



engineering and constructing a better tomorrow

November 4, 2009

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**Subject: Feasibility Study/Remedial Action Plan
Schlage Operable Unit and San Francisco County Portion of
Universal Paragon Corporation Operable Unit
San Francisco, California
MACTEC Project No. 4096088522 01.02.04.01**

Dear Ms. Lasky:

Enclosed please find two (2) copies of the *Feasibility Study/Remedial Action Plan, Schlage OU and San Francisco County Portion of UPC OU, San Francisco, California*, dated November 4, 2009.

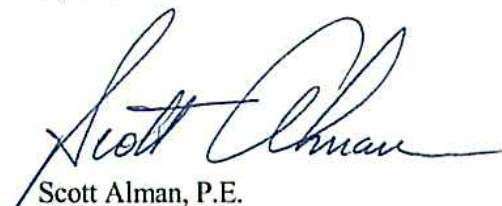
An electronic copy of the document has also been uploaded to our FTP site in PDF format in portions of 10 MB or less for your convenience in downloading, and the document will also be emailed to you in PDF format.

Please feel free to contact Mr. Alman at (510) 628-3246 with any questions.

Yours very truly,

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Feasibility Study/Remedial Action Plan
Schlage Operable Unit and
San Francisco County Portion of
Universal Paragon Corporation Operable Unit
San Francisco, California

MACTEC Project No. 4096088522 01.02.04.01

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ACRONYMS

| | |
|--------|---|
| AMSL | above mean sea level |
| ARARs | Applicable or Relevant and Appropriate Requirements |
| BAAQMD | Bay Area Air Quality Management District |
| bgs | below ground surface |
| BP | BP PLT-I, LLC |
| BTEX | benzene, toluene, ethyl benzene, and xylenes |
| CCR | California Code of Regulations |
| CEQA | California Environmental Quality Act |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act |
| CFR | Code of Federal Regulations |
| CHHSLs | California Human Health Screening Levels |
| CM/Sec | centimeters per second |
| COCs | chemicals of concern |
| CUL | cleanup level |
| CVOCs | chlorinated volatile organic compounds |
| DCE | cis-1,2-dichloroethene |
| Dhc | dehalococoides |
| DNAPL | dense non-aqueous phase liquids |
| DO | dissolved oxygen |
| DTSC | California Department of Toxic Substances Control |
| DWR | Department of Water Resources |
| EIR | Environmental Impact Report |
| EPA | U.S. Environmental Protection Agency |
| EPC | Exposure point concentration |
| ERD | enhanced reductive dechlorination |
| FS | Feasibility Study |
| ft | feet |
| GAC | granular activated carbon |
| gpm | gallons per minute |
| GRAs | general response actions |
| GWETS | groundwater extraction and treatment system |
| HHRA | Human Health Risk Assessment |
| HSC | California Health and Safety Code |
| IAL | Integrated Analytical Laboratories, LLC |
| ISCO | in situ chemical oxidation |
| ISOTEC | ISOTEC, Inc. |
| LBNL | Lawrence Berkeley National Laboratory |
| LTM | long term monitoring plan |
| LUC | land use control |
| MACTEC | MACTEC Engineering and Consulting, Inc. |
| MCL | Maximum Contaminant Level |
| MFR | Modified Fenton's Reagent |
| µg/L | micrograms per liter |
| mg/kg | milligrams per kilogram |
| mg/L | milligrams per liter |
| MNA | Monitored Natural Attenuation |
| MTBE | methyl tertiary butyl ether |

| | |
|------------|--|
| NBAR | non-binding allocation of responsibility |
| NCP | National Oil and Hazardous Substances Pollution Contingency Plan |
| NELAP | National Environmental Laboratory Accreditation Program |
| NPL | National Priorities List |
| O&M | operations and maintenance |
| ORP | oxidation reduction potential |
| OSHA | Occupational Safety and Health Administration |
| OSWER | Office of Solid Waste and Emergency Response |
| OU | Operable Unit |
| PAHs | polynuclear aromatic hydrocarbons |
| PCE | tetrachloroethene |
| P.E. | Professional Engineer |
| P.G. | Professional Geologist |
| PRGs | Preliminary Remediation Goals, EPA Region IX (now RSLs) |
| PRPs | potentially responsible parties |
| PSG | passive soil gas |
| QA | Quality Assessment |
| QAPP | Quality Assurance Project Plan |
| QC | Quality Control |
| RAOs | Remedial Action Objectives |
| RAP | Remedial Action Plan |
| RAW | Remedial Work Plan |
| RCRA | Resource Conservation and Recovery Act |
| RDIP | Remedial Design and Implementation Plan |
| RI | Remedial Investigation |
| ROI | radius of influence |
| RSLs | Regional Screening Levels, US EPA Region IX (formerly PRGs) |
| Schlage OU | Schlage Operable Unit |
| SFDPH | San Francisco Department of Public Health |
| Site | Schlage OU and San Francisco County portion of UPC OU |
| SP OU-1 | former Southern Pacific Brisbane Rail Yard – Operable Unit 1 |
| SP | former Southern Pacific |
| SPTC | Southern Pacific Transportation Company |
| SVE | soil vapor extraction |
| SVETS | soil vapor extraction and treatment system |
| TBC | To-be-Considered Requirements |
| TCE | trichloroethene |
| TDS | total dissolved solids |
| TO | Toxic Organics |
| TOC | total organic carbon |
| TPH | total petroleum hydrocarbons |
| TPH-g | total petroleum hydrocarbons as gasoline |
| TRCG | Target Redevelopment Cleanup Goal |
| UCL | Upper confidence limit |
| UPC OU | Universal Paragon Corporation Operable Unit |
| UPC | Universal Paragon Corporation, Inc. |
| USCS/ASTM | Unified Soil Classification System/American Society of Testing Materials |
| UST | underground storage tanks |
| VC | vinyl chloride |
| VCR | vinyl chloride reductase |

VOCs volatile organic compounds
XRF x-ray fluorescence

EXECUTIVE SUMMARY

This Feasibility Study/Remedial Action Plan (FS/RAP) describes the preferred remedial actions for soil and groundwater at the Schlage Operable Unit (Schlage OU), and for soil in the San Francisco County portion of the Universal Paragon Corporation, Inc. (UPC) Operable Unit (UPC OU), located in San Francisco, California (the Site) (Figures 1-1 and 1-2).

The remedial actions described in this FS/RAP were selected to meet the remedial action objectives for contaminated soil and groundwater at the Site, and to prepare the Site for redevelopment. UPC plans to redevelop the Site with a combination of public open space and residential podium housing above commercial or parking structures.

A California Department of Toxic Substances Control (DTSC) Consent Order signed in 2008 establishes legal and administrative responsibilities and procedures for cleanup of chemical releases at the Site. Operable units for the Site were defined in the Consent Order (*DTSC, 2008*) as follows. The Schlage OU is defined as the former Schlage Lock site in addition to soil and groundwater impacted with volatile organic compounds (VOCs) located within the northern portion of the former Southern Pacific Brisbane Rail Yard – Operable Unit 1 (former SP OU-1). The UPC OU is defined as soil and groundwater on the former SP OU-1 that is impacted with chemicals other than VOCs. The former SP OU-1 is wholly incorporated into the Schlage and UPC OUs and no longer exists as a separate OU. For the purposes of this FS/RAP the “Site” consists of the groundwater portion of the Schlage OU, and the soil portions of both the Schlage and UPC OUs that are located within the City and County of San Francisco.

Site Background

The Site consists of approximately 20 acres in San Francisco, located north of Sunnysdale Avenue, between Bayshore Boulevard on the west, and the Union Pacific/Joint Powers Board railroad tracks on the east, and Blanken Avenue to the north. The former Schlage Lock facility consists of approximately 12.66 acres. The San Francisco portion of the UPC OU consists of parcels totaling approximately 7 acres that were formerly part of the SP Rail Yard operations. Soil and groundwater at the former Schlage Lock facility are primarily impacted with chlorinated VOCs (CVOCs). Impacts from historical operations at SP OU-1 are primarily metals in soil.

The Schlage Lock Company manufactured door hardware and lock parts at the San Francisco facility from 1926 to 1999, with facility expansions during that period resulting in five major plant buildings being constructed. The manufacturing processes conducted at the plant included stamping and machining metal alloys; deburring brass, bronze, nickel, silver and steel parts; electroplating; and cleaning brass and bronze parts with Safety Kleen 150, a petroleum naphtha solvent. In 1980, Pacific Lithograph Company acquired a portion of the facility, and used solvent products in lithographic processing until 1993. In 1999, all equipment was removed, except for several underground storage tanks (USTs) that were closed in place and are scheduled to be removed prior to site development. Buildings are being demolished to facilitate redevelopment of the Site. Removal of hazardous and regulated materials (e.g., lead based paint and asbestos) from inside the buildings was completed in March 2009; demolition began in April 2009 and is expected to be completed in August 2009.

Site Investigations and Remedial Activities

Numerous investigations to assess the nature and extent of contaminants have been conducted on the Site, with regulatory oversight, beginning in 1982. The results of the investigations indicate that soil and

groundwater are primarily impacted by CVOCs at the Schlage OU, and near-surface soils at the UPC OU are impacted by metals.

Previous removal activities at the Site have included the removal or closure in place of six diesel USTs; removal of sumps and contaminated floor slabs and approximately 80 cubic yards of CVOC-contaminated soil from the Schlage Lock facility; and soil removal in the area of the former oil/water separator adjacent to the southwest Site boundary along the joint sewer line.

Previous remedial activities include the operation of a groundwater extraction and treatment system (GWETS), and a soil vapor extraction and treatment system (SVETS) to remove CVOCs in soil and groundwater at the Schlage OU.

Chemicals of Concern

The chemicals of concern (COCs) at the Site for which cleanup levels were developed are: CVOCs in soils and groundwater at the Schlage OU; the metals arsenic, lead, cadmium at the Schlage and UPC OUs. The specific CVOCs for which cleanup levels were developed include tetrachloroethene (PCE), trichloroethene (TCE), 1,1-DCE, cis-1,2-dichloroethene (DCE), trans-1,2-DCE, and vinyl chloride (VC).

Risk Analysis

For the purposes of the risk analysis, future Site receptors were assumed to be exposed to Site contaminants under two redevelopment scenarios, which are consistent with the plans approved by the San Francisco Planning Department: Public Open Space (Zone 1) and Commercial (Zones 2 and 3). Although Zones 2 and 3 also contain multi-family residential development, the podium style of building construction and commercial use of the ground floors precludes residential occupation of the ground level.

Cleanup Levels and Target Redevelopment Cleanup Goals

The development and application of cleanup levels (CULs) and target redevelopment cleanup goals (TRCGs) were based on redevelopment- and media-specific considerations.

Remedial Action Objectives

Remedial Action Objectives (RAOs), specific goals for protecting human health and the environment, are evaluated using Applicable or Relevant and Appropriate Requirements (ARARs) and To-Be-Considered Requirements (TBCs). The functional objectives for the Site are to (1) comply with ARARs, including remediation of groundwater to achieve Maximum Contaminant Level (MCLs); and (2) address unacceptable exposure for each exposure pathway of concern for each redevelopment zone through remediation to CULs. In addition, TRCGs will be used for planning purposes to assess when redevelopment activities can be initiated at portions of the Site.

Feasibility Study and Alternatives Analysis

To the extent practicable, redevelopment plans were integrated into the remedial planning for the Site. To the extent that redevelopment activities serve to eliminate pathways of exposure to future Site receptors (e.g., fill placement that minimizes direct exposure to impacted media), these activities were integrated into the remedial technology screening and development of remedial alternatives.

The results of the evaluation identified and selected the following in situ groundwater remedial technologies for further evaluation in pilot treatability studies at the Site: (1) Enhanced Reductive Dechlorination; and (2) In Situ Chemical Oxidation.

Evaluation and Comparative Analysis of Alternatives and Preferred Remedial Approach

Four remedial alternatives were subjected to: (1) a detailed alternative analysis pursuant to the nine criteria of the National Oil and Hazardous Substances Pollution Contingency Plan (NCP) and the six criteria of Section 2535b.1 of the California Health and Safety Code (HSC); and (2) comparative analysis identifying the advantages and disadvantages of each alternative when compared to other alternatives.

Based on the evaluation and comparison of the four alternatives, *Alternative 3: Excavation and Onsite Treatment, Relocation and Capping for Soils, and In Situ Groundwater Treatment and Monitoring*, is the preferred remedial action alternative identified for implementation at the Site.

This alternative includes excavation and onsite treatment of approximately 15,000 cubic yards of soil containing CVOC concentrations above CULs within the Schlage OU, and excavation and relocation or capping of approximately 22,000 cubic yards of metals-impacted soils containing concentrations above CULs. Groundwater will be treated in situ using Enhanced Reductive Dechlorination (ERD). Long term groundwater monitoring will also be performed. A Land Use Control consisting of a State Land Use Covenant and deed restriction will be recorded on the title to the property to limit human exposures for contaminants left in place in soil above levels considered protective of unrestricted use of the Site, and will include the following restrictions:

- No first floor residences or daycare facilities;
- No hospital or schools;
- No growing of food;
- Where concentrations of groundwater COCs are above their MCL, no use of underlying groundwater;
- No excavation in contaminated soil without a Soil Management Plan and DTSC approval.

The total estimated cost associated with implementation of this alternative is approximately \$5,438,000, which includes capital costs of \$4,452,000, and operations and maintenance (O&M) costs of \$986,000.

1.0 INTRODUCTION

MACTEC Engineering and Consulting, Inc. (MACTEC), on behalf of BP PLT-I, LLC (BP), is pleased to submit this Feasibility Study/Remedial Action Plan (FS/RAP), which describes the preferred remedial actions necessary to address soil and groundwater contamination at the Schlage Operable Unit (Schlage OU), and soil contamination in the San Francisco County portion of the Universal Paragon Corporation (UPC) Operable Unit (UPC OU), located in San Francisco, California (the Site) (Figures 1-1 and 1-2).

A California Department of Toxic Substances Control (DTSC) Consent Order signed in 2008 establishes legal and administrative responsibilities and procedures for cleanup of chemical releases at the Site. Operable units for the Site were defined in the Consent Order (*DTSC, 2008*) as follows. The Schlage OU is defined as the former Schlage Lock site in addition to soil and groundwater impacted with volatile organic compounds (VOCs) located within the northern portion of the former Southern Pacific Brisbane Rail Yard – Operable Unit 1 (former SP OU-1). The UPC OU is defined as soil and groundwater on the former SP OU-1 that is impacted with chemicals other than VOCs. The former SP OU-1 is wholly incorporated into the Schlage and UPC OUs and no longer exists as a separate OU. For the purposes of this FS/RAP the “Site” consists of the groundwater portion of the Schlage OU, and the soil portions of both the Schlage and UPC OUs that are located within the City and County of San Francisco. The former Schlage Lock site is located north of Sunnysdale Avenue and east of Bayshore Boulevard, at 2401-2555 Bayshore Boulevard in San Francisco. The former SP OU-1 portion of the Site is located north of Geneva Avenue and east of Bayshore Boulevard, in San Francisco and Brisbane.

The remedial actions described in this FS/RAP were selected to address contaminated soil and groundwater at the Site, and are based on the remedies developed to meet remedial action objectives (RAOs) for redevelopment and occupancy of the Site, including potential future beneficial uses of Site groundwater.

1.1 Purpose of this Feasibility Study/Remedial Action Plan

This section describes the purpose of this FS/RAP, which is to comply with the provisions of the California Health and Safety Code (HSC) Section 25356.1 by assessing Site information and identifying the preferred remedies for the Site. This FS/RAP provides the following components specified in the California Environmental Protection Agency, DTSC Guidance Document No. EO-95-007-PP, Remedial Action Plan Policy (*DTSC, 1995*):

- Site background, including a summary of Site history, Site use, previous investigations, and previous removal actions;
- Summary of Site risks, including an overview of the extent of site contamination and chemicals of concern (COCs), the risks to human health and/or the environment, and the determination of cleanup levels;
- Summary and evaluation of remedial technologies considered, the development of remedial action alternatives, a summary of the alternatives evaluated, a description of the preferred remedy, and the basis for the remedy selection; and
- Summary of public relations activities, including a solicitation for public review and comments on the preferred remedies.

1.2 FS/RAP Organization

This FS/RAP was prepared in accordance with DTSC Guidance Document No. EO-95-007-PP, *Remedial Action Plan (RAP) Policy* (DTSC, 1995) and the U.S. Environmental Protection Agency's (EPA's) *A Guide to Preparing Superfund Proposed Plans, Records of Decision, and Other Remedy Selection Decision Documents* (EPA, 1999). This report is organized as follows:

- **Section 1.0, Introduction:** Discusses the purpose of the document; presents the report organization; outlines the regulatory framework under which this work is being performed; discusses the non-binding allocation of responsibility (NBAR) process; and presents the project schedule.
- **Section 2.0, Site Background:** Summarizes and discusses the history of the Site; outlines UPC's redevelopment plans, summarizes the previous investigations and remedial activities, Regional and Site geology and hydrogeology; and the results of the Schlage OU Data Gap Investigation.
- **Section 3.0, Nature and Extent of Contamination:** Summarizes the nature and extent of contamination in soil and groundwater at the Schlage OU, and in soil at the UPC OU, and the site contaminants retained as COCs.
- **Section 4.0, Site-Specific Health Risks:** Summarizes the cleanup levels and goals detailed in Appendix D and Appendix E, based on the assessment of site-specific health risks.
- **Section 5.0, Remedial Action Objectives:** Presents potential Applicable or Relevant and Appropriate Requirements (ARARs) for implementation of remedial actions at the Site, and RAOs developed for cleanup of the Site.
- **Section 6.0, Feasibility Study and Alternatives Analysis:** Describes the screening of the general response actions and corresponding remedial technologies, a summary of the results of the in situ chemical oxidation (ISCO) and enhanced reductive dechlorination (ERD) treatability studies conducted at the Site; and an evaluation and comparison of potentially applicable remedial alternatives. A comparison of estimated costs is presented in Appendix F.
- **Section 7.0, Preferred Remedial Approach:** Summarizes the preferred remedial approach; discusses the excavation and in situ remedial activities; outlines the sampling methodology to confirm cleanup levels have been met following soil and groundwater remedial actions; and outlines post-remediation operation and maintenance plans and Land Use Controls that will be implemented.
- **Section 8.0, Schedule:** Presents the schedule for approval of the FS/RAP, completion of the Remedial Design and Implementation Plan (RDIP), and completion of the remedial actions at the Site.
- **Section 9.0, References:** Presents references to documents cited in this FS/RAP.
- **Appendix A, Summary of Historical Soil Analytical Data:** Presents tables with historical soil analytical data for the Schlage and UPC OUs.

- **Appendix B, Data Gap Investigations and Treatability Studies Documentation:** Presents the objectives of the data gap investigation and groundwater treatability studies conducted at the Site; and summarizes the data gap investigation activities ISCO bench scale activities, and ISCO and ERD treatability study field activities conducted at the Site. Includes an evaluation of the groundwater treatability study results and recommendations for full-scale implementation of ERD. Presents boring logs of wells installed in treatability study areas; field documentation compiled during the data gap investigation and treatability studies; and summary reports prepared by ISOTEC, Inc., the ISCO subcontractor, describing the ISCO bench scale and field treatability studies.
- **Appendix C, Laboratory Analytical Reports:** Presents a compilation of laboratory analytical and geotechnical testing reports for the data gap investigation and the treatability study activities.
- **Appendix D, Risk-Based Soil Gas Cleanup Levels, Schlage OU:** Presents the risk-based soil gas cleanup levels and maximum containment levels (MCLs) for groundwater for the Schlage OU.
- **Appendix E, Risk-Based Target Redevelopment Cleanup Goals, Schlage OU:** Presents the risk-based target redevelopment cleanup goals for soil and groundwater in the Schlage OU.
- **Appendix F, Estimated Cost Summary Tables for Remedial Alternatives:** Provides cost estimates for implementation of the remedial action alternatives evaluated for the Schlage and UPC OUs.
- **Appendix G, Administrative Record List:** Lists the contents of the Administrative Record for the Site.
- **Appendix H, CEQA Documentation:** Contains the DTSC California Environmental Quality Act (CEQA) document for the Site.
- **Appendix I, Responsiveness Summary:** Contains responses to public comments received on the FS/RAP.

1.3 Regulatory Framework

This FS/RAP has been prepared pursuant to California HSC Section 25356.1 in accordance with the DTSC Guidance Document No. EO-95-007-PP, *Remedial Action Plan Policy* (DTSC, 1995). The preferred remedial actions meet the requirements specified in the California HSC Chapters 6.5 and 6.8. The FS/RAP is also consistent with the applicable Federal requirements for the evaluation and selection of a final remedial action as outlined in the EPA's *National Oil and Hazardous Substances Pollution Contingency Plan (NCP)*, 40 Code of Federal Regulations (CFR), Part 300.400 (EPA, 1990). Although the Site is not listed on the EPA's Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) National Priorities List (NPL), it is being cleaned up under CERCLA authority which requires that remedial actions at Federal Superfund sites achieve a level of cleanup that is protective of human health and the environment (42.U.S.C. §§9601 *et. seq.*).

In the May 2008 Consent Order, BP assumed responsibility for environmental remediation of the Schlage OU, and UPC assumed responsibility for the UPC OU. The May 2008 Consent Order establishes legal

and administrative responsibilities and procedures for cleanup of chemical releases at the Site and will guide BP and UPC when conducting the remedial actions required by this FS/RAP.

1.4 Preliminary Non-Binding Allocation of Responsibility

The preliminary Non-Binding Allocation of Responsibility (NBAR) process under California HSC Section 25356.1(e) requires DTSC to prepare a preliminary NBAR among all identifiable potentially responsible parties (PRPs). California HSC Section 25356.3(a) allows PRPs with an aggregate allocation in excess of 50% to convene an arbitration proceeding by submitting to binding arbitration before an arbitration panel. If PRPs with over 50% of the allocation convene arbitration, then any other PRP wishing to do so may also submit to binding arbitration.

The sole purpose of the NBAR is to establish which PRPs will have an aggregate allocation in excess of 50% and can therefore convene arbitration if they so choose. The NBAR, which is based on the evidence available to the DTSC, is not binding to anyone, including PRPs, DTSC, or the arbitration panel. If a panel is convened, its proceedings are *de novo* and do not constitute a review of the provisional allocation. The arbitration panel's allocation will be based on the panel's application of the criteria spelled out in HSC Section 25356.3(c) to the evidence produced at the arbitration hearing. Once arbitration is convened, or waived, the NBAR has no further effect, in arbitration, litigation or any other proceeding, except that both the NBAR and the arbitration panel's allocation are admissible in a court of law, pursuant to HSC Section 25356.7 for the sole purpose of showing the good faith of the parties who have discharged the arbitration panel's decision.

As described above, under the May 2008 Consent Order, BP assumed responsibility for environmental remediation of Schlage OU, and UPC assumed responsibility for UPC OU.

1.5 Project Schedule

The remedial technologies considered in this FS/RAP are those that offer the potential for completion of remedial activities within a reasonable time period to allow redevelopment of the Site to begin. The schedule goal is to have portions of the Site north of Visitacion Avenue ready for redevelopment by October 2010, and portions of the Site south of Visitacion Avenue remediated sufficiently for redevelopment to begin by October 2011. Groundwater monitoring will continue after remediation until concentrations of COCs reach the cleanup levels.

2.0 SITE BACKGROUND

2.1 Site Description

The Site consists of approximately 20 acres in San Francisco, located north of Sunnydale Avenue, between Bayshore Boulevard on the west, and the Union Pacific/Joint Powers Board railroad tracks on the east, and Blanken Avenue to the north (Figure 1-1). The Site consists of the former Schlage Lock facility and the former SP OU-1 (Figure 1-2). The surface elevation of the Site ranges from approximately 10 to 50 feet above mean sea level (AMSL).

The former Schlage Lock facility is located north of Sunnydale Avenue and east of Bayshore Boulevard, at 2401-2555 Bayshore Boulevard in San Francisco, and is the location of the former Schlage Lock Company manufacturing facility. The former Schlage Lock facility consists of San Francisco County Tax Assessor Parcel Numbers 30-5087-003-001, 30-5087-003A-01, 30-5099-014-01, 30-5100-010-01, 30-5100-002-01, 30-5100-003-01, and 30-5101-007-01. This property has a recorded area of 12.66 acres (*DTSC, 2008*).

The former Southern Pacific (SP) Brisbane Rail Yard portion of the Site is located north of Geneva Avenue and east of Bayshore Boulevard, in San Francisco and Brisbane. SP OU-1 consists of the northern portion of the former Brisbane Rail Yard and includes all or portions of the following County Tax Assessors Parcels: San Francisco County Tax Assessor Parcel Numbers 30-5107-001-01, 30-5101-006-01, 30-5087-004-01, 5107-003, 5107-004, together with easements for access, railroad rights of way and spur tracks, and portions of San Mateo County Tax Assessor Parcel Number 005-340-060. Approximately 7 acres in San Francisco are within the Site. This FS/RAP does not address soil on the San Mateo County parcels.

2.2 Historical Use Summary

The Schlage Lock Company manufactured door hardware and lock parts at the San Francisco facility from 1926 to 1999. Ingersoll-Rand acquired the company in 1974. Schlage Lock started its operations in a building known as Plant 1. The size of the facility was expanded by the construction of Plant 2 in 1942, Plant 3 in 1950, and lastly Plant 1X in 1963. The manufacturing processes conducted at the plant included stamping and machining metal alloys; deburring brass, bronze, nickel, silver and steel parts; electroplating; and cleaning brass and bronze parts with Safety Kleen 150, a petroleum naphtha solvent. The plant ceased operation in December 1999.

