 | 350 | 1.5 | |
| EP-14 | 05/07/98 | EPRI-9805-106 | GW | 1.60 | 6.86 | 7.40 | 4660 | 5500 | 3754 | 1.1 | 388 | 97 | 730 | 65 | 348 | 425 | 1.0 | U | 1989 | 344 | 1.6 | |
| EP-14 | 08/06/98 | EPRI-9808-06 | GW | 0.50 | 6.9 | 7.7 | 3590 | 3890 | 2867 | 3.9 | 211 | 54 | 645 | 35 | 383 | 467 | 1.0 | U | 1326 | 222 | 2.0 | |
| EP-14 | 11/04/98 | EPRI-9811-106 | GW | 1.00 | 6.92 | 7.2 | 4230 | 4600 | 3253 | 32 | 248 | 62 | 640 | 46 | 354 | 432 | 1.0 | U | 1542 | 294 | 2.0 | |
| EP-14 | 02/08/99 | EPRI-9902-106 | GW | 0.7 | 6.95 | 7.6 | 5070 | 4950 | 4178 | 6.8 | J4 | 383 | 98 | 670 | 60 | 312 | 381 | 1.0 | U | 1537 | 307 | 2.0 |
| EP-14 | 05/06/99 | EPRI-9905-106 | GW | 6.00 | 6.85 | 7.4 | 4900 | 5240 | 3939 | 5.6 | 339 | 91 | 730 | 55 | 343 | 443 | 1.0 | U | 1906 | 325 | 2.0 | |
| EP-14 | 08/03/99 | EPRI-9908-06 | GW | 0.4 | 7.11 | 7.5 | 4300 | 4340 | 3349 | 16 | J4 | 244 | 67 | 550 | 44 | 509 | 621 | 1.0 | U | 1229 | 358 | 2.0 |
| EP-14 | 10/28/99 | EPRI-9911-106 | GW | 0.2 | 6.87 | 8.1 | 4750 | 5400 | 3667 | 4.2 | 336 | 86 | 688 | 55 | 323 | 394 | 1.0 | U | 1537 | 405 | 1.7 | |
| EP-14 | 01/25/00 | EPRI-0002-106 | GW | 0.1 | 6.92 | 7.5 | 5130 | 4970 | 4011 | 5.9 | 303 | 78 | 721 | 50 | 263 | 321 | 1.0 | U | 2150 | 338 | 1.6 | |
| Average | | | | 1.13 | 6.91 | 7.54 | 4558 | 5000 | 3656 | 8 | 320 | 82 | 667 | 51 | 339 | 414 | 1.0 | | 1680 | 326 | 2 | |
| Median | | | | 0.45 | 6.905 | 7.5 | 4590 | 4995 | 3720 | 5 | 338 | 89 | 671 | 52 | 336 | 410 | 1.0 | | 1625 | 341 | 2 | |
| Standard Deviation | | | | 1.77 | 0.09 | 0.24 | 457 | 622 | 395 | 9 | 65 | 16 | 56 | 8 | 73 | 89 | 0.0 | | 297 | 49 | 0 | |
| Minimum | | | | 0.10 | 6.76 | 7.20 | 3590 | 3890 | 2867 | 1 | 211 | 54 | 550 | 35 | 263 | 321 | 1.0 | | 1229 | 222 | 2 | |
| Maximum | | | | 6.00 | 7.11 | 8.10 | 5130 | 6090 | 4178 | 32 | 388 | 98 | 730 | 63 | 509 | 621 | 1.0 | | 2150 | 405 | 2 | |
| EP-15 | 08/07/97 | EPRI-9708-107 | GW | 2.84 | 7.20 | 7.80 | 3150 | 2830 | 2263 | 220 | 125 | 44 | 525 | 13 | 266 | 325 | 1.0 | U | 889 | 315 | 0.93 | |
| EP-15 | 11/06/97 | EPRI-9711-107 | GW | 2.37 | 7.30 | 7.90 | 3060 | 3180 | 2189 | 165 | 116 | 42 | 529 | 10 | 238 | 290 | 1.0 | U | 974 | 333 | 0.89 | |
| EP-15 | 02/17/98 | EPRI-9802-107 | GW | 2.45 | 7.12 | 7.70 | 3100 | 3980 | 2299 | 86 | 122 | 43 | 557 | 11 | 215 | 262 | 1.0 | U | 885 | 329 | 0.84 | |
| EP-15 | 05/07/98 | EPRI-9805-107 | GW | 2.47 | 7.35 | 7.80 | 2960 | 3320 | 2018 | 124 | 110 | 39 | 538 | 17 | 229 | 279 | 1.0 | U | 875 | 311 | 0.91 | |
| EP-15 | 08/10/98 | EPRI-9808-107 | GW | 1.77 | 7.34 | 7.9 | 2810 | 2750 | 1987 | 282 | 99 | 34 | 535 | 8.4 | 316 | 386 | 1.0 | U | 715 | 272 | 0.94 | |
| EP-15 | 11/05/98 | EPRI-9811-107 | GW | 1.5 | 7.21 | 7.6 | 3090 | 3040 | 2150 | 110 | 121 | 41 | 510 | 11 | 232 | 283 | 1.0 | U | 869 | 308 | 0.93 | |
| EP-15 | 02/08/99 | EPRI-9902-107 | GW | 2.5 | 7.27 | 7.8 | 3620 | 3560 | 2579 | 94 | J4 | 166 | 59 | 520 | 13 | 220 | 268 | 1.0 | U | 958 | 367 | 0.88 |
| EP-15 | 02/08/99 | EPRI-9902-181 | GW | 2.5 | 7.27 | 8.0 | 3600 | 3560 | 2593 | 117 | J4 | 161 | 58 | 520 | 13 | 220 | 268 | 1.0 | U | 967 | 372 | 0.87 |
| EP-15 | 05/05/99 | EPRI-9905-107 | GW | 7.30 | 7.12 | 7.7 | 4170 | 3850 | R | 3083 | 75 | 197 | 77 | 710 | 11 | 245 | 299 | 1.0 | U | 1212 | J3 | 0.80 |
| EP-15 | 08/03/99 | EPRI-9908-107 | GW | 2 | 7.19 | 7.5 | 4460 | 4500 | 3400 | 83 | J4 | 217 | 76 | 600 | 12 | 242 | 295 | 1.0 | U | 1233 | 452 | 0.73 |
| EP-15 | 08/03/99 | EPRI-9908-194 | GW | 2 | 7.19 | 7.6 | 4460 | 4520 | 3408 | 49 | J4 | 220 | 78 | 600 | 12 | 244 | 298 | 1.0 | U | 1363 | 432 | 0.74 |
| EP-15 | 10/28/99 | EPRI-9911-107 | GW | 1.3 | 6.85 | 8.1 | 4400 | 3960 | 3250 | 60 | 230 | 81 | 671 | 13 | 218 | 266 | 1.0 | U | 1356 | 509 | 0.71 | |
| EP-15 | 01/24/00 | EPRI-0002-107 | GW | 1.6 | 7.14 | 7.8 | 4560 | 4470 | 2916 | 176 | 223 | 76 | 766 | 13 | 300 | 366 | 1.0 | U | 1509 | 387 | 0.71 | |
| Average | | | | 2.51 | 7.20 | 7.78 | 3649 | 4019 | 2626 | 126 | 162 | 58 | 583 | 12 | 245 | 299 | 1.0 | | 1062 | 367 | 1 | |
| Median | | | | 2.37 | 7.2 | 7.8 | 3600 | 3560 | 2579 | 110 | 161 | 58 | 538 | 12 | 238 | 290 | 1.0 | | 967 | 367 | 1 | |
| Standard Deviation | | | | 1.51 | 0.13 | 0.17 | 669 | 1502 | 327 | 68 | 50 | 18 | 83 | 2 | 32 | 39 | 0.0 | | 243 | 67 | 0 | |
| Minimum | | | | 1.30 | 6.85 | 7.50 | 2810 | 2750 | 1987 | 49 | 99 | 34 | 510 | 8 | 215 | 262 | 1.0 | | 715 | 272 | 1 | |
| Maximum | | | | 7.30 | 7.35 | 8.10 | 4560 | 8580 | 3408 | 282 | 230 | 81 | 766 | 17 | 316 | 386 | 1.0 | | 1509 | 509 | 1 | |
| EP-20 | 08/07/97 | EPRI-9708-108 | GW | 1.98 | 6.72 | 7.40 | 11160 | 11270 | 10541 | 161 | 584 | 323 | 2070 | 71 | 328 | 400 | 1.0 | U | 4582 | 817 | 2.3 | |
| EP-20 | 11/03/97 | EPRI-9711-108 | GW | 2.56 | 7.05 | 7.30 | 10760 | 12760 | 10175 | 78 | 520 | 310 | 2253 | 56 | 330 | 403 | 1.0 | U | 4608 | 786 | 2.4 | |
| EP-20 | 02/03/98 | EPRI-9802-108 | GW | 2.36 | 7.06 | 7.40 | 10800 | 13110 | 9914 | 74 | 536 | 320 | 1919 | 63 | 286 | 349 | 1.0 | U | 5063 | 890 | 1.9 | |
| EP-20 | 02/06/98 | EPRI-9805-108 | GW | 3.49 | 7.22 | 7.50 | 10510 | 10580 | 9230 | 50 | 530 | 315 | 2289 | 63 | 312 | 381 | 1.0 | U | 4635 | 780 | 2 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (flu) | pH (lab) | Specific Conductivity SC (flu) | Specific Conductivity SC (flu) | TDS | TSS (CA) DIS | Calcium (MG) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | | | |
|--------------------|----------|---------------|------|-------|-------------|-------------|--------------------------------------|--------------------------------------|--------|-----------------|---------------------|-----------------------|--------------------|----------------------|---|---------------------------------|-------------------------------|------------------|-----------------|------|------|-----|----|
| EP-20 | 08/06/98 | EPRL-9808-108 | GW | 2.39 | 6.88 | 7.6 | 10210 | 10440 | 9259 | 129 | 520 | 292 | 1664 | 57 | 308 | 376 | 4783 | 765 | 2.0 | | | | |
| EP-20 | 11/04/98 | EPRL-9811-108 | GW | 1.60 | 6.92 | 7.1 | 10370 | 10130 | 8932 | 90 | 493 | 274 | 1816 | 57 | 296 | 361 | 1.0 | 4276 | 759 | 2.5 | | | |
| EP-20 | 02/04/99 | EPRL-9902-108 | GW | 2.40 | 6.96 | 7.4 | 9910 | 10010 | 8707 | 45 | J4 | 447 | 260 | 1801 | 76 | 294 | 359 | 1.0 | 3750 | 621 | 2.3 | | |
| EP-20 | 05/04/99 | EPRL-9905-108 | GW | 2.30 | 6.95 | 7.4 | 10320 | 10220 | 9135 | 53 | J4 | 474 | 302 | 2014 | 56 | 288 | 351 | 1.0 | 4861 | 73 | 2.1 | | |
| EP-20 | 08/02/98 | EPRL-9808-108 | GW | 1.6 | 6.89 | 7.2 | 9930 | 10090 | 8709 | 35 | J4 | 498 | 287 | 1600 | 53 | 305 | 372 | 1.0 | 4935 | 754 | 2.1 | | |
| EP-20 | 10/26/99 | EPRL-9911-108 | GW | 2.2 | 6.73 | 7.2 | 9800 | 9770 | 8197 | 106 | J4 | 483 | 266 | 1596 | 48 | 205 | 250 | J3, J4 | 1.0 | 4216 | 686 | 2.2 | |
| EP-20 | 01/31/00 | EPRL-0002-108 | GW | 2.1 | 6.86 | 7.5 | 9330 | 9120 | 8062 | 104 | J4 | 456 | 255 | 1747 | 48 | 291 | 355 | 1.0 | 4280 | 660 | 1.9 | | |
| EP-20 | 01/31/00 | EPRL-0002-232 | GW | 1.1 | 6.8 | 7.5 | 9350 | 9050 | 7844 | 50 | J4 | 481 | 268 | 1769 | 48 | 281 | 343 | 1.0 | 4288 | 689 | 1.8 | | |
| Average | | | | 2.17 | 6.92 | 7.38 | 10233 | 10546 | 9059 | 81 | | 502 | 289 | 1878 | 58 | 294 | 358 | 1.0 | 4531 | 747 | 2 | | |
| Median | | | | 2.25 | 6.905 | 7.4 | 10265 | 10175 | 9034 | 76 | | 496 | 290 | 1809 | 57 | 295 | 360 | 1.0 | 4595 | 760 | 2 | | |
| Standard Deviation | | | | 0.59 | 0.14 | 0.15 | 520 | 1267 | 838 | 38 | | 25 | 235 | 9 | 32 | 0.0 | 368 | 74 | 0 | | | | |
| Minimum | | | | 1.10 | 6.72 | 7.10 | 9300 | 9050 | 7844 | 35 | | 447 | 255 | 1596 | 48 | 205 | 250 | 1.0 | 3750 | 621 | 2 | | |
| Maximum | | | | 3.49 | 7.22 | 7.60 | 11160 | 13110 | 10541 | 161 | | 584 | 323 | 2289 | 76 | 330 | 403 | 1.0 | 5063 | 890 | 3 | | |
| EP-21 | 11/18/97 | EPRL-9711-109 | GW | | | | | | | | | | | | | | | | | | | | |
| EP-21 | 02/18/98 | EPRL-9802-109 | GW | 0.65 | 7.30 | 8.00 | 5980 | 8000 | 3770 | 27 | J4 | 65 | 51 | 1108 | 466 | 1586 | 1935 | 1.0 | 511 | 697 | 4.8 | | |
| EP-21 | 05/21/98 | EPRL-9805-109 | GW | 0.41 | 7.26 | 7.80 | 5740 | 1096 | R 3237 | 269 | | 56 | 44 | 959 | 416 | 1640 | 2001 | 1.0 | U | 372 | 695 | 5.7 | |
| EP-21 | 08/24/98 | EPRL-9808-109 | GW | 0.31 | 7.41 | 8.00 | 5680 | 5670 | 3351 | 47 | | 52 | 46 | 1033 | 46 | 1692 | 2064 | 1.0 | U | 321 | 653 | 5.5 | |
| EP-21 | 11/16/98 | EPRL-9811-109 | GW | 0.20 | 7.57 | 8.0 | 5690 | 5630 | 3497 | 34 | | 60 | 46 | 1022 | 450 | 1708 | 2084 | 1.0 | U | 404 | 675 | 5.5 | |
| EP-21 | 02/24/99 | EPRL-9902-109 | GW | 0.400 | 7.56 | 8.1 | 5670 | 5486 | 3486 | 23 | | 44 | 40 | 919 | 347 | 1756 | 2142 | 1.0 | U | 405 | 570 | 6.0 | |
| EP-21 | 08/10/99 | EPRL-9908-109 | GW | 0.8 | 7.66 | 8 | 5140 | 5160 | 2974 | 19 | | 32 | 39 | 805 | 282 | 1730 | 2111 | 1.0 | U | 88 | 63 | 34 | |
| EP-21 | 11/03/99 | EPRL-9911-109 | GW | 1.3 | 7.28 | 7.9 | 5240 | 5760 | 2953 | 14 | | 35 | 40 | 768 | 294 | 1590 | 1940 | 1.0 | U | 114 | 586 | 34 | |
| EP-21 | 02/01/00 | EPRL-0002-109 | GW | 0.7 | 7.54 | 8.1 | 4880 | 1101 | R 2942 | 13 | 3499 | J3 | 25 | 36 | 714 | 322 | 1750 | 2135 | 1.0 | U | 104 | 638 | 34 |
| Average | | | | 0.60 | 7.45 | 7.97 | 5387 | 4770 | 3222 | 85 | UJ1 | 49 | 1032 | 450 | 1238 | 1510 | 1.0 | U | 1258 | 826 | 5.4 | | |
| Median | | | | 0.53 | 7.475 | 8 | 5680 | 5650 | 3282 | 47 | | 52 | 44 | 959 | 347 | 1692 | 2064 | 1.0 | U | 372 | 653 | 6 | |
| Standard Deviation | | | | 0.35 | 0.15 | 0.11 | 430 | 221 | 284 | | 1134 | 19 | 5 | 131 | 161 | 197 | 0.0 | 357 | 77 | 1 | | | |
| Minimum | | | | 0.20 | 7.26 | 7.80 | 4880 | 1096 | 2942 | 19 | | 25 | 36 | 714 | 46 | 1238 | 1510 | 1.0 | U | 88 | 570 | 5 | |
| Maximum | | | | 1.30 | 7.66 | 8.10 | 6260 | 8000 | 3770 | 3499 | | 85 | 51 | 1108 | 466 | 1756 | 2142 | 1.0 | U | 1258 | 826 | 7 | |
| EP-22 | 08/15/97 | EPRL-9708-110 | GW | 2.92 | 7.46 | 7.90 | 8540 | 8310 | 5188 | 14 | | 106 | 91 | 1168 | 180 | 1078 | 1315 | 1.0 | U | 1866 | 711 | 5.1 | |
| EP-22 | 11/18/97 | EPRL-9711-110 | GW | 1.01 | 7.16 | 7.40 | 9930 | 12900 | 7299 | 9 | J.U. | 350 | 164 | 1942 | 116 | 327 | 399 | 1.0 | U | 3341 | 1368 | 4.2 | |
| EP-22 | 02/18/98 | EPRL-9802-110 | GW | 3.75 | 7.49 | 7.60 | 9900 | 11910 | 6247 | 45 | J4 | 253 | 155 | 1664 | 281 | 729 | 889 | 1.0 | U | 2219 | 903 | 4.5 | |
| EP-22 | 06/10/98 | EPRL-9806-201 | GW | 2.26 | 7.63 | 7.63 | 9520 | 9360 | 6203 | 30410 | | 289 | 148 | 1477 | 245 | 2260 | 2684 | 1.0 | U | 2334 | 971 | 5.2 | |
| EP-22 | 08/24/98 | EPRL-9808-201 | GW | 0.170 | 7.26 | 7.8 | 6840 | 6850 | 3958 | 1162 | | 101 | 81 | 1226 | 104 | 952 | 1161 | 1.0 | U | 1571 | 691 | 3.9 | |
| EP-22 | 11/16/98 | EPRL-9811-201 | GW | 0.900 | 7.51 | 8.0 | 7480 | 7400 | 4045 | 441 | | 54 | 78 | 1292 | 126 | 1428 | 1742 | 1.0 | U | 1407 | 777 | 5.2 | |
| EP-22 | 01/26/00 | EPRL-0002-210 | GW | 2.8 | 7.19 | 7.9 | 7500 | 6930 | 5829 | 438 | | 448 | 161 | 1262 | 113 | 390 | 476 | 1.0 | U | 3940 | 499 | 2.2 | |
| Average | | | | 1.97 | 7.40 | 7.76 | 8337 | 9163 | 5338 | 4646 | | 125 | 1433 | 166 | 1015 | 1238 | 1.0 | U | 2383 | 846 | 4 | | |
| Median | | | | 2.26 | 7.46 | 7.8 | 8340 | 8510 | 5829 | 438 | | 148 | 1292 | 126 | 952 | 1161 | 1.0 | U | 2219 | 777 | 5 | | |
| Standard Deviation | | | | 1.30 | 0.17 | 0.21 | 1290 | 2424 | 11368 | 147 | | 40 | 282 | 71 | 649 | 792 | 0.0 | U | 935 | 277 | 1 | | |
| Minimum | | | | 0.17 | 7.16 | 7.40 | 6840 | 6850 | 3958 | 9 | | 54 | 78 | 1168 | 104 | 327 | 399 | 1.0 | U | 1407 | 499 | 2 | |
| Maximum | | | | 3.75 | 7.63 | 8.00 | 9980 | 12900 | 7299 | 30410 | | 448 | 164 | 1942 | 281 | 2200 | 2684 | 1.0 | U | 3940 | 1368 | 5 | |
| EP-23 | 08/11/97 | EPRL-9708-111 | GW | 1.17 | 7.36 | 7.50 | 6790 | 6640 | 5028 | 124 | | 218 | 115 | 930 | 80 | 212 | 259 | 1.0 | U | 3239 | 494 | 3.1 | |
| EP-23 | 11/04/97 | EPRL-9711-111 | GW | 0.73 | 7.51 | 7.70 | 6130 | 6810 | 4089 | 61 | | 181 | 96 | 876 | 76 | 264 | 322 | 1.0 | U | 2236 | 541 | 3.2 | |
| EP-23 | 02/04/98 | EPRL-9802-111 | GW | 1.45 | 7.42 | 7.70 | 6190 | 4183 | 45 | | | 192 | 99 | 854 | 76 | 252 | 307 | 1.0 | U | 2484 | 493 | 2.6 | |
| EP-23 | 05/11/98 | EPRL-9805-111 | GW | 0.88 | 7.13 | 7.60 | 5500 | 5790 | 3492 | 99 | | 131 | 71 | 821 | 70 | 330 | 403 | 1.0 | U | 1902 | 420 | 3.3 | |
| EP-23 | 08/12/98 | EPRL-9808-111 | GW | 0.99 | 7.47 | 7.7 | 5620 | 5010 | 3423 | 204 | | 168 | 89 | 874 | 62 | 357 | 436 | 1.0 | U | 1790 | 429 | 3.2 | |
| EP-23 | 11/05/98 | EPRL-9811-111 | GW | 0.60 | 7.50 | 7.5 | 5790 | 4650 | 3517 | 176 | | 115 | 64 | 829 | 52 | 339 | 414 | 1.0 | U | 1925 | 484 | 2.9 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) (fls) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (fild) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CACO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | | | | |
|--------------------|----------|----------------|------|-----------|----------|--------------------------------|---------------------------------|------|--------|------------------|--------------------|-----------------|-------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------|---------------|--------------|------|------|--------|------|-----|-----|
| EP-23 | 02/11/99 | EPRI-9902-111 | GW | 0.9 | 7.41 | 7.8 | 5470 | | | 152 | 80 | 640 | 65 | 363 | 443 | 1.0 | U | 1144 | 462 | 3.2 | | | | | |
| EP-23 | 05/07/99 | EPRI-9905-111 | GW | 1.9 | 7.29 | 7.8 | 4310 | 4420 | 2374 | 150 | 74 | 44 | 580 | 57 | 554 | 676 | 1.0 | U | 901 | 330 | 3.8 | | | | |
| EP-23 | 05/14/99 | EPRI-9905-111A | GW | | | | | 2388 | 47 | 14 | 69 | 49 | 599 | 97 | 588 | 717 | 14 | 1.0 | U | 1403 | 290 | 2.0 | | | |
| EP-23 | 08/04/99 | EPRI-9908-111 | GW | | 7.49 | 7.8 | 3750 | 3840 | 2130 | 23 | 49 | 31 | 618 | 37 | 628 | 766 | 1.0 | U | 838 | 257 | 4.2 | | | | |
| EP-23 | 10/30/99 | EPRI-9911-111 | GW | | 7.35 | 7.9 | 3340 | 3320 | 1706 | 18 | 37 | 23 | 491 | 32 | 769 | 938 | 1.0 | U | 540 | 267 | 4.6 | | | | |
| EP-23 | 02/01/00 | EPRI-0002-111 | GW | 1 | 7.49 | 7.8 | 4770 | 951 | R 2695 | 20 | 106 | 56 | 654 | 52 | 393 | 479 | 1.0 | U | 1386 | 383 | 3.3 | | | | |
| Average | | | | 1.07 | 7.40 | 7.72 | 5154 | 4802 | 3198 | 88 | 124 | 68 | 731 | 63 | 421 | 513 | 1.0 | | 1649 | 404 | 3 | | | | |
| Median | | | | 0.99 | 7.42 | 7.75 | 5485 | 4650 | 3385 | 74 | 123 | 68 | 738 | 64 | 360 | 440 | 1.0 | | 1597 | 425 | 3 | | | | |
| Standard Deviation | | | | 0.40 | 0.12 | 0.13 | 1070 | | 1806 | 949 | 59 | 29 | 147 | 18 | 173 | 211 | 0.0 | | 772 | 98 | 1 | | | | |
| Minimum | | | | 0.60 | 7.13 | 7.50 | 3340 | 951 | 1706 | 18 | 37 | 23 | 491 | 32 | 212 | 259 | 1.0 | | 540 | 257 | 2 | | | | |
| Maximum | | | | 1.90 | 7.51 | 7.90 | 6790 | | 7190 | 5028 | 204 | 218 | 115 | 930 | 97 | 769 | 938 | 1.0 | | 3239 | 541 | 5 | | | |
| EP-24 | 08/15/97 | EPRI-9708-112 | GW | 1.13 | 6.70 | 8.00 | 5150 | 4660 | 3451 | 17 | 174 | 55 | 910 | 25 | 800 | 976 | 1.0 | U | 765 | 831 | 1.6 | | | | |
| EP-24 | 11/18/97 | EPRI-9711-112 | GW | 0.00 | 0.00 | 7.70 | 5940 | 0 | 4168 | 8 | UJ 393 | 56 | 1030 | 53 | 850 | 1037 | 1.0 | U | 1338 | 1003 | 3.1 | | | | |
| EP-24 | 02/18/98 | EPRI-9802-112 | GW | 1.26 | 6.74 | 8.10 | 5130 | 5820 | 3259 | 16 | J4 213 | 47 | 1033 | 29 | 984 | 1200 | 1.0 | U | 305 | 1027 | 2.6 | | | | |
| EP-24 | 05/21/98 | EPRI-9805-112 | GW | 0.80 | 6.95 | 7.50 | 5380 | 999 | R 3208 | 143 | | 196 | 59 | 980 | 34 | 930 | 1135 | 1.0 | U | 577 | 1024 | 2.5 | | | |
| EP-24 | 08/24/98 | EPRI-9808-112 | GW | 0.50 | 6.79 | 7.3 | 5200 | | 5000 | 3172 | 17 | 180 | 56 | 1064 | 28 | 1056 | 1288 | 1.0 | U | 264 | 970 | 2.5 | | | |
| EP-24 | 11/16/98 | EPRI-9811-112 | GW | 0.60 | 6.93 | 7.7 | 5390 | | 5220 | 3328 | 12 | 179 | 53 | 1051 | 29 | 1070 | 1305 | 1.0 | U | 298 | 1087 | 2.4 | | | |
| EP-24 | 02/11/99 | EPRI-9902-112 | GW | | 7.8 | 5800 | | | 3336 | 79 | 206 | 80 | 920 | 35 | 1292 | 1576 | 1.0 | U | 206 | 1021 | 2.5 | | | | |
| EP-24 | 05/14/99 | EPRI-9905-112 | GW | | 7.4 | 640 | J3 | | 4137 | 31 | J4 212 | 92 | 1096 | 50 | 1346 | 1642 | 1.0 | U | 1132 | 1195 | 2.2 | | | | |
| EP-24 | 08/10/99 | EPRI-9908-112 | GW | 0.6 | 7.05 | 7.8 | 5680 | | 5640 | 3538 | 23 | 213 | 55 | 894 | 30 | 1130 | 1379 | 1.0 | U | 273 | 1044 | 2.4 | | | |
| EP-24 | 11/03/99 | EPRI-9911-112 | GW | 1 | 6.96 | 7.7 | 5200 | | 5990 | 3092 | J4 73 | 14 | 174 | 42 | 853 | 28 | 1168 | 1425 | J4 | 1.0 | U | 266 | 1006 | J4 | 2.5 |
| EP-24 | 02/01/00 | EPRI-0002-112 | GW | 0.3 | 6.93 | 7.5 | 5120 | 1072 | R 2742 | 26 | 159 | 40 | 940 | 29 | 1066 | 1301 | 1.0 | U | 111 | 1175 | J3 | 2.6 | | | |
| Average | | | | 0.69 | 6.12 | 7.68 | 5491 | | 3822 | 3403 | 40 | 209 | 58 | 979 | 34 | 1063 | 1297 | 1.0 | | 503 | 1035 | 2 | | | |
| Median | | | | 0.60 | 6.93 | 7.7 | 5380 | | 5000 | 3328 | 23 | 196 | 55 | 980 | 29 | 1066 | 1301 | 1.0 | | 298 | 1024 | 3 | | | |
| Standard Deviation | | | | 0.40 | 2.30 | 0.24 | 419 | | 2403 | 424 | 64 | 15 | 80 | 9 | 169 | 207 | 0.0 | | 407 | 98 | 0 | | | | |
| Minimum | | | | 0.00 | 0.00 | 7.30 | 5120 | 0 | 2742 | 8 | 159 | 40 | 853 | 25 | 800 | 976 | 1.0 | | 111 | 831 | 2 | | | | |
| Maximum | | | | 1.26 | 7.05 | 8.10 | 6410 | | 5990 | 4168 | 143 | 393 | 92 | 1096 | 53 | 1346 | 1642 | 1.0 | | 1338 | 1195 | 3 | | | |
| EP-25 | 08/15/97 | EPRI-9708-113 | GW | 1.32 | 7.13 | 7.40 | 5900 | | 5730 | 3995 | 84 | 113 | 40 | 1040 | 78 | 990 | 1208 | 1.0 | U | 695 | 1127 | 1.6 | | | |
| EP-25 | 11/19/97 | EPRI-9711-113 | GW | | 7.80 | 5470 | | | 3213 | J3 43 | 74 | 33 | 1136 | 59 | 1275 | 1556 | 1.0 | U | 304 | 965 | 1.7 | | | | |
| EP-25 | 02/18/98 | EPRI-9802-113 | GW | | 7.60 | 5420 | | | 3218 | 500 | J4 78 | 39 | 1232 | 53 | 1302 | 1588 | 1.0 | U | 147 | 937 | 1.6 | | | | |
| EP-25 | 05/21/98 | EPRI-9805-113 | GW | | 7.50 | 5750 | | | 3194 | | 125 | 34 | 1098 | 166 | 1050 | 1281 | 1.0 | U | 572 | 971 | 1.9 | | | | |
| EP-25 | 08/24/98 | EPRI-9808-113 | GW | | 7.2 | 5420 | | | 3362 | 3199 | 114 | 48 | 1084 | 70 | 1110 | 1354 | 1.0 | U | 522 | 853 | 1.4 | | | | |
| EP-25 | 11/16/98 | EPRI-9811-113 | GW | | 7.5 | 5470 | | | 3422 | 166 | 113 | 35- | 1134 | 120 | 1180 | 1440 | 1.0 | U | 515 | 852 | 1.9 | | | | |
| EP-25 | 05/14/99 | EPRI-9905-113 | GW | | 7.0 | 7880 | J3 | | 6245 | 12081 | A 675 | 50 | 700 | 738 | 632 | 771 | J4 | 1.0 | U | 2996 | 885 | 5.0 | | | |
| EP-25 | 08/11/99 | EPRI-9908-113 | GW | | 7.1 | 7210 | | | 5465 | 378 | 584 | 68 | 706 | 555 | 677 | 1.0 | | 1860 | 955 | 1.9 | | | | | |
| EP-25 | 11/03/99 | EPRI-9911-113 | GW | | 7.3 | 6580 | | | 4373 | J4 169 | 14 | 202 | 32 | 757 | 290 | 885 | 1080 | J4 | 1.0 | U | 1507 | J4 893 | 1.9 | | |
| EP-25 | 11/03/99 | EPRI-9911-238 | GW | 3.3 | 6.87 | 7.3 | 5640 | 5970 | 3270 | J4 126 | 14 | 198 | 31 | 757 | 287 | 1311 | 1599 | J4 | 1.0 | U | 554 | J4 683 | J4 | 2.1 | |
| EP-25 | 02/08/00 | EPRI-0002-113 | GW | | 7.6 | 5200 | | | 3118 | 460 | 103 | 20 | 862 | 214 | 1300 | 1586 | 1.0 | U | 198 | 775 | 2.2 | | | | |
| Average | | | | 2.64 | 6.94 | 7.41 | 6004 | | 5817 | 3898 | 1721 | 216 | 39 | 935 | 239 | 1054 | 1285 | 1.0 | | 897 | 900 | 2 | | | |
| Median | | | | 3.30 | 6.87 | 7.5 | 5640 | | 5750 | 3362 | 274 | 114 | 35 | 1040 | 166 | 1110 | 1354 | 1.0 | | 554 | 893 | 2 | | | |
| Standard Deviation | | | | 1.14 | 0.17 | 0.24 | 860 | 133 | 1056 | 3760 | 209 | 13 | 200 | 223 | 268 | 326 | 0.0 | | 875 | 115 | 1 | | | | |
| Minimum | | | | 1.32 | 6.82 | 7.00 | 5200 | 5730 | 3118 | 43 | 74 | 20 | 700 | 53 | 555 | 677 | 1.0 | | 147 | 683 | 1 | | | | |
| Maximum | | | | 3.30 | 7.13 | 7.80 | 7880 | 5970 | 6245 | 12081 | 675 | 68 | 1232 | 738 | 1311 | 1599 | 1.0 | | 2996 | 1127 | 5 | | | | |
| EP-26 | 08/11/97 | EPRI-9708-114 | GW | 5.26 | 7.69 | 7.20 | 544 | | 568 | 395 | 163 | 23 | 37 | 88 | 6.9 | 37 | 45 | 1.0 | U | 157 | 43 | 0.86 | | | |
| EP-26 | 11/04/97 | EPRI-9711-114 | GW | 5.05 | 7.15 | 7.30 | 1700 | 1900 | 1191 | 99 | 62 | 13 | 244 | 20 | 36 | 44 | 1.0 | U | 561 | 163 | 1.4 | | | | |

**Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions**

| Site | Date | Samp # | Type | (O) | pH (fwd) | Specific Conductivity SC (fwd) | Specific Conductivity SC (lab) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CACO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | |
|--------------------|----------|---------------|------|------|----------|--------------------------------|--------------------------------|------|-------|------------------|--------------------|-----------------|-------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------|---------------|--------------|------|
| EP-26 | 02/04/98 | EPRI-9802-114 | GW | 5.74 | 7.58 | 7.40 | 202 | 239 | 145 | 100 | 9.1 | 2 | 26 | 13 | 21 | 26 | 1.0 | 46 | 12 | |
| EP-26 | 03/07/98 | EPRI-9805-114 | GW | 6.30 | 7.64 | 7.00 | 141 | 170 | 102 | 70 | 9.9 | 1.5 | 14 | 15 | 17 | 21 | 1.0 | U | 5.3 | |
| EP-26 | 08/12/98 | EPRI-9808-114 | GW | 5.59 | 7.21 | 7.4 | 188 | 190 | 85 | 13 | 2.1 | 18 | 5 | U | 36 | 44 | 1.0 | U | 10 | |
| EP-26 | 11/04/98 | EPRI-9811-114 | GW | 5.70 | 7.99 | 6.4 | 412 | 448 | 282 | 146 | 21 | 3.1 | 44 | 7.3 | 20 | 24 | 1.0 | U | 104 | |
| EP-26 | 02/04/99 | EPRI-9902-114 | GW | 6.90 | 7.26 | 7.4 | 133 | 170 | 78 | 51 | 14 | 8.3 | 1.1 | 14 | 5 | U | 20 | 1.0 | U | 19 |
| EP-26 | 03/05/99 | EPRI-9905-114 | GW | 2.10 | 7.02 | 7.3 | 362 | 4440 | R 239 | 30 | 4.1 | 25 | 5.0 | 34 | 41 | 1.0 | U | 29 | 7.6 | |
| EP-26 | 08/04/99 | EPRI-9908-114 | GW | 0.5 | 7.07 | 7.4 | 2000 | 2200 | 1466 | 29 | 176 | 24 | 204 | 21 | 46 | 56 | 1.0 | U | 738 | |
| EP-26 | 01/26/00 | EPRI-0002-114 | GW | 0.5 | 7.16 | 7.9 | 4440 | 4210 | 3169 | 450 | 231 | 71 | 753 | 42 | 264 | 322 | 1.0 | U | 147 | |
| Average | | | | 4.79 | 7.38 | 7.27 | 1012 | 1454 | 720 | 144 | 58 | 13 | 143 | 14 | 53 | 64 | 1.0 | 332 | 88 | |
| Median | | | | 5.59 | 7.235 | 7.35 | 387 | 508 | 261 | 100 | 22 | 3 | 35 | 10 | 35 | 43 | 1.0 | 97 | 19 | |
| Standard Deviation | | | | 2.09 | 0.32 | 0.38 | 1377 | 1681 | 988 | 124 | 79 | 22 | 230 | 12 | 75 | 91 | 0.0 | 491 | 141 | |
| Minimum | | | | 0.50 | 7.02 | 6.40 | 133 | 170 | 78 | 29 | 8 | 1 | 14 | 5 | 16 | 20 | 1.0 | 26 | 5 | |
| Maximum | | | | 6.90 | 7.99 | 7.90 | 4440 | 4440 | 3169 | 450 | 231 | 71 | 753 | 42 | 264 | 322 | 1.0 | 1537 | 451 | |
| EP-29 | 08/07/97 | EPRI-9708-115 | GW | 2.77 | 7.41 | 8.00 | 3090 | 3110 | 2085 | 1.1 | 79 | 27 | 567 | 29 | 312 | 381 | 1.0 | U | 742 | |
| EP-29 | 11/03/97 | EPRI-9711-115 | GW | 0.52 | 7.09 | 7.90 | 2960 | 3610 | 2096 | 56 | 50 | 18 | 576 | 24 | 324 | 395 | 1.0 | U | 706 | |
| EP-29 | 02/03/98 | EPRI-9802-115 | GW | 0.68 | 7.47 | 8.00 | 3100 | 3890 | 2073 | 13 | 52 | 20 | 677 | 27 | 234 | 285 | 1.0 | U | 973 | |
| EP-29 | 05/06/98 | EPRI-9805-115 | GW | 4.14 | 7.59 | 8.00 | 3180 | 3470 | 2159 | 23 | 69 | 26 | 654 | 31 | 342 | 417 | 1.0 | U | 793 | |
| EP-29 | 08/06/98 | EPRI-9808-115 | GW | 5.67 | 8.68 | 8.7 | 3070 | 3140 | 2129 | 23 | 39 | 21 | 681 | 19 | 160 | 177 | 9.0 | 939 | 339 | |
| EP-29 | 11/04/98 | EPRI-9811-115 | GW | 5.20 | 8.42 | 8.5 | 3350 | 3150 | 2185 | 89 | 40 | 23 | 646 | 22 | 195 | 217 | 10.0 | 981 | 372 | |
| EP-29 | 02/03/99 | EPRI-9902-115 | GW | 4.1 | 8.06 | 8.1 | 3130 | 3410 | 2121 | 211 | 49 | 21 | 660 | 22 | 226 | 337 | 1.0 | U | 743 | |
| EP-29 | 05/04/99 | EPRI-9905-115 | GW | 2.30 | 7.68 | 8.2 | 3160 | 3120 | 2079 | 170 | 14 | 22 | 732 | 16 | 260 | 317 | 1.0 | U | 1049 | |
| EP-29 | 05/05/99 | EPRI-9905-117 | GW | 7.69 | 8.1 | 3140 | 3130 | 1771 | 280 | 14 | 49 | 22 | 714 | 15 | 241 | 294 | 1.0 | U | 812 | |
| EP-29 | 08/02/99 | EPRI-9908-115 | GW | 3.5 | 7.59 | 7.8 | 3180 | 3220 | 2143 | 1160 | 57 | 22 | 500 | 18 | 380 | 464 | 1.0 | U | 741 | |
| EP-29 | 10/26/99 | EPRI-9911-115 | GW | 2.4 | 7.42 | 8.2 | 3160 | 3130 | 2052 | 572 | 14 | 76 | 23 | 597 | 22 | 298 | 364 | 13.14 | 302 | |
| EP-29 | 01/31/00 | EPRI-0002-115 | GW | 1.6 | 7.62 | 8.1 | 3190 | 3040 | 2063 | 542 | 66 | 21 | 686 | 18 | 239 | 292 | 1.0 | U | 877 | |
| Average | | | | 2.93 | 7.73 | 8.13 | 3143 | 3285 | 2080 | 262 | 56 | 22 | 641 | 22 | 272 | 328 | 2.4 | 850 | 318 | |
| Median | | | | 2.59 | 7.605 | 8.1 | 3150 | 3145 | 2091 | 130 | 51 | 22 | 657 | 22 | 268 | 327 | 1.0 | 821 | 314 | |
| Standard Deviation | | | | 1.64 | 0.45 | 0.25 | 91 | 238 | 105 | 345 | 13 | 2 | 68 | 5 | 63 | 82 | 3.3 | 114 | 24 | |
| Minimum | | | | 0.52 | 7.09 | 7.80 | 2960 | 3040 | 1771 | 1 | 39 | 18 | 500 | 15 | 160 | 177 | 1.0 | 706 | 289 | |
| Maximum | | | | 5.67 | 8.68 | 8.70 | 3350 | 3180 | 2185 | 1160 | 79 | 27 | 732 | 31 | 380 | 464 | 10.0 | 1049 | 372 | |
| EP-35 | 08/07/97 | EPRI-9708-116 | GW | 5.98 | 7.55 | 8.00 | 6530 | 6150 | 5678 | 4.8 | 395 | 176 | 1124 | 26 | 196 | 239 | 1.0 | U | 2558 | |
| EP-35 | 11/03/97 | EPRI-9711-116 | GW | 1.75 | 6.92 | 7.50 | 6340 | 7420 | 5731 | 73 | 408 | 165 | 1116 | 19 | 404 | 493 | 1.0 | U | 2396 | |
| EP-35 | 02/03/98 | EPRI-9802-116 | GW | 2.11 | 6.99 | 7.60 | 6760 | 7940 | 5859 | 14 | 443 | 170 | 1108 | 19 | 402 | 490 | 1.0 | U | 2654 | |
| EP-35 | 05/06/98 | EPRI-9805-116 | GW | 2.47 | 7.15 | 7.20 | 6530 | 6950 | 5225 | 928 | 436 | 152 | 1192 | 29 | 492 | 600 | 1.0 | U | 2357 | |
| EP-35 | 08/06/98 | EPRI-9808-116 | GW | 1.89 | 6.91 | 7.6 | 6300 | 5300 | 5359 | 212 | 417 | 163 | 1154 | 22 | 396 | 483 | 1.0 | U | 2426 | |
| EP-35 | 11/04/98 | EPRI-9811-116 | GW | 1.90 | 7.11 | 7.2 | 6220 | 6100 | 5032 | 307 | 374 | 125 | 986 | 21 | 408 | 498 | 1.0 | U | 2357 | |
| EP-35 | 02/04/99 | EPRI-9902-116 | GW | 3.80 | 7.03 | 7.4 | 6410 | 6140 | 5282 | 93 | 44 | 402 | 145 | 22 | 442 | 539 | 1.0 | U | 2158 | |
| EP-35 | 05/04/99 | EPRI-9905-116 | GW | 1.90 | 6.98 | 7.4 | 6810 | 6730 | 5702 | 266 | 14 | 426 | 166 | 1119 | 18 | 465 | 567 | 1.0 | U | 2822 |
| EP-35 | 08/02/99 | EPRI-9908-116 | GW | 2.9 | 6.92 | 7.1 | 6920 | 7000 | 6040 | 398 | 14 | 476 | 160 | 900 | 19 | 500 | 610 | 1.0 | U | 2620 |
| EP-35 | 10/26/99 | EPRI-9911-116 | GW | 1.7 | 6.71 | 7.8 | 6770 | 6740 | 5791 | 454 | 14 | 441 | 148 | 1018 | 18 | 516 | 630 | 13.14 | 1086 | |
| EP-35 | 01/31/00 | EPRI-0002-116 | GW | 1.7 | 6.91 | 7.7 | 6660 | 6350 | 5452 | 522 | 160 | 1071 | 20 | 499 | 609 | 1.0 | U | 2414 | 466 | |
| Average | | | | 2.55 | 7.02 | 7.50 | 6568 | 6620 | 5559 | 297 | 429 | 157 | 1075 | 21 | 429 | 523 | 1.0 | U | 2559 | |
| Median | | | | 1.90 | 6.98 | 7.5 | 6530 | 6730 | 5678 | 266 | 426 | 160 | 1108 | 20 | 442 | 539 | 1.0 | U | 2426 | |
| Standard Deviation | | | | 1.30 | 0.21 | 0.28 | 233 | 721 | 309 | 274 | 37 | 14 | 84 | 3 | 40 | 109 | 0.0 | U | 328 | |
| Minimum | | | | 1.70 | 6.71 | 7.10 | 6220 | 5300 | 5032 | 5 | 374 | 125 | 900 | 18 | 196 | 239 | 1.0 | U | 2158 | |
| Maximum | | | | 5.98 | 7.55 | 8.00 | 6920 | 7940 | 6040 | 502 | 176 | 1192 | 29 | 516 | 630 | 1.0 | U | 3387 | 1086 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (fl) | Conductivity SC (mV) | Specific Conductivity SC (mV) | TDS | TSS | Calcium (C.A) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | | |
|--------------------|----------|----------------|------|------|------------|-------------------------|-------------------------------------|-------|-------|----------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|------|-----|
| EP-43 | 11/03/97 | EPRI-9711-172 | GW | 0.52 | 7.31 | 7.60 | 4930 | 5830 | 3361 | 14 | 118 | 55 | 974 | 60 | 538 | 656 | 1.0 | U | 987 | 806 | 2.6 | | |
| EP-43 | 02/03/98 | EPRI-9802-175 | GW | 0.03 | 7.09 | 7.50 | 9590 | 11980 | 6434 | 35 | 261 | 145 | 1692 | 58 | 590 | 720 | 1.0 | U | 1425 | 2405 | 2.1 | | |
| EP-43 | 05/20/98 | EPRI-9805-175 | GW | 1.50 | 7.07 | 7.50 | 4930 | 4480 | 3151 | 14 | 188 | 66 | 922 | 44 | 520 | 634 | 1.0 | U | 1073 | 785 | 2.4 | | |
| EP-43 | 08/27/98 | EPRI-9808-175 | GW | 1.01 | 6.94 | 7.3 | 4720 | 4780 | 3337 | 40 | 213 | 69 | 892 | 32 | 517 | 631 | 1.0 | U | 1242 | 615 | 2 | | |
| EP-43 | 11/16/98 | EPRI-9811-175 | GW | 7.2 | 5650 | | | | 3105 | 753 | 218 | 74 | 1118 | 36 | 695 | 848 | 1.0 | U | 897 | 1022 | 2.1 | | |
| EP-43 | 02/25/99 | EPRI-9902-176 | GW | 7.8 | 7140 | | | | 4905 | 190 | 14 | 248 | 108 | 1187 | 37 | 560 | 683 | 1.0 | U | 1156 | 1269 | 2.2 | |
| EP-43 | 02/25/99 | EPRI-9902-196 | GW | 7.7 | 7090 | | | | 4876 | 242 | 14 | 252 | 108 | 1220 | 36 | 549 | 670 | 1.0 | U | 1066 | 1302 | 2.2 | |
| EP-43 | 05/14/99 | EPRI-9905-117 | GW | 7.4 | 8660 | 13 | | | 6257 | 52 | 14 | 385 | 133 | 1374 | 77 | 700 | 854 | 14 | U | 1484 | 1535 | 2.0 | |
| EP-43 | 08/11/99 | EPRI-9908-117 | GW | 2 | 7.57 | 7.5 | 8070 | 6880 | 5598 | 15 | 354 | 125 | 1246 | 47 | 659 | 804 | 1.0 | U | 1790 | 1601 | 2.3 | | |
| EP-43 | 08/11/99 | EPRI-9908-206 | GW | 1.3 | 7.61 | 7.5 | 8060 | 6890 | 5660 | 14 | 371 | 129 | 1266 | 47 | 656 | 800 | 1.0 | U | 1774 | 1528 | 2.3 | | |
| EP-43 | 10/29/99 | EPRI-9911-117 | GW | 7.7 | 7.72 | 7.8 | 8130 | 7320 | 4652 | 14 | 30 | 34 | 294 | 123 | 1206 | 36 | 560 | 683 | 1.0 | U | 1183 | 1628 | 1.9 |
| EP-43 | 02/08/00 | EPRI-0002-117 | GW | 7.3 | 3900 | | | | 2540 | 230 | 144 | 46 | 742 | 33 | 864 | 1054 | 1.0 | U | 449 | 478 | 2.5 | | |
| Average | | | | 2.01 | 7.33 | 7.51 | 6736 | 6880 | 4486 | 136 | 254 | 98 | 1153 | 45 | 617 | 753 | 1.0 | U | 1211 | 1248 | 2 | | |
| Median | | | | 1.30 | 7.31 | 7.5 | 7115 | 6880 | 4784 | 38. | 250 | 108 | 1197 | 41 | 575 | 702 | 1.0 | U | 1170 | 1286 | 2 | | |
| Standard Deviation | | | | 2.59 | 0.31 | 0.19 | 1837 | 2499 | 1339 | 213 | 86 | 34 | 251 | 14 | 102 | 125 | 0.0 | | 375 | 542 | 0 | | |
| Minimum | | | | 0.03 | 6.94 | 7.20 | 3900 | 4480 | 2540 | 14 | 118 | 46 | 742 | 32 | 517 | 631 | 1.0 | | 449 | 478 | 2 | | |
| Maximum | | | | 7.70 | 7.72 | 7.80 | 9590 | 11980 | 6434 | 753 | 385 | 145 | 1692 | 77 | 864 | 1054 | 1.0 | | 1790 | 2405 | 3 | | |
| EP-44 | 10/26/99 | EPRI-9911-162 | GW | 1.40 | 7.92 | 8.00 | 5740 | 5710 | 4586 | 848 | 34 | 413 | 165 | 735 | 65 | 333 | 406 | J3.14 | 1.0 | .03 | 2466 | 368 | 3 |
| EP-49 | 11/19/97 | EPRI-9711-117 | GW | | | 3.50 | 11740 | | 17185 | 465 | 493 | 303 | 869 | 182 | 1 | 1 | U | 1.0 | U | 9515 | 867 | 33 | |
| EP-49 | 02/19/98 | EPRI-9802-117 | GW | | | 4.00 | 11440 | | 17442 | 430 | 466 | 305 | 614 | 207 | 1 | 1 | U | 1.0 | U | 7869 | 782 | 25 | |
| EP-49 | 05/21/98 | EPRI-9805-117 | GW | | | 3.60 | 10920 | | 14614 | 315 | 468 | 291 | 930 | 209 | 1 | 1 | U | 1.0 | U | 8599 | 689 | 30 | |
| EP-49 | 08/27/98 | EPRI-9808-117 | GW | 5.3 | 3.8 | 11000 | | 16111 | 254 | 515 | 270 | 1045 | 205 | 1 | 1.0 | U | 1.0 | U | 8448 | 822 | 27 | | |
| EP-49 | 11/16/98 | EPRI-9811-117 | GW | | | 3.7 | 10800 | | 15347 | 515 | 470 | 258 | 1549 | 240 | 1 | 1.0 | U | 1.0 | U | 8976 | 750 | 27 | |
| EP-49 | 02/25/99 | EPRI-9902-117 | GW | 4.5 | 12320 | | | | 13384 | 545 | 34 | 472 | 237 | 794 | 240 | 1 | 1.0 | U | 1.0 | U | 5907 | 684 | 24 |
| EP-49 | 05/14/99 | EPRI-9905-118 | GW | | | 4.2 | 10570 | J3 | 14083 | 804 | 493 | 288 | 819 | 342 | 1 | 1.0 | JU | 1.0 | U | 7140 | 727 | 23 | |
| EP-49 | 11/02/99 | EPRI-9911-118 | GW | | | 5.4 | 10440 | | 10031 | 329 | 462 | 231 | 1070 | 265 | 34 | 41.5 | 1.0 | U | 4941 | 840 | 15 | | |
| EP-49 | 01/29/00 | EPRI-0002-118 | GW | 0.1 | 6.62 | 7.4 | 9960 | | 9330 | 7543 | 13 | 481 | 138 | 1752 | 267 | 760 | 927 | 1.0 | U | 4359 | 748 | 6.8 | |
| Average | | | | 5.96 | 4.46 | 11021 | 9530 | 13971 | 408 | 480 | 258 | 1049 | 240 | 89 | 108 | 1.0 | | | 7306 | 768 | 23 | | |
| Median | | | | 5.96 | 4 | 10920 | 9430 | 14614 | 430 | 472 | 270 | 930 | 240 | 1 | 1 | 1.0 | | | 7869 | 750 | 25 | | |
| Standard Deviation | | | | 5.30 | 3.50 | 9960 | 9530 | 13971 | 408 | 480 | 258 | 1049 | 240 | 89 | 108 | 0.0 | | 1845 | 65 | 8 | | | |
| Minimum | | | | 6.62 | 7.40 | 12320 | 9530 | 17442 | 804 | 515 | 305 | 1752 | 342 | 760 | 927 | 1.0 | | 4359 | 684 | 7 | | | |
| Maximum | | | | | | | | | | | | | | | | | | 9515 | 867 | 33 | | | |
| EP-51 | 08/11/97 | EPRI-9708-118A | GW | 0.70 | 6.73 | | | | 10400 | | | | | | | | | | | | | | |
| EP-51 | 08/26/97 | EPRI-9708-118 | GW | 9.40 | 7.75 | 7.30 | 11800 | 10630 | 9339 | 35 | 34 | 655 | 478 | 1416 | 54 | 214 | | | 2125 | 2649 | 0.78 | | |
| EP-51 | 11/06/97 | EPRI-9711-118 | GW | 2.35 | 6.58 | 7.30 | 11670 | 12140 | 9116 | 41 | 658 | 469 | 1437 | 47 | 220 | 268 | 1.0 | U | 2401 | 2609 | 1.5 | | |
| EP-51 | 11/06/97 | EPRI-9711-174 | GW | | | | | 11440 | | | | | | | | | | 1.0 | U | 2432 | 2746 | 1.6 | |
| EP-51 | 02/12/98 | EPRI-9802-118 | GW | 0.03 | 5.85 | 6.90 | 11070 | 13050 | 8391 | 36 | J3 | 690 | 412 | 1322 | 51 | 210 | 256 | 1.0 | U | 2550 | 2369 | 7.3 | |
| EP-51 | 05/11/98 | EPRI-9805-118 | GW | 1.42 | 6.29 | 8.20 | 11800 | 9890 | 8933 | 31 | 653 | 471 | 1501 | 63 | 252 | 307 | 1.0 | U | 2475 | 2627 | 2.1 | | |
| EP-51 | 08/12/98 | EPRI-9808-118 | GW | 3.59 | 6.71 | 7.20 | 10080 | 9270 | 8072 | 12 | 628 | 413 | 1304 | 42 | 205 | 250 | 1.0 | U | 2160 | 1983 | 1.4 | | |
| EP-51 | 11/05/98 | EPRI-9811-118 | GW | 1.00 | 6.67 | 6.8 | 9840 | - | 8180 | 7364 | 22 | 535 | 1133 | 43 | 198 | 242 | 1.0 | U | 1855 | 1956 | 1.2 | | |
| EP-51 | 11/05/98 | EPRI-9811-178 | GW | | | | | | 7079 | 21 | 543 | 354 | 1145 | 42 | 204 | 249 | 1.0 | U | 1966 | 1953 | 1.2 | | |
| EP-51 | 02/09/99 | EPRI-9902-118 | GW | 2.10 | 6.86 | 7.4 | 9060 | 8760 | 6783 | 24 | 584 | 366 | 880 | 45 | 189 | 231 | 1.0 | U | 1848 | 14 | 1671 | | |
| EP-51 | 02/09/99 | EPRI-9902-183 | GW | 2.10 | 6.87 | 7.4 | 9140 | 8780 | 7050 | 22 | 561 | 363 | 870 | 45 | 184 | 224 | 1.0 | U | 1340 | 14 | 1641 | | |
| EP-51 | 05/06/99 | EPRI-9903-119 | GW | 1.2 | 6.63 | 7.3 | 9870 | 9760 | 7314 | 27 | 547 | 409 | 1158 | 41 | 14 | 200 | 244 | 1.0 | U | 1940 | 13 | 2024 | |
| EP-51 | 08/04/99 | EPRI-9903-119 | GW | | 6.87 | 7.2 | 11040 | 9560 | 8470 | 22 | 590 | 400 | 1038 | 39 | 187 | 228 | 1.0 | U | 2458 | 2357 | 1.8 | | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (fld) | pH (lab) | Specific Conductivity SC (fld) | Specific Conductivity SC (lab) | TDS | TSS | Calcium (Ca) DIS | Magnesium (Mg) DIS | Sodium (Na) DIS | Potassium (K) DIS | Total Alkalinity as CaCO3 | Bicarbonate (HCO3) | Carbonate (CO3) | Sulfate (SO4) | Chloride (Cl) | Fluoride (F) | |
|--------------------|----------|----------------|------|------|----------|----------|--------------------------------|--------------------------------|------|-------|------------------|--------------------|-----------------|-------------------|---------------------------|--------------------|-----------------|---------------|---------------|--------------|-----|
| EP-51 | 08/04/99 | EPRI-9908-196 | GW | 6.88 | 7.2 | 11020 | 9570 | 8498 | 25 | 600 | 400 | 1068 | 40 | 179 | 218 | 1.0 | 2598 | 2327 | 1.8 | | |
| EP-51 | 11/02/99 | EPRI-9911-119 | GW | 1.6 | 6.71 | 7.3 | 9920 | 9840 | 6873 | 31 | 582 | 378 | 958 | 34 | 181 | 221 | 1.0 | 2133 | 1759 | 1.9 | |
| EP-51 | 01/26/00 | EPRI-0002-119 | GW | 6.86 | 6.86 | 7.5 | 9820 | 9000 | 6849 | 38 | 588 | 378 | 1028 | 39 | 210 | 256 | 1.0 | 2147 | 2154 | 1.2 | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-52 | 11/06/97 | EPRI-9711-173 | GW | 6.54 | 6.10 | 7.10 | 9750 | 11000 | 8243 | 57 | 537 | 211 | 1893 | 23 | 468 | 571 | 1.0 | 2953 | 1330 | 6.3 | |
| EP-52 | 02/12/98 | EPRI-9802-176 | GW | 2.00 | 6.03 | 6.90 | 10870 | 13320 | 9266 | 86 | 13 | 581 | 252 | 2276 | 23 | 526 | 642 | 1.0 | 3558 | 1468 | 6.3 |
| EP-52 | 08/12/98 | EPRI-9808-176 | GW | 3.33 | 6.17 | 7.0 | 10580 | 10850 | 9183 | 14 | 587 | 258 | 1936 | 33 | 574 | 700 | 1.0 | 3566 | 1297 | 6.4 | |
| EP-52 | 08/12/98 | EPRI-9808-182 | GW | 7.1 | 10560 | 9036 | 12 | 593 | 266 | 2099 | 35 | 572 | 698 | 728 | 1.0 | 3546 | 1238 | 4.8 | 4.8 | | |
| EP-52 | 11/05/98 | EPRI-9811-176 | GW | 2.30 | 6.28 | 6.6 | 11100 | 9710 | 9241 | 51 | 563 | 253 | 1931 | 26 | 597 | 728 | 1.0 | 3593 | 1308 | 6.4 | |
| EP-52 | 02/09/99 | EPRI-9902-119 | GW | 4.9 | 6.38 | 7.1 | 11150 | 11040 | 9559 | 51 | 552 | 275 | 1730 | 26 | 579 | 706 | 1.0 | 3665 | 14 | 6.4 | |
| EP-52 | 05/06/99 | EPRI-9905-120 | GW | 1.70 | 6.20 | 7.3 | 11250 | 11880 | 9489 | 30 | 522 | 276 | 2170 | 25 | 541 | 587 | 716 | 1.0 | 4484 | 13 | 6.6 |
| EP-52 | 08/05/99 | EPRI-9908-120 | GW | 0.7 | 6.21 | 7.2 | 11190 | 12290 | 9637 | 15 | 512 | 267 | 1823 | 21 | 560 | 683 | 1.0 | 4606 | 1269 | 6.3 | |
| EP-52 | 10/29/99 | EPRI-9911-120 | GW | 1.5 | 6.07 | 7 | 11250 | 9900 | 8587 | 12 | 14 | 454 | 243 | 1709 | 19 | 603 | 736 | 1.0 | 3893 | 1308 | 6 |
| EP-52 | 01/26/00 | EPRI-0002-120 | GW | 0.4 | 6.38 | 8.6 | 11940 | 11220 | 9533 | 12 | 536 | 285 | 2209 | 21 | 618 | 622 | 64.8 | 3910 | 1429 | 6.3 | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-53 | 08/11/97 | EPRI-9708-172 | GW | 7.74 | 6.58 | 7.20 | 7790 | 7300 | 6759 | 239 | 394 | 89 | 1450 | 147 | 252 | 307 | 1.0 | 3200 | 494 | 4.9 | |
| EP-53 | 02/04/98 | EPRI-9802-178 | GW | 1.43 | 6.43 | 7.00 | 7590 | 9580 | 6775 | 277 | 527 | 101 | 1264 | 124 | 210 | 256 | 1.0 | 3266 | 515 | 5.9 | |