In 1980, Pacific Lithograph Company acquired Plant 3. Pacific Lithograph used solvent products in lithographic processing until 1993. In 1995, Touch-Plate International, a Schlage subsidiary, acquired the Plant 3 and 3X Buildings from Pacific Lithograph. The Schlage Lock Company ceased all manufacturing at the Site in 1999 and removed all of its equipment, except for several underground storage tanks (USTs) that were closed in place under a permit from the San Francisco Department of Public Health (SFDPH). The closed in place USTs are scheduled to be removed prior to site development.

UPC acquired the Schlage Lock property from Ingersoll Rand in May 2008 as part of a litigation settlement. Buildings remain on the Site, but are slated for demolition to facilitate redevelopment of the Site. Removal of hazardous materials (e.g., lead based paint and asbestos) from inside the buildings was completed in March 2009 to prepare the buildings for demolition, which began in April 2009.

The SP OU-1 portion of the Site was acquired by Southern Pacific Transportation Company (SPTC) in 1896. SPTC operated the former Brisbane Rail Yard from 1914 through 1960. The property was used for major railcar rehabilitation, locomotive maintenance operations, and material transfer operations. Tuntex USA, Inc. was granted title to the San Francisco parcels of the SPTC property in August 1990. Tuntex USA, Inc. changed its corporation name to UPC effective January 1, 1997. UPC holds title to the San Francisco portions of the OU-1 property. Other than remediation activities, no manufacturing operations have occurred on the SP OU-1 property since it was acquired by UPC. The San Francisco portion of the SP OU-1 has been rented periodically since before the transfer of the property to its current owner, for various temporary storage uses by different companies, including storage of semi-truck trailers, landscape maintenance, and a small truck repair shop.

2.3 UPC Redevelopment Plan

UPC plans to redevelop the Site in accordance with an Environmental Impact Report (EIR) certified by the San Francisco Redevelopment Agency on December 16, 2008 and the Planning Commission on December 18, 2008. Figure 2-1 presents the proposed redevelopment plan for the Site in accordance with the certified EIR, which consists of the following three redevelopment zones, which are consistent with the plans approved by the San Francisco Planning Department:

- Zone 1 – Public open space on grade.
- Zone 2 – Residential over commercial podium construction.
- Zone 3 – Residential over podium parking and street level commercial construction.

2.4 Site Investigations

Investigations to assess the nature and extent of contaminants have been conducted on the Site, with regulatory oversight, beginning in 1982. Historical soil analytical data is presented in Appendix A. A compilation of cumulative water level and water quality data from groundwater monitoring wells at the Site is presented in the fourth quarter 2008 groundwater monitoring report (*MACTEC, 2009b*). A description of the nature and extent of soil and groundwater contamination is presented in Section 3.1, and the COCs identified in soil at the Schlage and UPC OUs, and groundwater at the Schlage OU, are presented in Section 3.2.

Previous Site Investigations

Multiple previous investigations and assessments have been conducted at the Site since 1982. During these activities, more than 100 borings, 145 groundwater monitoring, soil vapor extraction (SVE), soil gas monitoring points, and groundwater extraction wells were installed and sampled at the Site (*T&R, 2001a*). Soil and groundwater were analyzed for one or more of the following: VOCs, benzene, toluene, ethyl benzene, and xylenes (BTEX), metals, cyanide, and total petroleum hydrocarbons (TPH). The results of these investigations are summarized below.

Plant 2 Investigations 1982 - 1985

The objective of these investigations was to evaluate concentrations of priority pollutant metals in soil and groundwater near the former plating operations in Plant 2. The groundwater samples contained detectable concentrations of chromium, lead, mercury, nickel, and copper (*T&R, 2001a*).

Preliminary Site Assessment of Pacific Lithograph Building - 1993

In August 1993, an investigation of the Pacific Lithograph Building was conducted. Shallow soil samples were collected from under the Plant 3 degreasing room sump, from immediately outside the former strip and degreasing rooms and opposite the sump, and from the southeastern corner of the Plant 3X building near the loading dock. Soil samples were analyzed for VOCs, chlorinated VOCs (CVOCs), and the CAM 17 metals (California Code of Regulations (CCR) Title 22 California Assessment Manual). Tetrachloroethene (PCE) and trichloroethene (TCE) were detected in the sample from under the Plant 3 sump at elevated concentrations (T&R, 1994).

Preliminary Endangerment Assessment - 1994

In 1994, a Preliminary Endangerment Assessment was conducted in the portion of the Schlage OU south of Visitation Avenue. The primary objectives of this investigation were to: 1) conduct additional delineation of contamination; 2) investigate the soil beneath suspected on-site chemical use and storage areas at Pacific Lithograph; and 3) further assess the quality of shallow groundwater upgradient of the Pacific Lithograph Building (i.e., upgradient of Schlage Plants 3 and 3X). Groundwater samples were obtained from soil borings and a concrete-lined floor pit inside of the Pacific Lithograph Building. Depending on location, water samples contained detections of halogenated VOCs, metals, BTEX, TPH as gasoline (TPH-g), TPH as diesel, and Oil and Grease (T&R, 1994).

Interim Remedial Investigation - 1995

This investigation included historical research of the Schlage, Bodinson, Norton Trust, and SPTC properties as well as an assessment of the Schlage and Sunquest properties. Samples confirmed the presence of CVOCs, TPH, and metals in groundwater and soil (T&R, 1995a).

Plant 3X Loading Dock Area Investigation - 1997

The objective of this 1997 investigation was to evaluate the lateral extent and distribution of contamination, and to evaluate geotechnical conditions relevant to design of potential remedial actions. The assessment consisted of a screening-level passive soil gas (PSG) survey followed by confirmatory soil and groundwater sampling at selected boring locations (T&R, 1998a).

Maintenance Shed Area Investigation - 1998

Specific objectives of this assessment were to evaluate potential sources within the area of the maintenance shed. A PSG was conducted at 20 locations, and soil gas samples were analyzed for CVOCs. The results of the investigation indicated that no vadose zone source was present in the area (T&R, 1998b).

Field Investigation Report, Schlage/Tuntex Sites - 1998

The primary purpose of this investigation in September 1998 was additional characterization of CVOC distribution in groundwater near the boundary between the Schlage and Sunquest properties. The investigation included depth-discrete groundwater sampling, soil sampling, and a PSG survey (T&R, 1998c).

Preliminary Soil and Groundwater Investigation Plants 1, IX and 2 - 1998

This investigation was conducted to evaluate the nature and extent of potential contamination at Plants 1, IX, and 2 north of Visitation Avenue. Soil, soil gas, and groundwater samples were collected and were analyzed for VOCs, TPH, total cyanide, pH, cadmium, chromium, hexavalent chromium, lead, nickel, and zinc (T&R, 1998d).

Additional Groundwater Characterization - 2000

The general purpose of the characterization program conducted in December 1999 and January 2000 was to further delineate the extent of VOCs in groundwater and to collect data to support a Human Health Risk Assessment (HHRA) and a groundwater feasibility study consistent with the planned redevelopment of the Schlage property (T&R, 2001b).

Remedial Investigation Report Joint Groundwater Operable Unit – 2002

The objective of the investigation was to evaluate the nature and extent of groundwater contamination beneath both the Former Schlage Lock and the SP OU-1 properties. The investigation: 1) evaluated the hydrogeology and geology of the Site as it relates to groundwater and contamination migration; 2) compiled all available groundwater chemical data into a single document along with a representative summary of hydrogeological data and information; 3) characterized the nature and extent of contamination in the groundwater at the Site; 4) determined and evaluated transport routes of the chemical substances present in groundwater at the Site; and 5) developed a foundation of data necessary for the preparation of a Risk Assessment, and subsequent RAP or (RAW) for the groundwater at the Site. The chemicals of concern at the Site were identified as CVOCs located in three water-bearing zones: A-Fill, A-Sand, and B-Sand. The report also presented an outline of the objectives of the groundwater remedy (i.e., pump and treat) that was operating at the time (B&M, T&R, 2002).

Remedial Action Plan – 2005

A RAP was prepared by Brown and Caldwell, and Treadwell & Rollo, to assess whether revisions were required to a groundwater RAP submitted in 1993 (B&M and T&R, 2005). The report also was intended to address potential residual dense non-aqueous phase liquids (DNAPL) that may be trapped and immobile locally within the pore spaces of the aquifer sands, or adsorbed onto the silt and clay minerals in the aquitard layers. Four remedial alternatives were developed and evaluated for remediating contaminated groundwater. The remedial alternative proposed: 1) groundwater extraction from ten groundwater extraction wells, including seven existing wells plus three additional wells added to enhance recovery in high concentration zones; 2) ex situ treatment of extracted groundwater by activated carbon to remove liquid and vapor phase VOCs; 3) discharge of treated water to the local sanitary sewer; and 4) institutional controls (B&M and T&R, 2005).

Groundwater Monitoring

Groundwater monitoring has been carried out on the Schlage OU since 1995, in accordance with the Operation and Maintenance agreement between the DTSC and Sunquest. From 1995 through the present, groundwater monitoring has been conducted at various times by Recon Environmental Corp., SCS Engineers, Burns & McDonnell, and MACTEC. Groundwater samples from all of the wells have been analyzed for CVOCs. Groundwater from designated wells also has been analyzed for TPH, total chromium, hexavalent chromium, BTEX, and Methyl Tertiary Butyl Ether (MTBE).

Since the third quarter of 2008, MACTEC has conducted quarterly groundwater monitoring events for the Schlage OU on behalf of BP, in accordance with BP's contractual agreement with UPC for completing environmental remediation of the Schlage OU. Groundwater monitoring was performed in accordance with MACTEC's *Revised Proposed Long Term Groundwater Monitoring Plan (MACTEC, 2008c)*.

Data Gap Investigation

From July 2008 through March 2009, MACTEC conducted data gap investigation and treatability study activities in accordance with the *Data Gap Investigation and Treatability Studies Work Plan, Schlage OU, San Francisco and Brisbane, California (MACTEC, 2008a)* in order to evaluate current Site conditions after operation of the Soil Vapor Extraction and Treatment System (SVETS) and Groundwater Extraction and Treatment System (GWETS) described in Section 2.5. A summary of the data gap investigation conducted at the Schlage OU in fall 2008 is presented in Appendix B. The objectives of the data gap investigation activities were to:

- Compare the current concentrations of CVOCs in soil with historical concentrations collected prior to SVE treatment within the SVE treatment system area of influence (SVETS).
- Assess the current CVOC concentrations between the SVETS area and the area around soil boring TR-21 and groundwater monitoring wells SW-08 and LF-10B.
- Assess the current CVOC concentrations in Upper and Lower A-Zone groundwater at the location of the former degreasing room/strip room areas (i.e., the historical primary source).
- Assess the CVOC concentrations in Upper and Lower A-Zone groundwater between the SVETS area and the area around soil boring TR-21 and groundwater monitoring wells SW-08 and LF-10B.
- Classify soils based on soil physical property (geotechnical) testing.

The chemical analytical results from the data gap investigation indicate the following:

- In soil samples collected from soil borings MEC-1 and MEC-2 in the SVETS area after operation of the SVETS, the maximum reported PCE and TCE concentrations of 1 milligram per kilogram (mg/kg) and 0.23 mg/kg, respectively, are significantly lower than maximum concentrations reported prior to SVETS operation (95 mg/kg and 100 mg/kg, respectively), in soil boring SVE-4, located within close proximity of the MEC borings.
- In soil samples collected from soil borings MEC-3 through MEC-6 in the area between the SVETS area and the area around TR-21, SW-08, and LF-10B, PCE and TCE concentrations are generally lower than those reported in the SVETS area.
- Reported PCE and TCE concentrations in groundwater were higher in the Lower A-Zone than in the Upper A-Zone, which is consistent with trends observed from routine groundwater monitoring events.
- The highest total combined PCE and TCE concentrations in groundwater (123,000 micrograms per liter [$\mu\text{g/L}$]) were reported in a Lower A-Zone groundwater sample collected from boring MEC-5, near well LF-10B; the well location where the highest combined PCE and TCE concentrations have consistently been reported during routine groundwater monitoring events.

The results of the geotechnical testing show the pH, soil types and porosity appear favorable to in-situ remediation. Additionally, the medium to fine sand beneath the Site have relatively low percentages of silt and clays, which appears conducive for remediation of CVOCs through aeration of soil stockpiles.

2.5 Previous Remedial Activities

Remedial activities were initiated in 1987, as summarized below.

Primary and Secondary Source Removal

UST Removals

In 1987, four diesel USTs located at 2401 Bayshore Boulevard were closed-in-place by filling with concrete, and one diesel UST was converted into a storage tank for boiler water (L&W, 1989). Two of the abandoned in place USTs were located in the Plant 2X building under ramps near Plant 2, and the other two were located outside the Plant 2 building in a parking area along Bayshore Boulevard (MACTEC, 2008d). A certificate of completion letter from the SFDPH dated January 11, 1988, stated that all work was completed satisfactorily, and that no further investigation or cleanup was required. In 1989, one 300-gallon diesel UST was removed in accordance with the City of San Francisco Department of Public Health regulations (L&W, 1989). A certificate of completion letter from the SFDPH dated January 23, 1990, stated that all work was completed satisfactorily, and that no further investigation or cleanup was required. The closed in place USTs and converted storage tank are scheduled to be removed prior to site development.

Soil Excavation

In 1996, several sumps and contaminated floor slabs were removed from the former degreasing room and strip room areas of Plant 3 on the Schlage Lock property, along with approximately 80 cubic yards of CVOC-contaminated soil (T&R, 1995b, 1996). In 1993, VOC- and petroleum hydrocarbon-impacted soils were excavated adjacent to the southwest Site boundary along the joint sewer line in the area of the former oil/water separator as part of a removal action within the former SP OU-1 (B&M and T&R, 2005, and B&M, 2006a).

Soil Vapor Extraction and Treatment System (SVETS), and Groundwater Extraction and Treatment System (GWETS)

Based on the results of previous remedial investigations conducted at the Site that indicated significant CVOC contamination was present in soil and groundwater at the Site, the SVETS and GWETS were constructed and operated as required by DTSC and summarized in the *Removal Action Design and Implementation Work Plan* (Geomatrix, 1995), and the *Draft Remedial Action Plan, Joint Ground Water Operable Unit, Schlage Site, San Francisco, California* (B&M, 2003).

SVETS

In 1999, a SVETS was installed in the vicinity of the former degreasing room in Plant 3 at the former Schlage Lock facility. The SVETS consisted of eight extraction wells, one piezometer, and 44 soil vapor monitoring points. Treated vapor was discharged under a permit with the Bay Area Air Quality Management District (BAAQMD). The SVETS was decommissioned in September 2008, with DTSC approval. The system equipment was removed, and salvaged and/or disposed offsite. The extraction wells, the piezometer, and the soil vapor monitoring points were destroyed in January 2009. The SVETS

removed approximately 3,830 pounds (1.91 tons) of CVOCs during operation from 1999 through September 2008.

GWETS

The GWETS was constructed in 1994 and became operational in 1995. The GWETS operated from 1995 until July 2008, when the system was turned off with DTSC approval to ensure the operations did not impact the pilot in situ treatability tests conducted at the Site in fall of 2008 (Appendix B). Extracted groundwater was treated by adsorption using granular activated carbon (GAC) and the treated water was discharged to a sanitary sewer under an existing industrial wastewater discharge permit. The primary functions of the GWETS were to establish hydraulic control of the CVOC impacted groundwater and perform CVOC mass removal. As of June 2008, approximately 5,135 pounds (2.57 tons) of PCE and 668 pounds (0.33 tons) of TCE, the primary CVOCs found in groundwater have been removed by the GWETS. The treatment system is used intermittently to process well development and well purge water, and rinsate from field activities.

2.6 Regional Geology and Site Geology

2.6.1 Regional Geology

The Site is near the San Francisco Bay, and in the recent geologic past was part of the Bay. The near surface geology has largely been controlled by the changing morphology of the Bay Area over geologic time.

The Site is located upon Quaternary-age (less than approximately 2 million years old) dune, alluvial (stream-deposited), and estuarine sediments, with some man-made fill. This sequence of sediments reflects a gradual, episodic rise in relative sea level (and Bay level) over the last few million years.

Franciscan bedrock crops out at elevations above approximately 100 feet immediately north of the Site, and at lower elevations on the east side of Tunnel Avenue, east of the Site. The Franciscan assemblage in the area is reportedly generally sheared and locally highly weathered, and consists of greenstone (a volcanic rock), interbedded chert and shale (sedimentary rocks formed in the deep ocean), and interbedded sandstone and shale (formed in medium to shallow-depth ocean). These rocks have subsequently been partly metamorphosed, sheared, and uplifted by tectonic activity. No Franciscan rocks are known to crop out on the Site, but occur at a depth of about 50 to 60 feet below ground surface (bgs) beneath the Site.

2.6.2 Site Geology

Based on borings drilled for the subsurface investigations at this Site, the principal geologic strata at the Site are as follows:

- A-Fill;
- Bay Margin Deposits;
- A-Sand;
- A-Aquitard; and

- B-Sand.

Maps depicting the location of a generalized geologic cross section, and a geologic cross-section A-A' are presented on Figures 2-2 and 2-3, respectively.

The A-Fill ranges in thickness from 0 to 15 feet, and consists of heterogeneous mixture of clay, silt, coarse sand, and gravel with fragments of brick, stone, and wood from the 1906 San Francisco earthquake rubble. The A-Fill was placed directly on the marine sediments that comprise the Bay Margin deposits. Reported values of A-Fill hydraulic conductivity range from 6×10^{-2} centimeters per second (cm/sec) to 1.4×10^{-5} cm/sec (*B&M and T&R, 2002*).

The Bay Margin deposits consist of two principal lithologies, a low-permeability clay locally termed Bay Mud and a somewhat more permeable silty sand. The silty sand unit represents a near-shore facies. This unit is typically brown, with small amounts of clay, and interbedded with significant amounts of organic matter (roots, stems, etc.) and fossil shells in some places. The Bay Mud facies consists of a grayish green to black, high plasticity clay with occasional sand and silt lenses, deposited on the floor of the old San Francisco Bay. The northern edge of this facies is approximately coincident with Sunnydale Avenue and the "Sunquest building" as shown on Figure 2-2, trending east-southeast, and thickening toward the south. In the vicinity of the car wash at Sunnydale Avenue and Bayshore Boulevard, the edge of the facies turns southward. In borings drilled at the Site, the thickness of the Bay Margin unit ranges from zero to approximately 25 feet thick. Further, the unit typically occurs at depths of approximately 3 to 15 feet bgs. The Bay Margin deposits typically overlie a unit referred to as A-Sand. Reported values of the hydraulic conductivities of the Bay Mud facies of the Bay Margin units range from 9.5×10^{-7} cm/sec to 1.5×10^{-8} cm/sec (*B&M and T&R, 2002*).

The A-Sand is a yellow-to-brown, fine-to-medium-grained quartz sand with some minor interstitial silt and clay. The sand is medium dense to very dense at depth. The thickness of the A-Sand beneath the Site ranges from approximately 14 to 33 feet thick. The A-Sand overlies and is separated from the B-Sand by a southward dipping clay unit referred to as the A-Aquitard. Reported values of the A-Sand hydraulic conductivities range from 8.8×10^{-3} cm/sec to 3.5×10^{-5} cm/sec (*B&M, T&R, 2002*).

The A-Aquitard is a yellow to brown, stiff, low-plasticity clay to sandy clay with occasional lenses of cleaner sand. The unit dips southward and the depth to the top of this unit is approximately 20 feet bgs.

The B-Sand unit occurs below the A-Aquitard and is similar to the A-Sand in lithology. The top of the B-Sand has been encountered at depths ranging from 55 to 60 feet bgs.

2.7 Site Hydrogeology

2.7.1 Upper and Lower A-Zones

Groundwater at the Site occurs at shallow depths within unconsolidated sediments; depths ranged from approximately 2.61 to 28.48 feet bgs in the fourth quarter 2008 groundwater monitoring event. The Bay Mud facies of the Bay Margin deposits is intermittently present across the Site (Figure 2-3); therefore, groundwater occurs in unconfined conditions within the A-Fill and the underlying A-Sand, and the groundwater in the two units is in direct hydraulic communication. In this portion of the Site, A-Zone monitoring wells screened in the upper interval are classified as Upper A-Zone wells, and those screened in the lower interval of the A-Zone are classified as Lower A-Zone wells. In the fourth quarter 2008 monitoring event, the horizontal hydraulic gradient in the Upper A-Zone was estimated to be

approximately 0.01 feet per foot, and in the Lower A-Zone was estimated to be approximately 0.012 feet per foot (Figures 2-4 and 2-5).

The groundwater contours presented in the Upper and Lower A-Zone aquifers are similar north of the Bay Margin Deposits, suggesting that hydrogeologic differentiation between the A-Zone aquifer into Upper and Lower Zones is an artificial construct in this portion of the Site (MACTEC, 2009b). In the southern portion of Schlage OU, some wells screened within the Lower A-Zone exhibit artesian conditions (Figure 2-3). The confining units that over and underlay the B-Zone result in hydraulic heads in this aquifer that are greater relative to head in the A-Zone aquifer units. Figure 2-3 shows this relative difference in heads, as the potentiometric surface of B-Zone is at least 10 feet higher than that of the Lower A-Zone throughout the Site. However, localized areas of artesian conditions occur within the Lower A-Zone, where the confining unit separating the A-Zone and B-Zone is discontinuous (i.e., near MEC-13LA and GT-1). Groundwater elevation at MEC-13LA, for example, is reported to be approximately 24 feet AMSL during well installation activities. This is similar to elevations at nearby SW-07B, indicating hydraulic communication between the A and B-Zones in this region of the site. Where artesian conditions are observed, the apparent hydraulic head is approximately 3 feet above ground surface.

A combined stormwater/sanitary sewer runs along Sunnydale Avenue (Figures 2-2 and 2-3). In the Lower A-Zone, groundwater flow is toward the combined sewer within its vicinity (Figure 2-5). In the Upper A-Zone, groundwater flow redirection toward the combined sewer is not evident from the measured groundwater elevations in wells located within the vicinity of the combined sewer.

According to the 2002 Joint Remedial Investigation (RI) Report prepared by Burns and McDonnell and Treadwell and Rollo, the estimated infiltration rates from the A-Zone into the sewer were several orders of magnitude lower than the base flow in the sewer. In addition, CVOC concentrations did not exceed the discharge limits of the GWETS in samples collected from the sewer with the groundwater pumping system offline. Based on these data, the RI Report concluded that infiltration rates relative to the baseflow in the sewer are not significant (B&M, T&R, 2002).

Well construction details are presented in Table 2-1. Upper A-Zone well screen intervals vary depending on changes in site elevation and depth to groundwater at the Site, and range from 5 to 20 feet bgs. Lower A-Zone well screen intervals occur generally at 20 to 40 feet bgs. B-Zone wells are generally screened from 45 to 65 ft bgs, with some wells screened deeper.

Summaries of groundwater elevation and analytical data, including the fourth quarter 2008 groundwater monitoring event, are presented in Tables 2-2 and 2-3, respectively.

2.7.2 B-Zone

The B-Sand is separated from the A-Sand by low permeability sediments of the A-Aquitard. Groundwater in the B-Sand (i.e., the B-Zone) also occurs under confined conditions with a significant upward gradient from the B-Sand to the A-Sand. Some B-Zone wells exhibit artesian flow. Groundwater flow in the B-Zone is not affected by the Sunnydale Sewer.

In the fourth quarter 2008 monitoring event, the horizontal hydraulic gradient in the B-Zone was estimated to be approximately 0.008 feet per foot (Figure 2-6).

2.8 Groundwater Use

Groundwater at the Site is not used for domestic or industrial purposes, but is considered a potential drinking water aquifer. The City of San Francisco provides the Site and surrounding residences and businesses with public water. Water service originates from the Hetch Hetchy Reservoir in the Sierra Nevada Mountains (*T&R, 2005*). However, groundwater is to be considered for potential use for municipal or domestic water supply, unless total dissolved solids (TDS) exceed 3,000 milligrams per liter (mg/L) per the State Water Resources Control Board policy (Resolution 88-63). Historically monitoring wells on the Site were analyzed for TDS with observed concentrations ranging from 300 to 4,400 mg/L (*B&M, 2006c*).

3.0 NATURE AND EXTENT OF CONTAMINATION

This section presents a summary of the nature and extent of contamination in soil and groundwater at the Schlage OU, and in soil at the UPC OU, and identifies the site contaminants retained as COCs.

3.1 Nature and Extent of Contamination

3.1.1 Schlage OU

A summary of the nature and extent of contamination in shallow soils (i.e., above the groundwater table) and groundwater within the Schlage OU is presented below.

3.1.1.1 Shallow Soils

Soil samples have been collected at the Schlage OU since 1994. Detailed compilation of soil sampling results at the Schlage OU is presented in the Soil Operable Unit, Remedial Investigation Report (*T&R, 2001a*). A brief outline of the reported CVOCs, BTEX, TPH-g, and metals detected is presented below.

CVOCs: PCE and TCE are the primary CVOCs reported at the Schlage OU. Historically, soil samples from saturated and unsaturated zones were analyzed for CVOCs. The historical high PCE and TCE concentrations in soils reported in the former degreasing room/strip room areas, which are within the influence of the SVETS area, are not included in the concentration ranges presented below because this area has since been remediated using SVETS, and historical concentrations are not anticipated to be reflective of current conditions.

Figures 3-1 and 3-2 present the isoconcentration contours of PCE and TCE in soils at the Schlage OU.