| EP-53 | 06/10/98 | EPRI-9806-200 | GW | 2.17 | 6.68 | 6.90 | 7470 | 7780 | 6249 | 275 | 475 | 82 | 1365 | 118 | 244 | 298 | 1.0 | 2825 | 520 | 6.3 | |
| EP-53 | 08/12/98 | EPRI-9808-178 | GW | 0.99 | 6.66 | 7.2 | 7550 | 5010 | 6182 | 634 | 469 | 86 | 1270 | 120 | 285 | 348 | 1.0 | 2723 | 463 | 5.9 | |
| EP-53 | 11/05/98 | EPRI-9811-119 | GW | 1.1 | 7.08 | 6.8 | 7980 | 6540 | 6819 | 177 | 516 | 90 | 1333 | 108 | 215 | 262 | 1.0 | 2915 | 444 | 5.0 | |
| EP-53 | 02/04/99 | EPRI-9902-120 | GW | 1.80 | 6.44 | 7.1 | 7040 | 780 | 6033 | 2356 | 14 | 509 | 83 | 1140 | 127 | 280 | 342 | 1.0 | 2665 | 424 | 6.2 |
| EP-53 | 05/05/99 | EPRI-9905-121 | GW | 1.60 | 6.63 | 7.3 | 7120 | 15650 | R | 5804 | 238 | 443 | 86 | 1245 | 92 | 255 | 311 | 1.0 | 3166 | 13 | 421 |
| EP-53 | 08/04/99 | EPRI-9908-121 | GW | 1.85 | 7.1 | 7190 | 7240 | 5334 | 428 | 330 | 96 | 937 | 76 | 258 | 313 | 1.0 | 2905 | 447 | 5.6 | | |
| EP-53 | 10/26/99 | EPRI-9911-121 | GW | 1 | 6.38 | 6.8 | 7380 | 7330 | 6050 | 440 | 14 | 534 | 95 | 1093 | 92 | 129 | 157 | J3, J4 | 1.0 | 3108 | |
| EP-53 | 02/01/00 | EPRI-0002-121 | GW | 2 | 6.75 | 7.6 | 7520 | 1594 | R | 5620 | 818 | 473 | 101 | 1337 | 80 | 290 | 354 | 1.0 | 2786 | 403 | 5.3 |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-54 | 08/11/97 | EPRI-9708-119A | GW | 1.64 | 6.06 | | 10470 | | | | | | | | | | | | | | |
| EP-54 | 08/26/97 | EPRI-9708-119 | GW | 6.60 | 6.90 | 11340 | | 1980 | R | 10210 | 386 | 432 | 276 | 1842 | 345 | 360 | 439 | 1.0 | 5049 | 891 | 6 |
| EP-54 | 11/06/97 | EPRI-9711-119 | GW | 2.51 | 6.14 | 6.80 | 10750 | 12010 | 9568 | 222 | 455 | 307 | 1984 | 375 | 407 | 497 | 1.0 | 5255 | 791 | 13 | |
| EP-54 | 02/12/98 | EPRI-9802-119 | GW | 1.94 | 5.98 | 7.40 | 10100 | 11060 | 8548 | 43 | J3 | 414 | 255 | 1788 | 342 | 464 | 566 | 1.0 | 4900 | 790 | 5.7 |
| EP-54 | 05/11/98 | EPRI-9805-119 | GW | 1.93 | 6.20 | 7.10 | 9780 | 11910 | 8370 | 33 | 469 | 286 | 1576 | 378 | 445 | 543 | 1.0 | 4548 | 751 | 1.3 | |
| EP-54 | 08/12/98 | EPRI-9808-119 | GW | 3.35 | 6.31 | 7.2 | 10200 | 11320 | 8465 | 25 | 515 | 320 | 1881 | 320 | 636 | 776 | 1.0 | 4762 | 708 | 12 | |
| EP-54 | 11/05/98 | EPRI-9811-119 | GW | 5.8 | 6.48 | 6.7 | 10680 | 9280 | 8922 | 127 | 448 | 272 | 1811 | 300 | 690 | 842 | 1.0 | 4911 | 754 | 11 | |

**Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions**

| Site | Date | Samp # | Type | (O) | pH (flu) | pH (lab) | Specific Conductivity SC (lab) | Specific Conductivity SC (flu) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CACO ₃ | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | | | | |
|--------------------|----------|----------------|------|-------|----------|----------|--------------------------------|--------------------------------|-------|------|------------------|--------------------|-----------------|-------------------|---------------------------------------|------------------------------|----------------------------|---------------|--------------|------|------|------|-----|----|
| EP-54 | 02/09/99 | EPRL-9902-121 | GW | 5.70 | 7.4 | 10500 | | 8843 | 60 | 453 | 284 | 1410 | 320 | 741 | 904 | 1.0 | U | 3504 | 14 | 756 | | | | |
| EP-54 | 05/06/99 | EPRL-9905-122 | GW | 5.9 | 6.35 | 7.1 | 9540 | 11490 | 7806 | 57 | 432 | 286 | 1484 | 367 | 744 | 908 | 1.0 | U | 4250 | 13 | 704 | | | |
| EP-54 | 05/07/99 | EPRL-9905-122A | GW | 2.6 | 6.43 | 7.7 | 8880 | 9300 | 7363 | 58 | 395 | 226 | 1411 | 261 | 694 | 847 | 1.0 | U | 4217 | 13 | 648 | | | |
| EP-54 | 08/04/99 | EPRL-9908-122 | GW | 6.37 | 7 | 11000 | | 11260 | 9098 | 17 | 497 | 295 | 1884 | 330 | 816 | 996 | 1.0 | U | 4971 | 11 | 727 | | | |
| EP-54 | 10/29/99 | EPRL-9911-122 | GW | 7.4 | 6.57 | 7.4 | 10500 | 8290 | 7671 | 60 | 34 | 230 | 1441 | 258 | 910 | 1110 | 1.0 | U | 3713 | 12 | 769 | | | |
| EP-54 | 01/26/00 | EPRL-0002-122 | GW | 7.9 | 6.51 | 7 | 7940 | 9910 | 5711 | 31 | 488 | 239 | 1269 | 290 | 714 | 871 | 1.0 | U | 3228 | 12 | 625 | | | |
| Average | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | | | |
| EP-55 | 08/15/97 | EPRL-9708-120 | GW | 1.85 | 6.17 | 7.00 | 10550 | 10700 | 9746 | 947 | 569 | 373 | 1648 | 324 | 635 | 775 | 1.0 | U | 4442 | 14 | 743 | | | |
| EP-55 | 11/19/97 | EPRL-9711-120 | GW | 2.12 | 6.25 | 6.90 | 10480 | 12860 | 7450 | 516 | 452 | 280 | 1682 | 325 | 692 | 845 | 1.0 | U | 4655 | 13 | 753 | | | |
| EP-55 | 02/12/98 | EPRL-9802-120 | GW | 1.21 | 5.95 | 6.90 | 10510 | 14030 | 9238 | 2141 | 521 | 334 | 1166 | 30 | 41 | 175 | 214 | 0.0 | U | 662 | 10 | 3 | | |
| EP-55 | 05/20/98 | EPRL-9805-120 | GW | 1.93 | 6.06 | 6.70 | 10280 | 10320 | 8056 | 466 | 501 | 324 | 1794 | 229 | 720 | 878 | 1.0 | U | 4863 | 9 | 922 | | | |
| EP-55 | 08/27/98 | EPRL-9808-120 | GW | 0.94 | 6.15 | 6.4 | 9980 | 10010 | 8048 | 413 | 523 | 318 | 1830 | 211 | 900 | 1098 | 1.0 | U | 5186 | 10 | 998 | | | |
| EP-55 | 11/16/98 | EPRL-9811-120 | GW | 1.70 | 6.24 | 6.5 | 9940 | 9850 | 8458 | 1820 | 523 | 314 | 1559 | 201 | 700 | 854 | 1.0 | U | 4465 | 9 | 755 | | | |
| EP-55 | 02/11/99 | EPRL-9902-122 | GW | 0.900 | 6.31 | 6.7 | 10240 | 10350 | 8827 | 303 | 527 | 362 | 1350 | 175 | 576 | 703 | 1.0 | U | 4598 | 8 | 842 | | | |
| EP-55 | 05/14/99 | EPRL-9905-123 | GW | 1 | 6.25 | 7.1 | 10510 | 13 | 10830 | 8951 | 447 | 541 | 374 | 1654 | 192 | 700 | 854 | 1.0 | U | 3941 | 8 | 19 | | |
| EP-55 | 08/10/99 | EPRL-9908-123 | GW | 0.5 | 6.33 | 6.9 | 10470 | 10550 | 8634 | 362 | 502 | 332 | 1441 | 119 | 711 | 867 | 1.0 | U | 3651 | 9 | 909 | | | |
| EP-55 | 10/29/99 | EPRL-9911-123 | GW | 1.6 | 6.2 | 8.1 | 10240 | 10290 | 7364 | 567 | 34 | 493 | 315 | 1347 | 115 | 740 | 903 | 1.0 | U | 4066 | 9 | 931 | | |
| EP-55 | 02/07/00 | EPRL-0002-123 | GW | 1.3 | 6.38 | 6.9 | 10000 | 9420 | 8335 | 234 | 494 | 306 | 1342 | 117 | 660 | 805 | 1.0 | U | 4550 | 8 | 890 | | | |
| Average | | | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | | | |
| EP-56 | 08/11/97 | EPRL-9708-121 | GW | 2.51 | 7.34 | | | 8523 | 747 | | 520 | 332 | 1513 | 181 | 665 | 811 | 1.0 | U | 4503 | 8 | 733 | | | |
| EP-56 | 08/26/97 | EPRL-9708-121 | GW | 7.25 | 7.60 | 5600 | | 1063 | R | 4474 | 243 | 522 | 324 | 1559 | 192 | 700 | 854 | 1.0 | U | 4598 | 9 | 890 | | |
| EP-56 | 11/04/97 | EPRL-9711-121 | GW | 0.77 | 7.12 | 7.60 | 5520 | | 5930 | 4378 | 565 | 265 | 65 | 1080 | 26 | 290 | 354 | 1.0 | U | 1863 | 10 | 646 | | |
| EP-56 | 02/04/98 | EPRL-9802-121 | GW | 1.81 | 7.14 | 7.80 | 5520 | | 6620 | 4260 | 448 | 256 | 63 | 1043 | 29 | 282 | 344 | 1.0 | U | 2125 | 9 | 681 | | |
| EP-56 | 05/07/98 | EPRL-9805-121 | GW | 1.08 | 7.03 | 7.60 | 5500 | | 7170 | 3956 | 358 | 253 | 64 | 1091 | 34 | 248 | 303 | 1.0 | U | 1793 | 8 | 19 | | |
| EP-56 | 08/12/98 | EPRL-9808-121 | GW | 0.98 | 7.15 | 7.6 | 5520 | | 5600 | 3870 | 4150 | 269 | 68 | 1125 | 26 | 600 | 732 | 1.0 | U | 1804 | 7 | 20 | | |
| EP-56 | 11/04/98 | EPRL-9811-121 | GW | 1.20 | 6.38 | 7.3 | 5600 | | 7230 | 4055 | 4339 | 246 | 63 | 989 | 28 | 640 | 781 | 1.0 | U | 1762 | 6 | 624 | | |
| EP-56 | 02/04/99 | EPRL-9902-123 | GW | 1.00 | 7.23 | 7.6 | 5600 | | 6130 | 4291 | 1107 | J4 | 254 | 67 | 1073 | 31 | 650 | 793 | 1.0 | U | 1731 | 5 | 597 | |
| EP-56 | 02/04/99 | EPRL-9902-124 | GW | 1.90 | 7.24 | 8.2 | 5640 | | 6140 | 4173 | 5485 | J4 | 260 | 67 | 1073 | 35 | 736 | 898 | 1.0 | U | 1751 | 5 | 717 | |
| EP-56 | 05/04/99 | EPRL-9905-124 | GW | 1.9 | 7.13 | 7.6 | 5580 | | 5850 | 4144 | 1607 | 241 | 68 | 1051 | 23 | 460 | 561 | 1.0 | U | 2085 | 4 | 646 | | |
| EP-56 | 08/04/99 | EPRL-9908-124 | GW | 7.17 | 7.5 | 5390 | | 5460 | 3978 | 224 | 227 | 55 | 928 | 28 | 237 | 289 | 1.0 | U | 2310 | 3 | 546 | | | |
| EP-56 | 10/26/99 | EPRL-9911-124 | GW | 1.9 | 7.04 | 8.1 | 5290 | | 5320 | 3862 | 2979 | J4 | 259 | 63 | 927 | 25 | 430 | 525 | 1.0 | U | 1915 | 2 | 55 | |
| EP-56 | 10/26/99 | EPRL-9911-124 | GW | 1 | 7.03 | 7.8 | 5120 | | 4810 | 3627 | 849 | 301 | 69 | 993 | 30 | 283 | 350 | 427 | 134 | 1.0 | U | 1960 | 2 | 22 |
| EP-56 | 02/01/00 | EPRL-0002-124 | GW | 0.7 | 7.1 | 7.8 | 5080 | | 4850 | 3421 | 855 | 54 | 994 | 26 | 290 | 354 | 1.0 | U | 1779 | 4 | 455 | | | |
| EP-56 | 02/01/00 | EPRL-0002-233 | GW | 0.7 | 7.1 | 7.8 | 5080 | | 4850 | 3421 | 855 | 54 | 994 | 26 | 290 | 354 | 1.0 | U | 1602 | 4 | 24 | | | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (lab) | pH (fld) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | | |
|--------------------|----------|----------------|------|-------|-------------|-------------|--------------------------------------|--------------------------------------|-------|------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|------|-----|
| Average | | | | 1.32 | 7.10 | 7.74 | 5447 | | 1693 | 263 | 63 | 1025 | 28 | 411 | 502 | 1.0 | 1882 | 611 | 2 | | | | | |
| Median | | | | 1.04 | 7.135 | 7.6 | 5520 | | 4017 | 258 | 64 | 1035 | 28 | 320 | 391 | 1.0 | 1834 | 617 | 2 | | | | | |
| Standard Deviation | | | | 0.56 | 0.23 | 0.27 | 183 | | 1487 | 292 | 21 | 5 | 62 | 3 | 175 | 214 | 0.0 | 186 | 64 | 0 | | | | |
| Minimum | | | | 0.70 | 6.38 | 7.30 | 5080 | | 1063 | 3421 | 224 | 54 | 927 | 23 | 237 | 289 | 1.0 | 1602 | 455 | 2 | | | | |
| Maximum | | | | 2.51 | 7.34 | 8.20 | 5640 | | 7230 | 4474 | 301 | 69 | 1125 | 35 | 736 | 898 | 1.0 | 2310 | 717 | 3 | | | | |
| EP-57 | 08/16/97 | EPRI-L9708-122 | GW | 1.00 | 7.30 | 7.90 | 3330 | | 3370 | 2510 | 452 | 129 | 87 | 587 | 23 | 1032 | 1259 | 1.0 | 521 | 284 | 1.2 | | | |
| EP-57 | 11/14/97 | EPRI-L9711-122 | GW | 1.72 | 7.01 | 7.40 | 3010 | | 3500 | 2159 | 14 | 104 | 79 | 525 | 25 | 937 | 1143 | 1.0 | U | 466 | 278 | 1 | | |
| EP-57 | 02/18/98 | EPRI-L9802-122 | GW | 0.78 | 7.01 | 7.50 | 2900 | | 3530 | 1978 | 42 | 14 | 89 | 76 | 500 | 18 | 964 | 1176 | 1.0 | U | 298 | 261 | 0.94 | |
| EP-57 | 05/18/98 | EPRI-L9805-122 | GW | 1.01 | 7.18 | 7.50 | 2610 | | 2440 | 1475 | | 1076 | 71 | 64 | 455 | 18 | 1102 | 1344 | 1.0 | U | 172 | 258 | 0.95 | |
| EP-57 | 08/24/98 | EPRI-L9808-122 | GW | 0.230 | 7.01 | 7.7 | 3230 | | 2840 | 2176 | | 1172 | 152 | 95 | 614 | 15 | 1060 | 1293 | 1.0 | U | 548 | 269 | 0.99 | |
| EP-57 | 11/16/98 | EPRI-L9811-122 | GW | 0.300 | 7.07 | 7.6 | 3070 | | 1913 | 1323 | | 72 | 41 | 53 | 346 | 20 | 860 | 1049 | 1.0 | U | 64 | 174 | 0.89 | |
| EP-57 | 02/24/99 | EPRI-L9902-124 | GW | 0.200 | 7.15 | 7.7 | 3020 | | 3460 | 2078 | | 529 | 101 | 71 | 476 | 17 | 1022 | 1247 | 1.0 | U | 259 | 14 | 238 | 1.0 |
| EP-57 | 05/13/99 | EPRI-L9905-125 | GW | 0.600 | 7.11 | 7.8 | 2340 | | 2120 | 1429 | | 20 | 62 | 63 | 335 | 17 | 1051 | 1282 | 1.0 | U | 56 | 142 | 0.94 | |
| EP-57 | 08/10/99 | EPRI-L9908-125 | GW | 0.3 | 7.07 | 7.6 | 2670 | | 2560 | 1745 | | 39 | 85 | 79 | 391 | 20 | 1060 | 1293 | 1.0 | U | 168 | 206 | 0.92 | |
| EP-57 | 11/03/99 | EPRI-L9911-125 | GW | 1.3 | 6.87 | 7.5 | 3230 | | 3210 | 2124 | 14 | 2811 | 116 | 94 | 413 | 21 | 1405 | 1714 | 1.0 | U | 426 | 14 | 1 | |
| EP-57 | 02/07/00 | EPRI-L0002-125 | GW | 0.04 | 7.01 | 7.7 | 3080 | | 2700 | 2074 | | 233 | 84 | 100 | 385 | 19 | 1204 | 1469 | 1.0 | U | 254 | 219 | 0.89 | |
| Average | | | | 0.68 | 7.07 | 7.63 | 2870 | | 2877 | 1918 | | 537 | 94 | 78 | 457 | 19 | 1063 | 1297 | 1.0 | 294 | 234 | 1 | | |
| Median | | | | 0.60 | 7.07 | 7.6 | 3020 | | 2840 | 2074 | | 233 | 89 | 79 | 455 | 19 | 1051 | 1282 | 1.0 | 259 | 244 | 1 | | |
| Standard Deviation | | | | 0.53 | 0.11 | 0.15 | 403 | | 577 | 369 | | 31 | 15 | 93 | 3 | 144 | 176 | 0.0 | 175 | 45 | 0 | | | |
| Minimum | | | | 0.04 | 6.87 | 7.40 | 2970 | | 1913 | 1323 | | 14 | 41 | 53 | 335 | 15 | 860 | 1049 | 1.0 | 56 | 142 | 1 | | |
| Maximum | | | | 1.72 | 7.30 | 7.90 | 3330 | | 3530 | 2510 | | 152 | 100 | 614 | 25 | 1405 | 1714 | 1.0 | 548 | 284 | 1 | | | |
| EP-58 | 08/16/97 | EPRI-L9708-123 | GW | 0.240 | 6.54 | 6.9 | 11230 | | 11340 | 9153 | | 7753 | 463 | 161 | 2098 | 220 | 1900 | 2318 | 1.0 | U | 4586 | 989 | 4.9 | |
| EP-58 | 11/14/97 | EPRI-L9711-123 | GW | 0.84 | 6.54 | 6.90 | 11480 | | 14130 | 9286 | | 28 | 487 | 178 | 2396 | 260 | 1044 | 1274 | 1.0 | U | 4699 | 930 | 4.7 | |
| EP-58 | 02/18/98 | EPRI-L9802-123 | GW | 0.79 | 6.38 | 6.80 | 11510 | | 13740 | 9349 | | 72 | J4 | 497 | 198 | 2510 | 263 | 1056 | 1288 | 1.0 | U | 4006 | 851 | 4.7 |
| EP-58 | 05/18/98 | EPRI-L9805-123 | GW | 0.43 | 6.35 | 6.80 | 11500 | | 11490 | 8740 | | 172 | | 489 | 189 | 2245 | 252 | 1116 | 1362 | 1.0 | U | 4372 | 789 | 5 |
| EP-58 | 08/24/98 | EPRI-L9808-123 | GW | 0.80 | 6.40 | 7.00 | 11630 | | 11680 | 9442 | | 17 | | 486 | 193 | 1700 | 247 | 1106 | 1349 | 1.0 | U | 4867 | 922 | 5 |
| EP-58 | 11/16/98 | EPRI-L9811-123 | GW | 1.30 | 6.39 | 7.2 | 11580 | | 11290 | 9281 | | 81 | | 570 | 210 | 2085 | 299 | 1128 | 1376 | 1.0 | U | 4912 | 922 | 5.0 |
| EP-58 | 02/24/99 | EPRI-L9902-125 | GW | 1.0 | 6.53 | 7.8 | 11510 | | 13950 | 9294 | | 58 | | 510 | 203 | 1913 | 224 | 1114 | 1359 | 1.0 | U | 4560 | 14 | 5.2 |
| EP-58 | 05/13/99 | EPRI-L9905-126 | GW | 0.900 | 6.38 | 7.2 | 11660 | | 10990 | 9162 | | 83 | | 499 | 244 | 2100 | 250 | 1000 | 1220 | 1.0 | U | 3585 | 709 | 4.8 |
| EP-58 | 08/10/99 | EPRI-L9908-126 | GW | 0.5 | 6.49 | 8 | 11590 | | 11610 | 9236 | | 39 | | 531 | 226 | 1832 | 203 | 1076 | 1313 | 1.0 | U | 4036 | 990 | 5.7 |
| EP-58 | 11/03/99 | EPRI-L9911-126 | GW | 1.1 | 6.36 | 7 | 11310 | | 12590 | 8727 | | 518 | | 215 | 1678 | 192 | 1684 | 2054 | 1.0 | U | 4936 | 14 | 5.2 | |
| EP-58 | 02/07/00 | EPRI-L0002-126 | GW | 0.04 | 6.42 | 7.2 | 11700 | | 10800 | 9353 | | 424 | | 502 | 228 | 1801 | 196 | 1076 | 1313 | 1.0 | U | 5590 | 894 | 5.3 |
| Average | | | | 0.72 | 6.43 | 7.16 | 11515 | | 12065 | 9184 | | 1151 | | 500 | 204 | 2033 | 237 | 1209 | 1475 | 1.0 | 4559 | 890 | 5 | |
| Median | | | | 0.80 | 6.4 | 7 | 11510 | | 11610 | 9281 | | 81 | | 499 | 203 | 2085 | 247 | 1106 | 1349 | 1.0 | 4586 | 922 | 5 | |
| Standard Deviation | | | | 0.38 | 0.08 | 0.40 | 140 | | 1350 | 238 | | 19 | | 2475 | 33 | 276 | 359 | 0.0 | 548 | 87 | 0 | | | |
| Minimum | | | | 0.04 | 6.35 | 6.80 | 11230 | | 10990 | 8727 | | 17 | | 463 | 161 | 1678 | 192 | 1000 | 1220 | 1.0 | 3585 | 709 | 5 | |
| Maximum | | | | 1.30 | 6.54 | 8.00 | 11700 | | 14130 | 9442 | | 531 | | 244 | 2510 | 299 | 1900 | 2318 | 1.0 | 5590 | 990 | 6 | | |
| EP-59 | 08/09/97 | EPRI-L9708-124 | GW | 2.08 | 6.98 | 7.70 | 4780 | | 4750 | 3693 | | 1 | | 191 | 93 | 876 | 105 | 432 | 527 | 1.0 | U | 1632 | 419 | 4.9 |
| EP-59 | 11/05/97 | EPRI-L9711-124 | GW | 0.20 | 7.23 | 7.60 | 4660 | | 5340 | 3629 | | 6 | | 169 | 84 | 818 | 95 | 420 | 512 | 1.0 | U | 1555 | 421 | 4.8 |
| EP-59 | 02/05/98 | EPRI-L9802-124 | GW | 1.06 | 7.09 | 7.30 | 4640 | | 5630 | 3594 | | 2.7 | | 168 | 83 | 807 | 95 | 412 | 503 | 1.0 | U | 1551 | 450 | 4.8 |
| EP-59 | 05/08/98 | EPRI-L9805-124 | GW | 1.33 | 7.13 | 7.70 | 4800 | | 5600 | 3743 | | 1.7 | | 181 | 90 | 868 | 100 | 364 | 444 | 1.0 | U | 1586 | 369 | 4.8 |
| EP-59 | 08/10/98 | EPRI-L9808-124 | GW | 1.75 | 7.09 | 7.4 | 4850 | | 4750 | 3678 | | 1.0 | | 193 | 92 | 920 | 107 | 350 | 427 | 1.0 | U | 1643 | 410 | 4.6 |
| EP-59 | 08/10/98 | EPRI-L9808-184 | GW | 7.4 | 4850 | | | | | 3717 | 1.0 | U | 187 | 91 | 859 | 104 | 351 | 428 | 1.0 | U | 1560 | 427 | 4.6 | |
| EP-59 | 11/09/98 | EPRI-L9811-124 | GW | 2.70 | 7.04 | 7.4 | 4980 | | 3831 | 5.0 | | 189 | | 93 | 914 | 91 | 367 | 448 | 1.0 | U | 1762 | 441 | 4.7 | |
| EP-59 | 02/10/99 | EPRI-L9902-126 | GW | 0.700 | 7.13 | 7.6 | 5260 | | 5320 | 4083 | | 13 | | 203 | 104 | 720 | 100 | 333 | 406 | 1.0 | U | 1593 | 446 | 5.0 |

**Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions**

| Site | Date | Samp # | Type | (O) (flu) | pH (lab) | Specific Conductivity (SC) (lab) | Specific Conductivity SC (mG) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CACO ₃ | Bicarbonate (HCOCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | |
|--------------------|----------|---------------|------|-----------|----------|----------------------------------|-------------------------------|--------|------|------------------|--------------------|-----------------|-------------------|---------------------------------------|-----------------------------------|------------------------------|----------------------------|---------------|--------------|------|
| EP-59 | 02/10/99 | EPRL-9902-185 | GW | 0.700 | 7.14 | 8.3 | 5270 | 5230 | 4065 | 14 | 214 | 105 | 700 | 100 | 334 | 407 | 1.0 | U | 1725 | |
| EP-59 | 05/06/99 | EPRL-9905-127 | GW | 0.800 | 7.01 | 7.4 | 5060 | 5400 | 3749 | 8.2 | 190 | 103 | 825 | 91 | 356 | 434 | 1.0 | U | 1724 | |
| EP-59 | 08/03/99 | EPRL-9908-127 | GW | 0.4 | 7.18 | 7.4 | 4920 | 4950 | 3779 | 4.6 | 14 | 189 | 96 | 809 | 95 | 302 | 368 | 1.0 | U | 1871 |
| EP-59 | 10/27/99 | EPRL-9911-127 | GW | 3.9 | 6.99 | 8.1 | 4740 | 4780 | 3474 | 9.8 | 182 | 91 | 779 | 92 | 320 | 390 | 13 | 1.0 | UJ3 | 1498 |
| EP-59 | 01/28/00 | EPRL-0002-127 | GW | 0.6 | 7.12 | 7.9 | 5160 | 4900 | 3721 | 6.7 | 204 | 101 | 840 | 95 | 350 | 427 | 1.0 | U | 1874 | |
| Average | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | |
| EP-60 | 08/08/97 | EPRL-9708-125 | GW | 2.44 | 6.98 | 7.50 | 9140 | 8340 | 8015 | 8.9 | 360 | 152 | 857 | 14 | 240 | 293 | 1.0 | U | 3055 | |
| EP-60 | 11/05/97 | EPRL-9711-125 | GW | 0.16 | 6.99 | 7.50 | 8360 | 9660 | 7339 | 27 | 571 | 229 | 147 | 17 | 238 | 290 | 1.0 | U | 3090 | |
| EP-60 | 02/05/98 | EPRL-9802-125 | GW | 1.70 | 6.95 | 7.30 | 8780 | 10210 | 7495 | 6.3 | 584 | 237 | 1366 | 14 | 260 | 317 | 1.0 | U | 3000 | |
| EP-60 | 05/08/98 | EPRL-9805-125 | GW | 1.23 | 7.24 | 7.60 | 8380 | 9880 | 4837 | 7 | 575 | 231 | 1370 | 27 | 250 | 305 | 1.0 | U | 3180 | |
| EP-60 | 08/10/98 | EPRL-9808-125 | GW | 3.77 | 7.06 | 7.7 | 8700 | 8310 | 6885 | 1.2 | 561 | 215 | 1427 | 18 | 244 | 298 | 1.0 | U | 2931 | |
| EP-60 | 11/09/98 | EPRL-9811-125 | GW | 3.60 | 7.21 | 7.7 | 8480 | 8240 | 6907 | 6.7 | 506 | 191 | 1403 | 17 | 236 | 288 | 1.0 | U | 3090 | |
| EP-60 | 02/10/99 | EPRL-9902-127 | GW | 1.9 | 7.00 | 7.8 | 8670 | 8550 | 7317 | 38 | 570 | 226 | 1130 | 17 | 250 | 305 | 1.0 | U | 2540 | |
| EP-60 | 05/06/99 | EPRL-9905-132 | GW | 0.700 | 6.80 | 7.4 | 8670 | 9010 | 7149 | 11 | 551 | 250 | 1311 | 14 | 256 | 312 | 1.0 | U | 2802 | |
| EP-60 | 08/03/99 | EPRL-9908-128 | GW | 3 | 7.18 | 7.6 | 8570 | 8410 | 7299 | 2.5 | 34 | 222 | 1233 | 15 | 245 | 299 | 1.0 | U | 3184 | |
| EP-60 | 10/27/99 | EPRL-9911-128 | GW | 0.7 | 6.82 | 8.1 | 8280 | 8130 | 6884 | 9.2 | 560 | 224 | 1160 | 15 | 259 | 316 | J3 | 1.0 | UJ3 | 3085 |
| EP-60 | 01/28/00 | EPRL-0002-128 | GW | 0.3 | 7.05 | 7.9 | 8320 | 7890 | 6583 | 9.8 | 520 | 205 | 1187 | 12 | 261 | 318 | 1.0 | U | 3101 | |
| Average | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | |
| EP-61 | 08/16/97 | EPRL-9708-126 | GW | 2.30 | 7.15 | 7.65 | 8641 | 8339 | 6974 | 12 | 537 | 217 | 1260 | 16 | 249 | 304 | 1.0 | U | 3005 | |
| EP-61 | 11/14/97 | EPRL-9711-126 | GW | 1.71 | 6.93 | 7.20 | 9080 | 11290 | 7684 | 38 | 436 | 104 | 1962 | 28 | 360 | 439 | 1.0 | U | 3085 | |
| EP-61 | 02/18/98 | EPRL-9802-126 | GW | 1.68 | 6.85 | 7.30 | 9200 | 103350 | 8017 | 104 | 477 | 201 | 2082 | 23 | 318 | 388 | 1.0 | U | 3213 | |
| EP-61 | 02/18/98 | EPRL-9802-180 | GW | 1.68 | 6.85 | 7.40 | 9190 | 10350 | 7997 | 44 | 477 | 210 | 2118 | 24 | 326 | 398 | 1.0 | U | 3375 | |
| EP-61 | 05/18/98 | EPRL-9805-126 | GW | 0.51 | 6.95 | 7.30 | 8860 | 8310 | 7116 | 27 | 454 | 189 | 1684 | 24 | 356 | 434 | 1.0 | U | 3315 | |
| EP-61 | 08/24/98 | EPRL-9808-126 | GW | 0.740 | 7.03 | 7.5 | 8620 | 8710 | 7198 | 99 | 460 | 193 | 1300 | 12 | 366 | 447 | 1.0 | U | 3524 | |
| EP-61 | 11/16/98 | EPRL-9811-126 | GW | 1.10 | 7.02 | 7.6 | 8350 | 8320 | 7453 | 66 | 455 | 192 | 1496 | 23 | 340 | 415 | 1.0 | U | 3377 | |
| EP-61 | 02/24/99 | EPRL-9902-128 | GW | 0.600 | 7.17 | 7.6 | 8320 | 9200 | 6893 | 75 | 386 | 164 | 1313 | 22 | 498 | 608 | 1.0 | U | 2761 | |
| EP-61 | 05/13/99 | EPRL-9905-129 | GW | 0.90 | 6.78 | 8.0 | 8240 | 7360 | 6722 | 12 | 399 | 197 | 1600 | 23 | 434 | 529 | 1.0 | U | 2824 | |
| EP-61 | 08/10/99 | EPRL-9908-129 | GW | 1.1 | 7.15 | 7.7 | 8070 | 8060 | 6349 | 65 | 368 | 167 | 1357 | 17 | 387 | 472 | 1.0 | U | 2802 | |
| EP-61 | 11/03/99 | EPRL-9911-129 | GW | 1.8 | 6.96 | 7.8 | 8180 | 8390 | 6418 | 1608 | 397 | 176 | 1367 | 20 | 397 | 484 | J4 | 1.0 | U | 3023 |
| EP-61 | 02/07/00 | EPRL-0002-129 | GW | 0.9 | 7.09 | 7.7 | 8360 | 7780 | 6950 | 14 | 375 | 168 | 1423 | 16 | 350 | 427 | 1.0 | U | 3860 | |
| Average | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | |
| Average | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | |
| EP-62 | 08/09/97 | EPRL-9708-127 | GW | 1.45 | 7.10 | 7.70 | 5050 | 5030 | 3954 | 3.4 | 228 | 97 | 904 | 72 | 328 | 400 | 1.0 | U | 1760 | |
| EP-62 | 11/05/97 | EPRL-9711-127 | GW | 1.16 | 7.09 | 7.70 | 5580 | 5380 | 3897 | 8.2 | 216 | 96 | 906 | 64 | 328 | 400 | 1.0 | U | 1919 | |
| EP-62 | | | | | | | | | | | | | | | | | | | 497 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) (nd) | pH (lab) | Specific Conductivity SC (lab) | TDS SC (lab) | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCOCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | |
|--------------------|----------|---------------|------|-------------|-------------|--------------------------------------|-----------------|-------|---------------------|-----------------------|--------------------|----------------------|---|--------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|
| EP-62 | 02/05/98 | EPRI-9802-127 | GW | 3.07 | 7.16 | 5460 | 5980 | 4317 | 20 | 253 | 114 | 935 | 69 | 322 | 393 | 1.0 | U | 2.83 | | |
| EP-62 | 05/08/98 | EPRI-9805-127 | GW | 2.87 | 7.21 | 4820 | 5480 | 3725 | 5.1 | 199 | 85 | 882 | 63 | 322 | 393 | 1.0 | U | 1785 | | |
| EP-62 | 08/10/98 | EPRI-9808-127 | GW | 4.33 | 7.16 | 4840 | 4770 | 3665 | 1 | U | 204 | 84 | 881 | 66 | 343 | 418 | 1.0 | U | 1708 | |
| EP-62 | 11/09/98 | EPRI-9811-127 | GW | 1.60 | 7.30 | 4680 | 4710 | 3500 | 1.9 | 191 | 79 | 858 | 52 | 337 | 411 | 1.0 | U | 1666 | | |
| EP-62 | 02/10/99 | EPRI-9902-129 | GW | 4.80 | 7.41 | 8.5 | 4500 | 4600 | 3379 | 17 | 197 | 80 | 660 | 55 | 319 | 351 | 19.0 | U | 1074 | |
| EP-62 | 05/06/99 | EPRI-9905-130 | GW | 3.80 | 7.10 | 7.6 | 4420 | 4600 | 3220 | 6.3 | 159 | 82 | 776 | 48 | J4 | 360 | 439 | 1.0 | U | 1328 |
| EP-62 | 08/03/99 | EPRI-9908-130 | GW | 2.1 | 7.29 | 7.4 | 4410 | 4470 | 3315 | 2.2 | 14 | 161 | 80 | 690 | 54 | 296 | 361 | 1.0 | U | 1519 |
| EP-62 | 10/27/99 | EPRI-9911-130 | GW | 4.3 | 7.04 | 8.2 | 4000 | 3830 | 2801 | 6.2 | 146 | 64 | 599 | 38 | 278 | 339 | J3 | 1.0 | U | 1278 |
| EP-62 | 01/28/00 | EPRI-0002-130 | GW | 6.2 | 7.3 | 7.1 | 4460 | 4310 | 3169 | 5.6 | 192 | 81 | 786 | 45 | 396 | 483 | 1.0 | U | 1510 | |
| Average | | | | 3.24 | 7.20 | 7.68 | 4699 | 4851 | 3540 | 7 | 196 | 86 | 807 | 57 | 330 | 399 | 2.6 | | 1610 | |
| Median | | | | 3.07 | 7.16 | 7.7 | 4680 | 4710 | 3500 | 6 | 197 | 82 | 858 | 55 | 328 | 400 | 1.0 | | 1646 | |
| Standard Deviation | | | | 1.60 | 0.12 | 0.38 | 401 | 622 | 426 | 6 | 30 | 13 | 114 | 11 | 31 | 41 | 5.4 | | 40 | |
| Minimum | | | | 1.16 | 7.04 | 7.10 | 4000 | 3830 | 2801 | 1 | 146 | 64 | 599 | 38 | 278 | 339 | 1.0 | | 1074 | |
| Maximum | | | | 6.20 | 7.41 | 8.50 | 5460 | 5980 | 4317 | 20 | 253 | 114 | 935 | 72 | 396 | 483 | 19.0 | | 2183 | |
| EP-63 | 08/09/97 | EPRI-9708-128 | GW | 2.83 | 7.13 | 7.80 | 8100 | 880 | R | 6442 | 52 | 293 | 153 | 1638 | 33 | 390 | 476 | 1.0 | U | 2643 |
| EP-63 | 11/05/97 | EPRI-9711-128 | GW | 0.33 | 7.16 | 7.80 | 8250 | 9220 | 6381 | 32 | 260 | 152 | 1747 | 35 | 393 | 479 | 1.0 | U | 2779 | |
| EP-63 | 02/05/98 | EPRI-9802-128 | GW | 2.23 | 7.08 | 7.40 | 8210 | 9590 | 6412 | 102 | 266 | 157 | 1579 | 39 | 436 | 532 | 1.0 | U | 2893 | |
| EP-63 | 05/08/98 | EPRI-9805-128 | GW | 1.58 | 7.15 | 7.60 | 8390 | 9360 | 6532 | 18 | 273 | 166 | 1604 | 43 | 411 | 501 | 1.0 | U | 2941 | |
| EP-63 | 08/10/98 | EPRI-9808-128 | GW | 1.86 | 7.16 | 7.7 | 8470 | 8270 | 6466 | 6.1 | 251 | 151 | 1740 | 39 | 452 | 551 | 1.0 | U | 2759 | |
| EP-63 | 11/09/98 | EPRI-9811-128 | GW | 1.4 | 7.28 | 7.6 | 8480 | 8430 | 6424 | 4.6 | 237 | 146 | 1695 | 35 | 486 | 593 | 1.0 | U | 2941 | |
| EP-63 | 02/10/99 | EPRI-9902-130 | GW | 1.30 | 7.27 | 7.8 | 8440 | 8590 | 6515 | 20 | 251 | 161 | 1450 | 45 | 435 | 531 | 1.0 | U | 2829 | |
| EP-63 | 05/06/99 | EPRI-9905-131 | GW | 1.00 | 7.04 | 7.6 | 8300 | 8450 | 6237 | 19 | 253 | 176 | 1570 | 37 | 34 | 487 | 594 | 1.0 | U | 2544 |
| EP-63 | 05/06/99 | EPRI-9905-181 | GW | 0.90 | 7.04 | 7.7 | 8210 | 8450 | 6255 | 16 | 243 | 156 | 1519 | 46 | J4 | 515 | 628 | 1.0 | U | 2927 |
| EP-63 | 08/03/99 | EPRI-9908-131 | GW | 1.2 | 7.18 | 7.1 | 8140 | 8240 | 6267 | 8.3 | 261 | 172 | 1420 | 35 | 360 | 439 | 1.0 | U | 3102 | |
| EP-63 | 10/27/99 | EPRI-9911-131 | GW | 1 | 6.95 | 7.7 | 7630 | 7710 | 5687 | 11 | 244 | 150 | 1265 | 32 | 344 | 420 | J3 | 1.0 | U | 2458 |
| EP-63 | 01/28/00 | EPRI-0002-131 | GW | 0.3 | 7.22 | 7.8 | 7400 | 7010 | 5287 | 3.4 | 215 | 128 | 1306 | 29 | 467 | 570 | 1.0 | U | 2544 | |
| Average | | | | 1.33 | 7.14 | 7.63 | 8173 | 7850 | 6242 | 24 | 254 | 156 | 1544 | 37 | 431 | 526 | 1.0 | | 2783 | |
| Median | | | | 1.25 | 7.15 | 7.7 | 8235 | 8440 | 6397 | 17 | 252 | 155 | 1575 | 36 | 436 | 532 | 1.0 | | 2804 | |
| Standard Deviation | | | | 0.73 | 0.10 | 0.21 | 327 | 2305 | 376 | 28 | 19 | 13 | 158 | 5 | 53 | 65 | 0.0 | | 193 | |
| Minimum | | | | 0.30 | 6.95 | 7.10 | 7400 | 880 | 5287 | 3 | 215 | 128 | 1265 | 29 | 344 | 420 | 1.0 | | 2488 | |
| Maximum | | | | 2.83 | 7.28 | 7.80 | 8480 | 9590 | 6532 | 102 | 293 | 176 | 1747 | 46 | 515 | 628 | 1.0 | | 3102 | |
| EP-64 | 08/09/97 | EPRI-9708-129 | GW | 3.96 | 7.39 | 7.80 | 8590 | 9700 | 7433 | 84 | 360 | 115 | 1713 | 25 | 266 | 325 | 1.0 | U | 3359 | |
| EP-64 | 11/05/97 | EPRI-9711-129 | GW | 0.19 | 7.25 | 7.80 | 11000 | 13050 | 9787 | 65 | 482 | 155 | 2601 | 23 | 319 | 389 | 1.0 | U | 4379 | |
| EP-64 | 02/05/98 | EPRI-9802-129 | GW | 3.76 | 7.98 | 7.90 | 10420 | 10820 | 9250 | 22 | 399 | 141 | 2205 | 26 | 210 | 256 | 1.0 | U | 4564 | |
| EP-64 | 05/08/98 | EPRI-9805-129 | GW | 2.60 | 6.82 | 8.00 | 10000 | 10940 | 8604 | 6.3 | 378 | 131 | 2185 | 34 | 214 | 261 | 1.0 | U | 4063 | |
| EP-64 | 08/10/98 | EPRI-9808-129 | GW | 3.00 | 7.4 | 7.9 | 9540 | 9410 | 8077 | 6.7 | 383 | 124 | 2135 | 25 | 264 | 322 | 1.0 | U | 3826 | |
| EP-64 | 11/09/98 | EPRI-9811-129 | GW | 4.00 | 7.55 | 7.7 | 9490 | 9450 | 7863 | 4.2 | 376 | 115 | 2055 | 23 | 239 | 292 | 1.0 | U | 3966 | |
| EP-64 | 02/10/99 | EPRI-9902-131 | GW | 2.90 | 7.89 | 8.5 | 9520 | 9670 | 7962 | 29 | 398 | 130 | 1480 | 30 | 205 | 226 | 12.0 | | 2783 | |
| EP-64 | 05/06/99 | EPRI-9905-128 | GW | 2.30 | 7.57 | 7.9 | 9280 | 9910 | 7607 | 22 | 360 | 133 | 1952 | 24 | J4 | 184 | 224 | 1.0 | U | 3748 |
| EP-64 | 08/03/99 | EPRI-9908-132 | GW | 5 | 7.48 | 7.8 | 8380 | 9420 | 6922 | 11 | 332 | 113 | 1578 | 18 | 253 | 309 | 1.0 | | 4129 | |
| EP-64 | 10/27/99 | EPRI-9911-132 | GW | 4.3 | 9030 | 94.4 | 9070 | 7580 | 14 | 409 | 125 | 1739 | 21 | 263 | 304 | J3 | 8.4 | 1.0 | 4261 | |
| EP-64 | 01/28/00 | EPRI-0002-132 | GW | 4.6 | 7.84 | 8.3 | 9410 | 8960 | 7541 | 15 | 390 | 125 | 2085 | 19 | 186 | 227 | 1.0 | U | 780 | |
| Average | | | | 3.33 | 7.51 | 8.00 | 9519 | 10035 | 8057 | 25 | 388 | 128 | 1975 | 24 | 237 | 285 | 2.7 | | 3910 | |
| Median | | | | 3.76 | 7.48 | 7.9 | 9490 | 9670 | 7853 | 15 | 383 | 125 | 2055 | 24 | 239 | 292 | 1.0 | | 3966 | |
| Standard Deviation | | | | 1.35 | 0.33 | 0.27 | 752 | 1181 | 845 | 26 | 38 | 12 | 325 | 5 | 41 | 52 | 3.8 | | 495 | |
| Minimum | | | | 0.19 | 6.82 | 7.70 | 8380 | 8960 | 6922 | 4 | 332 | 113 | 1480 | 18 | 184 | 224 | 1.0 | | 2783 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) (flu) | pH (lab) | Specific Conductivity SC (lab) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | | | |
|--------------------|----------|---------------|------|-----------|----------|--------------------------------|-------|-------|------------------|--------------------|-----------------|-------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------|---------------|--------------|------|------|------|----|
| Maximum | | | | 5.00 | 7.98 | 8.50 | 11000 | 13050 | 9787 | 84 | 482 | 155 | 2601 | 34 | 319 | 389 | 12.0 | 4564 | 916 | 2 | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| EP-65 | 08/16/97 | EPRI-9708-130 | GW | 0.35 | 7.15 | 7.70 | 7420 | 7360 | 6449 | 21 | 392 | 144 | 1380 | 24 | 408 | 498 | 1.0 | U | 2651 | 643 | 21 | |
| EP-65 | 11/14/97 | EPRI-9711-130 | GW | 1.40 | 7.02 | 7.60 | 7380 | 9180 | 6235 | 25 | 373 | 143 | 1480 | 30 | 455 | 555 | 1.0 | U | 2699 | 676 | 1.9 | |
| EP-65 | 05/18/98 | EPRI-9802-130 | GW | 0.84 | 7.07 | 7.50 | 7500 | 9190 | 6383 | 8.4 | 409 | 165 | 1661 | 24 | 427 | 521 | 1.0 | U | 2718 | 690 | 2 | |
| EP-65 | 05/18/98 | EPRI-9805-130 | GW | 0.56 | 7.10 | 7.30 | 7440 | 7310 | 5726 | 132 | 328 | 139 | 1349 | 28 | 422 | 515 | 1.0 | U | 2892 | 689 | 2.1 | |
| EP-65 | 08/24/98 | EPRI-9808-130 | GW | 0.270 | 7.02 | 7.5 | 7330 | 7390 | 5862 | 15 | 383 | 152 | 1000 | 22 | 500 | 610 | 1.0 | U | 2837 | 651 | 1.9 | |
| EP-65 | 11/16/98 | EPRI-9811-130 | GW | 0.600 | 7.08 | 7.6 | 7280 | 7060 | 6004 | 13 | 368 | 150 | 1270 | 25 | 524 | 639 | 1.0 | U | 2778 | 640 | 1.9 | |
| EP-65 | 02/24/99 | EPRI-9902-132 | GW | 0.400 | 7.16 | 7.7 | 6980 | 8290 | 5630 | 9.8 | 330 | 136 | 1264 | 24 | 597 | 728 | 1.0 | U | 1635 | J4 | 565 | |
| EP-65 | 02/24/99 | EPRI-9902-194 | GW | 0.400 | 7.16 | 7.7 | 7010 | 8280 | 5730 | 7.5 | 335 | 138 | 1253 | 24 | 624 | 761 | 1.0 | U | 2309 | J4 | 575 | |
| EP-65 | 05/13/99 | EPRI-9905-133 | GW | -1.00 | 6.98 | 7.7 | 6740 | 6010 | 5324 | 10 | 297 | 149 | 1250 | 26 | 587 | 716 | 1.0 | U | 2280 | 511 | 1.9 | |
| EP-65 | 08/10/99 | EPRI-9908-133 | GW | 0.3 | 7.14 | 7.8 | 6610 | 6660 | 5163 | 20 | 307 | 132 | 1078 | 20 | 547 | 667 | 1.0 | U | 2577 | 570 | 1.1 | |
| EP-65 | 08/10/99 | EPRI-9908-204 | GW | 0.3 | 7.14 | 7.7 | 6610 | 6660 | 5176 | 19 | 304 | 131 | 1107 | 21 | 524 | 639 | 1.0 | U | 2577 | 651 | 1.9 | |
| EP-65 | 11/03/99 | EPRI-9911-133 | GW | 2.3 | 6.93 | 7.6 | 6400 | 7330 | 6536 | 64 | 283 | 126 | 1080 | 19 | 446 | 544 | 1.0 | U | 2545 | J4 | 473 | |
| EP-65 | 02/07/00 | EPRI-0002-133 | GW | 0.4 | 6.99 | 7.6 | 6520 | 6160 | 5148 | 16 | 284 | 126 | 1135 | 17 | 576 | 703 | 1.0 | U | 2395 | 541 | 2.1 | |
| EP-65 | 02/07/00 | EPRI-0002-236 | GW | 0.2 | 7 | 7.7 | 6500 | 6190 | 5129 | 16 | 283 | 128 | 1155 | 17 | 592 | 722 | 1.0 | U | 2338 | 491 | 1.9 | |
| Average | | | | 0.67 | 7.07 | 7.62 | 6980 | 7348 | 5750 | 27 | 334 | 140 | 1247 | 23 | 516 | 630 | 1.0 | U | 2517 | 598 | 2 | |
| Median | | | | 0.40 | 7.075 | 7.65 | 6995 | 7220 | 5728 | 16 | 329 | 139 | 1252 | 24 | 524 | 639 | 1.0 | U | 2577 | 608 | 2 | |
| Standard Deviation | | | | 0.58 | 0.08 | 0.13 | 408 | 1042 | 514 | 33 | 44 | 11 | 178 | 4 | 74 | 90 | 0.0 | U | 320 | 75 | 0 | |
| Minimum | | | | 0.20 | 6.93 | 7.50 | 6400 | 6010 | 5129 | 8 | 283 | 126 | 1000 | 17 | 408 | 498 | 1.0 | U | 1635 | 473 | 1 | |
| Maximum | | | | 2.30 | 7.16 | 7.80 | 7500 | 9190 | 6536 | 132 | 409 | 165 | 1661 | 30 | 624 | 761 | 1.0 | U | 2892 | 690 | 2 | |
| EP-66 | 08/08/97 | EPRI-9708-131 | GW | 6.70 | 7.05 | 7.50 | 8390 | 8370 | 7776 | 78 | 666 | 161 | 1505 | 52 | 458 | 559 | 1.0 | U | 3474 | 697 | 3.2 | |
| EP-66 | 11/05/97 | EPRI-9711-131 | GW | 1.30 | 6.80 | 7.50 | 7920 | 9020 | 7183 | 19 | 618 | 143 | 1502 | 48 | 408 | 498 | 1.0 | U | 3435 | 699 | 3.2 | |
| EP-66 | 02/05/98 | EPRI-9802-31 | GW | 4.42 | 7.09 | 7.60 | 7220 | 8290 | 6329 | 5.6 | 541 | 122 | 1194 | 45 | 363 | 443 | 1.0 | U | 3098 | 625 | 3 | |
| EP-66 | 05/08/98 | EPRI-9805-31 | GW | 2.99 | 7.39 | 7.70 | 7690 | 8280 | 6288 | 16 | 554 | 130 | 1429 | 58 | 392 | 478 | 1.0 | U | 3456 | 595 | 3.3 | |
| EP-66 | 08/10/98 | EPRI-9808-31 | GW | 6.54 | 6.95 | 7.5 | 8130 | 7820 | 7017 | 1.7 | 591 | 140 | 1551 | 58 | 439 | 536 | 1.0 | U | 3232 | 606 | 3.4 | |
| EP-66 | 11/09/98 | EPRI-9811-131 | GW | 5.30 | 7.09 | 7.4 | 7440 | 7530 | 6344 | 4 | 508 | 116 | 1326 | 43 | 385 | 470 | 1.0 | U | 3237 | 602 | 3.2 | |
| EP-66 | 02/10/99 | EPRI-9902-33 | GW | 5.30 | 7.17 | 8.0 | 7720 | 7500 | 6828 | 7.9 | 585 | 139 | 1100 | 55 | 407 | 497 | 1.0 | U | 3054 | 622 | 3.3 | |
| EP-66 | 05/06/99 | EPRI-9905-134 | GW | 5.50 | 6.98 | 7.5 | 7620 | 8360 | 6479 | 7.4 | 521 | 141 | 1298 | 43 | 34 | 400 | 488 | 1.0 | U | 2864 | 687 | J4 |
| EP-66 | 08/04/99 | EPRI-9908-34 | GW | 7 | 7.8 | 8.00 | 7680 | 6952 | 8.9 | 594 | 147 | 1230 | 51 | 400 | 488 | 1.0 | U | 3404 | 564 | 3.7 | | |
| EP-66 | 10/27/99 | EPRI-9911-34 | GW | 6 | 6.92 | 8.3 | 5910 | 5220 | 4908 | 57 | 432 | 97 | 879 | 40 | 283 | 345 | 13 | 1.0 | UJ3 | 2631 | 420 | 3 |
| EP-66 | 01/28/00 | EPRI-0002-34 | GW | 6.4 | 7.28 | 7.8 | 7860 | 7530 | 6449 | 26 | 553 | 129 | 1313 | 42 | 425 | 519 | 1.0 | U | 3514 | 685 | 3 | |
| Average | | | | 5.05 | 7.07 | 7.69 | 7627 | 7955 | 6648 | 21 | 560 | 133 | 1302 | 49 | 396 | 484 | 1.0 | U | 3245 | 618 | 3 | |
| Median | | | | 5.40 | 7.05 | 7.6 | 7720 | 7820 | 6808 | 9 | 554 | 139 | 1313 | 48 | 400 | 488 | 1.0 | U | 3404 | 622 | 3 | |
| Standard Deviation | | | | 1.72 | 0.17 | 0.27 | 654 | 873 | 718 | 24 | 62 | 17 | 199 | 7 | 46 | 56 | 0.0 | U | 298 | 81 | 0 | |
| Minimum | | | | 1.30 | 6.80 | 7.40 | 5910 | 5220 | 4908 | 2 | 432 | 97 | 879 | 40 | 283 | 345 | 1.0 | U | 2631 | 420 | 3 | |
| Maximum | | | | 6.70 | 7.39 | 8.30 | 8390 | 9020 | 7776 | 78 | 666 | 161 | 1551 | 58 | 458 | 559 | 1.0 | U | 3523 | 689 | 4 | |
| EP-67 | 08/12/97 | EPRI-9708-132 | GW | 1.50 | 6.74 | 7.60 | 4400 | 4490 | 4098 | 4 | 560 | 156 | 488 | 19 | 206 | 251 | 1.0 | U | 1923 | 415 | 0.82 | |
| EP-67 | 11/07/97 | EPRI-9711-132 | GW | 0.90 | 6.84 | 7.40 | 4460 | 5000 | 4028 | 12 | 456 | 144 | 472 | 15 | 210 | 256 | 1.0 | U | 2228 | 377 | 0.79 | |
| EP-67 | 02/11/98 | EPRI-9802-132 | GW | 1.71 | 6.66 | 7.30 | 4470 | 5200 | 4077 | 2.9 | J3 | 477 | 511 | 16 | 206 | 251 | 1.0 | U | 1896 | 384 | 0.72 | |
| EP-67 | 02/11/98 | EPRI-9802-179 | GW | 1.71 | 6.66 | 7.30 | 4480 | 5220 | 4056 | 3.2 | J3 | 477 | 510 | 17 | 210 | 256 | 1.0 | U | 1969 | 385 | 0.72 | |
| EP-67 | 05/12/98 | EPRI-9805-132 | GW | 0.94 | 6.94 | 7.20 | 4440 | 4450 | 3665 | 3.6 | 457 | 134 | 473 | 15 | 200 | 244 | 1.0 | U | 1900 | 364 | 0.79 | |
| EP-67 | 08/13/98 | EPRI-9808-132 | GW | 1.09 | 6.79 | 7.6 | 4360 | 4310 | 3985 | 1.5 | 458 | 135 | 557 | 23 | 214 | 261 | 1.0 | U | 2017 | 362 | J4 | |
| EP-67 | 11/10/98 | EPRI-9811-132 | GW | 1.6 | 6.77 | 7.4 | 4370 | 4350 | 3806 | 7 | 465 | 140 | 497 | 15 | 209 | 255 | 1.0 | U | 1823 | 364 | 0.75 | |
| EP-67 | 02/10/99 | EPRI-9902-134 | GW | 1.7 | 6.91 | 7.7 | 4340 | 4400 | 3438 | 13 | 492 | 141 | 390 | 15 | 210 | 256 | 1.0 | U | 1343 | 346 | 0.79 | |
| EP-67 | 05/07/99 | EPRI-9905-135 | GW | 1.30 | 6.81 | 7.3 | 4440 | 4820 | 3837 | 29 | 438 | 139 | 483 | 33 | 214 | 261 | 1.0 | U | 1959 | 324 | 0.80 | |
| EP-67 | 08/05/99 | EPRI-9908-135 | GW | 6.86 | 7.7 | 4330 | 4860 | 3756 | 10 | 433 | 132 | 414 | 13 | 196 | 239 | 1.0 | U | 2117 | 356 | 0.8 | | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) pH (fid) | pH (lab) | Specific Conductivity SC (fid) | Specific Conductivity SC (lab) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | |
|--------------------|----------|----------------|------|--------------|----------|--------------------------------|--------------------------------|------|------|------------------|--------------------|-----------------|-------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------|---------------|--------------|------|
| EP-67 | 10/28/99 | EPRL-9911-135 | GW | 2 | 6.64 | 7.3 | 4400 | 4410 | 3730 | 2.2 | 425 | 130 | 416 | 12 | 200 | 244 | 1.0 | U | 1925 | |
| EP-67 | 01/24/00 | EPRL-0002-135 | GW | 1.3 | 6.88 | 7.5 | 4380 | 4280 | 3619 | 4.8 | 368 | 112 | 432 | 12 | 202 | 246 | 1.0 | U | 2036 | |
| Average | | | | 1.43 | 6.79 | 7.44 | 4406 | 4751 | 3841 | 8 | 459 | 138 | 470 | 17 | 206 | 252 | 1.0 | | 1928 | |
| Median | | | | 1.50 | 6.8 | 7.4 | 4400 | 4470 | 3822 | 4 | 458 | 140 | 478 | 15 | 207 | 253 | 1.0 | | 1942 | |
| Standard Deviation | | | | 0.35 | 0.10 | 0.17 | 51 | 551 | 210 | 8 | 45 | 11 | 49 | 6 | 6 | 7 | 0.0 | 214 | 371 | |
| Minimum | | | | 0.90 | 6.64 | 7.20 | 4330 | 4280 | 3438 | 2 | 368 | 112 | 390 | 12 | 196 | 239 | 1.0 | | 26 | |
| Maximum | | | | 2.00 | 6.94 | 7.70 | 4480 | 5820 | 4098 | 29 | 560 | 156 | 557 | 33 | 214 | 261 | 1.0 | | 1343 | |
| EP-68 | 08/14/97 | EPRL-9708-133 | GW | 6.38 | 7.14 | 7.70 | 5430 | 5290 | 4246 | 19 | 337 | 141 | 784 | 18 | 180 | 230 | 1.0 | U | 1740 | |
| EP-68 | 08/14/97 | EPRL-9708-174 | GW | 7.70 | 5330 | | 4220 | 19 | 320 | | 133 | 774 | 18 | 184 | 224 | 1.0 | U | 1683 | 375 | |