- PCE concentrations ranged from below laboratory limits to 8 mg/kg.
- TCE concentrations ranged from below laboratory reporting limits to 16 mg/kg.
- Cis-1,2-DCE concentrations ranged from below laboratory reporting limits to 0.65 mg/kg.

1,1,1-trichloroethane, 1,1,2-trichloroethane, carbon tetrachloride, and methylene chloride were reported in one or more soil samples collected in the southern portion of the Site (Appendix A). No other CVOCs were reported above laboratory reporting limits in soil samples collected at the Schlage OU.

BTEX/TPH-g: BTEX/TPH-g analytical data collected from the Schlage OU are presented in Appendix A.

- Benzene, ethylbenzene, and xylenes were not reported above laboratory reporting limits in collected soil samples.
- Toluene was reported at a concentration of 0.006 mg/kg in multiple soil samples.
- TPH-g concentrations ranged from below laboratory reporting limits to 2,880 mg/kg in soil samples. Only one soil sample collected at 1.5 feet bgs in TR-67 soil boring had a TPH-g concentration (2,880 mg/kg) in excess of 1,000 mg/kg. At this location, the sample collected at 5 feet bgs did not report TPH-g above laboratory reporting limits.

Metals: Heavy metals, including arsenic, chromium, lead, cadmium, and mercury were reported in soil samples collected at the former Schlage Lock facility.

- Arsenic concentrations ranged from below laboratory reporting limits to 8 mg/kg (TR-2) in soil samples.
- Total chromium concentrations ranged from below laboratory reporting limits to 340 mg/kg (P-1). Hexavalent chromium concentrations ranged from below laboratory reporting limits to 6 mg/kg (P-1).
- Lead concentrations ranged from below laboratory reporting limits to 5,600 mg/kg (TR-24).
- Cadmium concentrations ranged from below laboratory reporting limits to 39 mg/kg (TR-9).
- Mercury concentrations ranged from below laboratory reporting limits to 36 mg/kg (TR-4).

3.1.1.2 Groundwater

Groundwater at the Site has been historically identified as consisting of the following zones according to aquifer characteristics: Upper A-Zone; Lower A-Zone, and B-Zone. The results of investigations and groundwater monitoring at the Site are summarized below by these three zones.

Figures 3-4 through 3-6 present the total of PCE, TCE, cis-1,2-DCE, and vinyl chloride (VC) isoconcentrations in the Upper A-Zone, Lower A-Zone, and B-Zone groundwater, respectively, based on the fourth quarter groundwater monitoring data (MACTEC, 2009b). If data were available from wells not included in the current groundwater monitoring program, the maps incorporate the most recent data from historical measurements over the two year period of 2007 to 2008.

3.1.1.2.1 Upper A-Zone Groundwater

The Bay Mud facies within the bay margin deposits is typically absent, and the Upper A-Zone groundwater occurs within the unconsolidated sediments of the A-Fill/A-Sand. The wells screened in the upper interval are referred to as Upper A-Zone wells. Wells screened in the Upper A-Zone range from approximately 5 to 10 feet bgs in the north (near SW-02UA) to approximately 10 to 23 feet bgs near the San Francisco/San Mateo County line (near SW-11UA).

To the south of the county line, where the Bay Mud facies separates the A-Fill from the A-Sand, groundwater contained within the A-Fill is referred to as Upper A-Zone groundwater. The wells screened within the Upper A-Zone are referred to as Upper A-Zone wells, and the well screens range from 4 to 8.5 feet bgs to the south of the county line (near LF-1AR) and from 3 to 10 feet bgs in the south (near MK-5A).

CVOCs

Historically, the primary CVOCs detected above laboratory reporting limits in Upper A-Zone groundwater were PCE, TCE, DCE, and VC.

During the fourth quarter 2008 groundwater monitoring event, the ranges in concentrations of the primary CVOCs in Upper A-Zone groundwater were:

- PCE concentrations ranged from less than reporting limits to 4,900 µg/L in monitoring well LF-11A.
- TCE concentrations ranged from less than reporting limits to 9,500 µg/L in monitoring well LF-12A.
- Cis-1,2-DCE concentrations ranged from less than reporting limits to 760 µg/L in monitoring well LF-11A.
- VC concentrations ranged from less than reporting limits to 230 µg/L in monitoring well LF-11A.

Cis-1,2-DCE and vinyl chloride concentrations in the Upper A-Zone in excess of the values presented above were observed during ERD pilot testing activities conducted near monitoring well SW-07UA. These concentrations are considered transient and are expected to attenuate as the pilot test proceeds.

TPH and BTEX Compounds (including methyl tertiary butyl ether [MTBE])

TPH and BTEX compounds have been historically monitored in Upper A-Zone groundwater at monitoring well MW-5AF. Since its installation in first quarter 2007, TPH and BTEX compounds (including MTBE) have not been detected in excess of laboratory reporting limits in this well.

Metals

Heavy metals including chromium and nickel have been historically monitored in Upper A-Zone groundwater monitoring wells on the Schlage OU.

- Analytical results for total chromium in the fourth quarter 2008 ranged from less than reporting limits to 31 µg/L in monitoring well SW-06UA.
- Analytical results for hexavalent chromium in the fourth quarter 2008 ranged from less than reporting limits to 17 µg/L in monitoring well SW-02UA.
- Analytical results for nickel in the fourth quarter 2008 ranged from less than reporting limits (<50 µg/L) in monitoring well SW-22UA to 3,000 µg/L in monitoring well SW-06UA.

Following the ISCO pilot test described in Appendix B, hexavalent chromium was detected in excess of the concentrations reported above, in monitoring well LF-10A (27 µg/L), but below the MCL of 50 µg/L for total chromium. This occurrence may potentially be the result of oxidation of trivalent chromium due to injection of an oxidant during the ISCO pilot treatability study near that well, and is expected to return to trivalent chromium over time as subsurface redox conditions return to their pre-injection state. Groundwater samples will continue to be analyzed for hexavalent chromium under the existing groundwater monitoring program.

3.1.1.2.2 Lower A-Zone Groundwater

To the north of the San Francisco/San Mateo County line, where the Bay Mud facies within the bay margin deposits is typically absent, the lower A-Zone groundwater occurs within the unconsolidated sediments of the A-Fill/A-Sand. The wells screened in the lower interval are referred to as Lower A-Zone wells. Wells screened in the Lower A-Zone range from approximately 10 to 15 feet bgs in the north (near

SW-02LA) to approximately 19 to 43 feet bgs near the San Francisco/San Mateo County line (near SW-12LA).

To the south of the county line, where the Bay Mud facies separates the A-Fill from the A-Sand, groundwater contained within the A-Sand is referred to as Upper A-Zone groundwater. The wells screened within the Lower A-Zone are referred to as Lower A-Zone wells, and the well screens range from 37 to 42 feet bgs to the south of the county line (near SW-14LA) and from 17 to 27 feet bgs in the south (near MK-5B).

CVOCs

Historically, the primary CVOCs detected above laboratory reporting limits in Lower A-Zone groundwater were PCE, TCE, DCE, and VC.

During the fourth quarter 2008 groundwater monitoring event, the ranges in concentrations of the primary CVOCs in Lower A-Zone groundwater were:

- PCE concentrations ranged from less than reporting limits to 9,500 µg/L in monitoring well LF-10B.
- TCE concentrations ranged from less than reporting limits to 230,000 µg/L in monitoring well LF-10B.
- Cis-1,2-DCE concentrations ranged from less than reporting limits to 48 µg/L in monitoring well LF-11A.
- VC concentrations did not exceed laboratory reporting limits in wells sampled.

Cis-1,2-DCE and vinyl chloride concentrations in the Lower A-Zone in excess of the values presented above were observed during ERD pilot testing activities conducted near monitoring well SW-07LA. These concentrations are considered transient and are expected to attenuate as the pilot test proceeds.

Metals

Heavy metals including total and hexavalent chromium have been historically monitored in Lower A-Zone groundwater monitoring wells.

- Analytical results for total chromium in Lower A-zone in the fourth quarter 2008 were less than reporting limits.
- Analytical results for hexavalent chromium in the Lower A-Zone in the fourth quarter 2008 ranged from less than reporting limits to 18 µg/L in monitoring well SW-02LA.

3.1.1.2.3 B-Zone Groundwater

B-Zone groundwater comprises the B-Zone aquifer below approximately 55 feet bgs. B-Zone groundwater at the Site is monitored in eight groundwater monitoring wells under the current monitoring program; all of the wells are located in the central portion of the Site.

The highest concentrations of CVOCs in the B-Zone are located near monitoring well SW-08B (combined CVOC concentration of 98.4 µg/L for the fourth quarter 2008).

CVOCs

Historically, the primary CVOCs detected above laboratory reporting limits in B-Zone groundwater were PCE, TCE, cis-1,2-dichloroethene (DCE), and VC.

During the fourth quarter 2008 groundwater monitoring event, the ranges in concentrations of the primary CVOCs in B-Zone groundwater were:

- PCE concentrations ranged from less than reporting limits to 32 µg/L in monitoring well SW-08B.
- TCE concentrations ranged from less than reporting limits to 59 µg/L in monitoring well SW-08B.
- Cis-1-2-DCE concentrations ranged from less than reporting limits to 7.4 µg/L in monitoring well SW-08B.
- VC concentrations were not detected above laboratory reporting limits in wells sampled.

3.1.1.3 Soil Gas

As described in Section 2.5, previous remedial investigations conducted at the Site indicated CVOC contamination was present in soil gas. In 1999, a SVETS was installed in the vicinity of the former degreasing room in Plant 3 at the former Schlage Lock facility to extract and treat soil gas with elevated concentrations of CVOCs. The SVETS was decommissioned in September 2008, with DTSC approval. The SVETS removed approximately 3,830 pounds (1.91 tons) of CVOCs in soil gas during operation from 1999 through September 2008.

From July 2008 through March 2009, MACTEC conducted data gap investigation activities as described in Section 2.4 in order to evaluate current Site conditions after operation of the SVETS. The chemical analytical results from the data gap investigation indicated soil samples collected in the SVETS area after operation of the SVETS had maximum reported PCE and TCE concentrations of 1 mg/kg and 0.23 mg/kg, respectively, that are significantly lower than maximum concentrations reported prior to SVETS operation (95 mg/kg and 100 mg/kg, respectively).

The soil gas data that is available for the Site was collected prior to operation and decommissioning of the SVETS. Cleanup levels for soil gas at the Site were developed as summarized in Section 4.1 to mitigate potential health risks from inhalation of CVOC vapors. Soil gas samples will be collected as part of remediation confirmation sampling activities described in Section 7.3 to document soil gas concentrations and confirm cleanup levels have been met.

3.1.2 UPC OU

A summary of the nature and extent of contamination in soils within the UPC OU is presented below.

Heavy metals, including arsenic, lead, and cadmium were reported at elevated concentrations in soil samples collected at the UPC OU.

- Arsenic concentrations ranged from below laboratory reporting limits to 240 mg/kg (B-8) in soil samples.
- Lead concentrations ranged from below laboratory reporting limits to 810 mg/kg (TR-24).
- Cadmium concentrations ranged from below laboratory reporting limits to 41.2 mg/kg (MW-5B).

Metals in soil have been detected in shallow (0 to 3 feet bgs) and deeper (4 to 6 feet bgs) soils above screening levels in five sampling locations at the Site (Figure 3-3). In addition, x-ray fluorescence (XRF) screening of near-surface (1- to 2-feet deep) samples in support of ongoing litigation between UPC and Union Pacific Railroad indicates more widespread lateral extent of arsenic and lead. Based on this screening program and the relatively few near-surface soil samples that have been collected, the lateral distribution of metals at the Site appears to be more extensive than the previous localized detections, and will require additional soil sample collection and laboratory analyses to confirm XRF indications of elevated arsenic and lead in near-surface soil. Because the XRF data is intended to be for screening purposes, the results have not been included in this FS/RAP.

There is uncertainty relative to the lateral extent of contamination of metals in soil where soil sampling data has not been collected beneath pavement that overlies much of the OU. Figure 3-3 shows the estimated extent of elevated metals contamination in near-surface soils where additional soil sample collection and laboratory analyses is required to confirm XRF indications of elevated arsenic and lead.

3.2 Chemicals of Concern

3.2.1 Schlage OU

3.2.1.1 Shallow Soils

The maximum concentrations of reported chemicals were compared to regulatory screening criteria. VOCs (CVOCs and BTEX), whose maximum concentrations exceeded the EPA Region IX Regional Screening Levels (RSLs) (EPA, 2008) were retained as COCs. PCE and TCE were the only VOCs whose concentrations exceeded the Region IX RSLs (Table 3-1). Although cis-1,2-DCE, trans-1,2-DCE, and VC were not detected above laboratory reporting limits and/or their Region IX RSLs because these VOCs are degradation products of PCE and TCE and maybe formed as a result of breakdown of PCE and TCE, they were also retained as COCs.

Maximum concentrations of metals detected at the Schlage Lock facility were compared with their residential California Human Health Screening Levels (CHHSLs; CalEPA, 2005). Arsenic, cadmium, and lead were the only metals whose concentrations exceeded their residential CHHSLs; therefore, these metals were retained as COCs (Table 3-1).

COCs in soils at the Schlage OU are:

- PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, and VC; and
- Arsenic, cadmium, and lead.

3.2.1.2 Groundwater

Chemicals reported above laboratory reporting limits over the 2-year period between 2007 and 2008 in Upper A-Zone, Lower A-Zone, and B-Zone groundwater were compared with their respective primary MCLs (Table 3-3). Only those chemicals which were reported at concentrations that exceed MCLs were noted as COCs.

CVOCs detected in groundwater above primary MCLs that were retained as COCs at the Schlage OU are:

- PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC, 1,1,2-TCA, 1,1-DCA, 1,1-DCE, 1,2-DCA, Carbon tetrachloride, MC, and TCA.

A review of the analytical data from years 2007 and 2008 indicates that besides PCE, TCE, and their degradation products, cis-1,2-DCE, trans-1,2-DCE, 1,1-DCE, and VC, other CVOC detections were isolated and did not significantly exceed screening levels (Table D3-1, Appendix D). Therefore, these compounds were not retained as COCs for site groundwater. However, during site remedial activities, groundwater samples will be tested for CVOCs, including those noted above in addition to PCE/TCE and their degradation products, by EPA 8010. Nickel was the only metal with reported detections above its primary MCL in two of the Site wells (SW-06UA and SW-10UA; Table 3-3).

3.2.2 UPC OU

3.2.2.1 Soils

Similar to Schlage OU, only those metals whose concentrations exceeded residential CHHSLs were retained as COCs for UPC OU (Table 3-2). CVOCs are not COCs in soil at the UPC OU.

COCs in soil at the UPC OU are:

- Arsenic, lead, and cadmium.

4.0 SITE SPECIFIC HEALTH RISKS

This section presents the cleanup levels (CULs) and target redevelopment cleanup goals (TRCGs) developed for COCs present in soil, soil gas, and groundwater based on the assessment of health risks, and describes how they will be applied to remedial actions at the Site as follows:

- Section 4.1: Cleanup Levels for COCs
- Section 4.2: Target Redevelopment Cleanup Goals for COCs
- Section 4.3: Application of Cleanup Levels and Target Redevelopment Cleanup Goals.

CULs and TRCGs were developed based on the future redevelopment plans for the property. The redevelopment envisions a number of different land uses, or Redevelopment Zones, as described in Section 2.3. The following section describes the anticipated receptors and potential exposure risks for the various land uses in the three redevelopment zones being considered for the Site.

Redevelopment Zones

The CULs and TRCGs were developed to be protective of site receptors that would occupy each of the following zones, which are consistent with the plans approved by the San Francisco Planning Department:

- Zone 1 – Public open space on grade.
- Zone 2 – Residential over commercial podium construction.
- Zone 3 – Residential over podium parking and street level commercial construction.

Although Zones 2 and 3 both provide for residential development, the podium type of building construction precludes residential occupation of the ground level. The on grade portions of Zone 2 buildings are anticipated to be occupied by full-time commercial workers, and on grade portions of Zone 3 buildings would, in the highest intensity of use, be occupied by full-time parking attendants. In that the receptors in both Zones 2 and 3 are commercial receptors, the risk assumptions for Zones 2 and 3 are the same. Therefore, for the purposes of the risk analysis, exposure assumptions were developed for only two scenarios: Zone 1 (open space), and Zones 2 and 3 (commercial). During the risk analysis process, potential exposure to each COC was calculated for each Zone, using either the Open Space or the Commercial exposure scenario, as appropriate.

Media-Specific CULs

As detailed in Section 3.0 above, the COCs at the Schlage OU are CVOCs and metals in soil, and CVOCs in groundwater. The COCs at the UPC OU are metals in soil. The pathways for site receptors to be exposed to these COCs are inhalation of vapors, and ingestion or contact with groundwater or soil.

Soil Gas CULs

The CULs for soil gas were developed to mitigate potential health risks from inhalation of CVOC vapors that could volatilize from contaminated soil or groundwater and collect in enclosed spaces. The soil gas CULs developed using the Zones 2 and 3 commercial exposure assumptions are the most restrictive and

will be applied to the entire Site, including park and open space areas. Appendix D provides a detailed description of the CUL development for CVOCs in soil gas.

Groundwater CULs

The CULs for groundwater are the California MCLs. Although groundwater at the Site is not used for drinking water, the classification of the aquifer requires cleanup to the drinking water standard. These CULs are also protective of all receptors for exposure to soil gas in indoor air.

Soil CULs

The CULs for metals in soil were selected based on background concentrations, recreational exposure, and commercial exposure scenarios. CULs for metals were developed in the *Risk Analysis for Universal Paragon Corporation Operable Unit (UPC OU)* (Risk analysis; MACTEC, 2009a) and selected from other previously published documents.

Redevelopment Planning and Tracking of Remediation Progress

It is anticipated that redevelopment on a portion of the property may begin prior to achieving the final remedial action objections for the entire Site. Currently, soil gas CVOC concentrations limit the Site's suitability for redevelopment. Therefore, at some point during the remediation, soil gas sampling will be conducted and the results used to demonstrate that a given portion of the property is suitable for redevelopment.

During the implementation of the remedy, soil and groundwater samples will be taken to track the progress of the cleanup. Because volatilization of CVOCs from soil and groundwater contribute to soil gas, results of soil and groundwater sampling can be used to estimate theoretical soil gas concentrations. These estimates have been used to develop TRCGs for CVOCs in groundwater as an indication as to when soil gas concentrations should meet the soil gas CULs. The TRCGs for CVOCs in soil were selected based on the more stringent of an impact to groundwater standard, or risk to a commercial worker.

Soil and groundwater TRCGs will be used for planning purposes only to assess when soil gas sampling should be conducted to demonstrate that redevelopment activities can be initiated at the Site. TRCGs are an interim guidance value for the contractors and will not be used to evaluate completion of the remedy.

Appendix E provides a detailed description of the TRCG development for CVOCs in soil and groundwater.

4.1 Cleanup Levels for COCs

4.1.1 Soil Gas Cleanup Levels

The following are soil gas CULs for CVOCs at the Site:

| CVOC COCs | Soil Gas Cleanup Levels (µg/L) |
|---------------|-----------------------------------|
| 1,1-DCE | 2,190 |
| cis-1,2-DCE | 383 |
| trans-1,2-DCE | 657 |
| PCE | 5.2 |
| TCE | 15 |
| VC | 0.39 |

Appendix D provides a detailed description of the CUL development for CVOCs in soil gas.

4.1.2 Soil Cleanup Levels

Cleanup Levels for Metals: The following are CULs for arsenic and cadmium in soil at the Site:

| COCs | Cleanup Levels (mg/kg) |
|---------|---------------------------|
| Arsenic | 19.1 |
| Cadmium | 7.5 |

The arsenic CUL presented in the risk analysis (*MACTEC, 2009a*) is a value developed by Lawrence Berkeley National Laboratory (LBNL) that has been accepted as a background concentration for arsenic in the Bay Area and as applicable to the Site. Soil above the water table within the UPC OU is primarily fill placed in the early 1900s. Based on review of existing arsenic data from soil samples collected in both the San Francisco and Brisbane portions of the UPC OU fill, it appears that above a concentration of approximately 23 mg/kg, concentrations increase significantly, indicating likely impacts from historic site activities. This arsenic concentration is comparable to the published background value of 19.1 mg/kg developed by LBNL as an indicator of whether there are metals impacts in native soils or in non-native soils that exceed regional background concentrations. Therefore, the LBNL background value for arsenic was chosen as a representative value for the Site. The commercial CHHSL value for arsenic is lower than background; therefore, background was selected. The CUL for cadmium is the commercial CHHSL.

The following are CULs for lead in soil at the Site:

| COCs | Lead Cleanup Levels | |
|------|---------------------|--------------------------|
| | Zone 1 (mg/kg) | Zones 2 and 3 (mg/kg) |
| Lead | 559 | 800 |

The lead CUL of 559 mg/kg is developed in the risk analysis (*MACTEC, 2009a*) for recreational receptors, and the lead CUL of 800 mg/kg is the commercial value from the RSL (*EPA, 2008*).

4.1.3 Groundwater Cleanup Levels

The following CULs for CVOCs in groundwater at the Site are MCLs under California Code of Regulations, Title 22 § 64444:

| CVOC COCs | Cleanup Levels (MCLs) (µg/L) |
|---------------|---------------------------------|
| 1,1-DCE | 6 |
| cis-1,2-DCE | 6 |
| trans-1,2-DCE | 10 |
| PCE | 5 |
| TCE | 5 |
| VC | 0.5 |

4.2 Target Redevelopment Cleanup Goals for CVOCs

Soil and groundwater TRCGs will be used for planning purposes only to assess when soil gas sampling should be conducted to demonstrate that redevelopment activities can be initiated at the Site. TRCGs are an interim guidance value for the contractors and will not be used to evaluate completion of the remedy. During the implementation of the remedy, soil and groundwater samples will be taken to track the progress of the cleanup, and will be compared to TRCGs.

4.2.1 Target Redevelopment Cleanup Goals for Soil

The following are soil TRCGs for CVOCs at the Site:

| CVOC COCs | Target Soil Redevelopment Goals (mg/kg) |
|---------------|--|
| 1,1-DCE | 1.03 |
| cis-1,2-DCE | 0.19 |
| trans-1,2-DCE | 0.67 |
| PCE | 0.7 |
| TCE | 0.46 |
| VC | 0.05 |

The soil TRCGs are the lower of the TRCGs developed for protection of groundwater via leaching, and protection of commercial receptors that could be potentially exposed via the direct exposure pathway (i.e., incidental ingestion, dermal contact, ambient air inhalation).

Appendix E provides a detailed description of the TRCG development for CVOCs in soil.

4.2.2 Target Redevelopment Cleanup Goals for Groundwater

The following are groundwater TRCGs for CVOCs at the Site:

| CVOC COCs | Target Groundwater Redevelopment Goals (µg/L) |
|---------------|--|
| 1,1-DCE | 2,407 |
| cis-1,2-DCE | 2,295 |
| trans-1,2-DCE | 1,715 |
| PCE | 7.2 |
| TCE | 38 |
| VC | 0.5 |

The groundwater TRCGs are the lower of TRCGs developed for construction worker contact with groundwater, and vapor intrusion to indoor air for commercial receptors.

Appendix E provides a detailed description of the TRCG development for CVOCs in groundwater.

4.3 Application of Cleanup Levels

The typical concept of human exposure at a site or within a defined exposure area is an individual's contact with contaminated media on a periodic and random basis. Because of the repeated nature of such contact, human exposure does not really occur at a fixed point but rather at a variety of points with equal likelihood that any given point within the exposure area will be the contact location on any given day. The EPA recommends that the arithmetic average of chemical concentrations, or Exposure Point Concentrations (EPCs), within an exposure area be calculated for comparison to site cleanup levels (*EPA, 1989b*). To evaluate possible exposure to multiple chemicals, the effects of multiple chemicals are assumed to be additive. The EPA further recommends that an upper confidence limit (UCL) be used to represent the EPC to account for variability in the data set and uncertainty in estimating an arithmetic mean. EPCs for the CVOCs in each media of concern will be calculated using EPA's ProUCL Version 4.0. The comparison of EPC to CUL ratios will be used to demonstrate that any remaining CVOC chemical or combination of chemicals are not likely to pose substantial health risks, and to help determine whether or not further action may be necessary.

5.0 REMEDIAL ACTION OBJECTIVES

Remedial Action Objectives (RAOs), specific goals for protecting human health and the environment, are evaluated using ARARs and To-Be-Considered Requirements (TBCs). The following presents ARARs and RAOs for the Site.

5.1 Applicable or Relevant and Appropriate Requirements

ARARs are location-specific, action-specific, and chemical-specific requirements listed in table format, summarized in text, with comments indicating how compliance will be achieved.

Table 5-1 presents the following information: 1) a list of all ARARs and TBCs that have been identified for the Site; 2) the legal citation(s) for each ARAR and TBC; 3) a brief description of each ARAR and TBC; 4) determination as to whether each citation is an ARAR or TBC; 5) identification of the specific portions of the Site included in this FS/RAP for which each ARAR or TBC applies; and 6) a brief description of the actions to be taken as required by each ARAR or TBC in conjunction with implementation of the selected remedial alternative for the Site.

Section 121(d) of CERCLA, 42 U.S.C. § 9621(d), requires remedial actions to attain or justify the waiver of applicable, or relevant and appropriate, federal and state environmental or state facility siting requirements. These applicable, or relevant and appropriate requirements are referred to as “ARARs.” Federal ARARs may include requirements promulgated under any federal environmental laws. State ARARs may only include promulgated, enforceable environmental or facility-siting laws of general application that are more stringent or broader in scope than federal ARARs and that are identified by the state in a timely manner.

Applicable requirements are those cleanup standards, standards of control, criteria, or limitations that specifically address conditions, circumstances, or activities at a site. Relevant and appropriate requirements are those cleanup standards, standards of control, criteria, or limitations that, while not directly “applicable” to conditions, circumstances, or activities at the site, address problems or situations sufficiently similar to those encountered at the site so that their use is well suited to the site. A requirement that is not directly applicable must be both relevant and appropriate based on site-specific factors to be an ARAR. The criteria for determining relevance and appropriateness are listed in the NCP, 40 CFR § 300.400(g)(2).

Non-promulgated advisories or guidance issued by federal or state government are not legally binding and do not have the status of potential ARARs. Such advisories or guidance, which are termed “To-be-Considered” (TBC) material, are used during the cleanup process to further the goal of protecting human health and the environment.

ARARs only include substantive, not administrative, requirements, and pertain only to onsite matters. Any offsite activities must comply with all applicable federal, state, and local laws, including both substantive and administrative requirements.

ARARs are identified on a site-specific basis from information about the chemicals at the site, the actions that may take place at the site, and the features of the site location. There are three general ARAR categories:

- Chemical-specific,

- Action-specific, and
- Location-specific.

Chemical-specific ARARs are numerical values or methodologies that, when applied to site-specific conditions, result in the establishment of numerical values. They are used to determine acceptable concentrations of specific hazardous substances, pollutants, and contaminants in the environment. If a chemical is subject to more than one numerical value or methodology, the most stringent is generally selected.

Location-specific ARARs are restrictions placed on the concentration of hazardous substances, pollutants, or contaminants or the conduct of activities solely because they are in specific locations, such as wetlands or floodplains.

Action-specific ARARs are technology- or activity-based requirements or limitations on actions taken with respect to hazardous substances, pollutants, or contaminants.

The analysis and identification of chemical-specific, location-specific, and action-specific ARARs for the selected remedies for the Site follow EPA guidance, including CERCLA Compliance with Other Laws Manual (Interim Final), EPA Office of Solid Waste and Emergency Response (OSWER) Directive 9234.1-01, August 1988 (*EPA, 1988*), and the CERCLA Compliance with Other Laws Manual: Part II, Clean Air Act and Other Environmental Statutes and State Requirements (Interim Final), OSWER Directive 9234.1-02, August 1989 (*EPA, 1989a*). ARARs have not been identified for portions of the Site included in this FS/RAP for which there is no unacceptable risk present based on the risk analysis presented in Section 4.0 (*EPA, 1999*).

5.2 Site Remedial Action Objectives

The RAOs are statements of the general goals of a cleanup. The following RAOs for cleanup at the Site include:

- Protection of human health and the environment;
- Cost-effective cleanup of the Site consistent with their intended land use; specific land use designations are identified in Section 2.3 and shown on Figure 2-1;
- Consistency of the selected remedial alternative for each portion of the Site with the overall redevelopment plans for the Site;
- Recycling or reuse of excavated materials to the extent practicable;
- Compliance with ARARs and TBCs; and
- Preference for permanent (“clean closure”) remedies whenever practicable, cost-effective, and consistent with future land use.

The functional objectives for the Site are to: 1) comply with ARARs, including remediation of groundwater to achieve MCLs; and 2) to reduce potential exposure by controlling the exposure pathway for each of the following redevelopment zones through remediation to CULs identified in the tables presented in Section 4.0.

Zone 1 – Public open space on grade

Soils: Mitigate unacceptable exposure to COC-impacted soils via the following exposure pathways:

- Incidental ingestion;
- Dermal contact; and
- Inhalation of vapors volatilizing into outdoor air.

Groundwater: Achieve MCLs and mitigate unacceptable exposure to COC-impacted groundwater via the following exposure pathway:

- Inhalation of vapors volatilizing into outdoor air.

Zones 2 and 3 – Residential over commercial podium construction, and Residential over podium parking and street level commercial construction

Soils: Mitigate unacceptable exposure to COC-impacted soils via the following exposure pathways:

- Incidental ingestion;
- Dermal contact;
- Inhalation of vapors volatilizing into outdoor air; and
- Inhalation of vapors volatilizing into indoor air.

Groundwater: Achieve MCLs and mitigate unacceptable exposure to COC-impacted groundwater via the following exposure pathways:

- Inhalation of vapors volatilizing into indoor air.

6.0 FEASIBILITY STUDY AND ALTERNATIVES ANALYSIS

This section presents: 1) the remedial technology screening matrix based on contaminated media, redevelopment zone; CULs; and rough development grading requirements; 2) the criteria used to develop and evaluate remedial technologies; 3) the development of remedial action alternatives based on the screening and evaluation; and 4) provides an assessment of remedial alternatives developed for Schlage OU and UPC OU, and rationale for selection of the preferred remedial approach.

6.1 Remedial Technology Screening

This section outlines the range of general response actions to address contamination at the Site, and corresponding remedial technologies that are potentially applicable for the contaminated soil and groundwater at the Site.

To the extent practicable, redevelopment efforts were integrated into the remedial planning for the Site. For example, separate cleanup goals were developed for each type of redevelopment zone and based on anticipated exposure scenarios corresponding to the type of redevelopment. To the extent that redevelopment activities serve to eliminate pathways of exposure to future Site receptors, these activities were integrated into the remedial technology screening and development of remedial alternatives.

6.1.1 General Response Actions

A range of general response actions (GRAs) for which corresponding remedial technologies may be applicable to site conditions were identified for the Schlage and UPC OUs for initial baseline evaluation and comparison purposes under RAP Guidance in Section 6.1.2. The GRAs considered for the Site include: no action, institutional controls, migration controls, ex situ treatment, and in situ treatment approaches. One or more remedial technologies that correspond to the GRAs were then evaluated and compared based on three criteria: 1) effectiveness; 2) implementability; and 3) relative costs.

To refine the range of remedial technologies that would potentially be developed into remedial alternatives for the Site that must undergo detailed analysis, the NCP at 40 CFR §300.430(e)(7) provides the opportunity to initially screen them against the short- and long-term aspects of the following three criteria:

- **Effectiveness:** Alternatives are judged on the degree to which an alternative reduces toxicity, mobility, or volume through treatment, minimizes residual risks and affords long-term protection, complies with ARARs, minimizes short-term impacts, and how quickly it achieves protection. Alternatives providing significantly less effectiveness than other, more promising alternatives may be eliminated. Alternatives that do not provide adequate protection of human health and the environment shall be eliminated from further consideration.
- **Implementability:** This criterion focuses on the technical feasibility and availability of the technologies each alternative would employ, and the administrative feasibility of implementing the alternative. Alternatives that are technically or administratively infeasible, or require equipment, specialists, or facilities that are not available within a reasonable period of time may be eliminated from further consideration.
- **Cost:** Costs of construction and any long-term costs to operate and maintain the alternatives shall be considered. Costs that are grossly excessive compared to the overall effectiveness of

alternatives may be used as a factor to exclude alternatives from further consideration. Alternatives providing effectiveness and implementability comparable to that of another alternative by employing a similar method of treatment or engineering control, but at greater cost, may also be eliminated.

6.1.2 Remedial Technology Screening

This section describes the screening and selection of the range of remedial technologies that are potentially applicable for the contaminated soil, soil gas, and groundwater at the Site.

The Remedial Technology Screening Matrix presented in Table 6-1 was used to guide whether a technology should be retained for further consideration based on: 1) the nature and extent of the current levels of contamination at the Site after previous removal activities and operation of the SVETS and GWETS were conducted as summarized in Section 2.4, and 2) redevelopment zone-specific considerations. In addition, an initial evaluation of remedial technologies potentially applicable for Site groundwater was conducted as part of the development of the *Data Gap Investigation and Treatability Studies Work Plan (MACTEC, 2008a)* summarized in Section 2.4 and presented in Appendix B. The results of the evaluation identified and selected the following in situ groundwater remedial technologies for further evaluation in pilot treatability studies at the Site: 1) Enhanced Reductive Dechlorination; and 2) In Situ Chemical Oxidation.

Land Use Controls (administrative/institutional mechanisms) would be included as components of the remedial action alternatives developed based on the remedial technology screening. These controls may be applicable both within the short term (e.g., to prevent reuse of groundwater until CULs are achieved), and in the long term to: 1) maintain the reuses consistent with the risk exposures assumed in the development of CULs for the preferred remedial actions, and 2) prevent unrestricted reuses of areas where residual contamination may remain.

The following technologies retained from the screening for each OU were then incorporated in the development of remedial action alternatives described in Section 6.3:

- No Action for Soils and Groundwater;
- Monitored Natural Attenuation for Groundwater;
- Land Use Controls for Soils and Groundwater – Restrictions limiting site use to its intended purpose;
- Containment Controls for Soils – Hardscape Capping and Soil Cover Capping;
- Ex Situ Treatment for Soils – Excavation and Offsite Disposal, Excavation and Onsite Treatment and Relocation; and
- In Situ Treatment for Groundwater – Enhanced Reductive Dechlorination and In Situ Chemical Oxidation.

6.2 Remedial Alternatives Evaluation

6.2.1 Description of Evaluation Criteria

Site remedial alternatives were subjected to: 1) a detailed alternative analysis pursuant to the nine criteria of the NCP and the six criteria of Section 2535b.1 of the HSC; and 2) comparative analysis identifying the advantages and disadvantages of each alternative when compared to other alternatives considered for each of the OUs within the Site.

The nine NCP criteria include two threshold, five balancing, and two modifying criteria. For a remedial alternative to be considered an appropriate remedial action, it must meet both threshold criteria. Balancing criteria provide an opportunity to identify and evaluate strengths, weaknesses, and the cost-effectiveness of an alternative. Modifying criteria are evaluated after the public comment period.

This section introduces these criteria. Summaries of the comparative evaluations of alternatives for the remedial action areas included in this FS/RAP are presented in Section 6.4.

The HSC requires that the remedial alternatives be evaluated relative to the following six additional criteria:

- 1 Health and safety risks posed by the site conditions;
- 2 The effect of COCs present on probable present and future uses of contaminated or threatened resources;
- 3 The effect on available groundwater resources for present, future, and probable beneficial uses (treatment alternatives that reduce the volume, toxicity, and mobility of contaminants as opposed to alternatives that use offsite transport and disposal are preferred);
- 4 Site-specific conditions (potential for offsite migration) and existing contaminant background levels;
- 5 Cost-effectiveness, considering the short-term and long-term costs of the remedial action and whether deferral of a remedial action could result in a cost increase or hazard increase to human health or the environment; and
- 6 The potential environmental impacts of the remedial alternative such as land disposal of contaminated material versus treatment to remove or reduce its volume, toxicity, or mobility prior to disposal.

The six HSC criteria are similar to and covered under the nine NCP criteria in this FS/RAP described below.

Threshold Criteria

Overall Protection of Human Health and the Environment - Addresses whether or not a remedy provides adequate protection and describes how risks posed through each exposure pathway are eliminated, reduced, or controlled through treatment, engineering controls, or Land Use Controls (LUCs) (i.e., administrative/institutional controls).

Compliance with ARARs - Addresses whether or not a remedy will meet all appropriate Federal, State and local environmental laws and regulations.

Balancing Criteria

Long-term Effectiveness and Permanence - Considers the ability of a remedy to provide reliable protection of human health and the environment over time once cleanup goals have been achieved.

Reduction of Toxicity, Mobility, and Volume Through Treatment - Evaluates the anticipated performance of the alternative with respect to the reduction of toxicity, mobility, and volume of contaminants. This criterion reflects the preference for treatment of contaminated soil and groundwater as opposed to offsite transport and disposal.

Short-term Effectiveness - Evaluates the period of time needed to complete the remedy, and any adverse impact on human health and the environment that may be posed during the construction and implementation period, until cleanup standards are achieved.

Implementability - Refers to the technical and administrative feasibility of a remedy, including the availability of materials and services needed to implement a remedial option.

Cost - Evaluates the capital, and operations and maintenance (O&M) costs of each alternative. Cost estimates of this type are considered accurate to a range of minus 30% to plus 50%. The reasons for this range are the variability of construction materials, variability in construction costs over time, the complexity of developing site-specific cost factors, and the sensitivity of construction costs to economic factors such as interest rates and materials costs.

Modifying Criteria

These criteria will be addressed during the public review and comment period on this FS/RAP, and will be summarized in the Responsiveness Summary to this FS/RAP.

Regulatory Agency Acceptance - Indicates whether, based on their review of the information, the applicable regulatory agencies would agree with the preferred alternative.

Community Acceptance - The FS/RAP is subject to public review and comment prior to selection of the remedial action alternative. This criterion assesses whether community concerns are addressed by the remedy, and whether or not the community has a preference for a remedy. The final remedies in this FS/RAP will be selected following the public comment period.

6.3 Description of Remedial Action Alternatives

This section describes the remedial action alternatives that were developed based on assembly of the following applicable remedial technologies that passed the initial screening:

| Soil Technologies | Groundwater Technologies |
|--|--|
| No Action | |
| Land Use Controls -- Land Use Covenant and deed restriction with the following prohibitions: <ul style="list-style-type: none"> • No first floor residences or daycare facilities • No hospital or schools • No growing of food • Where concentrations of groundwater COCs are above their MCL, no use of underlying groundwater • No excavation in contaminated soil without a Soil Management Plan and DTSC approval | |
| Capping -- Soil Cover -- Hardscape | Monitored Natural Attenuation / Groundwater Monitoring |
| Excavation -- Onsite Treatment -- Offsite Disposal | In Situ Groundwater Treatment -- In Situ Chemical Oxidation -- Enhanced Reductive Dechlorination |

The following Site-wide remedial action alternatives were developed based on the screening of remedial technologies presented in Section 6.2 and summarized on Table 6-1:

Alternative 1: No Action

Alternative 2: Land Use Controls and Monitored Natural Attenuation for Groundwater

Alternative 3: Excavation, Onsite Treatment, Relocation and Capping for Soils / In Situ Groundwater Treatment and Monitoring

Alternative 4: Excavation and Offsite Disposal for Soils / In Situ Groundwater Treatment and Monitoring.

Alternatives 2, 3, and 4 also include a Land Use Control consisting of a Land Use Covenant and deed restriction with the prohibitions specified above, and described in detail in Section 7.7. These alternatives are described below, and evaluated and compared in Section 6.4 based on the criteria presented in Section 6.2.

6.3.1 Alternative 1—No Action

No additional control or protection of human health and the environment would be implemented for the contamination present at the Site. This alternative is required as a baseline alternative for comparison to other alternatives under RAP Guidance. There is negligible cost associated with this alternative.

6.3.2 Alternative 2—Land Use Controls and Monitored Natural Attenuation

This alternative assumes no active remediation would be implemented, and LUCs would be imposed to prohibit reuses of the Site that would pose a risk. Long term groundwater monitoring would also be performed under a Monitored Natural Attenuation (MNA) program. For costing purposes under EPA Guidance, it assumed groundwater monitoring would be conducted for 30 years (*EPA, 1989c*).

The components of this alternative include the following.

Schlage OU and UPC OU

- Implementation of LUCs to prohibit unrestricted reuse of the property and reuse of groundwater beneath the Site; monitoring and reporting on LUC management; and closure reporting for UPC OU.

Schlage OU

- Long term MNA of the existing monitoring well network of up to 28 wells. Thirty years of groundwater monitoring and periodic reporting based on the currently approved long term monitoring plan (LTM), for the LTM analytes and biological parameters identified in the Data Gap/Treatability Study Investigation presented in Appendix B. For costing purposes, it is assumed that quarterly monitoring would be performed for Years 1 to 10; semi-annual monitoring would be performed for Years 11 to 20; and annual monitoring would be performed for Years 21 to 30.

The total cost of this alternative is estimated at \$1,590,000 (Appendix F).

Monitoring of LUCs would be implemented to confirm that LUCs are performing as intended. Ongoing groundwater monitoring would also be implemented to assess the impacts of COCs on environmental conditions at the Site, and to track concentration trends in groundwater impacted by chemical releases. MNA is defined as follows (*EPA, 1999*):

“...the reliance on natural attenuation processes (within the context of a carefully controlled and monitored site cleanup approach) to achieve site-specific remediation objectives within a time frame that is reasonable compared to that offered by other more active methods. The “natural attenuation processes” that are at work in such a remediation approach include a variety of physical, chemical, or biological processes that, under favorable conditions, act without human intervention to reduce the mass, toxicity, mobility, volume, or concentration of contaminants in soil and groundwater. These in situ processes include biodegradation; dispersion; dilution; sorption; volatilization; radioactive decay; and chemical or biological stabilization, transformation, or destruction of contaminants.”

There is evidence from groundwater monitoring at the Site that natural attenuation of groundwater COCs is occurring (Appendix B). It is assumed that MNA would eventually be capable of achieving RAOs for groundwater at the Site.

A deed restriction would be recorded on the title to the property to prevent human exposures to contaminants left in place in soil and groundwater above levels considered protective of unrestricted use of the Site as described in Section 7.7.

6.3.3 Alternative 3—Excavation and Onsite Treatment, Relocation and Capping for Soils / In Situ Groundwater Treatment and Monitoring

This alternative includes excavation and onsite treatment of approximately 15,000 cubic yards of soil containing CVOC concentrations above CULs within Schlage OU, and excavation and relocation or capping of approximately 22,000 cubic yards of metals-impacted soils containing concentrations above CULs on the UPC OU. Excavated soils that do not meet onsite treatment criteria, or contain hazardous materials for which available capacity is not available under soil cover, hardscape, or roadways, would be transported and disposed offsite at a Class I or Class II permitted landfill facility, depending on concentrations of COCs and acceptance criteria. Groundwater would be treated in situ using ERD. Long term groundwater monitoring would also be performed. A deed restriction would be recorded on the title to the property to prevent human exposures to contaminants left in place in soil and groundwater above levels considered protective of unrestricted use of the Site as described in Section 7.7.

The total estimated cost associated with implementation of this alternative is approximately \$5,438,000, which includes capital costs of \$4,452,000, and O&M costs of \$986,000 (Appendix F).

Soils Remediation

CVOC-Impacted Soils

- Excavation and onsite treatment by aeration for CVOC-impacted soils with concentrations of COCs that exceed soil TRCGs (Section 4.2).
- Relocation of treated CVOC-impacted soils in Zones 1, 2, and 3.

Figure 6-1 presents the location of the planned soil excavation to address CVOC-impacted soils, and the proposed location for onsite soil aeration. Soils would be removed that contain concentrations of COCs above soil TRCGs. Based on the areal dimensions and the planned depths of excavation, it is anticipated that approximately 15,000 cubic yards of soil would require excavation. Excavated soils would be treated onsite using soil aeration techniques, reducing the carbon footprint for handling the soil compared to hauling the soil offsite for disposal. Common mechanical soil aeration methods would be used to agitate the contaminated soil to volatilize CVOCs. Regular tilling of the soil would be the primary method used to aerate the soil within the treatment bed, using equipment commonly used in farming. If determined to be necessary by the remedial design to meet the estimated CULs within the 3 month treatment timeframe, air may also be blown into the treatment bed using slotted piping or other means to increase the flow of air through the soils and accelerate the volatilization of CVOCs.

Design details on soil aeration would be provided in the RDIP. Methods that would be used to aerate the soil are anticipated to include the following:

- The pad surface would be rolled with a vibratory roller to reduce infiltration during aeration.
- A perimeter berm would be constructed to control stormwater runoff and runoff using topsoil, K-rail (jersey barriers), or clean site soil.
- The material to be treated would be placed in the cell in lifts of approximately 2 feet, or at the depth determined in the RDIP required to process the total excavated volume of soil under BAAQMD regulations.

- The material would be regularly aerated using a harrow-type plow with sharp revolving circular blades or similar type of equipment; the frequency would be determined in the RDIP and modified during field activities in order to meet soil CULs.
- Water or wetting agent would be applied as necessary to meet dust monitoring or air monitoring criteria.
- Upon completion of treatment, the material would be relocated to areas where it is suitable for reuse, or compacted in place if material meets reuse criteria at the treatment location.
- The treatment area would be reclaimed as part of site redevelopment.

Based on review of existing Site data, aeration of excavated soil would be effective in treating excavated soils impacted with PCE and TCE. For costing purposes, it is assumed a portion of the 15,000 cubic yards of CVOC soils that will be excavated may contain concentrations of PCE and TCE that exceed the range of concentrations treatable by soil aeration to CULs, and approximately 6,000 cubic yards of soil may be transported and disposed offsite at a permitted landfill facility. Treated soils would be relocated and placed a minimum of 2 feet above the groundwater table; details will be specified in the RDIP.

Metals-Impacted Soils

- Excavation and/or capping of metals-impacted soils with concentrations of COCs that exceed soil CULs (Section 4.1).
- Relocation of excavated soils in Zones 1, 2, and 3.

Figure 2-1 shows the planned redevelopment zones where soil excavated to address metals-impacted soils would be relocated. Soil excavated to address metals-impacted soils would be relocated and placed a minimum of 2 feet above the groundwater table. In areas slated for Zone 1 redevelopment, soils would be placed under a soil cap of minimum 3 foot thickness consistent with the EIR, or under hardscape. Soils may also be placed in Zones 2 and 3 under roadways, hardscape, or a minimum of 1 foot beneath clean utility corridors; details will be specified in the RDIP. Capping of metals-impacted soils will separate it from direct exposure to surface water and the design of the cap will prevent ponding to minimize infiltration.

Figure 3-3 shows the potential area affected by metals contamination in near-surface soils where additional soil sample collection and laboratory analyses are required to confirm XRF indications of elevated arsenic and lead. Based on the areal dimensions and the depths of potential metals-impacted soils, it is anticipated that approximately 22,000 cubic yards of soil could require mitigation by capping, or targeted excavation and relocation, and capping. The RDIP will describe the sampling procedures to define the limit of excavation. Localized hotspots of metals-impacted soils may be excavated and removed from the UPC OU based on measured concentrations.

Offsite Disposal of Excavated Soils

A portion of excavated soils may also be transported and disposed offsite at a permitted Class I or Class II landfill facility if: (1) it does not meet onsite aeration treatment criteria (i.e., TRCGs) within the anticipated timeframe of 3 months, and/or (2) although not anticipated, if hazardous materials are identified, and available capacity is not available onsite for placement under soil cover, hardscape, or

roadways. Soils that contain concentrations of COCs meeting Class I landfill acceptance criteria would be transported and disposed offsite at the Kettleman Hills Facility in Kettleman City, California, or other approved disposal sites. Soils that contain concentrations of COCs meeting Class II landfill acceptance criteria would be transported and disposed offsite at either the Allied Waste Forward Landfill Facility in Manteca, California, or the Clean Harbor Landfill in Kettleman City, California, or other approved disposal sites.

Groundwater Remediation

A-Zone Groundwater

- In situ treatment by ERD for CVOC-impacted groundwater in the Upper A-Zone and Lower A-Zone (A-Zone) aquifer to concentrations below groundwater CULs (MCLs) (Section 4.1).
- Long term groundwater monitoring. For costing purposes under EPA Guidance, it assumed groundwater monitoring would be conducted for 30 years (*EPA, 1989c*).

Appendix B presents the results of the pilot treatability studies conducted at the Site, which indicate a relatively low efficiency of ISCO at the Site, and current data on the ERD pilot tests continue to demonstrate the on-going dechlorination is occurring. Therefore, groundwater remediation by in situ ERD is identified as the preferred remedial technology for CVOCs in groundwater in the A-Zone aquifer. Figure 6-2 presents the layout of planned injection points of electron donor reagents (e.g., lactate). The RDIP would present the design details for implementation of ERD, which is anticipated to consist of the following:

- Injection points: A total of approximately 300 to 400 injection points would be used to inject lactate. Based on the radius of influence (ROI) of approximately 10 to 30 feet estimated from the ERD pilot tests, the injection points would be spaced 20 to 30 feet apart along the direction perpendicular to groundwater flow, and the distance between the upgradient and downgradient injection points (i.e., along the groundwater flow direction) would be approximately 50 to 60 feet. This distance is estimated based on a residence time for lactate-enhanced biodegradation of 4 to 6 months according to the pilot test results and under the average groundwater flow conditions.
- Dosage of electron donors: Based on the CVOC concentrations detected in May 2009 and stoichiometric calculations, it is anticipated a total volume of approximately 375,000 to 625,000 gallons of a 60% lactate solution would be injected; approximately 1,250 to 2,100 gallons through each injection point.
- Injection schedule: Given the designed residence time described above, the anticipated injection schedule is to initially perform two injection events scheduled once every 4 to 6 months. However, up to 3 or 4 injection events and/or modifications to the number of injection points and dosage may be warranted as part of the final implementation, based on field observations and groundwater monitoring results indicating the establishment of reductive groundwater conditions.
- Post-injection groundwater monitoring: The performance of the system would be monitored with regards to achieving remedial action objectives and the need for system modifications. It is assumed that any system modifications identified as necessary would be performed within 6 months after injection based on the first several months of weekly or bi-weekly groundwater monitoring results, including key field parameters such as pH, oxidation reduction potential (ORP), and dissolved oxygen (DO), and/or total organic carbon (TOC). For cost estimating

purposes, it is assumed that approximately 6 months after the injection when the system modifications are completed, post-injection performance groundwater monitoring would be conducted bi-monthly for Months 7 to 12, quarterly for Years 1 to 2; semi-annually for Years 3 to 6; and annually for Years 7 to 30. CVOCs and dechlorination products would be monitored to determine the treatment effectiveness. Supplemental analyses, including TOC, electron acceptors, and field geochemical parameters, would also be collected and analyzed as part of in situ treatment performance monitoring.