| EP-68 | 11/11/97 | EPRL-9711-133 | GW | 6.09 | 7.11 | 7.30 | 5440 | 5590 | 4350 | 38 | 314 | 132 | 841 | 12 | 183 | 223 | 1.0 | U | 1725 | |
| EP-68 | 02/11/98 | EPRL-9802-133 | GW | 7.59 | 6.93 | 7.70 | 4980 | 6080 | 3957 | 89 | 271 | 114 | 765 | 17 | 200 | 244 | 1.0 | U | 1610 | |
| EP-68 | 05/13/98 | EPRL-9805-133 | GW | 5.87 | 7.17 | 7.40 | 5690 | 5320 | 4125 | 46 | 299 | 129 | 815 | 16 | 180 | 220 | 1.0 | U | 1845 | |
| EP-68 | 05/13/98 | EPRL-9805-179 | GW | 8.10 | 5740 | | 4166 | 51 | 316 | | 133 | 840 | 16 | 185 | 226 | 1.0 | U | 1878 | 789 | |
| EP-68 | 08/13/98 | EPRL-9808-133 | GW | 6.52 | 7.16 | 7.8 | 4260 | 3990 | 3252 | 25 | 236 | 99 | 672 | 16 | 212 | 259 | 1.0 | U | 1312 | |
| EP-68 | 11/09/98 | EPRL-9811-133 | GW | 6.40 | 7.40 | 7.9 | 4480 | 4130 | 3329 | 51 | 207 | 88 | 630 | 14 | 203 | 248 | 1.0 | U | 1454 | |
| EP-68 | 02/18/99 | EPRL-9902-135 | GW | 5.60 | 7.31 | 7.5 | 3840 | 3690 | 2926 | 49 | 185 | 86 | 586 | 17 | 214 | 261 | 1.0 | U | 861 | |
| EP-68 | 05/10/99 | EPRL-9905-136 | GW | 6.00 | 7.08 | 7.6 | 4030 | 3990 | 2940 | 38 | 193 | 88 | 580 | 16 | 220 | 268 | 1.0 | U | 1064 | |
| EP-68 | 08/05/99 | EPRL-9908-136 | GW | 7.17 | 7.9 | 4780 | 4790 | 3666 | 19 | 246 | 108 | 608 | 14 | 197 | 240 | 1.0 | U | 1609 | 555 | |
| EP-68 | 10/28/99 | EPRL-9911-136 | GW | 12.1 | 6.88 | 7.4 | 5900 | 5340 | 4467 | 42 | 296 | 125 | 677 | 14 | 184 | 224 | 1.0 | U | 1885 | |
| EP-68 | 01/25/00 | EPRL-0002-136 | GW | 5.4 | 7.07 | 7.8 | 5800 | 5570 | 4210 | 58 | 285 | 121 | 769 | 16 | 192 | 234 | 1.0 | U | 2051 | |
| EP-68 | 01/25/00 | EPRL-0002-221 | GW | 5.2 | 7.09 | 7.7 | 5780 | 5560 | 4237 | 52 | 314 | 130 | 814 | 17 | 195 | 238 | 1.0 | U | 2067 | |
| Average | | | | 6.65 | 7.13 | 7.68 | 5106 | 4945 | 3864 | 43 | 273 | 116 | 725 | 16 | 195 | 238 | 1.0 | | 1627 | |
| Median | | | | 6.09 | 7.125 | 7.7 | 5380 | 5305 | 4146 | 44 | 291 | 123 | 767 | 16 | 193 | 236 | 1.0 | | 1704 | |
| Standard Deviation | | | | 1.92 | 0.14 | 0.22 | 711 | 796 | 536 | 19 | 51 | 19 | 96 | 2 | 13 | 16 | 0.0 | | 352 | |
| Minimum | | | | 5.20 | 6.88 | 7.30 | 3840 | 3690 | 2926 | 19 | 185 | 86 | 580 | 12 | 180 | 220 | 1.0 | | 861 | |
| Maximum | | | | 12.10 | 7.40 | 8.10 | 5900 | 6080 | 4467 | 89 | 337 | 141 | 841 | 18 | 220 | 268 | 1.0 | | 2067 | |
| EP-70 | 08/12/97 | EPRL-9708-135A | GW | 0.52 | 6.84 | | 7150 | | | | 273 | | | | | | | | 654 | |
| EP-70 | 08/26/97 | EPRL-9708-135 | GW | 7.19 | 7.90 | 6.970 | 1291 | R | 5856 | 6.5 | 274 | 149 | 1238 | 31 | 252 | 307 | 1.0 | U | 2496 | |
| EP-70 | 08/26/97 | EPRL-9708-180 | GW | | 7.60 | 6970 | | 5831 | 9.8 | 278 | 152 | 1221 | 32 | 248 | 303 | 1.0 | U | 2639 | | |
| EP-70 | 11/07/97 | EPRL-9711-135 | GW | 0.75 | 6.91 | 7.50 | 6740 | 7510 | 5436 | 6.4 | 298 | 165 | 1236 | 25 | 246 | 300 | 1.0 | U | 2586 | |
| EP-70 | 02/11/98 | EPRL-9802-135 | GW | 0.56 | 6.79 | 7.40 | 6600 | 8480 | 5373 | 1 | 104 | 304 | 159 | 1230 | 26 | 238 | 290 | 1.0 | U | 2464 |
| EP-70 | 05/12/98 | EPRL-9805-135 | GW | 0.38 | 7.07 | 7.40 | 6290 | 6210 | 4672 | 1 | U | 277 | 143 | 1097 | 20 | 232 | 283 | 1.0 | U | 2356 |
| EP-70 | 08/13/98 | EPRL-9808-135 | GW | 1.39 | 6.94 | 7.6 | 6150 | 5960 | 5053 | 6.3 | 301 | 153 | 1127 | 30 | 242 | 295 | 1.0 | U | 2374 | |
| EP-70 | 11/10/98 | EPRL-9811-135 | GW | 0.8 | 7.02 | 7.4 | 6320 | 5136 | 2.1 | 314 | 157 | 1182 | 24 | 234 | 285 | 1.0 | U | 2674 | | |
| EP-70 | 11/10/98 | EPRL-9811-180 | GW | | 7.3 | 6310 | | 5108 | 1 | 310 | 157 | 1164 | 24 | 239 | 292 | 1.0 | U | 2477 | | |
| EP-70 | 02/10/99 | EPRL-9902-136 | GW | 0.900 | 7.04 | 7.7 | 6080 | 4910 | 1.7 | 309 | 158 | 790 | 30 | 231 | 282 | 1.0 | U | 1970 | | |
| EP-70 | 05/07/99 | EPRL-9905-137 | GW | 0.700 | 6.92 | 7.5 | 6230 | 6630 | 4827 | 3.5 | 291 | 157 | 1009 | 50 | 237 | 289 | 1.0 | U | 2210 | |
| EP-70 | 08/05/99 | EPRL-9908-137 | GW | | 7.01 | 7 | 6020 | 6660 | 4798 | 3.1 | 291 | 151 | 930 | 20 | 180 | 220 | 1.0 | U | 2600 | |
| EP-70 | 10/28/99 | EPRL-9911-137 | GW | 0.2 | 6.76 | 7.2 | 6220 | 4909 | 1 | U | 279 | 143 | 852 | 17 | 236 | 288 | 1.0 | | 2057 | |
| EP-70 | 01/24/00 | EPRL-0002-137 | GW | 0.2 | 7.03 | 7.6 | 6110 | 5950 | 4832 | 2.8 | 260 | 134 | 954 | 18 | 240 | 293 | 1.0 | U | 2485 | |
| EP-70 | 01/24/00 | EPRL-0002-219 | GW | 0.2 | 7.03 | 7.5 | 6100 | 5950 | 4771 | 2.7 | 262 | 135 | 927 | 18 | 243 | 296 | 1.0 | U | 2483 | |
| Average | | | | 0.50 | 6.97 | 7.47 | 6365 | | | | 289 | 151 | 1068 | 26 | 236 | 287 | 1.0 | | 2419 | |
| Median | | | | 0.56 | 7.01 | 7.5 | 6260 | | | | 291 | 153 | 1112 | 25 | 239 | 291 | 1.0 | | 2480 | |
| Standard Deviation | | | | 0.36 | 0.12 | 0.22 | 323 | 1646 | | | 18 | 9 | 155 | 9 | 17 | 21 | 0.0 | | 44 | |
| Minimum | | | | 0.20 | 6.76 | 7.00 | 6020 | 1291 | | | 260 | 134 | 790 | 17 | 180 | 220 | 1.0 | | 1970 | |
| Maximum | | | | 1.39 | 7.19 | 7.90 | 6970 | 8480 | | | 314 | 165 | 1238 | 50 | 252 | 307 | 1.0 | | 2674 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) fltu | pH (lab) | Specific Conductivity SC (fltu) | Specific Conductivity SC (mS) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CACO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | |
|--------------------|----------|---------------|------|-------------|-------------|---------------------------------------|-------------------------------------|------|------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|-----|
| EP-71 | 08/12/97 | EPRI-9708-136 | GW | 0.43 | 6.79 | 7.50 | 6480 | 6560 | 5636 | 4.9 | 388 | 180 | 1046 | 21 | 248 | 303 | 1.0 | U | 2720 | 517 | 0.95 | |
| EP-71 | 11/07/97 | EPRI-9711-136 | GW | 0.54 | 6.85 | 7.50 | 6470 | 7180 | 5567 | 10 | 380 | 185 | 1091 | 18 | 244 | 298 | 1.0 | U | 2564 | 573 | 0.92 | |
| EP-71 | 02/11/98 | EPRI-9802-136 | GW | 0.82 | 6.70 | 7.50 | 6770 | 8670 | 5828 | 1.3 | 379 | 180 | 1168 | 20 | 250 | 305 | 1.0 | U | 2575 | 574 | 0.8 | |
| EP-71 | 05/12/98 | EPRI-9805-136 | GW | 0.39 | 6.99 | 7.30 | 6440 | 6400 | 5049 | 3.2 | 362 | 169 | 1058 | 18 | 246 | 300 | 1.0 | U | 2329 | 476 | 0.89 | |
| EP-71 | 08/13/98 | EPRI-9808-136 | GW | 0.310 | 6.86 | 7.5 | 6290 | 6260 | 5538 | 1.0 | 392 | 179 | 1256 | 22 | 252 | 307 | 1.0 | U | 2424 | 498 | 0.86 | |
| EP-71 | 11/09/98 | EPRI-9811-136 | GW | 1.1 | 7.00 | 7.3 | 5750 | 5670 | 4741 | 6.0 | 348 | 159 | 952 | 19 | 234 | 285 | 1.0 | U | 2506 | 478 | 0.95 | |
| EP-71 | 02/10/99 | EPRI-9902-137 | GW | 1.0 | 7.01 | 7.7 | 5940 | 5970 | 5085 | 4.5 | 344 | 172 | 730 | 20 | 235 | 287 | 1.0 | U | 1840 | 47 | 0.89 | |
| EP-71 | 08/05/99 | EPRI-9908-138 | GW | 6.92 | 7.5 | 5850 | 6360 | 4837 | 4 | 348 | 164 | 856 | 17 | 230 | 281 | 1.0 | U | 2329 | 475 | 0.92 | | |
| EP-71 | 10/28/99 | EPRI-9911-138 | GW | 0.2 | 6.71 | 7.9 | 5800 | 5810 | 4623 | 1.4 | 320 | 150 | 741 | 15 | 241 | 294 | 1.0 | U | 2117 | 528 | 0.86 | |
| EP-71 | 01/24/00 | EPRI-0002-138 | GW | 0.9 | 6.97 | 7.6 | 5950 | 5770 | 4727 | 2.2 | 302 | 142 | 800 | 16 | 233 | 284 | 1.0 | U | 2438 | 503 | 0.86 | |
| Average | | | | 0.63 | 6.88 | 7.53 | 674 | 6484 | 5165 | 4 | 356 | 168 | 970 | 19 | 241 | 294 | 1.0 | U | 2384 | 467 | 1 | |
| Median | | | | 0.54 | 6.89 | 7.5 | 6120 | 6320 | 5067 | 4 | 355 | 171 | 999 | 19 | 243 | 296 | 1.0 | U | 2431 | 501 | 1 | |
| Standard Deviation | | | | 0.33 | 0.12 | 0.18 | 357 | 897 | 440 | 3 | 30 | 14 | 183 | 2 | 8 | 10 | 0.0 | U | 253 | 152 | 0 | |
| Minimum | | | | 0.20 | 6.70 | 7.30 | 5750 | 5670 | 4673 | 1 | 302 | 142 | 730 | 15 | 230 | 281 | 1.0 | U | 1840 | 47 | 1 | |
| Maximum | | | | 1.10 | 7.01 | 7.90 | 6770 | 8670 | 5828 | 10 | 392 | 185 | 1236 | 22 | 252 | 307 | 1.0 | U | 2720 | 574 | 1 | |
| EP-72 | 08/12/97 | EPRI-9708-137 | GW | 0.37 | 6.77 | 7.80 | 6220 | 6300 | 5403 | 6.4 | 366 | 167 | 997 | 25 | 238 | 290 | 1.0 | U | 2767 | 553 | 1.4 | |
| EP-72 | 11/07/97 | EPRI-9711-137 | GW | 0.95 | 6.86 | 7.40 | 6040 | 6810 | 5075 | 11 | 347 | 162 | 995 | 22 | 235 | 287 | 1.0 | U | 2522 | 608 | 1.4 | |
| EP-72 | 02/11/98 | EPRI-9802-137 | GW | 0.72 | 6.72 | 7.40 | 6030 | 7900 | 4975 | 16 | 347 | 158 | 1016 | 25 | 232 | 283 | 1.0 | U | 2209 | 574 | 1.3 | |
| EP-72 | 05/13/98 | EPRI-9805-137 | GW | 0.29 | 7.02 | 7.50 | 6030 | 5970 | 4660 | 2.9 | 327 | 150 | 985 | 21 | 231 | 282 | 1.0 | U | 2296 | 569 | 1.4 | |
| EP-72 | 08/13/98 | EPRI-9808-137 | GW | 0.210 | 6.89 | 7.5 | 6050 | 6050 | 5094 | 4.5 | 361 | 165 | 1040 | 29 | 240 | 293 | 1.0 | U | 2303 | 552 | 1.3 | |
| EP-72 | 11/10/98 | EPRI-9811-137 | GW | 1.2 | 7.00 | 7.3 | 6090 | 6080 | 5018 | 9.0 | 365 | 165 | 1086 | 23 | 235 | 287 | 1.0 | U | 2506 | 588 | 1.4 | |
| EP-72 | 01/24/00 | EPRI-0002-139 | GW | 2.7 | 7.11 | 7.9 | 5700 | 5260 | 4539 | 16 | 250 | 148 | 900 | 16 | 242 | 295 | 1.0 | U | 2459 | 504 | 1.1 | |
| Average | | | | 0.92 | 6.91 | 7.54 | 6023 | 6374 | 4958 | 9 | 338 | 159 | 1003 | 23 | 236 | 288 | 1.0 | U | 2437 | 564 | 1 | |
| Median | | | | 0.72 | 6.89 | 7.5 | 6040 | 6080 | 5018 | 9 | 349 | 162 | 997 | 23 | 235 | 287 | 1.0 | U | 2459 | 569 | 1 | |
| Standard Deviation | | | | 0.87 | 0.14 | 0.22 | 157 | 772 | 299 | 5 | 41 | 8 | 57 | 4 | 4 | 5 | 0.0 | U | 188 | 33 | 0 | |
| Minimum | | | | 0.21 | 6.72 | 7.30 | 5700 | 5560 | 4539 | 3 | 250 | 148 | 900 | 16 | 231 | 282 | 1.0 | U | 2209 | 504 | 1 | |
| Maximum | | | | 2.70 | 7.11 | 7.90 | 6220 | 7900 | 5403 | 16 | 366 | 167 | 1086 | 29 | 242 | 295 | 1.0 | U | 2767 | 608 | 1 | |
| EP-73 | 08/12/97 | EPRI-9708-138 | GW | 5.73 | 6.88 | 7.90 | 6760 | 6760 | 5763 | 2 | 287 | 117 | 1048 | 388 | 240 | 293 | 1.0 | U | 3223 | 485 | 2.8 | |
| EP-73 | 11/13/97 | EPRI-9711-138 | GW | 1.20 | 6.91 | 7.40 | 6520 | 8610 | 5329 | 12 | 14 | 265 | 113 | 1087 | 382 | 235 | 287 | 1.0 | U | 2584 | 441 | 2.6 |
| EP-73 | 02/12/98 | EPRI-9802-138 | GW | 0.97 | 6.84 | 7.60 | 6850 | 9340 | 5672 | 8.2 | J3 | 292 | 125 | 1185 | 417 | 234 | 285 | 1.0 | U | 2861 | 466 | 2.4 |
| EP-73 | 05/11/98 | EPRI-9805-138 | GW | 1.43 | 6.62 | 7.70 | 6900 | 7810 | 5747 | 3.5 | 283 | 123 | 1148 | 387 | 223 | 272 | 1.0 | U | 3124 | 422 | 2.8 | |
| EP-73 | 08/13/98 | EPRI-9808-138 | GW | 0.810 | 6.97 | 7.5 | 6700 | 6610 | 5365 | 2.9 | 286 | 121 | 1162 | 394 | 234 | 285 | 1.0 | U | 2754 | 469 | 2.7 | |
| EP-73 | 11/05/98 | EPRI-9811-138 | GW | 6.20 | 7.20 | 7.13 | 7.4 | 6580 | 5550 | 575 | 1.6 | 262 | 112 | 1126 | 330 | 238 | 290 | 1.0 | U | 2776 | 466 | 2.6 |
| EP-73 | 02/09/99 | EPRI-9902-139 | GW | 2.70 | 7.13 | 7.7 | 6540 | 6340 | 5245 | 10 | 278 | 119 | 830 | 400 | 235 | 287 | 1.0 | U | 2155 | 14 | 2.9 | |
| EP-73 | 05/07/99 | EPRI-9905-140 | GW | 0.800 | 6.97 | 7.5 | 6700 | 7670 | 5284 | 7.4 | 264 | 122 | 977 | 365 | 240 | 293 | 1.0 | U | 3116 | 410 | 3 | |
| EP-73 | 05/07/99 | EPRI-9905-183 | GW | 0.8 | 6.96 | 7.7 | 6700 | 7680 | 5239 | 6.0 | 263 | 121 | 1009 | 382 | 235 | 287 | 1.0 | U | 3079 | 430 | 2.7 | |
| EP-73 | 08/05/99 | EPRI-9908-140 | GW | 5.2 | 7.01 | 7.5 | 6550 | 7280 | 5277 | 6.9 | 262 | 117 | 1066 | 348 | 220 | 268 | 1.0 | U | 3032 | 439 | 2.7 | |
| EP-73 | 10/29/99 | EPRI-9911-140 | GW | 1.2 | 6.8 | 7.6 | 6520 | 5760 | 4302 | 14 | 247 | 111 | 901 | 315 | 243 | 296 | 1.0 | U | 2596 | 468 | 2.9 | |
| EP-73 | 01/26/00 | EPRI-0002-140 | GW | 0.4 | 7.07 | 7.8 | 6600 | 6200 | 4896 | 5.3 | 265 | 116 | 959 | 352 | 246 | 300 | 1.0 | U | 2622 | 408 | 2.8 | |
| Average | | | | 2.29 | 6.94 | 7.61 | 6660 | 7151 | 5291 | 6 | 271 | 118 | 1042 | 372 | 235 | 287 | 1.0 | U | 2827 | 445 | 3 | |
| Median | | | | 1.20 | 6.965 | 7.6 | 6650 | 7020 | 5307 | 6 | 265 | 118 | 1057 | 382 | 235 | 287 | 1.0 | U | 2819 | 440 | 3 | |
| Standard Deviation | | | | 2.15 | 0.15 | 0.16 | 1.29 | 1121 | 396 | 3 | 14 | 5 | 110 | 30 | 8 | 9 | 0.0 | U | 309 | 25 | 0 | |
| Minimum | | | | 0.40 | 6.62 | 7.40 | 6320 | 5150 | 4302 | 2 | 247 | 111 | 830 | 315 | 220 | 268 | 1.0 | U | 2155 | 408 | 2 | |
| Maximum | | | | 6.20 | 7.13 | 7.90 | 6900 | 9340 | 5763 | 12 | 292 | 125 | 1185 | 417 | 246 | 300 | 1.0 | U | 3223 | 485 | 3 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Sample # | Type | (O) | pH (Ind) | pH (Lab) | Specific Conductivity SC (Ind) | Specific Conductivity SC (Lab) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | |
|--------------------|----------|---------------|------|-------|-------------|-------------|--------------------------------------|--------------------------------------|-------|-------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|-------|
| EP-74 | 08/13/97 | EPRI-9708-139 | GW | 9.41 | 7.42 | 8.00 | 2550 | | 2530 | 1771 | 31 | 87 | 36 | 448 | 7.6 | 240 | 293 | 1.0 | U | 253 | | |
| EP-75 | 08/12/97 | EPRI-9708-140 | GW | 1.54 | 6.84 | 7.40 | 19820 | | 18940 | 20923 | 116 | 438 | 463 | 4680 | 586 | 654 | 798 | 1.0 | U | 13167 | | |
| EP-75 | 11/13/97 | EPRI-9711-140 | GW | 1.96 | 6.82 | 7.20 | 18340 | | 21360 | 18259 | 41 | 44 | 406 | 407 | 5246 | 760 | 608 | 742 | 1.0 | U | 258 | |
| EP-75 | 02/06/98 | EPRI-9802-140 | GW | 1.11 | 6.86 | 7.20 | 19240 | | 23900 | 19043 | 49 | 451 | 476 | 4055 | 655 | 236 | 288 | 1.0 | U | 11195 | | |
| EP-75 | 05/11/98 | EPRI-9805-140 | GW | 2.40 | 6.52 | 7.50 | 20000 | | 20000 | 19257 | 260 | 452 | 501 | 4377 | 702 | 668 | 815 | 1.0 | U | 12795 | | |
| EP-75 | 08/17/98 | EPRI-9808-140 | GW | 1.13 | 6.85 | 7.4 | 18700 | | 17890 | 17873 | 16 | 421 | 401 | 4249 | 661 | 621 | 758 | 1.0 | U | 11607 | | |
| EP-75 | 11/05/98 | EPRI-9811-140 | GW | 5.0 | 6.90 | 7.2 | 19100 | | 16900 | 18662 | 11 | 455 | 477 | 4342 | 590 | 610 | 744 | 1.0 | U | 12536 | | |
| EP-75 | 02/22/99 | EPRI-9902-140 | GW | 6.80 | 6.94 | 7.3 | 18720 | | 22000 | 17691 | 46 | 382 | 364 | 3962 | 858 | 544 | 664 | 1.0 | U | 9087 | | |
| EP-75 | 05/10/99 | EPRI-9905-141 | GW | 0.30 | 6.87 | 7.6 | 19350 | | 20100 | 18753 | 102 | 447 | 472 | 4325 | 682 | 630 | 769 | 1.0 | U | 11378 | | |
| EP-75 | 08/06/99 | EPRI-9908-141 | GW | 0.4 | 6.86 | 7.2 | 16010 | | 18110 | 14853 | 6.7 | 380 | 372 | 3775 | 672 | 418 | 510 | 1.0 | U | 4626 | | |
| EP-75 | 01/26/00 | EPRI-0002-142 | GW | 1.8 | 7.01 | 7.7 | 18110 | | 16220 | 16215 | 87 | 391 | 355 | 3938 | 604 | 525 | 641 | 1.0 | U | 9219 | | |
| Average | | | | | 2.24 | 6.85 | 7.37 | | 18723 | | 19536 | 18157 | 73 | 422 | 429 | 4295 | 677 | 552 | 673 | 1.0 | | 10367 |
| Median | | | | | 1.67 | 6.86 | 7.35 | | 18910 | | 19470 | 18451 | 48 | 430 | 435 | 4287 | 667 | 609 | 743 | 1.0 | | 11287 |
| Standard Deviation | | | | | 2.08 | 0.13 | 0.18 | | 1114 | | 2399 | 1679 | 76 | 30 | 55 | 426 | 83 | 133 | 163 | 0.9 | | 2523 |
| Minimum | | | | | 0.30 | 6.52 | 7.20 | | 16010 | | 16220 | 14853 | 7 | 380 | 355 | 3775 | 586 | 236 | 288 | 1.0 | | 157 |
| Maximum | | | | | 6.80 | 7.01 | 7.70 | | 20000 | | 23900 | 20923 | 260 | 455 | 501 | 5246 | 858 | 668 | 815 | 1.0 | | 13167 |
| EP-76 | 08/12/97 | EPRI-9708-141 | GW | 0.35 | 7.39 | 8.00 | 5110 | | 5170 | 3967 | 25 | 195 | 105 | 937 | 72 | 396 | 483 | 1.0 | U | 1889 | | |
| EP-76 | 11/11/97 | EPRI-9711-141 | GW | 0.16 | 7.21 | 7.50 | 4670 | | 5050 | 3497 | 5.6 | 157 | 88 | 891 | 58 | 398 | 486 | 1.0 | U | 1498 | | |
| EP-76 | 02/06/98 | EPRI-9802-141 | GW | 0.34 | 7.22 | 7.60 | 4800 | | 6000 | 3704 | 4 | 159 | 90 | 882 | 63 | 390 | 476 | 1.0 | U | 1527 | | |
| EP-76 | 05/11/98 | EPRI-9805-141 | GW | 1.04 | 7.22 | 7.70 | 5000 | | 5390 | 3843 | 1.6 | 168 | 97 | 885 | 62 | 394 | 481 | 1.0 | U | 1758 | | |
| EP-76 | 08/17/98 | EPRI-9808-141 | GW | 0.110 | 7.21 | 7.6 | 5070 | | 5090 | 3737 | 5 | 182 | 102 | 985 | 68 | 399 | 487 | 1.0 | U | 1779 | | |
| EP-76 | 11/05/98 | EPRI-9811-141 | GW | 0.900 | 7.61 | 7.7 | 5680 | | 5150 | 4278 | 4.2 | 151 | 86 | 1084 | 198 | 391 | 477 | 1.0 | U | 2157 | | |
| EP-76 | 02/22/99 | EPRI-9902-141 | GW | 4.4 | 7.34 | 7.6 | 5120 | | 5680 | 3717 | 6.2 | 169 | 94 | 550 | 135 | 392 | 478 | 1.0 | U | 1477 | | |
| EP-76 | 05/10/99 | EPRI-9905-142 | GW | 0.700 | 7.05 | 7.6 | 5490 | | 5550 | 4026 | 2.3 | 187 | 112 | 922 | 113 | 398 | 486 | 1.0 | U | 1852 | | |
| EP-76 | 01/26/00 | EPRI-0002-141 | GW | 0.700 | 7.33 | 8.3 | 5060 | | 4860 | 3613 | 2.7 | 164 | 92 | 837 | 104 | 389 | 475 | 1.0 | U | 1830 | | |
| Average | | | | | 0.97 | 7.29 | 7.73 | | 5111 | | 5347 | 3820 | 6 | 170 | 96 | 886 | 97 | 394 | 481 | 1.0 | | 1752 |
| Median | | | | | 0.70 | 7.22 | 7.6 | | 5070 | | 5170 | 3737 | 4 | 168 | 94 | 891 | 72 | 394 | 481 | 1.0 | | 1779 |
| Standard Deviation | | | | | 1.33 | 0.16 | 0.25 | | 311 | | 386 | 238 | 7 | 15 | 9 | 145 | 47 | 4 | 5 | 0.0 | | 221 |
| Minimum | | | | | 0.11 | 7.05 | 7.50 | | 4670 | | 4860 | 3497 | 2 | 151 | 86 | 550 | 58 | 389 | 475 | 1.0 | | 1477 |
| Maximum | | | | | 4.40 | 7.61 | 8.30 | | 5680 | | 6000 | 4278 | 25 | 195 | 112 | 1084 | 198 | 399 | 487 | 1.0 | | 2157 |
| EP-77 | 08/12/97 | EPRI-9708-142 | GW | 3.83 | 6.98 | 8.40 | 5400 | | 5550 | 4175 | 752 | 240 | 58 | 1034 | 35 | 308 | 364 | 6.0 | | 2129 | | |
| EP-77 | 11/13/97 | EPRI-9711-142 | GW | 1.50 | 7.02 | 7.60 | 5350 | | 6550 | 3956 | 142 | 223 | 53 | 1030 | 36 | 253 | 309 | 1.0 | U | 1793 | | |
| EP-77 | 11/13/97 | EPRI-9711-178 | GW | | | | 5760 | | 5760 | 4057 | 82 | 246 | 55 | 1045 | 35 | 254 | 310 | 1.0 | U | 1793 | | |
| EP-77 | 02/12/98 | EPRI-9802-142 | GW | 1.10 | 7.00 | 7.50 | 5330 | | 6510 | 4046 | 249 | J3 | 228 | 51 | 1065 | 34 | 224 | 273 | 1.0 | U | 1808 | |
| EP-77 | 05/13/98 | EPRI-9805-142 | GW | 0.71 | 7.23 | 7.50 | 5070 | | 5320 | 3502 | 190 | 220 | 48 | 1054 | 35 | 224 | 273 | 1.0 | U | 1698 | | |
| EP-77 | 08/17/98 | EPRI-9808-142 | GW | 0.32 | 7.09 | 7.5 | 5800 | | 5730 | 4255 | 18 | 254 | 58 | 1199 | 39 | 240 | 293 | 1.0 | U | 1996 | | |
| EP-77 | 11/11/98 | EPRI-9811-142 | GW | | | | 5770 | | 5600 | 4383 | 412 | 249 | 56 | 1192 | 37 | 248 | 303 | 1.0 | U | 2168 | | |
| EP-77 | 02/11/99 | EPRI-9902-142 | GW | 0.900 | 7.23 | 7.8 | 5450 | | 5450 | 4029 | 256 | 227 | 50 | 850 | 40 | 243 | 296 | 1.0 | U | 1798 | | |
| EP-77 | 05/07/99 | EPRI-9905-143 | GW | 1.10 | 7.08 | 7.6 | 5350 | | 5800 | 35880 | 177 | 200 | 50 | 940 | 55 | 273 | 333 | 1.0 | U | 1790 | | |
| EP-77 | 08/05/99 | EPRI-9908-143 | GW | 1.2 | 7.14 | 7.4 | 5110 | | 5640 | 3766 | 42 | 182 | 42 | 823 | 32 | 189 | 230 | 1.0 | U | 2045 | | |
| EP-77 | 10/29/99 | EPRI-9911-143 | GW | 0.6 | 6.94 | 8.4 | 5080 | | 4300 | 3006 | 14 | 879 | 45 | 809 | 26 | 410 | 500 | 1.0 | U | 1565 | | |
| EP-77 | 10/29/99 | EPRI-9911-227 | GW | | | | 5030 | | 2121 | 14 | 692 | 14 | 184 | 44 | 735 | 25 | 393 | 479 | 1.0 | U | 1586 | |