This proposed approach to remediate the contaminated A-Zone groundwater at the Site using in situ ERD treatment is based on the current available information regarding observed concentrations of CVOCs and pilot test results. Details on full-scale field implementation of the proposed approach would be provided in the RDIP.

B-Zone Groundwater

Figure 6-3 shows the combined CVOC (PCE, TCE, cis-1,2-DCE, VC) concentrations of five wells screened within the B-Zone since December 2004. B-Zone wells omitted from the figure have been sampled only intermittently (< 5 times) since 2005. A generally decreasing trend is evident in most wells plotted in Figure 6-3. Concentrations at SW-12B were generally stable between 2005 and 2008, but have been in decline since February 2008.

The hydrogeology of the B-Zone aquifer makes it unsuitable for an in-situ remediation option such as the ERD proposed for the A-Zone. Figure 2-3 shows the piezometric surface of the B-Zone that is approximately 10 feet above the current ground surface of the Site. Fluid pressure in injection boreholes would have to be overcome by the injection rig to ensure effective distribution of the injectant in the aquifer. Additionally, heaving sands flowing up the injection borehole, as was experienced during the installation of well MEC-13LA, are also likely to occur, impeding effectiveness of injection efforts within the B-Zone aquifer. The artesian conditions of the B-Zone make injection of a remedial compound technically impractical.

For these reasons, Monitored Natural Attenuation (MNA) is the selected remedial option for the B-Zone CVOC plume. Data from continued quarterly monitoring of the B-Zone wells will be evaluated to assess the effectiveness of the following factors in remediating the CVOC plume in the B-Zone: (1) source removal of CVOC-impacted soils; (2) ERD remediation in the A-Zone; and (3) MNA. A formal assessment will occur at the first five-year review.

Groundwater Remediation Operation and Maintenance

An operation and maintenance (O&M) Plan for the groundwater remediation system will be prepared after initial implementation of the remedy described in the RDIP. The O&M Plan will include a description of the:

- ERD injection system performance groundwater monitoring program for A-Zone groundwater;
- Long term monitoring program of the A-Zone and B-Zone groundwater for a period of 30 years assumed for costing purposes;
- Annual evaluation reporting on the system performance, and 5-year reviews if necessary based on the timeframe required to achieve MCLs; and

- Contingency Plan that would be implemented if system performance evaluations indicate modifications are required to the ERD injection approach described in the RDIP.

6.3.4 Alternative 4—Excavation and Offsite Disposal for Soils / In Situ Groundwater Treatment and Monitoring

This alternative includes excavation and offsite disposal of approximately 37,000 cubic yards of soil containing COCs above CULs, and in situ treatment of groundwater using ERD as described under Alternative 3. Excavated soils would be transported and disposed at an offsite, permitted waste management facility. The excavated areas would be backfilled with a combination of clean, imported backfill soils and clean overburden from excavations. Groundwater would be treated in situ using ERD, and long term groundwater monitoring would be conducted.

The total estimated cost associated with implementation of this alternative is approximately \$10,302,000, which includes capital costs of \$9,317,000, and O&M costs of \$986,000 (Appendix F).

Soils Remediation

Schlage OU Soils

- Excavation and offsite disposal for CVOC-impacted soils with concentrations of COCs that exceed soil TRCGs (Section 4.2).
- Excavation and offsite disposal for metals-impacted soils with concentrations of COCs that exceed soil CULs (Section 4.1).

Figure 6-1 presents the location of the planned soil excavation to address CVOC-impacted soils. Excavated soils would be transported and disposed offsite at a permitted landfill facility. Based on the areal dimensions and the planned depths of excavation, it is anticipated that approximately 15,000 cubic yards of soil would require excavation and offsite disposal.

UPC OU Soils

- Excavation and offsite disposal of metals-impacted soils with concentrations of COCs that exceed soil CULs (Section 4.1).

Figure 3-3 presents the location of the area where near-surface metals-impacted soils have been identified at the UPC OU. Soils impacted with metals above CULs would be excavated, transported, and disposed offsite at a permitted landfill facility. Data indicates that there would be exceedances of lead and arsenic in the northeastern portion of the OU. Figure 3-3 shows the potential area anticipated to be limited in depth to near-surface, shallow soils that is affected by metals contamination in soils. Additional soil sample collection and laboratory analyses is required to confirm XRF indications of elevated arsenic and lead in near-surface soil. Based on the areal dimensions and the depths of potential metals-impacted soils, it is anticipated that approximately 22,000 cubic yards of soil could require excavation and offsite disposal.

Groundwater Remediation

Schlage OU Groundwater

As described under Alternative 3, A-Zone groundwater would be treated in situ by ERD for CVOC-impacted groundwater, and long term groundwater monitoring would be conducted for A-Zone and B-Zone groundwater.

6.4 Summary Evaluation and Comparative Analysis of Remedial Action Alternatives

The four remedial alternatives identified in Section 6.3 were assessed using the nine NCP criteria for CERCLA sites established by EPA (EPA, 1989c) and additional California HSC criteria, as introduced in Section 6.2. A summary of the alternative evaluation and comparison is included below and presented on Table 6-2.

Threshold Criteria

Overall Protection of Human Health and the Environment, and Compliance with ARARs

Alternatives 1 and 2 would not provide for protection of human health and the environment nor meet RAOs or comply with ARARs; therefore, these alternatives could not be selected. Alternatives 3 and 4 would meet both threshold criteria.

Balancing Criteria

Reduction of Toxicity, Mobility, and Volume

Alternatives 1 and 2 would not reduce the toxicity, mobility, or volume of contaminants in soil or groundwater. Alternative 3 would reduce the toxicity, mobility, and volume of CVOC contaminants in soil and groundwater, and would reduce the mobility of metals contaminants in soil because they would be isolated beneath a cap of soil cover or hardscape. Although Alternative 4 would reduce the toxicity, mobility, and volume of contaminants in soil at the Site, the bulk of the contaminated soil would merely be transferred to a permitted landfill facility. CVOCs in groundwater would be treated below CULs.

Long Term Effectiveness and Permanence

Alternative 1 would not prevent exposures in the long term, because no action would be taken to mitigate site risks. Alternative 2 would prevent exposures in the long term by maintaining a LUC, and performing long-term groundwater monitoring under the MNA program and periodic reviews of its protectiveness; however, it would not be consistent with the future and planned site uses. Alternative 3 would offer long-term effectiveness and permanence because impacted soils would be remediated and relocated, or capped onsite in compliance with zone-specific exposure assumptions and CUL requirements, and groundwater would be remediated below CULs. Alternative 4 would offer long-term effectiveness and permanence because impacted soils would be removed and transferred offsite in compliance with Zone-specific exposure assumptions and CUL requirements, and groundwater would be remediated below CULs.

Short Term Effectiveness

Alternatives 1 and 2 would not be effective in the short term. For Alternatives 3 and 4, the period of time needed to complete the remedy would be similar, and short term protectiveness would be provided by

implementing measures to protect remedial construction workers, and through Occupational Safety and Health Administration (OSHA) work standards during excavation, onsite treatment, and relocation and capping (Alternative 3), and excavation and offsite disposal (Alternative 4), respectively.

Implementability

All Alternatives are readily implementable from a technical and administrative feasibility perspective. However, Alternative 2 would be easier to implement from a technical perspective than Alternatives 3 and 4 because it only involves administrative action for implementing the LUC and long term monitoring of groundwater and reporting, compared to excavation of soils and in situ treatment of groundwater under Alternatives 3 and 4, and onsite treatment of soils under Alternative 3.

Cost

Of the two remedial alternatives that are protective of human health and the environment, Alternative 3 (\$5,438,000) has a significantly lower total associated cost than Alternative 4 (\$10,302,000) (Appendix F).

Modifying Criteria

Regulatory Agency and Community Acceptance

Formal assessment of regulatory agency and community acceptance will be considered during the public comment period on this FS/RAP, and documented in the final FS/RAP.

Additional HSC Criteria

Alternatives 1 and 2 do not meet several California HSC criteria, including the health and safety risks posed by contamination at the Site and the effect of contamination on future uses of the Site.

Alternative 3 would likely meet all California HSC criteria, and Alternative 4 would likely meet all criteria except for reduction of toxicity, mobility, and volume of contaminants. Alternative 4 would also result in offsite environmental impacts due to hauling and transportation of soil to an offsite landfill facility.

7.0 PREFERRED REMEDIAL APPROACH

This section provides an overview of the implementation activities for the preferred remedial approach. Based on the evaluation and comparison of the four alternatives, *Alternative 3: Excavation and Onsite Treatment, Relocation and Capping for Soils, and In Situ Groundwater Treatment and Monitoring* is the preferred alternative.

This section is organized by remedial activity as follows:

- Excavation and onsite treatment, relocation, and capping;
- Soil confirmation sampling;
- Soil gas confirmation sampling;
- In situ remediation of CVOC-impacted groundwater;
- Groundwater monitoring;
- Operation and Maintenance of Groundwater Remediation System, and
- Land Use Controls.

Specific information regarding the pre-construction activities, excavation of soils, stockpiling and staging of soils, haul roads, traffic control elements, air monitoring programs, erosion control measures, and other details regarding the preferred remedial approach will be set forth in the RDIP and O&M plans. If additional impacted soils are discovered during Site demolition or grading activities, appropriate management and characterization of impacted soils will be conducted. Although not anticipated, if any hazardous materials are identified onsite, they will either be: (1) relocated under areas slated for Zone 1 redevelopment under a soil cap of minimum 3-foot thickness consistent with the EIR; (2) placed in Zones 2 and 3 under roadways; or (3) excavated and disposed offsite.

7.1 Excavation and Onsite Treatment and Relocation of Soils

Excavation, Onsite Treatment, and Relocation of CVOC-Impacted Soils

Figure 6-1 presents the location of the planned soil excavation to address CVOC-impacted soils and proposed onsite soil aeration treatment area.

The dimensions of the planned soil excavation are such that CVOCs in soil that exist at concentrations above Soil TRCGs will be removed. If the dimensions of the planned excavation are expanded to the southeast during implementation based on soil or soil gas confirmation sampling results, the excavation will not extend into the area where a previous soil removal action was conducted around the former oil/water separator (*B&M and T&R 2005, B&M, 2006b*). Any soil contamination identified in this area would be addressed under the UPC Brisbane project.

Excavated soils will be treated onsite using soil aeration techniques (Figure 6-1). Design details on soil aeration will be provided in the RDIP. Based on review of existing Site data, aeration of excavated soil

will be effective in treating the majority of excavated soils impacted with PCE and TCE through use of ambient aeration methods such as tilling, disking, and air injection.

Onsite soil aeration will be performed under the applicable rules and regulations of the BAAQMD, and in accordance with the *Draft Dust and Air Quality Monitoring Plan (MACTEC, 2009c)*.

Once PCE and TCE concentrations are lowered below the soil TRCGs through soil aeration techniques, the treated soil can be backfilled into excavations and relocated onsite. Prior to relocation of treated soil, soil samples will be collected at the frequency noted in the *DTSC's Information Advisory, Clean Imported Fill* of 12 samples for the first 5,000 cubic yards, and one sample per each additional 1,000 cubic yards (*DTSC, 2001*). The collected soil samples will be tested for CVOCs by EPA 8010 and compared to their respective soil TRCGs (Section 4.2).

Prior to initiating site development, in accordance with current DTSC requirements, confirmation soil gas sampling will be conducted to confirm that the CVOC concentrations in soil gas are below CULs.

Soils that do not meet onsite aeration treatment criteria (i.e., TRCGs) within the anticipated timeframe of 3 months or contain hazardous materials would be transported and disposed offsite at a Class I (Kettleman Hills Facility) or Class II (Allied Waste Forward Landfill or Clean Harbor Landfill) or other approved disposal sites, depending on concentrations of COCs and acceptance criteria.

Excavation and Relocation or Capping of Metals-Impacted Soils

Figure 3-3 presents the location of the isolated areas containing near-surface metals-impacted soils within the Schlage OU, and the location of soil anticipated to be limited in depth to near-surface, shallow soils that is potentially impacted by elevated concentrations of metals at the UPC OU. Within the UPC OU, additional soil sample collection and laboratory analyses are required to confirm XRF indications of elevated arsenic and lead. Based on the areal dimensions and the depths of potential metals-impacted soils, it is anticipated that approximately 22,000 cubic yards of soil could require mitigation by capping, or targeted excavation and relocation, and capping. The RDIP will describe the sampling procedures to define the limit of excavation. Localized hotspots of metals-impacted soils may be excavated and removed from the UPC OU based on measured concentrations.

Figure 2-1 shows the planned redevelopment zones where soil excavated to address metals-impacted soils will be relocated and placed a minimum of 2 feet above the groundwater table. In areas slated for Zone 1 redevelopment, soils will be placed under a soil cap of minimum 3-foot thickness consistent with the EIR. Soils may also be placed in Zones 2 and 3 under roadways, hardscape, or a minimum of 1 foot beneath clean utility corridors; details will be specified in the RDIP.

Due to the assumed presence of lead and arsenic in near-surface soil, additional samples will be collected to refine the extent of soils to be excavated prior to design of soil relocation and/or capping activities. Following receipt of analytical results for near-surface metals, a comparison of the volume of impacted soil to the volume of available fill space in Redevelopment Zone 1 will be completed, taking into consideration the volume of treated CVOC-impacted soils that is also slated to be relocated to this zone. The additional metals-impacted soils with concentrations exceeding soil CULs (Section 4.1) at UPC OU that are outside the limits of hardscape areas will be capped with landscaping or relocated for placement underneath the hardscape areas.

Soils that do not meet CULs or contain hazardous materials and for which available capacity is not available onsite under cover, hardscape, or roadways would be transported and disposed offsite at a

Class I (Kettleman Hills Facility) or Class II (Allied Waste Forward Landfill or Clean Harbor Landfill), or other approved disposal sites, depending on concentrations of COCs and acceptance criteria.

Confirmation Sampling Strategy

CVOCs in Soil, Soil Gas, and Groundwater

Confirmation sampling will be performed to determine that CULs for CVOCs in soil, soil gas, and groundwater have been met according to the following sequence of field activities and sampling strategy that will be described in detail in the RDIP:

1. Soil confirmation sampling in excavations to verify soil TRCGs have been met;
2. Backfilling the excavation with treated soil;
3. Soil gas confirmation sampling in backfilled areas to verify soil gas CULs have been met;
4. In situ treatment using ERD;
5. Groundwater monitoring to verify when groundwater TRCGs have been met and redevelopment activities can be initiated; and
6. Long term groundwater monitoring to verify when groundwater CULs (MCLs) have been met.

Metals in Soil

Confirmation sampling will be performed to determine that CULs for metals in soil have been met according to the following sequence of field activities and sampling strategy that will be described in detail in the RDIP:

1. Soil confirmation sampling in excavations to verify soil CULs have been met;
2. Backfilling the excavation with clean soil, or
3. Placement of soil beneath hardscape and/or a minimum of 3 feet of clean cover over soils in designated zones, consistent with the EIR.

7.2 Soil Confirmation Sampling Program

Soil confirmation sampling activities will be conducted as part of the excavation and removal of COC-impacted soils at each remedial action area. Confirmation sampling will be performed to verify concentrations of COCs in soil are below soil CULs for metals (Section 4.1) and soil TRCGs for CVOCs (Section 4.2), and will be applied according to the methodology presented in Section 4.3.

All confirmation samples, including Quality Assurance/Quality Control (QA/QC) samples (e.g., duplicates, equipment blanks), will be collected and analyzed in accordance with the Quality Assurance Project Plan (QAPP) for the Site (MACTEC, 2008b).

Two types of confirmation samples may be collected:

- **Bottom samples:** collected from the floor or bottom of all excavations; and

- Sidewall samples: collected from the sidewalls midway between the ground surface and the excavation bottom.

Based on the estimated size of the site excavation areas, a sampling grid with a cell size of 50 feet by 50 feet will be used to guide the collection of excavation bottom and sidewall samples. Therefore, the on center spacing of the bottom samples and sidewall samples will be 50 feet. The samples will be analyzed for site-specific COCs. Details of the sampling and analysis approach will be described in the RDIP.

7.3 Soil Gas Confirmation Sampling Program

After CVOC-impacted soils have been excavated and treated onsite, and the excavation has been backfilled with treated soils and prior to initiating Site redevelopment, soil gas confirmation sampling will be conducted to confirm soil gas CULs have been met. Soil gas sampling will be conducted on a sampling grid in accordance with the protocols presented in *Advisory—Active Soil Gas Investigations (DTSC, 2003)*. The collected samples will be tested for CVOC COCs by Toxic Organics (TO) Test Method and compared with soil gas CULs (Section 4.1), which will be applied according to the methodology presented in Section 4.3. The sampling will be conducted at 5 feet below rough development grade in accordance with the protocols presented in *Advisory—Active Soil Gas Investigations (DTSC, 2003)*.

It is anticipated that soil gas sampling at the Site will be conducted in a phased manner to document confirmation of completion of remedial activities and facilitate redevelopment that is anticipated to occur in a phased manner. Details of the sampling and analysis approach will be described in the RDIP.

7.4 In Situ Groundwater Remediation

The purpose of in situ remediation activities is to reduce CVOC concentrations in groundwater to below CULs (Section 4.1). Groundwater TRCGs were developed that are protective of site receptors so the progress of groundwater remedial actions can be assessed to identify when redevelopment activities can be initiated (Section 4.2). Groundwater remedial actions will be planned and implemented to achieve groundwater CULs (MCLs); however, the TRCGs will be achieved within a shorter timeframe that will allow redevelopment activities to be initiated.

In situ treatment by ERD for CVOC-impacted A-Zone groundwater is the preferred groundwater remedial action. It is anticipated that several injections may be necessary to reduce CVOC concentrations in groundwater below CULs. The RDIP will specify the type and volume of injectant, number of injection points, and depth intervals. Injection will be performed under the oversight of a California Registered Professional Engineer (P.E.) or Professional Geologist (P.G.), and a responsible/competent person will be onsite to provide direction to the injection contractor based on observed field conditions. If there are observed releases coming from the subsurface, injection activities will be stopped and necessary adjustments to the injection methods will be made.

Based on the results of the pilot scale ERD treatability study, a favorable response to lactate injection was observed in well MEC-13UA, located 30 feet downgradient of the injection array, demonstrated by: 1) increases in TOC concentrations; 2) reductions in non-target electron acceptor concentrations (e.g., dissolved oxygen, nitrate, and sulfate); and 3) declines in PCE and TCE concentrations. The results of the pilot scale treatability study indicates that injection of 20% sodium lactate has been successful in breaking down PCE and TCE into cis-1,2-DCE and VC. However, complete dechlorination of cis-1,2-DCE and VC has not yet been fully demonstrated. If complete breakdown of these products is not observed

through continued groundwater sampling in the pilot study area, a more persistent donor source such as soybean oil and/or microbial enhancement may be required.

This proposed approach to remediate the contaminated groundwater at the Site is based on the current available information regarding observed concentrations of CVOCs and pilot test results. Full-scale field implementation of the proposed approach should be flexible and allow for modifications if necessary as outlined below:

- **Modifications to the injection grid, the delivery frequency, and mass of injected reagents of electron donors:** The refinement of the injection points within the groundwater hot-spot area and readjustment of the injection points at locations where concentrations of CVOCs are below MCLs will be updated if new information is available at the time of implementation. Timely modifications in the reagent delivery and injection frequency should be tied to regular monitoring in the remediation zone.
- **Application of bioaugmentation:** Although significant degradation of PCE and TCE to DCE and VC have been observed in the ERD pilot test, the final step from VC to ethene in the sequential dechlorination process does not appear to be proceeding at a measurable rate, likely due to an insufficient population of dehalococoides bacteria (*Dhcs*) including vinyl chloride reductase (VCR). While it is possible that native microbial populations may in time evolve a more significant VCR fraction that will aid in the process of degrading VC into ethene, the timeframe for VC to degrade to concentrations below MCLs is unknown based on current data, and could exceed the four year estimates for degradation of PCE and TCE to concentrations below MCLs. Therefore, bacteria capable of sustained degradation and dechlorination of VC may be injected into the subsurface as part of the ERD to accelerate the process of degrading VC to ethene. Based on preliminary research and information provided by vendors of microorganisms, bioaugmentation has been successfully applied at several Bay Area sites with similar conditions, and would likely be applicable at the Site. Assessment of the feasibility of applying bioaugmentation during ERD treatment at the Site will be presented in the RDIP.

7.5 Groundwater Monitoring Program

Groundwater monitoring will be performed in accordance with the DTSC approved long term groundwater monitoring plan (*MACTEC, 2008e*). Supplemental analyses, including TOC, electron acceptors, field geochemical parameters, and Dhc, will also be collected and analyzed as part of in situ treatment performance monitoring. The well network and frequency of the supplemental analyses will be presented in the RDIP.

Groundwater monitoring data will be used to evaluate the effectiveness of remedial activities and progress toward RAOs. The status of site remediation will be reviewed in groundwater monitoring reports to be submitted to the DTSC. It is assumed that post-injection performance groundwater monitoring will be conducted quarterly for Years 1 to 2; semi-annually for Years 3 to 6; and annually for Years 7 to 30.

7.6 Operation and Maintenance of Groundwater Remediation System

An operation and maintenance (O&M) Plan for the groundwater remediation system will be prepared after initial implementation of the remedy described in the RDIP. The O&M Plan will include a description of the:

- ERD injection system performance groundwater monitoring program for A-Zone groundwater;

- Long term monitoring program of the A-Zone and B-Zone groundwater for a period of 30 years assumed for costing purposes;
- Annual evaluation reporting on the system performance, and 5-year reviews if necessary based on the timeframe required to achieve MCLs; and
- Contingency Plan that would be implemented if system performance evaluations indicate modifications are required to the ERD injection approach described in the RDIP.

As set forth in the Consent Order (DTSC, 2008), an O&M Plan would be prepared which describes the ongoing operation and maintenance of the remedy described in the RDIP. Within thirty (30) days of the date of DTSC's request, an O&M Plan that includes an implementation schedule would be prepared and submitted to DTSC for approval. Upon approval of the O&M Plan, an O&M Agreement, including Financial Assurance pursuant to California Health and Safety Code section 25355.2, would be signed between DTSC and the entity responsible for conducting the O&M. The financial assurance mechanisms shall meet the requirements of Health and Safety Code section 25355.2, and are subject to the review and approval of DTSC.

7.7 Land Use Controls

A LUC consisting of a State Land Use Covenant and a deed restriction will be recorded on the title to the property to limit human exposures for contaminants left in place in soil above levels considered protective of unrestricted use of the Site. If contamination remains in soils below CULs but above unrestricted residential use levels, a deed restriction will be implemented that specifies the following prohibitions:

- No first floor residences or daycare facilities;
- No hospital or schools;
- No growing of food;
- Where concentrations of groundwater COCs are above their MCL, no use of underlying groundwater; and
- No excavation in contaminated soil without a Soil Management Plan and DTSC approval.

For areas where metals remain above unrestricted levels a deed restriction would be recorded which would contain the following requirements/restrictions:

- The Owner shall provide written notice to the Department not later than thirty (30) days after any conveyance of any ownership interest in the Property (excluding Leases, and mortgages, liens, and other non-possessory encumbrances).
- The Covenant shall be incorporated by reference in each and every deed and Lease for any portion of the Property.
- The Owner agrees to pay the Department's costs in administering the Covenant.

Soil Management

- No activities that will disturb the soil at or below 3 feet below grade (e.g., excavation, grading, removal, trenching, filling, earth movement, mining, or drilling) shall be allowed on the Property without a Soil Management Plan approved by the Department in advance.
- Any contaminated soils brought to the surface by grading, excavation, trenching or backfilling shall be managed in accordance with all applicable provisions of state and federal law.

Non-Interference with Cap

- Activities that may disturb the Cap (e.g., excavation, grading, removal, trenching, filling, earth movement, or mining) shall not be permitted on the Capped Property without prior written approval by the Department.
- All uses and development of the Capped Property shall preserve the integrity or effectiveness of the Cap.
- The Cap shall not be altered without prior written approval by the Department.

The Department shall have reasonable right of entry and access to the Property for inspection, monitoring, and other activities consistent with the purposes of this Covenant as deemed necessary by the Department in order to protect the public health or safety, or the environment.

The Owner shall conduct an annual inspection of the Property verifying compliance with this Covenant, and shall submit an annual inspection report to the Department for its approval by January 15th of each year.

As set forth in the Consent Order (*DTSC, 2008*), an O&M Plan would be prepared which describes the ongoing operation and maintenance of the remedy described in the RDIP. Within thirty (30) days of the date of DTSC's request, an O&M Plan that includes an implementation schedule would be prepared and submitted to DTSC for approval. Upon approval of the O&M Plan, an O&M Agreement, including Financial Assurance pursuant to California Health and Safety Code section 25355.2, would be signed between DTSC and the entity responsible for conducting the O&M. The financial assurance mechanisms shall meet the requirements of Health and Safety Code section 25355.2, and are subject to the review and approval of DTSC.

8.0 SCHEDULE

The schedule for project implementation will be presented for review and comment by the DTSC.

| Task | Schedule |
|---|-----------------|
| FS/RAP Approval | Fall 2009 |
| Remedial Design and Permitting | Fall 2009 |
| Soil Excavation | Fall 2009 |
| Onsite Soil Aeration and Relocation/Capping | Fall 2009 |
| In Situ Soil Gas Confirmation Sampling North of Visitacion Avenue in Schlage OU | Winter 2010 |
| In Situ Groundwater Remediation | Winter 2010 |
| In Situ Soil Gas Confirmation Sampling Between Visitacion Avenue and Sunnydale Avenue in Schlage OU | Spring 2010 |
| In Situ Soil Gas Confirmation Sampling for Groundwater Remedial Unit in the Schlage OU | Spring 2011 |
| Long Term Groundwater Monitoring | 2009 - 2039 |

9.0 REFERENCES

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TABLES

Table 2-1. Monitoring Well Construction Details

| Well Name | Installation Date | Water Bearing Zone Screened | Easting | Northing | Top of Casing Elevation (ft MSL) | Ground Surface Elevation (ft MSL) | Casing Diameter (inches) | Total Well Depth | Total Boring Depth (ft bgs) | Screened Interval (ft bgs) |
|-----------|-------------------|-----------------------------|------------|------------|----------------------------------|-----------------------------------|--------------------------|------------------|-----------------------------|----------------------------|
| BMW-1 | 1/6/2006 | Lower A | 6011422.01 | 2085618.60 | 17.25 | -- | 2 | 55 | 58.4 | 45-55 |
| BMW-2 | 1/6/2006 | Lower A | 6011343.04 | 2085368.96 | 15.62 | -- | 2 | 59 | 60.9 | 49-59 |
| GT-1 | -- | B | 6010959.38 | 2085707.68 | 11.97 | 9.39 | -- | 143 | 143 | 118-143 |
| GT-2 | -- | Lower A | 6011203.95 | 2084989.53 | 11.66 | 9.16 | -- | 40 | 40 | 25-40 |
| GT-3 | 12/28/1993 | Lower A | 6010665.54 | 2086181.08 | 14.39 | 11.89 | 4 | 43 | 43 | 28-43 |
| GT-4 | -- | Lower A | 6010919.59 | 2086698.19 | 23.36 | 23.86 | 4 | 43 | 43 | 28-43 |
| GWE-1 | 11/22/1993 | Upper A | 6010968.67 | 2085814.49 | 9.92 | 10.00 | 5 | 13 | 13 | 4-13 |
| GWE-2 | 11/22/1993 | Upper A | 6011054.44 | 2085490.49 | 7.16 | 7.80 | 5 | 9 | 9 | 4-9 |
| GWE-3 | 11/22/1993 | Upper A | 6010888.14 | 2085241.31 | 8.58 | 9.17 | 5 | 16 | 16 | 5-16 |
| GWE-4 | 11/22/1993 | Upper A | 6010847.46 | 2085508.23 | 8.08 | 9.00 | 5 | 16 | 16 | 5-16 |
| GWE-5 | -- | Upper A | 6010721.00 | 2085963.57 | 9.58 | 9.70 | -- | 16 | 16 | 5-16 |
| GWE-6 | 11/30/1993 | Lower A | 6010853.93 | 2086055.64 | 14.95 | 16.03 | 4 | 41 | 41 | 26-41 |
| GWE-7 | 11/29/1993 | Lower A | 6010957.24 | 2086024.05 | 12.08 | 12.65 | 4 | 40 | 40 | 30-40 |
| GWE-8 | 11/23/1993 | Lower A | 6011110.73 | 2086099.77 | 14.40 | 15.51 | 4 | 42 | 42 | 27-42 |
| LF-10A | 4/27/1990 | Upper A | 6011158.42 | 2086132.70 | 16.51 | 20.03 | 2 | 13 | 45 | 8-13 |
| LF-10B | 5/15/1990 | Lower A | 6011137.68 | 2086223.46 | 16.35 | 19.99 | 2 | 44 | 45 | 34-44 |
| LF-11A | 10/31/1990 | Lower A | 6010984.54 | 2086223.46 | 18.68 | 20.00 | 2 | 20 | 20 | 10-20 |
| LF-11B | 11/14/1990 | B | 6010976.08 | 2086718.11 | 25.44 | 22.00 | 2 | 65 | 65 | 55-65 |
| LF-12A | 10/31/1990 | Lower A | 6011118.20 | 2086583.16 | 23.39 | 23.00 | 2 | 23.5 | 23.5 | 13.5-23.5 |
| LF-12B | -- | B | 6011272.81 | 2086551.81 | 22.19 | 23.00 | -- | 52.5 | -- | 42.5-52.5 |
| LF-1AR | -- | Upper A | -- | -- | -- | -- | -- | -- | -- | -- |
| LF-2B | -- | Lower A | 6010966.74 | 2085570.84 | 11.58 | 9.00 | -- | 44 | 44 | 33-44 |
| LF-9A | 4/27/1990 | Upper A | 6010834.11 | 2086115.70 | 15.83 | 16.50 | 2 | 20 | 20 | 10-20 |
| LF-9B | 5/16/1990 | Lower A | 6010835.46 | 2086115.11 | 15.95 | 16.50 | 2 | 43 | 45 | 33-43 |
| LF-9C | 10/8/1990 | B | 6010853.84 | 2086107.71 | 16.04 | 16.29 | 2 | 82 | 82 | 72-82 |
| MEC-10LA | 8/1/2008 | Lower A | 6011140.85 | 2086162.23 | 15.86 | 16.28 | 2 | 43 | 43 | 33-43 |
| MEC-10UA | 8/1/2008 | Upper A | 6011143.39 | 2086154.47 | 15.91 | 16.19 | 2 | 18 | 18 | 8-18 |
| MEC-11UA | 8/4/2008 | Upper A | 6011473.21 | 2086960.89 | 23.58 | 23.79 | 2 | 16 | 16 | 6-16 |
| MEC-12LA | 7/31/2008 | Lower A | 6011167.82 | 2086463.41 | 21.41 | 21.64 | 2 | 40 | 40 | 35-40 |
| MEC-12UA | 7/31/2008 | Upper A | 6011170.65 | 2086469.93 | 21.19 | 21.67 | 2 | 15 | 20 | 15-20 |
| MEC-13LA | 8/4/2008 | Lower A | 6011155.69 | 2086429.99 | 21.31 | 21.52 | 2 | 55 | 55 | 50-55 |
| MEC-13UA | 7/31/2008 | Upper A | 6011157.37 | 2086435.52 | 20.91 | 21.60 | 2 | 35 | 35 | 15-35 |
| MK-1A | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MK-2A | 1/13/1986 | Upper A | 6010203.07 | 2084851.62 | 12.96 | 9.83 | 2 | 13 | 13 | 3-13 |
| MK-3B | -- | Lower A | 6010527.68 | 2085607.89 | 8.75 | 9.04 | -- | 43 | -- | 33-43 |

Table 2-1. Monitoring Well Construction Details

| Well Name | Installation Date | Water Bearing Zone Screened | Easting | Northing | Top of Casing Elevation (ft MSL) | Ground Surface Elevation (ft MSL) | Casing Diameter (inches) | Total Well Depth | Total Boring Depth (ft bgs) | Screened Interval (ft bgs) |
|-----------|-------------------|-----------------------------|------------|------------|----------------------------------|-----------------------------------|--------------------------|------------------|-----------------------------|----------------------------|
| MK-4A | 1/14/1986 | Upper A | 6011398.17 | 2085855.03 | 17.46 | 14.65 | 2 | 15 | 15 | 5-15 |
| MK-4B | 1/22/1986 | Lower A | 6011398.48 | 2085847.11 | 18.02 | 15.38 | 2 | 32 | 35 | 23-32 |
| MK-5AR | 3/7/2007 | Upper A | -- | -- | -- | -- | -- | -- | -- | -- |
| MK-5B | 1/20/1986 | Lower A | 6010861.61 | 2085011.17 | 11.77 | 8.68 | 2 | 27 | 29 | 17-27 |
| MK-6A | 1/14/1986 | Upper A | 6011472.96 | 2085084.86 | 17.28 | 14.05 | 2 | 18 | 20 | 8-18 |
| MK-6B | 1/21/1986 | Lower A | 6011480.78 | 2085088.08 | 17.00 | 14.29 | 2 | 47 | 50 | 37-47 |
| MK-9A | -- | Upper A | 6010302.80 | 2085812.63 | 12.66 | 12.54 | -- | 10 | -- | 2-10 |
| MK-9B | -- | Lower A | 6010294.04 | 2085816.15 | 17.29 | 11.00 | -- | 26 | -- | 21-26 |
| MW-10A | 3/16/1984 | -- | -- | -- | 9.59 | -- | -- | -- | -- | 3-13 |
| MW-10B | 3/23/1984 | -- | -- | -- | 10.19 | -- | -- | -- | -- | 33-38 |
| MW-11A | 3/16/1984 | Upper A | 6011444.86 | 2084456.54 | 14.19 | -- | 2 | 13 | 16 | 3-13 |
| MW-11B | 3/28/1984 | Lower A | 6011458.75 | 2084452.94 | 14.85 | -- | 2 | 38 | 41.5 | 33-38 |
| MW-12B | 3/28/1984 | -- | -- | -- | 14.00 | -- | -- | -- | -- | 21.5-26.5 |
| MW-13A | 3/27/1984 | Upper A | -- | -- | 7.81 | -- | -- | -- | -- | 3-13 |
| MW-13B | 3/27/1984 | -- | -- | -- | -- | -- | -- | -- | -- | 33-38 |
| MW-14A | 3/21/1984 | Upper A | -- | -- | 7.58 | -- | -- | -- | -- | 3-13 |
| MW-14B | 3/21/1984 | -- | -- | -- | 8.18 | -- | -- | -- | -- | 43-48 |
| MW-15A | 3/21/1984 | -- | -- | -- | 8.67 | -- | -- | -- | -- | 3-13 |
| MW-16A | 3/21/1984 | -- | -- | -- | 9.24 | -- | -- | -- | -- | 3-13 |
| MW-16B | 3/20/1984 | -- | -- | -- | 9.95 | -- | -- | -- | -- | 35-40 |
| MW-17A | 3/19/1984 | -- | -- | -- | 8.45 | -- | -- | -- | -- | 3-13 |
| MW-17B | 3/19/1984 | -- | -- | -- | 8.30 | -- | -- | -- | -- | 35-40 |
| MW-1B | 3/28/1984 | -- | -- | -- | 8.14 | -- | -- | -- | -- | 34.5-39.5 |
| MW-2B | 3/13/1984 | Lower A | 6010197.64 | 2084838.52 | 13.88 | 9.00 | 2 | 40 | 40 | 35-40 |
| MW-3A | 3/15/1984 | Upper A | 6010452.95 | 2085434.08 | 11.18 | 9.00 | -- | 15.3 | -- | 2.5-12.5 |
| MW-4A | 3/15/1984 | Upper A | 6010533.45 | 2085775.00 | 12.82 | 9.50 | 2 | 12 | 12 | 2-12 |
| MW-5AF | -- | -- | -- | -- | 12.19 | -- | -- | -- | -- | -- |
| MW-5B | 3/22/1984 | Lower A | 6010788.57 | 2085020.02 | 11.83 | 13.00 | -- | 38.6 | 38.6 | 30-35 |
| MW-6AR | 2/8/2005 | Upper A | 6011062.19 | 2085808.24 | 13.02 | -- | 2 | 13 | 13 | 5-13 |
| MW-6B | 3/23/1984 | Lower A | 6011084.04 | 2085808.84 | 13.97 | 12.00 | 2 | 35 | 35 | 30-35 |
| MW-7A | 3/16/1984 | Upper A | 6010979.53 | 2085592.00 | 11.19 | 9.00 | 2 | 13 | 13 | 3-13 |
| MW-8A | 3/16/1984 | Upper A | 6010784.50 | 2085277.60 | 10.62 | 9.00 | 2 | 13 | 13 | 3-13 |
| MW-8B | 3/25/1984 | Lower A | 6010800.40 | 2085273.05 | 13.25 | 11.25 | -- | 38 | 38 | 33-38 |
| MW-9A | 3/28/1984 | Lower A | -- | -- | 11.26 | -- | -- | -- | -- | 3-13 |
| MW-9B | 3/29/1984 | Upper A | -- | -- | 10.20 | -- | -- | -- | -- | 34-39 |

Table 2-1. Monitoring Well Construction Details

| Well Name | Installation Date | Water Bearing Zone Screened | Easting | Northing | Top of Casing Elevation (ft MSL) | Ground Surface Elevation (ft MSL) | Casing Diameter (inches) | Total Well Depth | Total Boring Depth (ft bgs) | Screened Interval (ft bgs) |
|-----------|-------------------|-----------------------------|-------------|-------------|----------------------------------|-----------------------------------|--------------------------|------------------|-----------------------------|----------------------------|
| PZ-1LA | -- | Lower A | 6010528.77 | 2086222.95 | 13.52 | 13.86 | -- | 33 | -- | 28-33 |
| PZ-1UA | -- | Upper A | 6010524.14 | 2086224.78 | 13.67 | 14.00 | -- | 15 | -- | 10-15 |
| PZ-2UA | -- | Upper A | 6010508.36 | 2086190.96 | 14.11 | 14.44 | -- | 35 | -- | 30-35 |
| PZ-3LA | -- | Lower A | 6010969.70 | 2086060.95 | 14.55 | 14.80 | -- | 33 | -- | 28-33 |
| PZ-3UA | -- | Upper A | 6010978.52 | 2086058.69 | 14.35 | 14.61 | -- | 25 | -- | 20-25 |
| PZ-4LA | -- | Lower A | 6011153.89 | 2086023.16 | 12.95 | 13.20 | -- | 33 | -- | 28-33 |
| PZ-4UA | -- | Upper A | 6011142.08 | 2086025.47 | 12.65 | 13.00 | -- | 21 | -- | 16-21 |
| PZ-5LA | -- | Lower A | 6011151.86 | 2086005.73 | 12.43 | 12.77 | -- | 33 | -- | 28-33 |
| PZ-5UA | -- | Upper A | 6011140.94 | 2086005.84 | 12.37 | 12.63 | -- | 20 | -- | 15-20 |
| PZ-6LA | -- | Lower A | 6011464.65 | 2085961.87 | 16.69 | 16.92 | -- | 30 | -- | 25-30 |
| PZ-6UA | -- | Upper A | 6011469.29 | 2085952.05 | 16.63 | 16.89 | -- | 40 | -- | 25-40 |
| PZ-7LA | -- | Lower A | 6011468.67 | 2085932.86 | 16.69 | 16.94 | -- | 34 | -- | 29-34 |
| PZ-7UA | -- | Upper A | 6011462.12 | 2085933.51 | 16.63 | 16.82 | -- | 29 | -- | 24-29 |
| SW-02LA | 12/6/1999 | Lower A | 6011473.240 | 2086992.597 | 23.64 | 24.13 | 0.25 | 15 | 16 | 10-15 |
| SW-02UA | 12/6/1999 | Upper A | 6011473.240 | 2086992.597 | 23.64 | 24.13 | 0.25 | 10 | 16 | 5-10 |
| SW-03B | 12/11/1999 | B | 6011169.136 | 2086829.089 | 29.23 | 29.65 | 0.25 | 69 | 70 | 64-69 |
| SW-03LA | 12/11/1999 | Lower A | 6011169.136 | 2086829.089 | 29.23 | 29.65 | 0.25 | 32 | 70 | 27-32 |
| SW-03UA | 12/11/1999 | Upper A | 6011169.136 | 2086829.089 | 29.23 | 29.65 | 0.25 | 20 | 70 | 15-20 |
| SW-04B | 12/10/1999 | B | 6011032.057 | 2086684.882 | 24.70 | 25.26 | 0.25 | 65 | 66 | 60-65 |
| SW-04LA | 12/10/1999 | Lower A | 6011032.057 | 2086684.882 | 24.70 | 25.26 | 0.25 | 35 | 66 | 30-35 |
| SW-04UA | 12/10/1999 | Upper A | 6011032.057 | 2086684.882 | 24.70 | 25.26 | 0.25 | 22 | 66 | 17-22 |
| SW-05B | 12/6/1999 | B | 6011277.317 | 2086605.609 | 23.13 | 23.60 | 0.25 | 64 | 65 | 59-64 |
| SW-05LA | 12/6/1999 | Lower A | 6011277.317 | 2086605.609 | 23.13 | 23.60 | 0.25 | 33 | 65 | 28-33 |
| SW-05UA | 12/6/1999 | Upper A | 6011277.317 | 2086605.609 | 23.13 | 23.60 | 0.25 | 25 | 65 | 20-25 |
| SW-06LA | 12/12/1999 | Lower A | 6011063.901 | 2086456.293 | 21.56 | 22.15 | 0.25 | 42 | 45 | 37-42 |
| SW-06UA | 12/12/1999 | Upper A | 6011063.901 | 2086456.293 | 21.56 | 22.15 | 0.25 | 25 | 45 | 20-25 |
| SW-07B | 12/3/1999 | B | 6011163.574 | 2086448.786 | 21.18 | 21.65 | 0.25 | 68 | 70 | 63-68 |
| SW-07LA | 12/3/1999 | Lower A | 6011163.574 | 2086448.786 | 21.18 | 21.65 | 0.25 | 40 | 70 | 35-40 |
| SW-07UA | 12/3/1999 | Upper A | 6011163.574 | 2086448.786 | 21.18 | 21.65 | 0.25 | 20 | 70 | 15-20 |
| SW-08B | 12/14/1999 | B | 6011162.638 | 2086306.726 | 19.10 | 19.61 | 0.25 | 68 | 69 | 63-68 |
| SW-08LA | 12/14/1999 | Lower A | 6011162.638 | 2086306.726 | 19.10 | 19.61 | 0.25 | 36 | 69 | 31-36 |
| SW-08UA | 12/14/1999 | Upper A | 6011162.638 | 2086306.726 | 19.10 | 19.61 | 0.25 | 25 | 69 | 20-25 |
| SW-09B | 12/1/1999 | B | 6011350.015 | 2086211.481 | 17.38 | 17.89 | 0.25 | 65 | 67 | 60-65 |
| SW-09LA | 12/1/1999 | Lower A | 6011350.015 | 2086211.481 | 17.38 | 17.89 | 0.25 | 42 | 67 | 37-42 |
| SW-09UA | 12/1/1999 | Upper A | 6011350.015 | 2086211.481 | 17.38 | 17.89 | 0.25 | 25 | 67 | 20-25 |

Table 2-1. Monitoring Well Construction Details

| Well Name | Installation Date | Water Bearing Zone Screened | Easting | Northing | Top of Casing Elevation (ft MSL) | Ground Surface Elevation (ft MSL) | Casing Diameter (inches) | Total Well Depth | Total Boring Depth (ft bgs) | Screened Interval (ft bgs) |
|-----------|-------------------|-----------------------------|-------------|-------------|----------------------------------|-----------------------------------|--------------------------|------------------|-----------------------------|----------------------------|
| SW-10LA | 12/8/1999 | Lower A | 6011002.585 | 2086277.231 | 21.48 | 21.95 | 0.25 | 40 | 45 | 35-40 |
| SW-10UA | 12/8/1999 | Upper A | 6011002.585 | 2086277.231 | 21.48 | 21.95 | 0.25 | 25 | 45 | 20-25 |
| SW-11B | 12/9/1999 | B | 6010817.496 | 2086091.252 | 15.38 | 15.96 | 0.25 | 65 | 66 | 60-65 |
| SW-11LA | 12/9/1999 | Lower A | 6010817.496 | 2086091.252 | 15.38 | 15.96 | 0.25 | 40 | 66 | 35-40 |
| SW-11UA | 12/9/1999 | Upper A | 6010817.496 | 2086091.252 | 15.38 | 15.96 | 0.25 | 20 | 66 | 15-20 |
| SW-12B | 12/18/1999 | B | 6011007.421 | 2086031.903 | 12.82 | 13.32 | 0.25 | 68 | 70 | 63-68 |
| SW-12LA | 12/18/1999 | Lower A | 6011007.421 | 2086031.903 | 12.82 | 13.32 | 0.25 | 42 | 70 | 37-42 |
| SW-12UA | 12/18/1999 | Lower A | 6011007.421 | 2086031.903 | 12.82 | 13.32 | 0.25 | 25 | 70 | 20-25 |
| SW-13LA | 12/18/1999 | Lower A | 6010970.337 | 2086388.683 | 22.34 | 22.56 | 0.25 | 35 | 40 | 30-35 |
| SW-13UA | 12/18/1999 | Upper A | 6010970.337 | 2086388.683 | 22.34 | 22.56 | 0.25 | 18 | 40 | 12-18 |
| SW-14B | 12/18/1999 | B | 6010870.726 | 2085854.518 | 10.34 | 10.82 | 0.25 | 65 | 66 | 60-65 |
| SW-14LA | 12/18/1999 | Lower A | 6010870.726 | 2085854.518 | 10.34 | 10.82 | 0.25 | 42 | 66 | 37-42 |
| SW-14UA | 12/18/1999 | Upper A | 6010870.726 | 2085854.518 | 10.34 | 10.82 | 0.25 | 20 | 66 | 15-20 |
| SW-16LA | -- | Lower A | 6011034.954 | 208433.037 | 11.27 | 8.63 | -- | 45 | 55 | 40-45 |
| SW-17LA | 12/20/1999 | Lower A | 6010767.066 | 2086043.833 | 14.92 | 12.22 | 0.25 | 40 | 45 | 35-40 |
| SW-17UA | 12/20/1999 | Upper A | 6010767.066 | 2086043.833 | 14.92 | 12.22 | 0.25 | 18 | 45 | 13-18 |
| SW-18B | -- | B | 6011182.990 | 2085778.320 | 11.85 | 9.33 | 2 | 68.5 | 69 | 63.5-68.5 |
| SW-18LA | -- | Lower A | 6011188.050 | 2085785.250 | 12.38 | 9.49 | 1 | 39 | 39 | 34-39 |
| SW-18UA | -- | Upper A | 6011195.110 | 2085795.580 | 9.29 | 9.56 | 1 | 10 | 10 | 5-10 |
| TRW-01 | 7/26/1995 | Upper A | 6011282.20 | 2087282.56 | 22.39 | -- | 2 | 18 | 18.5 | 8-18 |
| TRW-02 | -- | Upper A | 6011374.35 | 2087281.56 | 46.22 | -- | 2 | 27 | 29.5 | 12-27 |
| TRW-03 | -- | -- | 6011619.36 | 2087350.88 | 63.26 | 63.94 | -- | 29 | 29.0 | 9-29 |

Notes

ft MSL = feet above mean sea level

ft bgs = feet below ground surface

-- = not available

Wells installed prior to 2008: Information based on available well construction logs and well construction tables from Treadwell & Rollo and Burns & McDonnell