| EP-77 | 01/25/00 | EPRI-0002-143 | GW | 0.2 | 7.21 | 8.2 | 4500 | | 4410 | 3152 | 13 | 144 | 36 | 820 | 27 | 270 | 329 | 1.0 | U | 1464 | | |
| Average | | | | | 1.20 | 7.11 | 7.76 | | 5277 | | 5551 | 3718 | 299 | 213 | 50 | 969 | 35 | 275 | 334 | 1.4 | | 1818 |
| Median | | | | | 1.00 | 7.09 | 7.6 | | 5350 | | 5600 | 3956 | 190 | 223 | 50 | 1030 | 35 | 254 | 310 | 1.0 | | 1793 |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (fRd) | pH (Lab) | Specific Conductivity SC (fRd) | Specific Conductivity SC (fRd) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | | |
|--------------------|----------|--------------|------|-------|-------------|-------------|--------------------------------------|--------------------------------------|------|------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|-----|-----|-----|
| Standard Deviation | | | | 0.99 | 0.12 | 0.35 | 336 | 759 | 630 | 296 | 31 | 7 | 151 | 8 | 63 | 76 | 1.4 | 217 | 85 | 0 | | | | |
| Minimum | | | | 0.20 | 6.94 | 7.40 | 4500 | 4300 | 2121 | 13 | 144 | 36 | 735 | 25 | 189 | 230 | 1.0 | 1464 | 370 | 2 | | | | |
| Maximum | | | | 3.83 | 7.30 | 8.40 | 5800 | 6910 | 4383 | 879 | 254 | 58 | 1199 | 55 | 410 | 500 | 6.0 | 2168 | 684 | 4 | | | | |
| EP-78 | 08/13/97 | EPRL9708-143 | GW | 0.25 | 7.78 | 8.00 | 2600 | 2640 | 1773 | 9.8 | 46 | 26 | 492 | 46 | 282 | 344 | 1.0 | U | 807 | 179 | 4.9 | | | |
| EP-78 | 11/18/97 | EPRL9711-143 | GW | 0.74 | 7.77 | 7.90 | 2310 | UJ1 | 2940 | 1437 | J1 | 5.9 | UJ1 | 24 | 380 | J1 | 46 | 242 | 295 | 1.0 | U | 674 | 179 | 4.8 |
| EP-78 | 11/18/97 | EPRL9711-179 | GW | 7.90 | 2320 | UJ1 | 1484 | J1 | 3.8 | J4 | 44 | UJ1 | 24 | 381 | 46 | 245 | 299 | 1.0 | U | 654 | 179 | J1 | 4.9 | |
| EP-78 | 02/05/98 | EPRL9802-143 | GW | 0.73 | 7.69 | 7.90 | 2940 | 3780 | 2004 | 10 | 61 | 33 | 483 | 57 | 276 | 337 | 1.0 | U | 876 | 252 | 4.2 | | | |
| EP-78 | 05/14/98 | EPRL9805-143 | GW | 0.82 | 7.70 | 8.00 | 3730 | 3750 | 2364 | 18 | 78 | 40 | 669 | 48 | 297 | 362 | 1.0 | U | 1078 | 325 | 3.9 | | | |
| EP-78 | 08/19/98 | EPRL9808-143 | GW | 0.240 | 7.73 | 8.1 | 3660 | 3740 | 2561 | 1.8 | 68 | 37 | 658 | 56 | 274 | 334 | 1.0 | U | 1143 | 331 | 3.7 | | | |
| EP-78 | 11/11/98 | EPRL9811-143 | GW | 1.0 | 8.05 | 8.1 | 2220 | 2170 | 1422 | 46 | J4 | 29 | 16 | 406 | 37 | 300 | 366 | 1.0 | U | 616 | 102 | 5.1 | | |
| EP-78 | 02/18/99 | EPRL9902-143 | GW | 0.500 | 7.74 | 7.9 | 3450 | 3420 | 2315 | 22 | 72 | 38 | 606 | 77 | 297 | 362 | 1.0 | U | 760 | 298 | 4.0 | | | |
| EP-78 | 05/11/99 | EPRL9905-144 | GW | 2.30 | 7.62 | 7.3 | 3750 | J3 | 3749 | 14 | 76 | 43 | 600 | 71 | 242 | 295 | J3 | 1.0 | UJ3 | 1042 | 317 | 2.6 | | |
| EP-78 | 05/11/99 | EPRL9905-186 | GW | 2.20 | 7.62 | 7.5 | 3740 | J3 | 3830 | 2558 | 16 | 76 | 44 | 600 | 74 | 243 | 296 | J3 | 1.0 | UJ3 | 1079 | 320 | 9.2 | |
| EP-78 | 08/09/99 | EPRL9908-144 | GW | 0.9 | 7.86 | 7.8 | 2520 | 2440 | 1664 | 12 | 31 | 18 | 447 | 39 | 271 | 331 | 1.0 | U | 705 | 117 | 4.5 | | | |
| EP-78 | 10/31/99 | EPRL9911-144 | GW | 7.43 | 8 | 2620 | 2610 | 1604 | 4.3 | 51 | 29 | 393 | 47 | 284 | 346 | 1.0 | U | 750 | 208 | 4.3 | | | | |
| EP-78 | 01/28/00 | EPRL0002-144 | GW | 0.7 | 7.62 | 7.6 | 3400 | 3250 | 2144 | 20 | 73 | 35 | 604 | 54 | 280 | 342 | 1.0 | U | 998 | 301 | 3.8 | | | |
| Average | | | | 0.94 | 7.72 | 7.85 | 3020 | 3195 | 1991 | 14 | 58 | 31 | 517 | 54 | 272 | 331 | 1.0 | | 860 | 239 | 5 | | | |
| Median | | | | 0.74 | 7.715 | 7.9 | 2940 | 3335 | 2004 | 12 | 61 | 33 | 492 | 48 | 276 | 337 | 1.0 | | 807 | 252 | 4 | | | |
| Standard Deviation | | | | 0.69 | 0.15 | 0.24 | 61.4 | 608 | 449 | 12 | 18 | 9 | 110 | 13 | 22 | 27 | 0.0 | | 186 | 82 | 2 | | | |
| Minimum | | | | 0.24 | 7.43 | 7.30 | 2220 | 2170 | 1422 | 2 | 29 | 16 | 380 | 37 | 242 | 295 | 1.0 | | 616 | 102 | 3 | | | |
| Maximum | | | | 2.30 | 8.05 | 8.10 | 3750 | 3830 | 2561 | 46 | 78 | 44 | 669 | 77 | 300 | 366 | 1.0 | | 1143 | 331 | 9 | | | |
| EP-79 | 08/13/97 | EPRL9708-144 | GW | 1.06 | 7.47 | 8.00 | 4890 | 4870 | 3643 | 20 | 59 | 71 | 1018 | 9.3 | 368 | 473 | 1.0 | U | 1596 | 437 | 4.1 | | | |
| EP-79 | 11/18/97 | EPRL9711-144 | GW | 0.77 | 7.43 | 8.20 | 4900 | 6500 | 3560 | 89 | 58 | UJ1 | 71 | 1153 | 12 | J1 | 372 | 454 | 1.0 | U | 1802 | 432 | J1 | 3.7 |
| EP-79 | 02/06/98 | EPRL9802-144 | GW | 0.63 | 7.42 | 7.90 | 4940 | 6700 | 3770 | 37 | 59 | 74 | 1103 | 12 | 382 | 466 | 1.0 | U | 1748 | 451 | 3.9 | | | |
| EP-79 | 05/14/98 | EPRL9805-144 | GW | 0.43 | 7.52 | 7.80 | 5080 | 5150 | 3404 | 718 | 56 | 69 | 1144 | 5 | U | 500 | 610 | 1.0 | U | 1518 | 468 | 4.4 | | |
| EP-79 | 08/19/98 | EPRL9808-144 | GW | 0.150 | 7.50 | 8.0 | 5330 | 5240 | 3921 | 1 | U | 60 | 74 | 1183 | 8.9 | 372 | 454 | 1.0 | U | 1766 | 324 | 3.9 | | |
| EP-79 | 11/11/98 | EPRL9811-144 | GW | 1.60 | 7.67 | 7.8 | 4710 | 4650 | 3451 | 47 | J4 | 53 | 62 | 1077 | 9.5 | 385 | 470 | 1.0 | U | 1517 | 421 | 4.4 | | |
| EP-79 | 02/18/99 | EPRL9902-144 | GW | 1.00 | 7.61 | 7.8 | 4650 | 4660 | 3360 | 12 | 48 | 53 | 1016 | 12 | 386 | 471 | 1.0 | U | 1172 | 397 | 4.6 | | | |
| EP-79 | 05/11/99 | EPRL9905-145 | GW | 6.70 | 7.41 | 8.2 | 4900 | J3 | 4790 | 3447 | 80 | 54 | 71 | 1050 | 10 | 366 | 447 | J3 | 1.0 | UJ3 | 1477 | 453 | 4.6 | |
| EP-79 | 08/09/99 | EPRL9908-145 | GW | 0.4 | 7.53 | 8 | 4730 | 4770 | 3360 | 6.3 | 50 | 62 | 974 | 8.7 | 358 | 437 | 1.0 | U | 1509 | 396 | 4.6 | | | |
| EP-79 | 10/31/99 | EPRL9911-145 | GW | 0.2 | 7.27 | 8 | 4500 | 4480 | 2989 | 1 | U | 46 | 55 | 895 | 8 | 373 | 455 | 1.0 | U | 1362 | 445 | 4.6 | | |
| EP-79 | 01/28/00 | EPRL0002-145 | GW | 0.2 | 7.48 | 8 | 4700 | 4520 | 3214 | 26 | 55 | 60 | 965 | 7.6 | 333 | 406 | 1.0 | U | 1441 | 389 | 4.7 | | | |
| EP-79 | 01/28/00 | EPRL0002-227 | GW | 0.1 | 7.48 | 8 | 4710 | 4520 | 3188 | 30 | 55 | 59 | 988 | 7.6 | 372 | 454 | 1.0 | U | 1369 | 393 | 4.7 | | | |
| Average | | | | 1.19 | 7.48 | 7.98 | 48317 | 5086 | 3442 | 89 | 54 | 65 | 1047 | 9 | 382 | 466 | 1.0 | | 1523 | 434 | 4 | | | |
| Median | | | | 0.63 | 7.48 | 8 | 4810 | 4780 | 3426 | 28 | 55 | 66 | 1034 | 9 | 373 | 455 | 1.0 | | 1513 | 435 | 5 | | | |
| Standard Deviation | | | | 1.88 | 0.10 | 0.14 | 220 | 759 | 257 | 200 | 5 | 7 | 87 | 2 | 40 | 49 | 0.0 | | 185 | 39 | 0 | | | |
| Minimum | | | | 0.10 | 7.27 | 7.80 | 4500 | 4480 | 2989 | 1 | 46 | 53 | 895 | 5 | 333 | 406 | 1.0 | | 1172 | 389 | 4 | | | |
| Maximum | | | | 6.70 | 7.67 | 8.20 | 5330 | 6700 | 3921 | 718 | 60 | 74 | 1183 | 12 | 500 | 610 | 1.0 | | 1802 | 524 | 5 | | | |
| EP-80 | 08/13/97 | EPRL9708-145 | GW | 0.31 | 7.23 | 7.70 | 5040 | 5046 | 382 | 190 | 87 | 934 | 20 | 456 | 556 | 1.0 | U | 1889 | 432 | 1.1 | | | | |
| EP-80 | 11/17/97 | EPRL9711-145 | GW | 2.90 | 7.05 | 7.90 | 5100 | 6840 | 4025 | 127 | 226 | 85 | 1052 | 19 | 444 | 542 | 1.0 | U | 2004 | 356 | 1.1 | | | |
| EP-80 | 02/05/98 | EPRL9802-145 | GW | 0.88 | 7.14 | 7.40 | 5040 | 6190 | 4032 | 67 | 202 | 81 | 1000 | 14 | 426 | 520 | 1.0 | U | 1954 | 362 | 1.3 | | | |
| EP-80 | 05/13/98 | EPRL9805-145 | GW | 0.68 | 7.26 | 7.60 | 4960 | 5020 | 3596 | 6.2 | 183 | 80 | 1004 | 15 | 409 | 499 | 1.0 | U | 1757 | 360 | 1.3 | | | |
| EP-80 | 08/19/98 | EPRL9808-145 | GW | 2.15 | 7.27 | 8.0 | 5180 | 5300 | 3949 | 61 | 163 | 79 | 984 | 20 | 448 | 547 | 1.0 | U | 1880 | 435 | 1.3 | | | |
| EP-80 | 11/11/98 | EPRL9811-145 | GW | 1.90 | 7.38 | 7.5 | 5130 | 5040 | 4016 | 77 | J4 | 218 | 91 | 1045 | 18 | 430 | 525 | 1.0 | U | 2048 | 377 | 1.4 | | |
| EP-80 | 02/18/99 | EPRL9902-145 | GW | 1.90 | 7.30 | 7.5 | 5290 | 5230 | 4048 | 45 | 220 | 92 | 1016 | 23 | 405 | 494 | 1.0 | U | 1573 | 373 | 1.3 | | | |
| EP-80 | 05/11/99 | EPRL9905-146 | GW | 0.600 | 7.19 | 7.9 | 5170 | J3 | 5240 | 3976 | 20 | 202 | 96 | 900 | 21 | 410 | 500 | J3 | 1.0 | UJ3 | 1686 | 385 | 1.3 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Lens

| Site | Date | Samp # | Type | (O) | pH (flit) | pH (lab) | Specific Conductivity SC (flit) | Specific Conductivity SC (lab) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Ebicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | |
|--------------------|----------|---------------|------|-------|--------------|-------------|---------------------------------------|--------------------------------------|------|------|---------------------|-----------------------|--------------------|----------------------|---|-------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|
| EP-30 | 08/09/99 | EPRI-9903-146 | GW | 0.2 | 7.27 | 7.8 | 5240 | 5250 | 3934 | 18 | 196 | 94 | 961 | 20 | 418 | 510 | 1.0 | U | 1991 | 432 | |
| EP-80 | 10/27/99 | EPRI-9911-146 | GW | 0.6 | 6.96 | 8.3 | 5320 | 5280 | 4080 | 27 | 242 | 95 | 896 | 17 | 405 | 494 | J3 | 1.0 | UJ3 | 2117 | 406 |
| EP-80 | 01/28/00 | EPRI-0002-146 | GW | 0.8 | 7.22 | 8.1 | 5130 | 4870 | 3845 | 9.8 | 218 | 86 | 978 | 15 | 421 | 514 | 1.0 | U | 1880 | 372 | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-81 | 08/13/97 | EPRI-9703-146 | GW | 2.82 | 7.01 | 7.70 | 2550 | 2530 | 2045 | 233 | 176 | 86 | 327 | 18 | 360 | 439 | 1.0 | U | 961 | 164 | |
| EP-81 | 11/17/97 | EPRI-9711-146 | GW | 2.88 | 6.90 | 7.80 | 2590 | 1899 | 11 | 150 | 79 | 311 | 14 | 438 | 534 | 1.0 | U | 748 | 102 | | |
| EP-81 | 02/05/98 | EPRI-9802-146 | GW | 2.94 | 7.00 | 7.50 | 2560 | 2980 | 1967 | 76 | 152 | 76 | 331 | 17 | 432 | 527 | 1.0 | U | 923 | 125 | |
| EP-81 | 05/14/98 | EPRI-9805-149 | GW | 3.44 | 7.04 | 7.40 | 2540 | 2630 | 1830 | 45 | 140 | 75 | 330 | 12 | 440 | 537 | 1.0 | U | 776 | 100 | |
| EP-81 | 08/19/98 | EPRI-9808-146 | GW | 0.700 | 7.08 | 7.6 | 2630 | 2720 | 2039 | 3.3 | 163 | 84 | 336 | 12 | 391 | 477 | 1.0 | U | 987 | 142 | |
| EP-81 | 11/11/98 | EPRI-9811-146 | GW | 3.60 | 7.10 | 7.3 | 2430 | 2370 | 1882 | 43 | 34 | 174 | 85 | 294 | 11 | 451 | 550 | 1.0 | U | 952 | 70 |
| EP-81 | 02/18/99 | EPRI-9902-146 | GW | 4.70 | 7.19 | 7.4 | 2550 | 2590 | 2018 | 16 | 164 | 84 | 364 | 17 | 411 | 501 | 1.0 | U | 658 | 97 | |
| EP-81 | 05/11/99 | EPRI-9905-147 | GW | 6.80 | 7.00 | 7.8 | 2530 | 13 | 2570 | 1925 | 14 | 159 | 92 | 330 | 15 | 424 | 517 | J3 | 1.0 | UJ3 | 823 |
| EP-81 | 08/09/99 | EPRI-9908-147 | GW | 3.6 | 7.12 | 2830 | 3150 | 2169 | 6 | 176 | 77 | 389 | 21 | 381 | 465 | 1.0 | U | 1011 | 103 | | |
| EP-81 | 10/27/99 | EPRI-9911-147 | GW | 4.9 | 6.83 | 8.1 | 2750 | 2050 | 16 | 180 | 93 | 340 | 14 | 351 | 428 | J3 | 1.0 | UJ3 | 959 | | |
| EP-81 | 01/28/00 | EPRI-9902-147 | GW | 3.5 | 7.09 | 7.7 | 3310 | 2930 | 2382 | 81 | 178 | 83 | 459 | 25 | 325 | 397 | 1.0 | U | 1216 | 242 | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-82 | 08/13/97 | EPRI-9708-147 | GW | 1.31 | 7.06 | 7.70 | 3980 | 3960 | 2948 | 7.3 | 151 | 74 | 693 | 21 | 362 | 442 | 1.0 | U | 1310 | 422 | |
| EP-82 | 11/18/97 | EPRI-9711-147 | GW | 2.15 | 7.03 | 8.00 | 3250 | 311 | 4070 | 2274 | 36 | 14 | 91 | UJ1 | 416 | 508 | 1.0 | U | 865 | 361 | |
| EP-82 | 02/11/98 | EPRI-9802-147 | GW | 1.73 | 6.94 | 7.60 | 4320 | 5360 | 3059 | 5.4 | 13 | 167 | 87 | 780 | 24 | 323 | 394 | 1.0 | U | 1311 | 23 |
| EP-82 | 05/14/98 | EPRI-9805-147 | GW | 0.67 | 7.12 | 7.60 | 4740 | 4780 | 3297 | 47 | 170 | 85 | 844 | 20 | 312 | 381 | 1.0 | U | 1317 | 530 | |
| EP-82 | 08/19/98 | EPRI-9808-147 | GW | 0.430 | 7.16 | 7.7 | 4880 | 5000 | 3826 | 12 | 158 | 81 | 889 | 27 | 320 | 390 | 1.0 | U | 1604 | 567 | |
| EP-82 | 11/11/98 | EPRI-9811-147 | GW | 1.60 | 7.33 | 7.4 | 4880 | 4820 | 3614 | 14 | 152 | 78 | 987 | 25 | 338 | 412 | 1.0 | U | 1629 | 568 | |
| EP-82 | 01/18/99 | EPRI-9902-147 | GW | 0.500 | 7.28 | 7.6 | 4720 | 4770 | 3450 | 22 | 136 | 70 | 930 | 33 | 345 | 421 | 1.0 | U | 825 | 513 | |
| EP-82 | 05/11/99 | EPRI-9905-148 | GW | 1.50 | 7.15 | 7.8 | 4870 | 13 | 4970 | 3576 | 13 | 144 | 86 | 850 | 33 | 326 | 398 | J3 | 1.0 | UJ3 | 1050 |
| EP-82 | 08/09/99 | EPRI-9908-148 | GW | 0.4 | 7.23 | 7.7 | 4490 | 4560 | 3217 | 7.2 | 118 | 69 | 877 | 24 | 390 | 476 | 1.0 | U | 1478 | 367 | |
| EP-82 | 10/31/99 | EPRI-9911-148 | GW | 0.701 | 7.7 | 3600 | 3380 | 2369 | 1 | U | 72 | 43 | 624 | 19 | 428 | 522 | 1.0 | U | 872 | 392 | |
| EP-82 | 01/27/00 | EPRI-0002-148 | GW | 0.3 | 7.12 | 8.1 | 4340 | 4140 | 3018 | 16 | 136 | 76 | 821 | 24 | 365 | 445 | 1.0 | U | 1326 | 440 | |
| Average | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | |
| EP-83 | 08/13/97 | EPRI-9708-148 | GW | 5.75 | 7.47 | 8.00 | 3940 | 3960 | 2910 | 6 | 86 | 73 | 748 | 12 | 308 | 376 | 1.0 | U | 1382 | 359 | |
| EP-83 | 11/18/97 | EPRI-9711-148 | GW | 4.42 | 7.36 | 4490 | 4770 | 3217 | 13 | 144 | 76 | 844 | 24 | 345 | 421 | 1.0 | U | 1192 | 399 | | |
| EP-83 | 02/06/98 | EPRI-9802-148 | GW | 6.33 | 7.51 | 7.80 | 3720 | 4670 | 2660 | 8.1 | 73 | 66 | 735 | 12 | 296 | 361 | 1.0 | U | 1161 | 364 | |
| EP-83 | 05/13/98 | EPRI-9805-148 | GW | 4.85 | 7.51 | 7.80 | 3840 | 3880 | 2558 | 4 | 71 | 64 | 763 | 5 | U | 294 | 359 | 1.0 | U | 1126 | 330 |
| EP-83 | 08/19/98 | EPRI-9808-148 | GW | 3.40 | 7.53 | 8.0 | 3930 | 4040 | 2847 | 1 | 69 | 63 | 758 | 8.6 | 308 | 376 | 1.0 | U | 1316 | 391 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (flu) | Specific Conductivity SC (mS) | Specific Conductivity SC (flu) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | | | | |
|--------------------|----------|---------------|------|-------|-------------|-------------------------------------|--------------------------------------|------|------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|------|------|------|
| EP-83 | 11/12/98 | EPRL-9811-148 | GW | 7.60 | 7.7 | 3680 | | 2641 | 17 | J4 | 75 | 63 | 756 | 12 | 292 | 356 | 1.0 | 1200 | 353 | 2.7 | | | | |
| EP-83 | 02/22/99 | EPRL-9902-148 | GW | 6.00 | 7.58 | 7.8 | 3680 | 4510 | 2740 | 7.0 | 71 | 64 | 740 | 8.5 | 290 | 354 | 1.0 | U | 1040 | 347 | 3.0 | | | |
| EP-83 | 02/22/99 | EPRL-9902-192 | GW | 5.80 | 7.57 | 7.8 | 3870 | 4510 | 2663 | 5.8 | 73 | 66 | 747 | 11 | 304 | 371 | 1.0 | U | 997 | 341 | 3.1 | | | |
| EP-83 | 05/11/99 | EPRL-9905-149 | GW | 5.60 | 7.51 | 8.0 | 3710 | J3 | 3350 | 2525 | 9.4 | 76 | 550 | 13 | 296 | 361 | 13 | 1.0 | JU3 | 1156 | 205 | 3.0 | | |
| EP-83 | 08/09/99 | EPRL-9908-149 | GW | 4.9 | 7.48 | 7.9 | 3870 | | 3910 | 2725 | 6.2 | 71 | 717 | 10 | 290 | 354 | 1.0 | U | 1266 | 336 | 3.1 | | | |
| EP-83 | 10/30/99 | EPRL-9911-149 | GW | 7.22 | 7.8 | 3910 | | 3920 | 2562 | 102 | J4 | 83 | 63 | 638 | 9.5 | 330 | 403 | 1.0 | U | 1280 | 443 | 3 | | |
| EP-83 | 10/30/99 | EPRL-9911-229 | GW | 7.8 | 3910 | | | 2642 | 79 | J4 | 83 | 64 | 621 | 9.5 | 311 | 379 | 1.0 | U | 1172 | 392 | 3 | | | |
| EP-83 | 01/27/00 | EPRL-0002-149 | GW | 5.80 | 7.47 | 8.3 | 3900 | | 3710 | 2669 | 16 | 75 | 65 | 759 | 9.1 | 301 | 367 | 1.0 | U | 1284 | 396 | 3.0 | | |
| EP-83 | 01/27/00 | EPRL-0002-226 | GW | 5.70 | 7.46 | 8.2 | 3910 | | 3710 | 2610 | 18 | 75 | 65 | 753 | 9.1 | 309 | 377 | 1.0 | U | 1215 | 385 | 3.0 | | |
| Median | | | | 5.68 | 7.51 | 7.8 | 3680 | | 3940 | 2660 | 8 | 75 | 65 | 747 | 10 | 301 | 367 | 1.0 | 1192 | 359 | 3 | | | |
| Standard Deviation | | | | 0.89 | 0.10 | 0.18 | 90 | | 437 | 112 | 40 | 5 | 4 | 71 | 2 | 15 | 19 | 0.0 | 108 | 56 | 0 | | | |
| Minimum | | | | 3.40 | 7.22 | 7.70 | 3680 | | 3470 | 2555 | 1 | 69 | 63 | 550 | 5 | 290 | 354 | 1.0 | 997 | 205 | 3 | | | |
| Maximum | | | | 6.33 | 7.60 | 8.30 | 3940 | | 4930 | 2910 | 112 | 86 | 75 | 799 | 13 | 340 | 415 | 1.0 | 1382 | 443 | 3 | | | |
| EP-84 | 08/13/97 | EPRL-9708-149 | GW | 3.33 | 7.39 | 7.90 | 1958 | | 1908 | 1525 | 18 | 148 | 62 | 224 | 8.5 | 224 | 273 | 1.0 | U | 524 | 184 | 0.8 | | |
| EP-84 | 11/18/97 | EPRL-9711-149 | GW | 1.37 | 7.16 | 8.10 | 2650 | JU1 | 3260 | 1919 | 31 | J4 | 201 | 96 | 264 | 1 | 13 | J1 | 233 | 284 | 1.0 | U | | |
| EP-84 | 02/06/98 | EPRL-9802-149 | GW | 1.35 | 7.18 | 7.40 | 2990 | | 3470 | 2293 | 4.4 | 219 | 104 | 390 | 11 | 242 | 295 | 1.0 | U | 942 | 371 | 0.63 | | |
| EP-84 | 05/13/98 | EPRL-9805-146 | GW | 2.28 | 7.22 | 7.50 | 3040 | | 3050 | 2087 | 8.1 | 208 | 99 | 335 | 5 | U | 244 | 298 | 1.0 | U | 916 | 346 | 0.69 | |
| EP-84 | 08/19/98 | EPRL-9808-149 | GW | 1.97 | 7.25 | 7.8 | 2780 | | 2520 | 2183 | 1 | U | 195 | 88 | 268 | 7.2 | 242 | 295 | 1.0 | U | 924 | 330 | 0.66 | |
| EP-84 | 11/12/98 | EPRL-9811-149 | GW | 7.31 | 7.6 | 2980 | | 2790 | 2204 | 10 | J4 | 223 | 101 | 329 | 8.5 | 251 | 306 | 1.0 | U | 961 | 346 | 0.68 | | |
| EP-84 | 02/22/99 | EPRL-9902-149 | GW | 3.30 | 7.21 | 7.5 | 3070 | | 3370 | 2276 | 3.1 | 212 | 103 | 345 | 5 | U | 247 | 301 | 1.0 | U | 687 | 326 | 0.69 | |
| EP-84 | 05/11/99 | EPRL-9905-150 | GW | 2.90 | 7.23 | 7.9 | 3030 | J5 | 3080 | 2174 | 3.5 | 220 | 117 | 370 | 12 | U | 248 | 303 | 13 | 1.0 | JU3 | 838 | 329 | 0.70 |
| EP-84 | 08/09/99 | EPRL-9908-150 | GW | 2.7 | 7.44 | 7.9 | 1838 | | 1854 | 1288 | 4.5 | 126 | 56 | 195 | 6.2 | 188 | 229 | 1.0 | U | 506 | 157 | 0.9 | | |
| EP-84 | 10/30/99 | EPRL-9911-150 | GW | 6.88 | 7.4 | 3080 | | 3070 | 2234 | 4 | J4 | 198 | 95 | 292 | 7.7 | 261 | 318 | 1.0 | U | 872 | 393 | 0.66 | | |
| EP-84 | 01/27/00 | EPRL-0002-150 | GW | 0.8 | 7.12 | 8 | 3090 | | 2920 | 2196 | 62 | 216 | 101 | 338 | 7.6 | 251 | 306 | 1.0 | U | 1013 | 367 | 0.66 | | |
| Average | | | | 2.22 | 7.22 | 7.73 | | | 2872 | 2040 | 14 | 197 | 93 | 305 | 8 | 239 | 292 | 1.0 | | 819 | 316 | 1 | | |
| Median | | | | 2.28 | 7.22 | 7.8 | 2990 | | 3050 | 2183 | 5 | 208 | 99 | 329 | 8 | 244 | 298 | 1.0 | | 872 | 330 | 1 | | |
| Standard Deviation | | | | 0.91 | 0.15 | 0.25 | 454 | | 534 | 329 | 18 | 31 | 18 | 61 | 3 | 20 | 24 | 0.0 | 173 | 75 | 0 | | | |
| Minimum | | | | 0.80 | 6.88 | 7.40 | 1838 | | 1854 | 1288 | 1 | 126 | 56 | 195 | 5 | 188 | 229 | 1.0 | | 506 | 157 | 1 | | |
| Maximum | | | | 3.33 | 7.44 | 8.10 | 3090 | | 3470 | 2293 | 62 | 223 | 117 | 390 | 13 | 261 | 318 | 1.0 | | 1013 | 393 | 1 | | |
| EP-85 | 08/13/97 | EPRL-9708-50 | GW | 0.32 | 7.33 | 8.00 | 2900 | | 2890 | 2126 | 4.4 | 106 | 49 | 495 | 32 | 314 | 383 | 1.0 | U | 1034 | 193 | 3.6 | | |
| EP-85 | 11/17/97 | EPRL-9711-50 | GW | 0.35 | 7.30 | 8.00 | 2300 | | 2550 | 1622 | 1.1 | 67 | 32 | 401 | 26 | 296 | 361 | 1.0 | U | 680 | 143 | 3.8 | | |
| EP-85 | 02/05/98 | EPRL-9802-50 | GW | 0.61 | 7.34 | 7.70 | 2600 | | 3140 | 1882 | 7.9 | 89 | 43 | 431 | 30 | 292 | 356 | 1.0 | U | 840 | 179 | 3.4 | | |
| EP-85 | 05/14/98 | EPRL-9805-50 | GW | 0.52 | 7.39 | 7.70 | 2970 | | 3010 | 2047 | 7.3 | 105 | 51 | 496 | 28 | 282 | 344 | 1.0 | U | 857 | 233 | 3.5 | | |
| EP-85 | 08/19/98 | EPRL-9808-50 | GW | 0.140 | 7.38 | 7.8 | 3240 | | 3340 | 2432 | 1.8 | 112 | 55 | 550 | 29 | 298 | 364 | 1.0 | U | 1158 | 265 | 3.3 | | |
| EP-85 | 08/19/98 | EPRL-9808-80 | GW | 7.8 | 3250 | | | | 2427 | 1.8 | 113 | 56 | 553 | 28 | 300 | 366 | 1.0 | U | 1145 | 264 | 3.2 | | | |
| EP-85 | 11/12/98 | EPRL-9811-50 | GW | 1.50 | 7.51 | 7.7 | 2850 | | 2800 | 2011 | 13 | J4 | 93 | 45 | 502 | 28 | 311 | 379 | 1.0 | U | 1119 | 224 | 3.7 | |
| EP-85 | 02/18/99 | EPRL-9902-50 | GW | 0.400 | 7.45 | 7.6 | 2770 | | 2780 | 1998 | 7.3 | J4 | 42 | 483 | 34 | 300 | 366 | 1.0 | U | 1106 | 216 | 3.7 | | |
| EP-85 | 02/18/99 | EPRL-9902-189 | GW | 0.400 | 7.45 | 7.7 | 2770 | | 2780 | 1724 | 5.6 | 92 | 44 | 500 | 36 | 304 | 371 | 1.0 | U | 584 | 193 | 3.7 | | |
| EP-85 | 05/11/99 | EPRL-9905-51 | GW | 0.500 | 7.32 | 8.0 | 3070 | J3 | 3120 | 2061 | 1.0 | U | 107 | 57 | 540 | 34 | 292 | 356 | J3 | 1.0 | JU3 | 949 | 230 | 3.8 |
| EP-85 | 08/09/99 | EPRL-9908-151 | GW | 0.5 | 7.38 | 7.8 | 3200 | | 3230 | 2276 | 2.7 | 105 | 53 | 524 | 29 | 281 | 343 | 1.0 | U | 1119 | 224 | 3.4 | | |
| EP-85 | 08/09/99 | EPRL-9908-202 | GW | 0.5 | 7.38 | 7.8 | 3190 | | 3220 | 2282 | 2.7 | 107 | 54 | 542 | 30 | 276 | 337 | 1.0 | U | 1106 | 216 | 3.5 | | |
| EP-85 | 10/27/99 | EPRL-9911-151 | GW | 0.5 | 7.15 | 8.1 | 2700 | | 2700 | 1831 | 1.2 | 82 | 39 | 444 | 26 | 298 | 364 | J3 | 1.0 | JU3 | 773 | 172 | 3.7 | |
| EP-85 | 10/27/99 | EPRL-9911-224 | GW | 0.5 | 7.15 | 8.2 | 2700 | | 2700 | 1821 | 1 | U | 84 | 41 | 458 | 27 | 303 | 370 | J3 | 1.0 | JU3 | 742 | 173 | 3.7 |
| EP-85 | 01/28/00 | EPRL-0002-151 | GW | 0.2 | 7.31 | 7.9 | 3000 | | 2870 | 1448 | 1.9 | 96 | 47 | 520 | 27 | 327 | 399 | 1.0 | U | 948 | 219 | 3.3 | | |
| Average | | | | 0.50 | 7.35 | 7.85 | 2901 | | 2966 | 1990 | 4 | 47 | 496 | 30 | 298 | 364 | 1.0 | | 905 | 205 | 4 | | | |
| Median | | | | 0.50 | 7.36 | 7.8 | 2900 | | 2920 | 2011 | 3 | 96 | 47 | 500 | 29 | 298 | 364 | 1.0 | | 948 | 200 | 4 | | |

Table II-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (lab) | pH (flu.) | Specific Conductivity SC (lab) | Specific Conductivity SC (fl) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | | | | |
|--------------------|----------|---------------|-------|-------|-------------|--------------|--------------------------------------|-------------------------------------|------|------|---------------------|-----------------------|--------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|-----|-----|----|------|-----|
| Standard Deviation | | 0.32 | 0.10 | 0.17 | 270 | 212 | 286 | 4 | 13 | 7 | 46 | 3 | 13 | 16 | 0.0 | 194 | 35 | 0 | | | | | | |
| Minimum | | 0.14 | 7.15 | 7.60 | -250.0 | 270.0 | 1448 | 1 | 67 | 32 | 401 | 26 | 276 | 337 | 1.0 | 584 | 143 | 3 | | | | | | |
| Maximum | | 1.50 | 7.51 | 8.30 | 3250 | 3340 | 2432 | 13 | 113 | 57 | 553 | 36 | 327 | 399 | 1.0 | 1158 | 265 | 4 | | | | | | |
| EP-86 | 08/13/97 | EPRI-9708-151 | GW | 7.68 | 7.63 | 8.00 | 2630 | 2610 | 1780 | 78 | 46 | 33 | 493 | 11 | 292 | 356 | 1.0 | U | 658 | | | | | |
| EP-86 | 11/18/97 | EPRI-9711-151 | GW | 5.56 | 7.54 | 8.30 | 2650 | 3240 | 1758 | 182 | 42 | UJ1 | 32 | 519 | J1 | 10 | J1 | 291 | J1 | 2.7 | UJ1 | | | |
| EP-86 | 02/06/98 | EPRI-9802-151 | GW | 6.00 | 7.53 | 7.80 | 2640 | 3300 | 1812 | 201 | 41 | 33 | 497 | 12 | 314 | 340 | 415 | 1.0 | U | 664 | | | | |
| EP-86 | 05/14/98 | EPRI-9805-151 | GW | 8.01 | 7.70 | 7.90 | 2640 | 2670 | 1628 | 61 | 40 | 30 | 507 | 5 | U | 284 | 346 | 1.0 | U | 679 | | | | |
| EP-86 | 08/19/98 | EPRI-9808-151 | GW | 7.66 | 7.67 | 8.1 | 2660 | 2690 | 1823 | 4 | 40 | 31 | 501 | 7.7 | 288 | 351 | 1.0 | U | 782 | | | | | |
| EP-86 | 11/12/98 | EPRI-9811-151 | GW | 7.45 | 7.9 | 2640 | 2480 | 1762 | 183 | J4 | 43 | 33 | 522 | 10 | 339 | 414 | 1.0 | U | 647 | | | | | |
| EP-86 | 11/12/98 | EPRI-9811-181 | GW | 7.9 | 2640 | 1751 | 146 | J4 | 43 | 32 | 531 | 11 | 300 | 366 | 1.0 | U | 640 | 271 | 2.8 | | | | | |
| EP-86 | 02/18/99 | EPRI-9902-151 | GW | 6.50 | 7.74 | 7.9 | 2600 | 2600 | 1759 | 42 | 40 | 28 | 516 | 12 | 291 | 355 | 1.0 | U | 390 | | | | | |
| EP-86 | 05/11/99 | EPRI-9905-152 | GW | 8.70 | 7.69 | 8.2 | 2570 | 33 | 2600 | 1689 | 12 | 42 | 33 | 520 | 8.8 | 290 | 354 | J3 | 1.0 | UJ3 | | | | |
| EP-86 | 08/09/99 | EPRI-9908-152 | GW | 6.9 | 7.66 | 8.1 | 2600 | 2600 | 1716 | 15 | 42 | 32 | 490 | 9.2 | 271 | 331 | 1.0 | U | 652 | | | | | |
| EP-86 | 10/31/99 | EPRI-9911-152 | GW | 7.34 | 7.9 | 2640 | 2620 | 1687 | 11 | 39 | 29 | 452 | 8.5 | 300 | 366 | 1.0 | U | 550 | | | | | | |
| EP-86 | 10/31/99 | EPRI-9911-231 | GW | 8 | 2650 | 1665 | 8.8 | 39 | 30 | 452 | 8.6 | 291 | 355 | 1.0 | U | 575 | 369 | 2.7 | | | | | | |
| EP-86 | 01/27/00 | EPRI-0002-152 | GW | 7.5 | 7.58 | 8.2 | 2640 | 2320 | 1626 | 28 | 45 | 32 | 517 | 8.4 | 291 | 355 | 1.0 | U | 600 | | | | | |
| Average | | 7.17 | 7.59 | 8.02 | 2631 | 2721 | 1727 | 75 | 42 | 31 | 501 | 9 | 299 | 365 | 1.0 | 620 | 278 | 3 | | | | | | |
| Median | | 7.50 | 7.63 | 8 | 2640 | 2610 | 1751 | 42 | 42 | 32 | 507 | 9 | 291 | 355 | 1.0 | 640 | 275 | 3 | | | | | | |
| Standard Deviation | | 1.01 | 0.12 | 0.15 | 278 | 65 | 76 | 2 | 2 | 25 | 2 | 20 | 25 | 0.0 | 89 | 34 | 0 | | | | | | | |
| Minimum | | 5.56 | 7.34 | 7.80 | 2570 | 2480 | 1626 | 4 | 39 | 28 | 452 | 5 | 271 | 331 | 1.0 | 390 | 224 | 3 | | | | | | |
| Maximum | | 8.70 | 7.74 | 8.30 | 2660 | 3300 | 1823 | 201 | 46 | 33 | 531 | 12 | 340 | 415 | 1.0 | 782 | 351 | 3 | | | | | | |
| EP-87 | 09/15/97 | EPRI-9708-152 | GW | 7.50 | 546 | 560 | UJ1 | 685 | 361 | J1 | 1 | U | 66 | UJ1 | 24 | 16 | J1 | 2 | U | 237 | 289 | | | |
| EP-87 | 11/18/97 | EPRI-9711-152 | GW | 4.70 | 7.49 | 8.20 | 560 | UJ1 | 685 | 361 | J1 | 1 | U | 66 | UJ1 | 24 | 16 | J1 | 2 | U | 12 | J1 | 0.39 | UJ1 |
| EP-87 | 02/06/98 | EPRI-9802-152 | GW | 3.4 | 7.34 | 7.8 | 666 | | 688 | 405 | 458 | 77 | 26 | 23 | 5 | U | 440 | 537 | 1.0 | U | 48 | 15 | 0.64 | J4 |
| EP-87 | 08/10/99 | EPRI-9908-153 | GW | 3.4 | 7.34 | 7.8 | 666 | | 688 | 405 | 458 | 77 | 26 | 23 | 5 | U | 440 | 537 | 1.0 | U | 48 | 15 | 0.64 | J4 |
| Average | | 4.95 | 7.42 | 7.83 | 591 | 687 | 377 | 160 | 72 | 22 | 19 | 4 | 303 | 370 | 1.0 | 43 | 12 | 1 | | | | | | |
| Median | | 4.05 | 7.415 | 7.8 | 560 | 687 | 365 | 20 | 72 | 24 | 18 | 5 | 237 | 289 | 1.0 | 41 | 12 | 1 | | | | | | |
| Standard Deviation | | 0.92 | 0.11 | 0.35 | 66 | 2 | 24 | 259 | 6 | 5 | 4 | 2 | 119 | 145 | 0.0 | 5 | 4 | 0 | | | | | | |
| Minimum | | 3.40 | 7.34 | 7.50 | 546 | 685 | 361 | 1 | 66 | 17 | 16 | 2 | 232 | 283 | 1.0 | 39 | 8 | 0 | | | | | | |
| Maximum | | 4.70 | 7.49 | 8.20 | 666 | 688 | 405 | 458 | 77 | 26 | 23 | 5 | 440 | 537 | 1.0 | 48 | 15 | 1 | | | | | | |
| EP-88 | 08/12/97 | EPRI-9708-153 | GW | 0.73 | 7.35 | 8.40 | 5150 | 5370 | 3679 | 438 | 68 | 46 | 1145 | 8.8 | 442 | 527 | 6.0 | 1790 | 483 | 2.3 | | | | |
| EP-88 | 11/11/97 | EPRI-9711-153 | GW | 0.43 | 7.41 | 7.90 | 5240 | 5080 | 3709 | 72 | 57 | 39 | 1323 | 4.9 | 443 | 540 | 1.0 | U | 1787 | 471 | 2.2 | | | |
| EP-88 | 02/12/98 | EPRI-9802-153 | GW | 1.53 | 7.24 | 7.80 | 5320 | 6000 | 3946 | 60 | J3 | 59 | 1344 | 6.9 | 278 | 339 | 1.0 | U | 1669 | 448 | 1.9 | | | |
| EP-88 | 05/11/98 | EPRI-9805-153 | GW | 1.21 | 7.60 | 8.00 | 5570 | 5860 | 4085 | 205 | 54 | 35 | 1366 | 10 | 484 | 590 | 1.0 | U | 1848 | 475 | 2.2 | | | |
| EP-88 | 08/17/98 | EPRI-9808-153 | GW | 0.850 | 7.31 | 7.7 | 5400 | 5460 | 3832 | 32 | 55 | 35 | 1359 | 15 | 503 | 614 | 1.0 | U | 1711 | 468 | 2.2 | | | |
| EP-88 | 11/11/98 | EPRI-9811-153 | GW | 4.90 | 7.40 | 7.6 | 4940 | 4110 | 3660 | 16 | J4 | 75 | 45 | 411 | 501 | 1.0 | U | 1633 | 416 | 2.1 | | | | |
| EP-88 | 02/11/99 | EPRI-9902-153 | GW | 1.30 | 7.53 | 8.2 | 5350 | 5560 | 3822 | 143 | 50 | 31 | 1060 | 9.0 | 537 | 655 | 1.0 | U | 1720 | 454 | 2.4 | | | |
| EP-88 | 05/07/99 | EPRI-9905-154 | GW | 0.900 | 7.34 | 7.9 | 5340 | 5810 | 3800 | 90 | 57 | 39 | 1139 | 10 | 469 | 572 | 1.0 | U | 1677 | 426 | 2.2 | | | |
| EP-88 | 08/05/99 | EPRI-9908-154 | GW | 4.4 | 7.34 | 8.1 | 5070 | 5330 | 3742 | 61 | 59 | 37 | 1031 | 6.7 | 410 | 500 | 1.0 | U | 1865 | 407 | 2.2 | | | |
| EP-88 | 10/30/99 | EPRI-9911-154 | GW | 7.13 | 7.7 | 5300 | 5360 | 3576 | 17 | J4 | 60 | 38 | 932 | 6.7 | 438 | 595 | 1.0 | U | 1726 | 493 | 2.2 | | | |
| EP-88 | 01/26/00 | EPRI-0002-154 | GW | 2.3 | 7.4 | 8.6 | 5220 | 4970 | 3560 | 29 | J4 | 49 | 1036 | 7.8 | 460 | 522 | 1.0 | U | 1732 | 493 | 2.1 | | | |
| EP-88 | 01/26/00 | EPRI-0002-223 | GW | 1.7 | 7.41 | 8.2 | 5230 | 5180 | 3462 | 30 | 76 | 49 | 1096 | 8 | 465 | 567 | 1.0 | UJ4 | 1645 | 460 | 2.1 | | | |
| Average | | 1.84 | 7.37 | 8.01 | 5244 | 5349 | 3739 | 99 | 62 | 40 | 1168 | 9 | 449 | 544 | 2.9 | | | | | | | | | |
| Median | | 1.30 | 7.375 | 7.95 | 5270 | 5415 | 3721 | 61 | 59 | 39 | 1142 | 8 | 462 | 554 | 1.0 | U | 1723 | 457 | 2 | | | | | |
| Standard Deviation | | 1.48 | 0.12 | 0.30 | 135 | 512 | 173 | 120 | 9 | 6 | 148 | 3 | 65 | 80 | 5.3 | 75 | 30 | 0 | | | | | | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) (fl) | pH (fl) | TDS (lab) | Specific Conductivity SC (fl) | TDS | Specific Conductivity SC (fl) | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | |
|--------------------|----------|---------------|------|----------|---------|-----------|-------------------------------|------|-------------------------------|------|------------------|--------------------|-----------------|-------------------|---------------------------------------|---------------------------------|------------------------------|----------------------------|---------------|--------------|-----|
| Minimum | | | | 0.43 | 7.13 | 7.60 | 4940 | 4710 | 3462 | 16 | 50 | 31 | 932 | 5 | 278 | 339 | 1.0 | 1633 | 407 | | |
| Maximum | | | | 4.90 | 7.60 | 8.60 | 5400 | 6500 | 4085 | 438 | 76 | 49 | 1366 | 15 | 537 | 655 | 19.2 | 1865 | 493 | | |
| EP-89 | 08/12/97 | EPR1-9708-154 | GW | 5.34 | 7.04 | 7.90 | 2780 | 2800 | 2085 | 5.4 | 175 | 68 | 379 | 21 | 224 | 273 | 1.0 | U | 859 | 308 | |
| EP-89 | 11/13/97 | EPR1-9711-154 | GW | 3.98 | 7.12 | 7.40 | 2770 | 3350 | 1936 | 2.9 | 157 | 62 | 350 | 20 | 230 | 281 | 1.0 | U | 777 | 336 | |
| EP-89 | 02/11/98 | EPR1-9802-154 | GW | 4.09 | 7.00 | 7.70 | 2770 | 3600 | 1935 | 5.8 | 165 | 65 | 378 | 20 | 218 | 266 | 1.0 | U | 747 | 314 | |
| EP-89 | 05/13/98 | EPR1-9805-154 | GW | 4.05 | 7.29 | 7.70 | 2780 | 2770 | 1814 | 2.2 | 155 | 62 | 360 | 15 | 216 | 264 | 1.0 | U | 797 | 336 | |
| EP-89 | 08/13/98 | EPR1-9808-154 | GW | 3.55 | 7.17 | 7.9 | 2840 | 2810 | 2144 | 2 | 177 | 70 | 433 | 22 | 228 | 278 | 1.0 | U | 840 | 338 | |
| EP-89 | 11/10/98 | EPR1-9811-154 | GW | 5.3 | 7.19 | 7.5 | 2860 | 2830 | 2067 | 4 | 170 | 67 | 387 | 20 | 223 | 272 | 1.0 | U | 860 | 336 | |
| EP-89 | 02/07/99 | EPR1-9902-154 | GW | 3.70 | 7.32 | 8.0 | 2770 | 2810 | 1978 | 7.5 | 167 | 67 | 330 | 19 | 210 | 256 | 1.0 | U | 686 | 292 | |
| EP-89 | 05/07/99 | EPR1-9905-155 | GW | 4.2 | 7.17 | 7.8 | 2790 | 2920 | 1941 | 3.0 | 154 | 63 | 378 | 45 | 216 | 264 | 1.0 | U | 818 | 294 | |
| EP-89 | 08/05/99 | EPR1-9908-155 | GW | 7.24 | 7.9 | 2850 | 3220 | 2030 | 2.5 | 169 | 68 | 326 | 19 | 212 | 259 | 1.0 | U | 763 | 326 | | |
| EP-89 | 08/05/99 | EPR1-9908-198 | GW | 7.24 | 8 | 2860 | 3220 | 2045 | 8.1 | 168 | 67 | 368 | 18 | 214 | 261 | 1.0 | U | 811 | 316 | | |
| EP-89 | 10/28/99 | EPR1-9911-155 | GW | 2.8 | 6.92 | 8.1 | 2880 | 2580 | 2022 | 4.1 | 171 | 66 | 357 | 18 | 200 | 244 | 1.0 | U | 832 | 351 | |
| EP-89 | 10/28/99 | EPR1-9911-225 | GW | 2.8 | 6.92 | 8.1 | 2880 | 2380 | 2016 | 5.2 | 175 | 70 | 365 | 18 | 227 | 277 | 1.0 | U | 838 | 345 | |
| EP-89 | 01/24/00 | EPR1-0002-155 | GW | 3.5 | 7.14 | 7.9 | 2810 | 2750 | 1948 | 3.2 | 145 | 59 | 365 | 17 | 220 | 268 | 1.0 | U | 824 | 300 | |
| Average | | | | 3.94 | 7.14 | 7.84 | 2818 | 2947 | 2003 | 4 | 165 | 66 | 367 | 21 | 218 | 266 | 1.0 | U | 804 | 324 | |
| Median | | | | 3.98 | 7.17 | 7.9 | 2810 | 2810 | 2016 | 4 | 168 | 67 | 365 | 19 | 218 | 266 | 1.0 | U | 818 | 326 | |
| Standard Deviation | | | | 0.83 | 0.13 | 0.21 | 44 | 310 | 81 | 2 | 10 | 3 | 27 | 7 | 8 | 10 | 0.0 | U | 50 | 22 | |
| Minimum | | | | 2.80 | 6.92 | 7.40 | 2770 | 2580 | 1814 | 2 | 145 | 59 | 326 | 15 | 200 | 244 | 1.0 | U | 686 | 292 | |
| Maximum | | | | 5.34 | 7.32 | 8.10 | 2880 | 3600 | 2144 | 8 | 177 | 70 | 433 | 45 | 230 | 281 | 1.0 | U | 850 | 356 | |
| EP-90 | 12/12/97 | EPR1-9711-139 | GW | 0.00 | 7.41 | 8.10 | 2920 | 3700 | 2138 | 1058 | 102 | 49 | 588 | 11 | 326 | 398 | 1.0 | U | 908 | 281 | |
| EP-90 | 02/17/98 | EPR1-9802-139 | GW | 5.13 | 7.12 | 7.80 | 2950 | 3220 | 2132 | 129 | 117 | 58 | 510 | 9 | 244 | 298 | 1.0 | U | 832 | 316 | |
| EP-90 | 05/13/98 | EPR1-9805-139 | GW | 3.58 | 7.39 | 7.80 | 2900 | 240 | 1930 | 74 | 120 | 55 | 461 | 5 | U | 232 | 1.0 | U | 828 | 315 | |
| EP-90 | 08/17/98 | EPR1-9808-139 | GW | 1.91 | 7.42 | 7.8 | 2380 | 290 | 1654 | 7.8 | 75 | 36 | 421 | 8.1 | 220 | 268 | 1.0 | U | 637 | 234 | |
| EP-90 | 11/05/98 | EPR1-9811-139 | GW | 1.7 | 7.43 | 7.6 | 2660 | 512 | R 1807 | 38 | 88 | 43 | 419 | 7.8 | 235 | 287 | 1.0 | U | 732 | 244 | |
| EP-90 | 02/11/99 | EPR1-9902-155 | GW | 1.20 | 7.41 | 7.9 | 3340 | 3320 | 2434 | 260 | 132 | 67 | 500 | 10 | 245 | 299 | 1.0 | U | 808 | 321 | |
| EP-90 | 05/10/99 | EPR1-9905-156 | GW | 4.40 | 7.01 | 7.7 | 4090 | 4360 | 3026 | 21 | 184 | 100 | 665 | 13 | 230 | 281 | 1.0 | U | 1202 | 377 | |
| EP-90 | 08/05/99 | EPR1-9908-156 | GW | 1.1 | 7.19 | 7.8 | 4960 | 4960 | 3789 | 186 | 191 | 100 | 687 | 10 | 271 | 331 | 1.0 | U | 1834 | 480 | |
| EP-90 | 10/30/99 | EPR1-9911-156 | GW | 0.5 | 6.92 | 7.6 | 4660 | 5010 | 3464 | 9.7 | J4 | 193 | 101 | 680 | 9.8 | 255 | 311 | 1.0 | U | 1551 | 332 |
| EP-90 | 01/24/00 | EPR1-0002-156 | GW | 0.5 | 7.17 | 7.8 | 5340 | 3948 | 236 | 204 | 106 | 756 | 11 | 283 | 345 | 1.0 | U | 2045 | 494 | | |
| Average | | | | 2.18 | 7.25 | 7.79 | 3620 | 3559 | 2632 | 202 | 141 | 72 | 569 | 9 | 254 | 310 | 1.0 | U | 1138 | 359 | |
| Median | | | | 1.70 | 7.29 | 7.8 | 3145 | 3810 | 2286 | 102 | 126 | 63 | 549 | 10 | 245 | 299 | 1.0 | U | 870 | 319 | |
| Standard Deviation | | | | 1.80 | 0.19 | 0.14 | 1057 | 1394 | 835 | 48 | 27 | 123 | 2 | 32 | 39 | 0.0 | U | 500 | 107 | | |
| Minimum | | | | 0.00 | 6.92 | 7.60 | 2380 | 512 | 1654 | 8 | 75 | 36 | 419 | 5 | 220 | 268 | 1.0 | U | 637 | 234 | |
| Maximum | | | | 5.13 | 7.43 | 8.10 | 5340 | 5010 | 3948 | 204 | 106 | 756 | 13 | 326 | 398 | 1.0 | U | 2045 | 332 | | |
| EP-93 | 10/13/99 | EPR1-9911-192 | GW | 4.6 | 7.33 | 7.7 | 5100 | 5180 | 3728 | 1251 | 143 | 86 | 1005 | 19 | 772 | 942 | 1.0 | U | 1252 | 602 | |
| EP-93 | 01/17/00 | EPR1-0002-157 | GW | 3.4 | 7.31 | 8.1 | 5210 | 4890 | 3560 | 1898 | 418 | 149 | 1090 | 24 | 1066 | 1301 | 1.0 | U | 1455 | 670 | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) (fl) | pH (fl) | Specific Conductivity SC (flab) | Specific Conductivity SC (fl) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | | | |
|--------------------|----------|---------------|---------|-------------|------------|---------------------------------------|-------------------------------------|------|------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|-----|-----|-----|-----|
| EP-94 | 10/13/99 | EPRL-9911-194 | GW | 5.9 | 7.18 | 7.6 | 5040 | 5110 | 3609 | 94 | 134 | 117 | 928 | 21 | 357 | 436 | 1.0 | U | 1290 | 655 | 1.3 | | |
| EP-94 | 01/27/00 | EPRL-0002-158 | GW | 2 | 7.31 | 8 | 4870 | 4880 | 3275 | 14 | 123 | 111 | 811 | 14 | 317 | 387 | 1.0 | U | 1448 | 668 | 1.3 | | |
| Average | | | | 3.95 | 7.25 | 7.80 | 4955 | 4845 | 3442 | 54 | 129 | 114 | 870 | 18 | 337 | 412 | 1.0 | | 1369 | 662 | 1 | | |
| Median | | | | 3.95 | 7.245 | 7.8 | 4955 | 4845 | 3442 | 54 | 129 | 114 | 870 | 18 | 337 | 412 | 1.0 | | 1369 | 662 | 1 | | |
| Standard Deviation | | | | 2.76 | 0.09 | 0.28 | 120 | 375 | 236 | 57 | 8 | 4 | 83 | 5 | 28 | 35 | 0.0 | | 112 | 9 | 0 | | |
| Minimum | | | | 2.00 | 7.18 | 7.60 | 4870 | 4880 | 3275 | 14 | 123 | 111 | 811 | 14 | 317 | 387 | 1.0 | | 1290 | 655 | 1 | | |
| Maximum | | | | 5.90 | 7.31 | 8.00 | 5040 | 5110 | 3609 | 94 | 134 | 117 | 928 | 21 | 357 | 436 | 1.0 | | 1448 | 668 | 1 | | |
| EP-95 | 10/26/99 | EPRL-9911-59 | GW | | | | | | | | | | | | | | | | | | | | |
| EP-95 | 01/27/00 | EPRL-0002-59 | GW | 6 | 7.66 | 8.3 | 3340 | 3110 | 2200 | 26 | 14 | 48 | 63 | 582 | 4.9 | 309 | 377 | J3.14 | 1.0 | UJ2 | 817 | 336 | 3.4 |
| Average | | | | 6.00 | 7.17 | 8.30 | 3360 | 3155 | 2194 | 14 | 46 | 64 | 604 | 5 | 305 | 372 | 1.0 | | 895 | 334 | 4 | | |
| Median | | | | 6.00 | 7.165 | 8.3 | 3360 | 3155 | 2194 | 14 | 46 | 64 | 604 | 5 | 305 | 372 | 1.0 | | 895 | 334 | 4 | | |
| Standard Deviation | | | #DIV/0! | 0.70 | 0.00 | 0.28 | 64 | 9 | 16 | 3 | 1 | 30 | 0 | 6 | 7 | 0.0 | | 110 | 3 | 0 | | | |
| Minimum | | | | 6.00 | 6.67 | 8.30 | 3340 | 3110 | 2187 | 3 | 44 | 63 | 582 | 5 | 301 | 367 | 1.0 | | 87 | 332 | 3 | | |
| Maximum | | | | 6.00 | 7.66 | 8.30 | 3380 | 3200 | 2200 | 26 | 48 | 65 | 625 | 5 | 309 | 377 | 1.0 | | 972 | 336 | 4 | | |
| EP-96 | 10/13/99 | EPRL-9911-193 | GW | 6.6 | 7.27 | 7.7 | 4960 | 5090 | 3692 | 349 | 257 | 118 | 874 | 24 | 460 | 561 | 1.0 | U | 1416 | 573 | 1.1 | | |
| EP-96 | 01/27/00 | EPRL-0002-160 | GW | 3.8 | 7.21 | 8 | 4930 | 4880 | 3450 | 341 | 222 | 116 | 934 | 16 | 530 | 647 | 1.0 | U | 1577 | 493 | 1 | | |
| Average | | | | 5.20 | 7.24 | 7.85 | 4945 | 4885 | 3571 | 345 | 240 | 117 | 904 | 20 | 495 | 604 | 1.0 | | 1497 | 533 | 1 | | |
| Median | | | | 5.20 | 7.24 | 7.85 | 4945 | 4885 | 3571 | 345 | 240 | 117 | 904 | 20 | 495 | 604 | 1.0 | | 1497 | 533 | 1 | | |
| Standard Deviation | | | | 1.98 | 0.04 | 0.21 | 21 | 290 | 171 | 6 | 25 | 1 | 42 | 6 | 50 | 61 | 0.0 | | 114 | 57 | 0 | | |
| Minimum | | | | 3.80 | 7.21 | 7.70 | 4930 | 4880 | 3450 | 341 | 222 | 116 | 874 | 16 | 460 | 561 | 1.0 | | 1416 | 493 | 1 | | |
| Maximum | | | | 6.60 | 7.27 | 8.00 | 4960 | 5090 | 3692 | 349 | 257 | 118 | 934 | 24 | 530 | 647 | 1.0 | | 1577 | 533 | 1 | | |
| EP-97 | 10/18/99 | EPRL-9911-196 | GW | 6.8 | 7.16 | 7.8 | 4940 | 5030 | 3689 | 42 | 198 | 123 | 847 | 15 | 491 | 599 | 1.0 | U | 1310 | 545 | 1.5 | | |
| EP-97 | 01/27/00 | EPRL-0002-161 | GW | 1 | 7.36 | 8.1 | 5020 | 4880 | 3584 | 169 | 187 | 128 | 851 | 8.8 | 514 | 627 | 1.0 | U | 1679 | 609 | 1.1 | | |