Checked by: MH-F

Approved by: MS

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|------------------------|------------|--|---------------------------------------|-------------------------------------|
| Upper A Aquifer | | | | |
| GWE-1 | 9/8/2008 | 9.92 | 5.13 | 4.79 |
| GWE-2 | 9/8/2008 | 7.16 | 2.42 | 4.74 |
| GWE-3 | 9/8/2008 | 8.58 | 3.77 | 4.81 |
| GWE-4 | 9/8/2008 | 8.08 | 3.32 | 4.76 |
| LF-10A | 9/8/2008 | 16.51 | 5.76 | 10.75 |
| LF-11A | 9/8/2008 | 18.68 | 8.33 | 10.35 |
| LF-11A | 11/3/2008 | 18.68 | 8.25 | 10.43 |
| LF-9A | 9/8/2008 | 15.83 | 5.98 | 9.85 |
| MK-2A | 9/8/2008 | 12.93 | 5.01 | 7.92 |
| MK-2A | 11/3/2008 | 12.93 | 4.82 | 8.11 |
| MK-4A | 9/8/2008 | 17.46 | 12.54 | 4.92 |
| MK-4A | 11/3/2008 | 17.46 | 12.61 | 4.85 |
| MK-5A | 9/8/2008 | 10.88 | 6.30 | 4.58 |
| MK-5A | 11/3/2008 | 10.88 | 6.22 | 4.66 |
| MK-6A | 9/8/2008 | 17.28 | 12.76 | 4.52 |
| MK-6A | 11/3/2008 | 17.28 | 12.95 | 4.33 |
| MW-11A | 9/8/2008 | 14.07 | 9.56 | 4.51 |
| MW-11A | 11/3/2008 | 14.07 | 9.77 | 4.30 |
| MW-4A | 9/8/2008 | 12.82 | 7.40 | 5.42 |
| MW-5AF | 9/8/2008 | 12.19 | 4.63 | 7.56 |
| MW-5AF | 11/3/2008 | 12.19 | 4.36 | 7.83 |
| MW-6AR | 9/8/2008 | 13.30 | 8.53 | 4.77 |
| MW-6AR | 11/3/2008 | 13.30 | 8.45 | 4.85 |
| MW-7A | 9/8/2008 | 11.19 | 6.46 | 4.73 |
| MW-7A | 11/3/2008 | 11.19 | 6.28 | 4.91 |
| MW-8A | 9/8/2008 | 10.62 | 5.87 | 4.75 |
| SW-02UA | 5/26/2000 | 23.64 | 4.10 | 19.54 |
| SW-02UA | 9/6/2000 | 23.64 | 4.89 | 18.75 |
| SW-02UA | 12/8/2000 | 23.64 | 5.03 | 18.61 |
| SW-02UA | 4/13/2001 | 23.64 | 4.51 | 19.13 |
| SW-02UA | 8/6/2001 | 23.64 | 5.29 | 18.35 |
| SW-02UA | 12/7/2001 | 23.64 | 4.97 | 18.67 |
| SW-02UA | 3/15/2002 | 23.64 | 4.37 | 19.27 |
| SW-02UA | 6/3/2002 | 23.64 | 4.78 | 18.86 |
| SW-02UA | 9/9/2002 | 23.64 | 5.28 | 18.36 |
| SW-02UA | 12/10/2002 | 23.64 | 5.47 | 18.17 |
| SW-02UA | 3/2/2003 | 23.64 | 4.45 | 19.19 |
| SW-02UA | 6/2/2003 | 23.64 | 4.49 | 19.15 |
| SW-02UA | 8/25/2003 | 23.64 | 5.15 | 18.49 |
| SW-02UA | 12/15/2003 | 23.64 | 4.98 | 18.66 |
| SW-02UA | 3/25/2004 | 23.64 | 4.37 | 19.27 |
| SW-02UA | 6/7/2004 | 23.64 | 5.00 | 18.64 |
| SW-02UA | 9/7/2004 | 23.64 | 5.29 | 18.35 |
| SW-02UA | 12/6/2004 | 23.64 | 5.40 | 18.24 |
| SW-02UA | 2/28/2005 | 23.64 | 4.35 | 19.29 |
| SW-02UA | 2/28/2005 | 23.64 | 4.54 | 19.10 |
| SW-02UA | 9/12/2005 | 23.64 | 5.45 | 18.19 |
| SW-02UA | 11/28/2005 | 23.64 | 5.80 | 17.84 |
| SW-02UA | 3/6/2006 | 23.64 | 4.74 | 18.90 |
| SW-02UA | 6/5/2006 | 23.64 | 4.39 | 19.25 |
| SW-02UA | 8/30/2006 | 23.64 | 5.12 | 18.52 |
| SW-02UA | 11/29/2006 | 23.64 | 5.51 | 18.13 |
| SW-02UA | 3/6/2007 | 23.64 | 4.71 | 18.93 |
| SW-02UA | 5/25/2007 | 23.64 | 5.12 | 18.52 |
| SW-02UA | 8/27/2007 | 23.64 | 5.80 | 17.84 |
| SW-02UA | 11/27/2007 | 23.64 | 5.84 | 17.80 |
| SW-02UA | 2/25/2008 | 23.64 | 4.21 | 19.43 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-02UA | 6/17/2008 | 23.64 | 5.78 | 17.86 |
| SW-02UA | 9/8/2008 | 23.64 | 5.98 | 17.66 |
| SW-02UA | 11/3/2008 | 23.64 | 6.01 | 17.63 |
| SW-03UA | 5/26/2000 | 29.23 | 11.69 | 17.54 |
| SW-03UA | 9/6/2000 | 29.23 | 12.24 | 16.99 |
| SW-03UA | 12/8/2000 | 29.23 | 12.64 | 16.59 |
| SW-03UA | 4/13/2001 | 29.23 | 12.26 | 16.97 |
| SW-03UA | 8/6/2001 | 29.23 | 12.56 | 16.67 |
| SW-03UA | 12/7/2001 | 29.23 | 12.62 | 16.61 |
| SW-03UA | 3/15/2002 | 29.23 | 11.95 | 17.28 |
| SW-03UA | 6/3/2002 | 29.23 | 12.25 | 16.98 |
| SW-03UA | 9/9/2002 | 29.23 | 12.68 | 16.55 |
| SW-03UA | 12/10/2002 | 29.23 | 12.89 | 16.34 |
| SW-03UA | 3/2/2003 | 29.23 | 11.99 | 17.24 |
| SW-03UA | 6/2/2003 | 29.23 | 12.28 | 16.95 |
| SW-03UA | 8/25/2003 | 29.23 | 12.86 | 16.37 |
| SW-03UA | 12/15/2003 | 29.23 | 12.95 | 16.28 |
| SW-03UA | 3/25/2004 | 29.23 | 12.46 | 16.77 |
| SW-03UA | 6/7/2004 | 29.23 | 12.95 | 16.28 |
| SW-03UA | 9/7/2004 | 29.23 | 13.42 | 15.81 |
| SW-03UA | 12/6/2004 | 29.23 | 13.53 | 15.70 |
| SW-03UA | 2/28/2005 | 29.23 | 12.96 | 16.27 |
| SW-03UA | 2/28/2005 | 29.23 | 12.59 | 16.64 |
| SW-03UA | 9/12/2005 | 29.23 | 13.18 | 16.05 |
| SW-03UA | 11/28/2005 | 29.23 | 13.49 | 15.74 |
| SW-03UA | 3/6/2006 | 29.23 | 12.53 | 16.70 |
| SW-03UA | 6/5/2006 | 29.23 | 12.36 | 16.87 |
| SW-03UA | 8/30/2006 | 29.23 | 12.76 | 16.47 |
| SW-03UA | 11/29/2006 | 29.23 | 13.50 | 15.73 |
| SW-03UA | 3/6/2007 | 29.23 | 12.50 | 16.73 |
| SW-03UA | 5/25/2007 | 29.23 | 12.84 | 16.39 |
| SW-03UA | 8/27/2007 | 29.23 | 13.17 | 16.06 |
| SW-03UA | 11/27/2007 | 29.23 | 13.40 | 15.83 |
| SW-03UA | 2/25/2008 | 29.23 | 12.53 | 16.70 |
| SW-03UA | 6/17/2008 | 29.23 | 13.33 | 15.90 |
| SW-03UA | 9/8/2008 | 29.23 | 13.39 | 15.84 |
| SW-04UA | 5/26/2000 | 24.70 | 9.68 | 15.02 |
| SW-04UA | 9/6/2000 | 24.70 | 10.18 | 14.52 |
| SW-04UA | 12/8/2000 | 24.70 | 10.06 | 14.64 |
| SW-04UA | 4/13/2001 | 24.70 | 9.56 | 15.14 |
| SW-04UA | 8/6/2001 | 24.70 | 9.99 | 14.71 |
| SW-04UA | 12/7/2001 | 24.70 | 10.01 | 14.69 |
| SW-04UA | 3/15/2002 | 24.70 | 9.91 | 14.79 |
| SW-04UA | 6/3/2002 | 24.70 | 10.27 | 14.43 |
| SW-04UA | 9/9/2002 | 24.70 | 10.27 | 14.43 |
| SW-04UA | 12/10/2002 | 24.70 | 10.64 | 14.06 |
| SW-04UA | 3/2/2003 | 24.70 | 9.72 | 14.98 |
| SW-04UA | 6/2/2003 | 24.70 | 10.17 | 14.53 |
| SW-04UA | 8/25/2003 | 24.70 | 10.42 | 14.28 |
| SW-04UA | 12/15/2003 | 24.70 | 10.08 | 14.62 |
| SW-04UA | 3/25/2004 | 24.70 | 9.75 | 14.95 |
| SW-04UA | 6/7/2004 | 24.70 | 10.13 | 14.57 |
| SW-04UA | 9/7/2004 | 24.70 | 10.84 | 13.86 |
| SW-04UA | 12/6/2004 | 24.70 | 10.53 | 14.17 |
| SW-04UA | 2/28/2005 | 24.70 | 9.93 | 14.77 |
| SW-04UA | 2/28/2005 | 24.70 | 9.73 | 14.97 |
| SW-04UA | 9/12/2005 | 24.70 | 10.25 | 14.45 |
| SW-04UA | 11/28/2005 | 24.70 | 10.56 | 14.14 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-04UA | 3/6/2006 | 24.70 | 9.75 | 14.95 |
| SW-04UA | 6/5/2006 | 24.70 | 9.68 | 15.02 |
| SW-04UA | 8/30/2006 | 24.70 | 10.01 | 14.69 |
| SW-04UA | 11/29/2006 | 24.70 | 10.04 | 14.66 |
| SW-04UA | 3/6/2007 | 24.70 | 9.57 | 15.13 |
| SW-04UA | 5/25/2007 | 24.70 | 10.10 | 14.60 |
| SW-04UA | 8/27/2007 | 24.70 | 10.09 | 14.61 |
| SW-04UA | 11/27/2007 | 24.70 | 10.32 | 14.38 |
| SW-04UA | 2/25/2008 | 24.70 | 10.32 | 14.38 |
| SW-04UA | 6/17/2008 | 24.70 | 10.36 | 14.34 |
| SW-04UA | 9/8/2008 | 24.70 | 10.20 | 14.50 |
| SW-04UA | 11/3/2008 | 24.70 | 10.25 | 14.45 |
| SW-05UA | 5/26/2000 | 23.13 | 8.83 | 14.30 |
| SW-05UA | 9/6/2000 | 23.13 | 9.23 | 13.90 |
| SW-05UA | 12/8/2000 | 23.13 | 9.38 | 13.75 |
| SW-05UA | 4/13/2001 | 23.13 | 8.84 | 14.29 |
| SW-05UA | 8/6/2001 | 23.13 | 9.36 | 13.77 |
| SW-05UA | 12/7/2001 | 23.13 | 9.15 | 13.98 |
| SW-05UA | 3/15/2002 | 23.13 | 8.87 | 14.26 |
| SW-05UA | 6/3/2002 | 23.13 | 9.16 | 13.97 |
| SW-05UA | 9/9/2002 | 23.13 | 9.38 | 13.75 |
| SW-05UA | 12/10/2002 | 23.13 | 9.57 | 13.56 |
| SW-05UA | 3/2/2003 | 23.13 | 8.89 | 14.24 |
| SW-05UA | 6/2/2003 | 23.13 | 9.19 | 13.94 |
| SW-05UA | 8/25/2003 | 23.13 | 9.64 | 13.49 |
| SW-05UA | 12/15/2003 | 23.13 | 9.32 | 13.81 |
| SW-05UA | 3/25/2004 | 23.13 | 8.99 | 14.14 |
| SW-05UA | 6/7/2004 | 23.13 | 9.45 | 13.68 |
| SW-05UA | 9/7/2004 | 23.13 | 9.79 | 13.34 |
| SW-05UA | 12/6/2004 | 23.13 | 9.80 | 13.33 |
| SW-05UA | 2/28/2005 | 23.13 | 9.15 | 13.98 |
| SW-05UA | 2/28/2005 | 23.13 | 8.96 | 14.17 |
| SW-05UA | 9/12/2005 | 23.13 | 9.53 | 13.60 |
| SW-05UA | 11/28/2005 | 23.13 | 9.74 | 13.39 |
| SW-05UA | 3/6/2006 | 23.13 | 8.88 | 14.25 |
| SW-05UA | 6/5/2006 | 23.13 | 8.90 | 14.23 |
| SW-05UA | 8/30/2006 | 23.13 | 9.11 | 14.02 |
| SW-05UA | 11/29/2006 | 23.13 | 9.29 | 13.84 |
| SW-05UA | 3/6/2007 | 23.13 | 8.77 | 14.36 |
| SW-05UA | 5/25/2007 | 23.13 | 9.12 | 14.01 |
| SW-05UA | 8/27/2007 | 23.13 | 9.32 | 13.81 |
| SW-05UA | 11/27/2007 | 23.13 | 9.59 | 13.54 |
| SW-05UA | 2/25/2008 | 23.13 | 8.58 | 14.55 |
| SW-05UA | 6/17/2008 | 23.13 | 9.49 | 13.64 |
| SW-05UA | 9/8/2008 | 23.13 | 9.40 | 13.73 |
| SW-05UA | 11/3/2008 | 23.13 | 9.28 | 13.85 |
| SW-06UA | 5/26/2000 | 21.56 | 9.28 | 12.28 |
| SW-06UA | 9/6/2000 | 21.56 | 9.35 | 12.21 |
| SW-06UA | 12/8/2000 | 21.56 | 9.55 | 12.01 |
| SW-06UA | 4/13/2001 | 21.56 | 9.50 | 12.06 |
| SW-06UA | 8/6/2001 | 21.56 | 9.52 | 12.04 |
| SW-06UA | 12/7/2001 | 21.56 | 9.37 | 12.19 |
| SW-06UA | 3/15/2002 | 21.56 | 9.19 | 12.37 |
| SW-06UA | 6/3/2002 | 21.56 | 9.54 | 12.02 |
| SW-06UA | 9/9/2002 | 21.56 | 9.63 | 11.93 |
| SW-06UA | 12/10/2002 | 21.56 | 9.82 | 11.74 |
| SW-06UA | 3/2/2003 | 21.56 | 9.26 | 12.30 |
| SW-06UA | 6/2/2003 | 21.56 | 9.27 | 12.29 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-06UA | 8/25/2003 | 21.56 | 9.60 | 11.96 |
| SW-06UA | 12/15/2003 | 21.56 | 9.56 | 12.00 |
| SW-06UA | 3/25/2004 | 21.56 | 9.25 | 12.31 |
| SW-06UA | 6/7/2004 | 21.56 | 9.58 | 11.98 |
| SW-06UA | 9/7/2004 | 21.56 | 9.95 | 11.61 |
| SW-06UA | 12/6/2004 | 21.56 | 9.93 | 11.63 |
| SW-06UA | 2/28/2005 | 21.56 | 9.29 | 12.27 |
| SW-06UA | 2/28/2005 | 21.56 | 9.19 | 12.37 |
| SW-06UA | 9/12/2005 | 21.56 | 9.73 | 11.83 |
| SW-06UA | 11/28/2005 | 21.56 | 9.92 | 11.64 |
| SW-06UA | 3/6/2006 | 21.56 | 9.01 | 12.55 |
| SW-06UA | 6/5/2006 | 21.56 | 9.13 | 12.43 |
| SW-06UA | 8/30/2006 | 21.56 | 9.37 | 12.19 |
| SW-06UA | 11/29/2006 | 21.56 | 9.47 | 12.09 |
| SW-06UA | 3/6/2007 | 21.56 | 9.10 | 12.46 |
| SW-06UA | 5/25/2007 | 21.56 | 8.39 | 13.17 |
| SW-06UA | 8/27/2007 | 21.56 | 9.62 | 11.94 |
| SW-06UA | 11/27/2007 | 21.56 | 9.75 | 11.81 |
| SW-06UA | 2/25/2008 | 21.56 | 9.04 | 12.52 |
| SW-06UA | 6/17/2008 | 21.56 | 9.83 | 11.73 |
| SW-06UA | 9/8/2008 | 21.56 | 9.54 | 12.02 |
| SW-06UA | 11/3/2008 | 21.56 | 9.48 | 12.08 |
| SW-07UA | 5/26/2000 | 21.18 | 8.80 | 12.38 |
| SW-07UA | 9/6/2000 | 21.18 | 8.91 | 12.27 |
| SW-07UA | 12/8/2000 | 21.18 | 9.12 | 12.06 |
| SW-07UA | 4/13/2001 | 21.18 | 8.67 | 12.51 |
| SW-07UA | 8/6/2001 | 21.18 | 9.09 | 12.09 |
| SW-07UA | 12/7/2001 | 21.18 | 8.88 | 12.30 |
| SW-07UA | 3/15/2002 | 21.18 | 8.68 | 12.50 |
| SW-07UA | 6/3/2002 | 21.18 | 9.06 | 12.12 |
| SW-07UA | 9/9/2002 | 21.18 | 9.18 | 12.00 |
| SW-07UA | 12/10/2002 | 21.18 | 9.37 | 11.81 |
| SW-07UA | 3/2/2003 | 21.18 | 8.78 | 12.40 |
| SW-07UA | 6/2/2003 | 21.18 | 8.83 | 12.35 |
| SW-07UA | 8/25/2003 | 21.18 | 9.11 | 12.07 |
| SW-07UA | 12/15/2003 | 21.18 | 9.08 | 12.10 |
| SW-07UA | 3/25/2004 | 21.18 | 8.82 | 12.36 |
| SW-07UA | 6/7/2004 | 21.18 | 6.10 | 15.08 |
| SW-07UA | 9/7/2004 | 21.18 | 9.49 | 11.69 |
| SW-07UA | 12/6/2004 | 21.18 | 9.45 | 11.73 |
| SW-07UA | 2/28/2005 | 21.18 | 8.74 | 12.44 |
| SW-07UA | 2/28/2005 | 21.18 | 8.87 | 12.31 |
| SW-07UA | 9/12/2005 | 21.18 | 9.34 | 11.84 |
| SW-07UA | 11/28/2005 | 21.18 | 9.53 | 11.65 |
| SW-07UA | 3/6/2006 | 21.18 | 8.58 | 12.60 |
| SW-07UA | 6/5/2006 | 21.18 | 8.72 | 12.46 |
| SW-07UA | 8/30/2006 | 21.18 | 9.00 | 12.18 |
| SW-07UA | 11/29/2006 | 21.18 | 9.07 | 12.11 |
| SW-07UA | 3/6/2007 | 21.18 | 8.68 | 12.50 |
| SW-07UA | 5/25/2007 | 21.18 | 8.97 | 12.21 |
| SW-07UA | 8/27/2007 | 21.18 | 9.17 | 12.01 |
| SW-07UA | 11/27/2007 | 21.18 | 9.32 | 11.86 |
| SW-07UA | 2/25/2008 | 21.18 | 8.64 | 12.54 |
| SW-07UA | 6/17/2008 | 21.18 | 9.43 | 11.75 |
| SW-07UA | 9/8/2008 | 21.18 | 9.07 | 12.11 |
| SW-08UA | 5/26/2000 | 19.10 | 8.50 | 10.60 |
| SW-08UA | 9/6/2000 | 19.10 | 7.97 | 11.13 |
| SW-08UA | 12/8/2000 | 19.10 | 8.19 | 10.91 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-08UA | 4/13/2001 | 19.10 | 7.85 | 11.25 |
| SW-08UA | 8/6/2001 | 19.10 | 8.20 | 10.90 |
| SW-08UA | 12/7/2001 | 19.10 | 7.98 | 11.12 |
| SW-08UA | 3/15/2002 | 19.10 | 7.82 | 11.28 |
| SW-08UA | 6/3/2002 | 19.10 | 8.21 | 10.89 |
| SW-08UA | 9/9/2002 | 19.10 | 8.16 | 10.94 |
| SW-08UA | 12/10/2002 | 19.10 | 8.41 | 10.69 |
| SW-08UA | 3/2/2003 | 19.10 | 8.01 | 11.09 |
| SW-08UA | 6/2/2003 | 19.10 | 7.96 | 11.14 |
| SW-08UA | 8/25/2003 | 19.10 | 8.19 | 10.91 |
| SW-08UA | 12/15/2003 | 19.10 | 8.13 | 10.97 |
| SW-08UA | 3/25/2004 | 19.10 | 7.93 | 11.17 |
| SW-08UA | 6/7/2004 | 19.10 | 8.21 | 10.89 |
| SW-08UA | 9/7/2004 | 19.10 | 8.62 | 10.48 |
| SW-08UA | 12/6/2004 | 19.10 | 8.52 | 10.58 |
| SW-08UA | 2/28/2005 | 19.10 | 8.10 | 11.00 |
| SW-08UA | 2/28/2005 | 19.10 | 7.88 | 11.22 |
| SW-08UA | 9/12/2005 | 19.10 | 8.48 | 10.62 |
| SW-08UA | 11/28/2005 | 19.10 | 8.65 | 10.45 |
| SW-08UA | 3/6/2006 | 19.10 | 7.68 | 11.42 |
| SW-08UA | 6/5/2006 | 19.10 | 7.92 | 11.18 |
| SW-08UA | 8/30/2006 | 19.10 | 8.15 | 10.95 |
| SW-08UA | 11/29/2006 | 19.10 | 8.12 | 10.98 |
| SW-08UA | 3/6/2007 | 19.10 | 7.84 | 11.26 |
| SW-08UA | 5/25/2007 | 19.10 | 8.12 | 10.98 |
| SW-08UA | 8/27/2007 | 19.10 | 8.29 | 10.81 |
| SW-08UA | 11/27/2007 | 19.10 | 8.42 | 10.68 |
| SW-08UA | 2/25/2008 | 19.10 | 7.77 | 11.33 |
| SW-08UA | 6/17/2008 | 19.10 | 8.69 | 10.41 |
| SW-08UA | 9/8/2008 | 19.10 | 8.08 | 11.02 |
| SW-08UA | 11/3/2008 | 19.10 | 7.98 | 11.12 |
| SW-09UA | 5/26/2000 | 17.38 | 6.46 | 10.92 |
| SW-09UA | 9/6/2000 | 17.38 | 6.30 | 11.08 |
| SW-09UA | 12/8/2000 | 17.38 | 6.43 | 10.95 |
| SW-09UA | 4/13/2001 | 17.38 | 6.25 | 11.13 |
| SW-09UA | 8/6/2001 | 17.38 | 6.53 | 10.85 |
| SW-09UA | 12/7/2001 | 17.38 | 6.15 | 11.23 |
| SW-09UA | 3/15/2002 | 17.38 | 6.03 | 11.35 |
| SW-09UA | 6/3/2002 | 17.38 | 6.51 | 10.87 |
| SW-09UA | 9/9/2002 | 17.38 | 6.53 | 10.85 |
| SW-09UA | 12/10/2002 | 17.38 | 6.85 | 10.53 |
| SW-09UA | 3/2/2003 | 17.38 | 6.35 | 11.03 |
| SW-09UA | 6/2/2003 | 17.38 | 6.34 | 11.04 |
| SW-09UA | 8/25/2003 | 17.38 | 6.66 | 10.72 |
| SW-09UA | 12/15/2003 | 17.38 | 6.41 | 10.97 |
| SW-09UA | 3/25/2004 | 17.38 | 6.26 | 11.12 |
| SW-09UA | 6/7/2004 | 17.38 | 6.69 | 10.69 |
| SW-09UA | 9/7/2004 | 17.38 | 7.11 | 10.27 |
| SW-09UA | 12/6/2004 | 17.38 | 6.79 | 10.59 |
| SW-09UA | 2/28/2005 | 17.38 | 6.44 | 10.94 |
| SW-09UA | 9/12/2005 | 17.38 | 6.93 | 10.45 |
| SW-09UA | 11/28/2005 | 17.38 | 8.10 | 9.28 |
| SW-09UA | 3/6/2006 | 17.38 | 5.94 | 11.44 |
| SW-09UA | 6/5/2006 | 17.38 | 6.37 | 11.01 |
| SW-09UA | 8/30/2006 | 17.38 | 6.68 | 10.70 |
| SW-09UA | 11/29/2006 | 17.38 | 6.56 | 10.82 |
| SW-09UA | 3/6/2007 | 17.38 | 6.19 | 11.19 |
| SW-09UA | 5/25/2007 | 17.38 | 6.55 | 10.83 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-09UA | 8/27/2007 | 17.38 | 6.76 | 10.62 |
| SW-09UA | 11/27/2007 | 17.38 | 6.85 | 10.53 |
| SW-09UA | 2/25/2008 | 17.38 | 6.13 | 11.25 |
| SW-09UA | 6/17/2008 | 17.38 | 7.08 | 10.30 |
| SW-09UA | 9/8/2008 | 17.38 | 6.34 | 11.04 |
| SW-09UA | 11/3/2008 | 17.38 | 6.33 | 11.05 |
| SW-10UA | 5/26/2000 | 21.48 | 10.92 | 10.56 |
| SW-10UA | 9/6/2000 | 21.48 | 10.80 | 10.68 |
| SW-10UA | 12/8/2000 | 21.48 | 10.98 | 10.50 |
| SW-10UA | 4/13/2001 | 21.48 | 10.77 | 10.71 |
| SW-10UA | 8/6/2001 | 21.48 | 11.12 | 10.36 |
| SW-10UA | 12/7/2001 | 21.48 | 10.69 | 10.79 |
| SW-10UA | 3/15/2002 | 21.48 | 10.72 | 10.76 |
| SW-10UA | 6/3/2002 | 21.48 | 11.14 | 10.34 |
| SW-10UA | 9/9/2002 | 21.48 | 11.05 | 10.43 |
| SW-10UA | 12/10/2002 | 21.48 | 11.32 | 10.16 |
| SW-10UA | 3/2/2003 | 21.48 | 10.91 | 10.57 |
| SW-10UA | 6/2/2003 | 21.48 | 10.78 | 10.70 |
| SW-10UA | 8/25/2003 | 21.48 | 11.02 | 10.46 |
| SW-10UA | 12/15/2003 | 21.48 | 10.91 | 10.57 |
| SW-10UA | 3/25/2004 | 21.48 | 10.78 | 10.70 |