| Average | | | | 3.90 | 7.26 | 7.95 | 4980 | 4955 | 3637 | 106 | 193 | 126 | 849 | 12 | 502 | 613 | 1.0 | | 1495 | 577 | 1 | | |
| Median | | | | 3.90 | 7.26 | 7.95 | 4980 | 4955 | 3637 | 106 | 193 | 126 | 849 | 12 | 502 | 613 | 1.0 | | 1495 | 577 | 1 | | |
| Standard Deviation | | | | 4.10 | 0.14 | 0.21 | 57 | 106 | 74 | 90 | 8 | 4 | 3 | 4 | 16 | 20 | 0.0 | | 261 | 45 | 0 | | |
| Minimum | | | | 1.00 | 7.16 | 7.80 | 4940 | 4880 | 3584 | 42 | 187 | 123 | 847 | 9 | 491 | 599 | 1.0 | | 1310 | 545 | 1 | | |
| Maximum | | | | 6.30 | 7.36 | 8.10 | 5020 | 5030 | 3689 | 169 | 198 | 128 | 851 | 15 | 514 | 627 | 1.0 | | 1679 | 609 | 2 | | |
| EP-98 | 10/18/99 | EPRL-9911-197 | GW | 4.9 | 7.66 | 8.1 | 6370 | 6530 | 4659 | 235 | 162 | 92 | 1290 | 134 | 383 | 467 | 1.0 | U | 2293 | 571 | 2.7 | | |
| EP-98 | 01/27/00 | EPRL-0002-162 | GW | 2.6 | 7.72 | 8.1 | 7370 | 6960 | 5153 | 162 | 112 | 78 | 1715 | 116 | 385 | 470 | 1.0 | U | 2867 | 559 | 3.4 | | |
| Average | | | | 3.75 | 7.69 | 8.10 | 6870 | 6845 | 4906 | 199 | 137 | 85 | 1503 | 125 | 384 | 469 | 1.0 | | 2580 | 565 | 3 | | |
| Median | | | | 3.75 | 7.69 | 8.1 | 6870 | 6845 | 4906 | 199 | 137 | 85 | 1503 | 125 | 384 | 469 | 1.0 | | 2580 | 565 | 3 | | |
| Standard Deviation | | | | 1.63 | 0.04 | 0.00 | 707 | 21 | 349 | 52 | 35 | 10 | 301 | 13 | 2 | 2 | 0.0 | | 406 | 8 | 0 | | |
| Minimum | | | | 2.60 | 7.66 | 8.10 | 6370 | 6530 | 4659 | 162 | 112 | 78 | 1290 | 116 | 385 | 467 | 1.0 | | 2293 | 559 | 3 | | |
| Maximum | | | | 4.90 | 7.72 | 8.10 | 7370 | 6960 | 5153 | 235 | 162 | 92 | 1715 | 134 | 385 | 470 | 1.0 | | 2867 | 571 | 3 | | |
| EP-99 | 10/18/99 | EPRL-9911-195 | GW | 9.1 | 7.03 | 7.6 | 5600 | 5660 | 4758 | 473 | 387 | 156 | 713 | 75 | 370 | 451 | 1.0 | U | 2587 | 554 | 3 | | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (lab) | pH (flu) | Specific Conductivity SC (lab) | Specific Conductivity SC (fld) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) | | |
|--------------------|----------|---------------|------|------|-------------|-------------|--------------------------------------|--------------------------------------|------|------|---------------------|-----------------------|--------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|
| EP-100 | 10/20/99 | EPRL-9911-198 | GW | 3.7 | 6.63 | 8 | 8830 | 9410 | 6895 | 162 | 548 | 286 | 1116 | 42 | 282 | 344 | 1.0 | U | 2588 | 1601 | 1.3 |
| EP-100 | 01/26/00 | EPRL-0002-164 | GW | 1 | 6.75 | 7.5 | 9870 | 9230 | 7385 | 204 | 658 | 332 | 1334 | 41 | 284 | 346 | 1.0 | U | 2545 | 1746 | 1.2 |
| Average | | | | 2.35 | 6.69 | 7.75 | 9350 | 9320 | 7140 | 183 | 603 | 309 | 1225 | 42 | 283 | 345 | 1.0 | | 2567 | 1674 | 1 |
| Median | | | | 2.35 | 6.69 | 7.75 | 9350 | 9320 | 7140 | 183 | 603 | 309 | 1225 | 42 | 283 | 345 | 1.0 | | 2567 | 1674 | 1 |
| Standard Deviation | | | | 1.91 | 0.08 | 0.35 | 735 | 127 | 346 | 30 | 78 | 33 | 154 | 1 | 1 | | 0.0 | 30 | 103 | 0 | |
| Minimum | | | | 1.00 | 6.63 | 7.50 | 8830 | 9230 | 6895 | 162 | 548 | 286 | 1116 | 41 | 282 | 344 | 1.0 | | 2545 | 1601 | 1 |
| Maximum | | | | 3.70 | 6.75 | 8.00 | 9870 | 9410 | 7385 | 204 | 658 | 332 | 1334 | 42 | 284 | 346 | 1.0 | | 2588 | 1746 | 1 |
| EP-101 | 10/21/99 | EPRL-9911-199 | GW | 2.7 | 6.99 | 7.7 | 7220 | 7270 | 5334 | 4245 | 132 | 40 | 1387 | 66 | 396 | 483 | 1.0 | U | 2856 | 670 | 1.8 |
| EP-101 | 01/25/00 | EPRL-0002-165 | GW | 2.1 | 7.26 | 7.8 | 8680 | 8860 | 6462 | 21 | 162 | 54 | 1893 | 49 | 255 | 311 | 1.0 | U | 3062 | 1463 | 1.5 |
| Average | | | | 2.40 | 7.13 | 7.75 | 7950 | 8065 | 5898 | 2133 | 147 | 47 | 1640 | 58 | 325 | 397 | 1.0 | | 2959 | 1067 | 2 |
| Median | | | | 2.40 | 7.125 | 7.75 | 7950 | 8065 | 5898 | 2133 | 147 | 47 | 1640 | 58 | 325 | 397 | 1.0 | | 2959 | 1067 | 2 |
| Standard Deviation | | | | 0.42 | 0.19 | 0.07 | 1032 | 1124 | 798 | 2987 | 21 | 10 | 358 | 12 | 100 | 122 | 0.0 | | 146 | 561. | 0 |
| Minimum | | | | 2.10 | 6.99 | 7.70 | 7220 | 7270 | 5334 | 21 | 132 | 40 | 1387 | 49 | 255 | 311 | 1.0 | | 2856 | 670 | 2 |
| Maximum | | | | 2.70 | 7.26 | 7.80 | 8680 | 8860 | 6462 | 4245 | 162 | 54 | 1893 | 66 | 396 | 483 | 1.0 | | 3062 | 1463 | 2 |
| EP-102 | 10/21/99 | EPRL-9911-200 | GW | 3.2 | 7.05 | 7.8 | 2760 | 2860 | 1936 | 21 | 128 | 28 | 360 | 107 | 309 | 366 | 1.0 | U | 949 | 197 | 1.6 |
| EP-102 | 01/25/00 | EPRL-0002-166 | GW | 0.6 | 7.24 | 7.9 | 2870 | 2810 | 1954 | 7.4 | 125 | 22 | 359 | 130 | 276 | 337 | 1.0 | U | 888 | 216 | 1.9 |
| Average | | | | 1.90 | 7.15 | 7.85 | 2815 | 2835 | 1945 | 14 | 127 | 25 | 360 | 119 | 288 | 352 | 1.0 | | 919 | 207 | 2 |
| Median | | | | 1.90 | 7.145 | 7.85 | 2815 | 2835 | 1945 | 14 | 127 | 25 | 360 | 119 | 288 | 352 | 1.0 | | 919 | 207 | 2 |
| Standard Deviation | | | | 1.84 | 0.13 | 0.07 | 78 | 35 | 13 | 10 | 2 | 4 | 1 | 16 | 17 | 21 | 0.0 | | 43 | 13 | 0 |
| Minimum | | | | 0.60 | 7.05 | 7.80 | 2760 | 2810 | 1936 | 7 | 125 | 22 | 359 | 107 | 276 | 337 | 1.0 | | 888 | 197 | 2 |
| Maximum | | | | 3.20 | 7.24 | 7.90 | 2870 | 2860 | 1954 | 21 | 128 | 28 | 360 | 130 | 300 | 366 | 1.0 | | 949 | 216 | 2 |
| EP-103 | 10/21/99 | EPRL-9911-201 | GW | 4.6 | 7.21 | 8 | 1590 | 1618 | 1057 | 46 | 81 | 24 | 211 | 82 | 183 | 223 | 1.0 | U | 397 | 181 | 0.6 |
| EP-103 | 01/24/00 | EPRL-0002-167 | GW | 3.9 | 7.34 | 8.3 | 1498 | 1465 | 928 | 7 | 56 | 17 | 213 | 5 | 149 | 182 | 1.0 | U | 312 | 154 | 0.65 |
| Average | | | | 4.25 | 7.28 | 8.15 | 1544 | 1542 | 993 | 27 | 69 | 21 | 212 | 7 | 166 | 203 | 1.0 | | 355 | 168 | 1 |
| Median | | | | 4.25 | 7.275 | 8.15 | 1544 | 1542 | 993 | 27 | 69 | 21 | 212 | 7 | 166 | 203 | 1.0 | | 355 | 168 | 1 |
| Standard Deviation | | | | 0.49 | 0.09 | 0.21 | 65 | 108 | 91 | 28 | 18 | 5 | 1 | 2 | 24 | 29 | 0.0 | | 60 | 19 | 0 |
| Minimum | | | | 3.90 | 7.21 | 8.00 | 1498 | 1465 | 918 | 7 | 56 | 17 | 211 | 5 | 149 | 182 | 1.0 | | 312 | 154 | 1 |
| Maximum | | | | 4.60 | 7.34 | 8.30 | 1590 | 1618 | 1057 | 46 | 81 | 24 | 213 | 8 | 183 | 223 | 1.0 | | 397 | 181 | 1 |
| EP-104 | 10/21/99 | EPRL-9911-202 | GW | 2.1 | 7.11 | 7.8 | 4600 | 4650 | 2449 | 154 | 139 | 76 | 782 | 28 | 334 | 407 | 1.0 | U | 1671 | 503 | 2.1 |
| EP-104 | 01/24/00 | EPRL-0002-168 | GW | 1.5 | 7.28 | 8.1 | 4640 | 4510 | 3203 | 20 | 124 | 72 | 768 | 21 | 334 | 408 | 1.0 | U | 1463 | 498 | 2.1 |
| Average | | | | 1.80 | 7.20 | 7.95 | 4620 | 4580 | 2826 | 87 | 132 | 74 | 775 | 25 | 334 | 408 | 1.0 | | 1567 | 503 | 2 |
| Median | | | | 1.80 | 7.195 | 7.95 | 4620 | 4580 | 2826 | 87 | 132 | 74 | 775 | 25 | 334 | 408 | 1.0 | | 1567 | 503 | 2 |
| Standard Deviation | | | | 0.42 | 0.12 | 0.21 | 28 | 99 | 533 | 95 | 11 | 3 | 10 | 5 | 1 | 1 | 0.0 | | 147 | 4 | 0 |
| Minimum | | | | 1.50 | 7.11 | 7.80 | 4600 | 4510 | 2449 | 20 | 124 | 72 | 768 | 21 | 334 | 407 | 1.0 | | 1463 | 498 | 2 |
| Maximum | | | | 2.10 | 7.28 | 8.10 | 4640 | 4650 | 3203 | 154 | 139 | 76 | 782 | 28 | 334 | 408 | 1.0 | | 1671 | 503 | 2 |
| EP-105 | 10/21/99 | EPRL-9911-204 | GW | 4 | 7.15 | 8 | 4460 | 4600 | 3410 | 216 | 196 | 80 | 692 | 28 | 344 | 1.0 | U | 1896 | 479 | 2.2 | |
| EP-105 | 01/25/00 | EPRL-0002-169 | GW | 3.1 | 7.43 | 8 | 3780 | 3590 | 2704 | 246 | 147 | 53 | 610 | 18 | 220 | 268 | 1.0 | U | 1293 | 398 | 3.1 |
| Average | | | | 3.55 | 7.29 | 8.00 | 4120 | 4095 | 3057 | 231 | 172 | 67 | 651 | 23 | 251 | 306 | 1.0 | | 1595 | 439 | 3 |
| Median | | | | 3.55 | 7.29 | 8 | 4120 | 4095 | 3057 | 231 | 172 | 67 | 651 | 23 | 251 | 306 | 1.0 | | 1595 | 439 | 3 |
| Standard Deviation | | | | 0.64 | 0.20 | 0.00 | 481 | 714 | 499 | 21 | 35 | 19 | 58 | 7 | 44 | 54 | 0.0 | | 426 | 57 | 1 |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (fl) | Specific Conductivity SC (flb) | Specific Conductivity SC (flb) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (CL) | Fluoride (F) |
|--------------------|----------|---------------|------|---------|------------|--------------------------------------|--------------------------------------|------|------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|
| Minimum | | | | 3.10 | 7.15 | 8.00 | 3780 | 3590 | 2704 | 216 | 147 | 53 | 610 | 18 | 220 | 268 | 1.0 | 1293 | 398 |
| Maximum | | | | 4.00 | 7.43 | 8.00 | 4460 | 4600 | 3410 | 246 | 196 | 80 | 692 | 28 | 282 | 344 | 1.0 | 1896 | 479 |
| EP-106 | 10/21/99 | EPRI-9911-205 | GW | 5.6 | 7.14 | 7.7 | 4180 | 4300 | 3328 | 130 | 232 | 99 | 595 | 19 | 253 | 309 | 1.0 | U | 1893 |
| EP-106 | 01/25/00 | EPRI-0002-170 | GW | 1.4 | 7.08 | 7.7 | 4950 | 4860 | 3637 | 17 | 234 | 109 | 777 | 14 | 244 | 298 | 1.0 | U | 1960 |
| Average | | | | | | | | | | | | | | | | | | | |
| Median | | | | 3.50 | 7.11 | 7.70 | 4565 | 4580 | 3583 | 74 | 233 | 104 | 686 | 17 | 249 | 304 | 1.0 | 1927 | 389 |
| Standard Deviation | | | | 3.50 | 7.11 | 7.7 | 4565 | 4580 | 3583 | 74 | 233 | 104 | 686 | 17 | 249 | 304 | 1.0 | 1927 | 389 |
| Minimum | | | | 2.97 | 0.04 | 0.00 | 544 | 396 | 360 | 80 | 1 | 7 | 129 | 4 | 6 | 8 | 0.0 | 47 | 48 |
| Maximum | | | | 1.40 | 7.08 | 7.70 | 4180 | 4300 | 3328 | 17 | 232 | 99 | 595 | 14 | 244 | 298 | 1.0 | 1893 | 355 |
| EP-107 | 10/21/99 | EPRI-9911-203 | GW | 5.2 | 6.99 | 7.8 | 6450 | 6500 | 4821 | 22 | 436 | 211 | 733 | 26 | 160 | 195 | 1.0 | U | 1912 |
| EP-107 | 01/24/00 | EPRI-0002-171 | GW | 2.1 | 7.17 | 7.7 | 6450 | 6270 | 4749 | 2.4 | 335 | 169 | 757 | 16 | 150 | 183 | 1.0 | U | 1925 |
| Average | | | | | | | | | | | | | | | | | | | |
| Median | | | | 3.65 | 7.08 | 7.75 | 6450 | 6385 | 4785 | 12 | 386 | 190 | 745 | 21 | 155 | 189 | 1.0 | 1919 | 1066 |
| Standard Deviation | | | | 2.19 | 0.13 | 0.07 | 0 | 163 | 51 | 14 | 71 | 30 | 17 | 7 | 8 | 0.0 | 9 | 28 | 0 |
| Minimum | | | | 2.10 | 6.99 | 7.70 | 6450 | 6270 | 4749 | 2 | 335 | 169 | 733 | 16 | 150 | 183 | 1.0 | 1912 | 1046 |
| Maximum | | | | 5.20 | 7.17 | 7.80 | 6450 | 6300 | 4821 | 22 | 436 | 211 | 757 | 26 | 160 | 195 | 1.0 | 1925 | 1085 |
| EP-108 | 10/26/99 | EPRI-9911-172 | GW | 6.64 | 8.3 | 2810 | 2850 | 1835 | 29 | J4 | 59 | 40 | 507 | 15 | 294 | 359 | J3.14 | 1.0 | 113 |
| EP-108 | 01/28/00 | EPRI-0002-172 | GW | 1.5 | 7.52 | 8.2 | 3500 | 3360 | 2309 | 7.7 | 51 | 50 | 739 | 5.5 | 337 | 411 | 1.0 | U | 1022 |
| Average | | | | | | | | | | | | | | | | | | | |
| Median | | | | 1.50 | 7.08 | 8.25 | 3155 | 3105 | 2072 | 18 | 55 | 45 | 623 | 10 | 316 | 385 | 1.0 | 854 | 303 |
| Standard Deviation | | | | 1.50 | 7.08 | 8.25 | 3155 | 3105 | 2072 | 18 | 55 | 45 | 623 | 10 | 316 | 385 | 1.0 | 854 | 303 |
| Minimum | | | | #DIV/0! | 0.62 | 0.07 | 488 | 361 | 335 | 15 | 6 | 7 | 164 | 7 | 30 | 37 | 0.0 | 238 | 83 |
| Maximum | | | | 1.50 | 6.64 | 8.20 | 2810 | 2850 | 1835 | 8 | 51 | 40 | 507 | 6 | 294 | 359 | 1.0 | 686 | 244 |
| EP-109 | 10/26/99 | EPRI-9911-173 | GW | 6.53 | 8.3 | 3470 | 3330 | 2269 | 64 | J4 | 115 | 68 | 563 | 32 | 317 | 411 | 1.0 | 1022 | 361 |
| EP-109 | 01/28/00 | EPRI-0002-173 | GW | 3.1 | 7.4 | 7.9 | 4000 | 3850 | 2714 | 30 | 101 | 74 | 726 | 15 | 317 | 387 | 1.0 | U | 1297 |
| Average | | | | | | | | | | | | | | | | | | | |
| Median | | | | 3.10 | 6.97 | 8.10 | 3735 | 3590 | 2492 | 47 | 108 | 71 | 645 | 24 | 307 | 374 | 1.0 | 1152 | 385 |
| Standard Deviation | | | | #DIV/0! | 0.62 | 0.28 | 3735 | 3590 | 2492 | 47 | 108 | 71 | 645 | 24 | 307 | 374 | 1.0 | 1152 | 385 |
| Minimum | | | | 3.10 | 6.53 | 7.90 | 3470 | 3330 | 2269 | 30 | 101 | 68 | 563 | 15 | 12 | 15 | 18 | 0.0 | 206 |
| Maximum | | | | 3.10 | 7.40 | 8.30 | 4000 | 3850 | 2714 | 64 | 115 | 74 | 726 | 32 | 317 | 387 | 1.0 | 1006 | 337 |
| EP-110 | 10/29/99 | EPRI-9911-174 | GW | 4 | 6.99 | 8.4 | 2780 | 2810 | 1790 | J4 | 149 | J4 | 148 | 62 | 367 | 19 | 230 | 281 | 1.0 |
| EP-110 | 01/24/00 | EPRI-0002-174 | GW | 3.4 | 7.23 | 7.8 | 2750 | 2700 | 1921 | 18 | 137 | 58 | 400 | 18 | 220 | 268 | 1.0 | U | 782 |
| Average | | | | | | | | | | | | | | | | | | | |
| Median | | | | 3.70 | 7.11 | 8.10 | 2765 | 2605 | 1856 | 84 | 148 | 62 | 367 | 19 | 225 | 275 | 1.0 | 794 | 307 |
| Standard Deviation | | | | 3.70 | 7.11 | 8.1 | 2765 | 2605 | 1856 | 84 | 148 | 62 | 367 | 19 | 225 | 275 | 1.0 | 794 | 307 |
| Minimum | | | | 0.42 | 0.17 | 0.42 | 21 | 134 | 93 | 15 | 5 | 47 | 1 | 8 | 9 | 0.0 | 16 | 29 | 0 |
| Maximum | | | | 3.40 | 6.99 | 7.80 | 2750 | 2510 | 1790 | 18 | 137 | 58 | 334 | 18 | 220 | 268 | 1.0 | 782 | 286 |
| EP-110 | | | | 4.00 | 7.23 | 8.40 | 2780 | 2700 | 1921 | 149 | 158 | 65 | 400 | 19 | 230 | 281 | 1.0 | 805 | 327 |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) | pH (fl) | pH (lab) | Specific Conductivity SC (flab) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | | | |
|--------------------|----------|---------------|------|-----|------------|-------------|---------------------------------------|-------|---------|---------------------|-----------------------|--------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|------|------|------|-----|
| EP-111 | 10/28/99 | EPRI-9911-175 | GW | 3.5 | 7.11 | 7.7 | 545.0 | 5410 | 3963 | 303 | 285 | 79 | 836 | 66 | 357 | 436 | 1.0 | U | 1800 | 562 | 2.4 | |
| EP-111 | 01/29/00 | EPRI-0002-175 | GW | 0.1 | 7.21 | 7.8 | 539.0 | 5110 | 3820 | 29 | 237 | 69 | 908 | 62 | 306 | 373 | 1.0 | U | 1932 | 509 | 2.4 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-112 | 10/28/99 | EPRI-9911-176 | GW | 8.5 | 7.32 | 7.8 | 5250 | 5090 | 3209 | 296 | 137 | 71 | 639 | 69 | 422 | 515 | 1.0 | U | 1570 | 562 | 1.5 | |
| EP-112 | 01/29/00 | EPRI-0002-176 | GW | 0.1 | 7.11 | 8 | 7520 | 7130 | 5026 | 1.6 | 242 | 133 | 1067 | 101 | 550 | 671 | 1.0 | U | 2846 | 551 | 1.4 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-113 | 10/28/99 | EPRI-9911-177 | GW | 7.5 | 7.41 | 8 | 4060 | 4080 | 2624 | 203 | 158 | 69 | 613 | 42 | 337 | 411 | 1.0 | U | 1358 | 408 | 2.8 | |
| EP-113 | 01/29/00 | EPRI-0002-177 | GW | 0.1 | 7.3 | 7.6 | 4180 | 4050 | 2930 | 21 | 151 | 65 | 701 | 42 | 307 | 375 | 1.0 | U | 1399 | 364 | 1.9 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-114 | 11/18/99 | EPRI-9911-178 | GW | 4.4 | 6.19 | 6.7 | 9800 | 10820 | 8176 | 750 | 547 | 243 | 1400 | 231 | 794 | 969 | 1.0 | U | 4272 | 937 | 1.3 | |
| EP-114 | 01/31/00 | EPRI-0002-178 | GW | 0.3 | 6.35 | 6.6 | 8480 | 9070 | 7317 | 8392 | 960 | 355 | 1244 | 269 | 1400 | 1708 | 1.0 | U | 3440 | 930 | 1.2 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-115 | 11/22/99 | EPRI-9911-179 | GW | 3.3 | 7.08 | 7.7 | 17800 | 1842 | R 13965 | 8.2 | 711 | 449 | 3200 | 126 | 493 | 601 | 1.0 | U | 4440 | 3600 | 4.6 | |
| EP-115 | 01/31/00 | EPRI-0002-179 | GW | 1.8 | 6.81 | 7.7 | 11440 | 10470 | 9032 | 100 | 34 | 560 | 276 | 1824 | 102 | 625 | 763 | 1.0 | U | 4112 | 1502 | 3.3 |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |
| Minimum | | | | | | | | | | | | | | | | | | | | | | |
| Maximum | | | | | | | | | | | | | | | | | | | | | | |
| EP-116 | 11/18/99 | EPRI-9911-180 | GW | 2.4 | 6.36 | 7.3 | 6280 | 6460 | 4552 | 1529 | 406 | 92 | 800 | 65 | 466 | 569 | 1.0 | U | 2515 | 534 | 5.4 | |
| EP-116 | 01/31/00 | EPRI-0002-180 | GW | 2.1 | 6.92 | 7.6 | 6480 | 6020 | 4700 | 1993 | 531 | 118 | 1052 | 80 | 820 | 1000 | 1.0 | U | 2202 | 489 | 5.6 | |
| Average | | | | | | | | | | | | | | | | | | | | | | |
| Median | | | | | | | | | | | | | | | | | | | | | | |
| Standard Deviation | | | | | | | | | | | | | | | | | | | | | | |

Table H-8. Summary of Groundwater Analytical Results, August 1997 through February 2000
Wells Common Ions

| Site | Date | Samp # | Type | (O) (fl.d) | pH (lab) (fl.d) | Specific Conductivity SC (lab) | Specific Conductivity SC (flu) | TDS | TSS | Calcium (CA) DIS | Magnesium (MG) DIS | Sodium (NA) DIS | Potassium (K) DIS | Total Alkalinity as CaCO ₃ | Bicarbonate (HCO ₃) | Carbonate (CO ₃) | Sulfate (SO ₄) | Chloride (Cl) | Fluoride (F) | | |
|--------------------|----------|---------------|------|---------------|-----------------------|--------------------------------------|--------------------------------------|------|------|---------------------|-----------------------|--------------------|----------------------|---|------------------------------------|---------------------------------|-------------------------------|------------------|-----------------|-----|----|
| Minimum | | | | 2.10 | 6.56 | 7.30 | 6280 | 6020 | 4652 | 1529 | 406 | 92 | 800 | 65 | 466 | 569 | 1.0 | 2202 | 489 | 5 | |
| Maximum | | | | 2.40 | 6.92 | 7.60 | 6480 | 6460 | 4700 | 1993 | 531 | 118 | 1052 | 80 | 820 | 1000 | 1.0 | 2515 | 534 | 6 | |
| EP-117 | 11/18/99 | EPRI-9911-181 | GW | 1.4 | 7.23 | 7.8 | 2580 | 2810 | 1916 | 236 | 165 | 28 | 400 | 60 | 188 | 229 | 1.0 | U | 930 | 187 | 6 |
| EP-117 | 01/31/00 | EPRI-0002-181 | GW | 1.3 | 7.35 | 7.5 | 2640 | 2590 | 1914 | 11156 | 780 | 122 | 371 | 120 | 1560 | 1903 | 1.0 | U | 843 | 245 | 6 |
| Average | | | | 1.35 | 7.29 | 7.65 | 2610 | 2700 | 1915 | 5696 | 473 | 75 | 386 | 90 | 874 | 1066 | 1.0 | | 887 | 216 | 6 |
| Median | | | | 1.35 | 7.29 | 7.65 | 2610 | 2700 | 1915 | 5696 | 473 | 75 | 386 | 90 | 874 | 1066 | 1.0 | | 887 | 216 | 6 |
| Standard Deviation | | | | 0.07 | 0.08 | 0.21 | 42 | 156 | 1 | 7722 | 435 | 66 | 21 | 42 | 970 | 1184 | 0.0 | | 62 | 41 | 0 |
| Minimum | | | | 1.30 | 7.23 | 7.50 | 2580 | 2590 | 1914 | 236 | 165 | 28 | 371 | 60 | 188 | 229 | 1.0 | | 843 | 187 | 6 |
| Maximum | | | | 1.40 | 7.35 | 7.80 | 2640 | 2810 | 1916 | 11156 | 780 | 122 | 400 | 120 | 1560 | 1903 | 1.0 | | 930 | 245 | 6 |
| EP-118 | 11/18/99 | EPRI-9911-182 | GW | 3.6 | 7.46 | 8 | 3460 | 3780 | 2405 | 5852 | 179 | 93 | 600 | 49 | 476 | 581 | 1.0 | U | 1080 | 341 | 18 |
| EP-118 | 01/31/00 | EPRI-0002-182 | GW | 1.6 | 7.74 | 8 | 3080 | 2950 | 2146 | 14581 | 536 | 325 | 659 | 122 | 1060 | 1293 | 1.0 | U | 899 | 376 | 19 |
| Average | | | | 2.60 | 7.60 | 8.00 | 3270 | 3365 | 2276 | 10217 | 368 | 209 | 630 | 86 | 768 | 937 | 1.0 | | 990 | 359 | 2 |
| Median | | | | 2.60 | 7.6 | 8 | 3270 | 3365 | 2276 | 10217 | 368 | 209 | 630 | 86 | 768 | 937 | 1.0 | | 990 | 359 | 2 |
| Standard Deviation | | | | 1.41 | 0.20 | 0.00 | 269 | 387 | 183 | 6172 | 267 | 164 | 42 | 52 | 413 | 503 | 0.0 | | 128 | 25 | 0 |
| Minimum | | | | 1.60 | 7.46 | 8.00 | 3080 | 2950 | 2146 | 5852 | 179 | 93 | 600 | 49 | 476 | 581 | 1.0 | | 899 | 341 | 2 |
| Maximum | | | | 3.60 | 7.74 | 8.00 | 3460 | 3780 | 2405 | 14581 | 536 | 325 | 659 | 122 | 1060 | 1293 | 1.0 | | 1080 | 376 | 2 |