| SW-10UA | 6/7/2004 | 21.48 | 11.11 | 10.37 |
| SW-10UA | 9/7/2004 | 21.48 | 11.44 | 10.04 |
| SW-10UA | 12/6/2004 | 21.48 | 11.34 | 10.14 |
| SW-10UA | 2/28/2005 | 21.48 | 10.92 | 10.56 |
| SW-10UA | 2/28/2005 | 21.48 | 10.75 | 10.73 |
| SW-10UA | 9/12/2005 | 21.48 | 11.33 | 10.15 |
| SW-10UA | 11/28/2005 | 21.48 | 11.48 | 10.00 |
| SW-10UA | 3/6/2006 | 21.48 | 10.43 | 11.05 |
| SW-10UA | 6/5/2006 | 21.48 | 10.67 | 10.81 |
| SW-10UA | 8/30/2006 | 21.48 | 10.98 | 10.50 |
| SW-10UA | 11/29/2006 | 21.48 | 10.85 | 10.63 |
| SW-10UA | 3/6/2007 | 21.48 | 10.65 | 10.83 |
| SW-10UA | 5/25/2007 | 21.48 | 10.90 | 10.58 |
| SW-10UA | 8/27/2007 | 21.48 | 11.03 | 10.45 |
| SW-10UA | 11/27/2007 | 21.48 | 11.20 | 10.28 |
| SW-10UA | 2/25/2008 | 21.48 | 10.62 | 10.86 |
| SW-10UA | 6/17/2008 | 21.48 | 36.75 | -15.27 |
| SW-10UA | 9/8/2008 | 21.48 | 10.79 | 10.69 |
| SW-11UA | 5/26/2000 | 15.38 | 6.94 | 8.44 |
| SW-11UA | 9/6/2000 | 15.38 | 6.41 | 8.97 |
| SW-11UA | 12/8/2000 | 15.38 | 6.61 | 8.77 |
| SW-11UA | 4/13/2001 | 15.38 | 6.71 | 8.67 |
| SW-11UA | 8/6/2001 | 15.38 | 7.04 | 8.34 |
| SW-11UA | 12/7/2001 | 15.38 | 6.28 | 9.10 |
| SW-11UA | 3/15/2002 | 15.38 | 6.59 | 8.79 |
| SW-11UA | 6/3/2002 | 15.38 | 7.31 | 8.07 |
| SW-11UA | 9/9/2002 | 15.38 | 6.76 | 8.62 |
| SW-11UA | 12/10/2002 | 15.38 | 7.20 | 8.18 |
| SW-11UA | 3/2/2003 | 15.38 | 6.89 | 8.49 |
| SW-11UA | 6/2/2003 | 15.38 | 6.41 | 8.97 |
| SW-11UA | 8/25/2003 | 15.38 | 6.54 | 8.84 |
| SW-11UA | 12/15/2003 | 15.38 | 6.39 | 8.99 |
| SW-11UA | 3/25/2004 | 15.38 | 6.39 | 8.99 |
| SW-11UA | 6/7/2004 | 15.38 | 7.10 | 8.28 |
| SW-11UA | 9/7/2004 | 15.38 | 7.35 | 8.03 |
| SW-11UA | 12/6/2004 | 15.38 | 7.10 | 8.28 |
| SW-11UA | 2/28/2005 | 15.38 | 6.61 | 8.77 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-11UA | 2/28/2005 | 15.38 | 6.92 | 8.46 |
| SW-11UA | 9/12/2005 | 15.38 | 7.22 | 8.16 |
| SW-11UA | 11/28/2005 | 15.38 | 7.35 | 8.03 |
| SW-11UA | 3/6/2006 | 15.38 | 6.05 | 9.33 |
| SW-11UA | 6/5/2006 | 15.38 | 6.07 | 9.31 |
| SW-11UA | 8/30/2006 | 15.38 | 6.79 | 8.59 |
| SW-11UA | 11/29/2006 | 15.38 | 6.36 | 9.02 |
| SW-11UA | 3/6/2007 | 15.38 | 6.41 | 8.97 |
| SW-11UA | 5/25/2007 | 15.38 | 6.68 | 8.70 |
| SW-11UA | 8/27/2007 | 15.38 | 6.73 | 8.65 |
| SW-11UA | 11/27/2007 | 15.38 | 6.77 | 8.61 |
| SW-11UA | 2/25/2008 | 15.38 | 6.34 | 9.04 |
| SW-11UA | 6/17/2008 | 15.38 | 7.20 | 8.18 |
| SW-11UA | 9/8/2008 | 15.38 | 6.15 | 9.23 |
| SW-11UA | 11/3/2008 | 15.38 | 6.15 | 9.23 |
| SW-12UA | 5/26/2000 | 12.82 | 3.51 | 9.31 |
| SW-12UA | 9/6/2000 | 12.82 | 2.75 | 10.07 |
| SW-12UA | 12/8/2000 | 12.82 | 2.97 | 9.85 |
| SW-12UA | 4/13/2001 | 12.82 | 3.18 | 9.64 |
| SW-12UA | 8/6/2001 | 12.82 | 3.49 | 9.33 |
| SW-12UA | 12/7/2001 | 12.82 | 2.48 | 10.34 |
| SW-12UA | 3/15/2002 | 12.82 | 3.03 | 9.79 |
| SW-12UA | 6/3/2002 | 12.82 | 3.51 | 9.31 |
| SW-12UA | 9/9/2002 | 12.82 | 2.92 | 9.90 |
| SW-12UA | 12/10/2002 | 12.82 | 3.76 | 9.06 |
| SW-12UA | 3/2/2003 | 12.82 | 3.38 | 9.44 |
| SW-12UA | 6/2/2003 | 12.82 | 3.00 | 9.82 |
| SW-12UA | 8/25/2003 | 12.82 | 2.98 | 9.84 |
| SW-12UA | 12/15/2003 | 12.82 | 2.81 | 10.01 |
| SW-12UA | 3/25/2004 | 12.82 | 2.79 | 10.03 |
| SW-12UA | 6/7/2004 | 12.82 | 3.67 | 9.15 |
| SW-12UA | 9/7/2004 | 12.82 | 3.99 | 8.83 |
| SW-12UA | 12/6/2004 | 12.82 | 3.59 | 9.23 |
| SW-12UA | 2/28/2005 | 12.82 | 3.50 | 9.32 |
| SW-12UA | 2/28/2005 | 12.82 | 3.22 | 9.60 |
| SW-12UA | 9/12/2005 | 12.82 | 3.94 | 8.88 |
| SW-12UA | 11/28/2005 | 12.82 | 4.13 | 8.69 |
| SW-12UA | 3/6/2006 | 12.82 | 2.55 | 10.27 |
| SW-12UA | 6/5/2006 | 12.82 | 2.74 | 10.08 |
| SW-12UA | 8/30/2006 | 12.82 | 3.76 | 9.06 |
| SW-12UA | 11/29/2006 | 12.82 | 2.88 | 9.94 |
| SW-12UA | 3/6/2007 | 12.82 | 3.24 | 9.58 |
| SW-12UA | 5/25/2007 | 12.82 | 3.42 | 9.40 |
| SW-12UA | 8/27/2007 | 12.82 | 3.64 | 9.18 |
| SW-12UA | 11/27/2007 | 12.82 | 3.75 | 9.07 |
| SW-12UA | 2/25/2008 | 12.82 | 2.72 | 10.10 |
| SW-12UA | 6/17/2008 | 12.82 | 3.80 | 9.02 |
| SW-12UA | 9/8/2008 | 12.82 | 2.70 | 10.12 |
| SW-12UA | 11/3/2008 | 12.82 | 2.61 | 10.21 |
| SW-13UA | 5/26/2000 | 22.34 | 10.75 | 11.59 |
| SW-13UA | 9/6/2000 | 22.34 | 10.84 | 11.50 |
| SW-13UA | 12/8/2000 | 22.34 | 11.12 | 11.22 |
| SW-13UA | 4/13/2001 | 22.34 | 10.88 | 11.46 |
| SW-13UA | 8/6/2001 | 22.34 | 11.01 | 11.33 |
| SW-13UA | 12/7/2001 | 22.34 | 10.95 | 11.39 |
| SW-13UA | 3/15/2002 | 22.34 | 10.85 | 11.49 |
| SW-13UA | 6/3/2002 | 22.34 | 11.16 | 11.18 |
| SW-13UA | 9/9/2002 | 22.34 | 11.20 | 11.14 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-13UA | 12/10/2002 | 22.34 | 11.44 | 10.90 |
| SW-13UA | 3/2/2003 | 22.34 | 10.91 | 11.43 |
| SW-13UA | 6/2/2003 | 22.34 | 10.89 | 11.45 |
| SW-13UA | 8/25/2003 | 22.34 | 11.16 | 11.18 |
| SW-13UA | 12/15/2003 | 22.34 | 11.04 | 11.30 |
| SW-13UA | 3/25/2004 | 22.34 | 10.85 | 11.49 |
| SW-13UA | 6/7/2004 | 22.34 | 11.15 | 11.19 |
| SW-13UA | 9/7/2004 | 22.34 | 11.55 | 10.79 |
| SW-13UA | 12/6/2004 | 22.34 | 11.49 | 10.85 |
| SW-13UA | 2/28/2005 | 22.34 | 10.89 | 11.45 |
| SW-13UA | 2/28/2005 | 22.34 | 10.76 | 11.58 |
| SW-13UA | 9/12/2005 | 22.34 | 11.28 | 11.06 |
| SW-13UA | 11/28/2005 | 22.34 | 11.48 | 10.86 |
| SW-13UA | 3/6/2006 | 22.34 | 10.50 | 11.84 |
| SW-13UA | 6/5/2006 | 22.34 | 10.65 | 11.69 |
| SW-13UA | 8/29/2006 | 22.34 | 10.92 | 11.42 |
| SW-13UA | 8/30/2006 | 22.34 | 10.88 | 11.46 |
| SW-13UA | 3/6/2007 | 22.34 | 10.62 | 11.72 |
| SW-13UA | 5/25/2007 | 22.34 | 10.88 | 11.46 |
| SW-13UA | 8/27/2007 | 22.34 | 11.11 | 11.23 |
| SW-13UA | 11/27/2007 | 22.34 | 11.29 | 11.05 |
| SW-13UA | 2/25/2008 | 22.34 | 11.29 | 11.05 |
| SW-13UA | 6/17/2008 | 22.34 | 11.23 | 11.11 |
| SW-13UA | 9/8/2008 | 22.34 | 11.00 | 11.34 |
| SW-14UA | 5/26/2000 | 10.34 | 1.31 | 9.03 |
| SW-14UA | 9/6/2000 | 10.34 | 0.63 | 9.71 |
| SW-14UA | 12/8/2000 | 10.34 | 0.82 | 9.52 |
| SW-14UA | 4/13/2001 | 10.34 | 1.02 | 9.32 |
| SW-14UA | 8/6/2001 | 10.34 | 1.41 | 8.93 |
| SW-14UA | 12/7/2001 | 10.34 | 0.60 | 9.74 |
| SW-14UA | 3/15/2002 | 10.34 | 0.61 | 9.73 |
| SW-14UA | 6/3/2002 | 10.34 | 1.03 | 9.31 |
| SW-14UA | 9/9/2002 | 10.34 | 0.96 | 9.38 |
| SW-14UA | 12/10/2002 | 10.34 | 1.60 | 8.74 |
| SW-14UA | 3/2/2003 | 10.34 | 1.25 | 9.09 |
| SW-14UA | 6/2/2003 | 10.34 | 0.69 | 9.65 |
| SW-14UA | 8/25/2003 | 10.34 | 1.20 | 9.14 |
| SW-14UA | 12/15/2003 | 10.34 | 0.80 | 9.54 |
| SW-14UA | 3/25/2004 | 10.34 | 0.56 | 9.78 |
| SW-14UA | 6/7/2004 | 10.34 | 1.56 | 8.78 |
| SW-14UA | 9/7/2004 | 10.34 | 1.92 | 8.42 |
| SW-14UA | 12/6/2004 | 10.34 | 1.06 | 9.28 |
| SW-14UA | 2/28/2005 | 10.34 | 0.61 | 9.73 |
| SW-14UA | 2/28/2005 | 10.34 | 0.46 | 9.88 |
| SW-14UA | 11/28/2005 | 10.34 | 1.76 | 8.58 |
| SW-14UA | 6/5/2006 | 10.34 | 1.30 | 9.04 |
| SW-14UA | 8/30/2006 | 10.34 | 1.30 | 9.04 |
| SW-14UA | 11/29/2006 | 10.34 | 0.70 | 9.64 |
| SW-14UA | 3/6/2007 | 10.34 | 0.88 | 9.46 |
| SW-14UA | 5/25/2007 | 10.34 | 1.09 | 9.25 |
| SW-14UA | 8/27/2007 | 10.34 | 0.84 | 9.50 |
| SW-14UA | 11/27/2007 | 10.34 | 0.94 | 9.40 |
| SW-14UA | 2/25/2008 | 10.34 | 0.06 | 10.28 |
| SW-14UA | 6/17/2008 | 10.34 | 0.38 | 9.96 |
| SW-14UA | 9/8/2008 | 10.34 | 0.00 | 10.34 |
| SW-17UA | 5/26/2000 | 14.92 | 6.80 | 8.12 |
| SW-17UA | 9/6/2000 | 14.92 | 6.35 | 8.57 |
| SW-17UA | 12/8/2000 | 14.92 | 6.33 | 8.59 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-17UA | 4/13/2001 | 14.92 | 6.35 | 8.57 |
| SW-17UA | 8/6/2001 | 14.92 | 6.73 | 8.19 |
| SW-17UA | 12/7/2001 | 14.92 | 9.00 | 5.92 |
| SW-17UA | 3/15/2002 | 14.92 | 6.16 | 8.76 |
| SW-17UA | 6/3/2002 | 14.92 | 6.82 | 8.10 |
| SW-17UA | 9/9/2002 | 14.92 | 6.43 | 8.49 |
| SW-17UA | 12/10/2002 | 14.92 | 6.87 | 8.05 |
| SW-17UA | 3/2/2003 | 14.92 | 6.58 | 8.34 |
| SW-17UA | 6/2/2003 | 14.92 | 6.19 | 8.73 |
| SW-17UA | 8/25/2003 | 14.92 | 6.42 | 8.50 |
| SW-17UA | 12/15/2003 | 14.92 | 4.85 | 10.07 |
| SW-17UA | 3/25/2004 | 14.92 | 5.99 | 8.93 |
| SW-17UA | 6/7/2004 | 14.92 | 6.73 | 8.19 |
| SW-17UA | 9/7/2004 | 14.92 | 7.17 | 7.75 |
| SW-17UA | 12/6/2004 | 14.92 | 6.54 | 8.38 |
| SW-17UA | 2/28/2005 | 14.92 | 6.62 | 8.30 |
| SW-17UA | 2/28/2005 | 14.92 | 6.24 | 8.68 |
| SW-17UA | 9/12/2005 | 14.92 | 6.86 | 8.06 |
| SW-17UA | 11/28/2005 | 14.92 | 6.95 | 7.97 |
| SW-17UA | 3/6/2006 | 14.92 | 5.59 | 9.33 |
| SW-17UA | 6/5/2006 | 14.92 | 5.80 | 9.12 |
| SW-17UA | 8/29/2006 | 14.92 | 6.03 | 8.89 |
| SW-17UA | 8/30/2006 | 14.92 | 6.57 | 8.35 |
| SW-17UA | 3/6/2007 | 14.92 | 6.13 | 8.79 |
| SW-17UA | 5/25/2007 | 14.92 | 6.35 | 8.57 |
| SW-17UA | 8/27/2007 | 14.92 | 6.46 | 8.46 |
| SW-17UA | 11/27/2007 | 14.92 | 6.64 | 8.28 |
| SW-17UA | 2/25/2008 | 14.92 | 6.64 | 8.28 |
| SW-17UA | 6/17/2008 | 14.92 | 6.64 | 8.28 |
| SW-17UA | 9/8/2008 | 14.92 | 5.76 | 9.16 |
| SW-18UA | 4/13/2001 | 9.29 | 0.11 | 9.18 |
| SW-18UA | 8/6/2001 | 9.29 | 4.65 | 4.64 |
| SW-18UA | 12/7/2001 | 9.29 | 2.68 | 6.61 |
| SW-18UA | 3/15/2002 | 9.29 | 3.16 | 6.13 |
| SW-18UA | 6/3/2002 | 9.29 | 4.16 | 5.13 |
| SW-18UA | 9/9/2002 | 9.29 | 4.65 | 4.64 |
| SW-18UA | 12/10/2002 | 9.29 | 4.42 | 4.87 |
| SW-18UA | 3/2/2003 | 9.29 | 3.10 | 6.19 |
| SW-18UA | 6/2/2003 | 9.29 | 3.97 | 5.32 |
| SW-18UA | 8/25/2003 | 9.29 | 4.76 | 4.53 |
| SW-18UA | 12/15/2003 | 9.29 | 3.16 | 6.13 |
| SW-18UA | 3/25/2004 | 9.29 | 3.23 | 6.06 |
| SW-18UA | 6/7/2004 | 9.29 | 4.26 | 5.03 |
| SW-18UA | 9/7/2004 | 9.29 | 4.81 | 4.48 |
| SW-18UA | 12/6/2004 | 9.29 | 4.19 | 5.10 |
| SW-18UA | 2/28/2005 | 9.29 | 3.75 | 5.54 |
| SW-18UA | 2/28/2005 | 9.29 | 2.14 | 7.15 |
| SW-18UA | 9/12/2005 | 9.29 | 4.55 | 4.74 |
| SW-18UA | 11/28/2005 | 9.29 | 4.66 | 4.63 |
| SW-18UA | 3/6/2006 | 9.29 | 1.65 | 7.64 |
| SW-18UA | 6/5/2006 | 9.29 | 3.57 | 5.72 |
| SW-18UA | 8/29/2006 | 9.29 | 4.37 | 4.92 |
| SW-18UA | 8/30/2006 | 9.29 | 4.49 | 4.80 |
| SW-18UA | 3/6/2007 | 9.29 | 2.41 | 6.88 |
| SW-18UA | 5/25/2007 | 9.29 | 3.78 | 5.51 |
| SW-18UA | 8/27/2007 | 9.29 | 4.54 | 4.75 |
| SW-18UA | 11/27/2007 | 9.29 | 4.48 | 4.81 |
| SW-18UA | 2/25/2008 | 9.29 | 2.24 | 7.05 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-18UA | 6/17/2008 | 9.29 | 4.40 | 4.89 |
| SW-18UA | 9/8/2008 | 9.29 | 4.68 | 4.61 |
| SW-19UA | 6/2/2003 | 27.99 | 9.65 | 18.34 |
| SW-19UA | 8/25/2003 | 27.99 | 10.26 | 17.73 |
| SW-19UA | 12/15/2003 | 27.99 | 10.46 | 17.53 |
| SW-19UA | 3/25/2004 | 27.99 | 9.42 | 18.57 |
| SW-19UA | 6/7/2004 | 27.99 | 9.94 | 18.05 |
| SW-19UA | 9/7/2004 | 27.99 | 10.47 | 17.52 |
| SW-19UA | 12/6/2004 | 27.99 | 10.69 | 17.30 |
| SW-19UA | 2/28/2005 | 27.99 | 9.48 | 18.51 |
| SW-19UA | 2/28/2005 | 27.99 | 9.55 | 18.44 |
| SW-19UA | 9/12/2005 | 27.99 | 10.27 | 17.72 |
| SW-19UA | 11/28/2005 | 27.99 | 10.69 | 17.30 |
| SW-19UA | 3/6/2006 | 27.99 | 9.70 | 18.29 |
| SW-19UA | 6/5/2006 | 27.99 | 9.15 | 18.84 |
| SW-19UA | 8/29/2006 | 27.99 | 10.29 | 17.70 |
| SW-19UA | 8/30/2006 | 27.99 | 9.86 | 18.13 |
| SW-19UA | 3/6/2007 | 27.99 | 9.63 | 18.36 |
| SW-19UA | 5/25/2007 | 27.99 | 9.92 | 18.07 |
| SW-19UA | 8/27/2007 | 27.99 | 10.45 | 17.54 |
| SW-19UA | 11/27/2007 | 27.99 | 10.67 | 17.32 |
| SW-19UA | 2/25/2008 | 27.99 | 9.55 | 18.44 |
| SW-19UA | 6/17/2008 | 27.99 | 10.32 | 17.67 |
| SW-19UA | 9/8/2008 | 27.99 | 10.76 | 17.23 |
| SW-20UA | 6/2/2003 | 45.87 | 25.49 | 20.38 |
| SW-20UA | 8/25/2003 | 45.87 | 26.19 | 19.68 |
| SW-20UA | 12/15/2003 | 45.87 | 26.77 | 19.10 |
| SW-20UA | 3/25/2004 | 45.87 | 24.99 | 20.88 |
| SW-20UA | 6/7/2004 | 45.87 | 25.51 | 20.36 |
| SW-20UA | 9/7/2004 | 45.87 | 26.28 | 19.59 |
| SW-20UA | 12/6/2004 | 45.87 | 26.68 | 19.19 |
| SW-20UA | 2/28/2005 | 45.87 | 25.64 | 20.23 |
| SW-20UA | 2/28/2005 | 45.87 | 24.80 | 21.07 |
| SW-20UA | 9/12/2005 | 45.87 | 25.92 | 19.95 |
| SW-20UA | 11/28/2005 | 45.87 | 26.54 | 19.33 |
| SW-20UA | 3/6/2006 | 45.87 | 25.50 | 20.37 |
| SW-20UA | 6/5/2006 | 45.87 | 24.16 | 21.71 |
| SW-20UA | 8/29/2006 | 45.87 | 26.11 | 19.76 |
| SW-20UA | 8/30/2006 | 45.87 | 25.11 | 20.76 |
| SW-20UA | 3/6/2007 | 45.87 | 25.60 | 20.27 |
| SW-20UA | 5/25/2007 | 45.87 | 25.67 | 20.20 |
| SW-20UA | 8/27/2007 | 45.87 | 26.30 | 19.57 |
| SW-20UA | 11/27/2007 | 45.87 | 26.73 | 19.14 |
| SW-20UA | 2/25/2008 | 45.87 | 25.69 | 20.18 |
| SW-20UA | 6/17/2008 | 45.87 | 26.17 | 19.70 |
| SW-20UA | 9/8/2008 | 45.87 | 26.78 | 19.09 |
| SW-21UA | 6/2/2003 | 45.68 | 24.20 | 21.48 |
| SW-21UA | 8/25/2003 | 45.68 | 25.17 | 20.51 |
| SW-21UA | 12/15/2003 | 45.68 | 25.75 | 19.93 |
| SW-21UA | 3/25/2004 | 45.68 | 23.63 | 22.05 |
| SW-21UA | 6/7/2004 | 45.68 | 24.32 | 21.36 |
| SW-21UA | 9/7/2004 | 45.68 | 25.28 | 20.40 |
| SW-21UA | 12/6/2004 | 45.68 | 25.77 | 19.91 |
| SW-21UA | 2/28/2005 | 45.68 | 24.32 | 21.36 |
| SW-21UA | 2/28/2005 | 45.68 | 23.47 | 22.21 |
| SW-21UA | 9/12/2005 | 45.68 | 24.67 | 21.01 |
| SW-21UA | 11/28/2005 | 45.68 | 25.43 | 20.25 |
| SW-21UA | 3/6/2006 | 45.68 | 24.00 | 21.68 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-21UA | 6/5/2006 | 45.68 | 22.34 | 23.34 |
| SW-21UA | 8/29/2006 | 45.68 | 24.08 | 21.60 |
| SW-21UA | 8/30/2006 | 45.68 | 23.62 | 22.06 |
| SW-21UA | 3/6/2007 | 45.68 | 24.20 | 21.48 |
| SW-21UA | 5/25/2007 | 45.68 | 24.32 | 21.36 |
| SW-21UA | 8/27/2007 | 45.68 | 25.00 | 20.68 |
| SW-21UA | 11/27/2007 | 45.68 | 25.48 | 20.20 |
| SW-21UA | 2/25/2008 | 45.68 | 24.28 | 21.40 |
| SW-21UA | 6/17/2008 | 45.68 | 24.89 | 20.79 |
| SW-21UA | 9/8/2008 | 45.68 | 25.50 | 20.18 |
| SW-22UA | 6/2/2003 | 45.70 | 24.73 | 20.97 |
| SW-22UA | 8/25/2003 | 45.70 | 25.46 | 20.24 |
| SW-22UA | 12/15/2003 | 45.70 | 25.73 | 19.97 |
| SW-22UA | 3/25/2004 | 45.70 | 24.57 | 21.13 |
| SW-22UA | 6/7/2004 | 45.70 | 24.74 | 20.96 |
| SW-22UA | 9/7/2004 | 45.70 | 25.55 | 20.15 |
| SW-22UA | 12/6/2004 | 45.70 | 25.77 | 19.93 |
| SW-22UA | 2/28/2005 | 45.70 | 24.84 | 20.86 |
| SW-22UA | 2/28/2005 | 45.70 | 24.47 | 21.23 |
| SW-22UA | 9/12/2005 | 45.70 | 25.39 | 20.31 |
| SW-22UA | 11/28/2005 | 45.70 | 26.03 | 19.67 |
| SW-22UA | 3/6/2006 | 45.70 | 24.96 | 20.74 |
| SW-22UA | 6/5/2006 | 45.70 | 23.88 | 21.82 |
| SW-22UA | 8/29/2006 | 45.70 | 25.78 | 19.92 |
| SW-22UA | 8/30/2006 | 45.70 | 24.80 | 20.90 |
| SW-22UA | 3/6/2007 | 45.70 | 25.18 | 20.52 |
| SW-22UA | 5/25/2007 | 45.70 | 25.32 | 20.38 |
| SW-22UA | 8/27/2007 | 45.70 | 26.15 | 19.55 |
| SW-22UA | 11/27/2007 | 45.70 | 26.47 | 19.23 |
| SW-22UA | 2/25/2008 | 45.70 | 25.25 | 20.45 |
| SW-22UA | 6/17/2008 | 45.70 | 25.95 | 19.75 |
| SW-22UA | 9/8/2008 | 45.70 | 26.68 | 19.02 |
| SW-22UA | 11/3/2008 | 45.70 | 26.81 | 18.89 |
| SW-23UA | 6/2/2003 | 45.72 | 26.74 | 18.98 |
| SW-23UA | 8/25/2003 | 45.72 | 27.45 | 18.27 |
| SW-23UA | 12/15/2003 | 45.72 | 28.97 | 16.75 |
| SW-23UA | 3/25/2004 | 45.72 | 26.82 | 18.90 |
| SW-23UA | 6/7/2004 | 45.72 | 26.96 | 18.76 |
| SW-23UA | 9/7/2004 | 45.72 | 27.69 | 18.03 |
| SW-23UA | 12/6/2004 | 45.72 | 27.73 | 17.99 |
| SW-23UA | 2/28/2005 | 45.72 | 27.05 | 18.67 |
| SW-23UA | 2/28/2005 | 45.72 | 26.82 | 18.90 |
| SW-23UA | 9/12/2005 | 45.72 | 27.64 | 18.08 |
| SW-23UA | 11/28/2005 | 45.72 | 28.05 | 17.67 |
| SW-23UA | 3/6/2006 | 45.72 | 27.12 | 18.60 |
| SW-23UA | 6/5/2006 | 45.72 | 26.33 | 19.39 |
| SW-23UA | 8/29/2006 | 45.72 | 27.66 | 18.06 |
| SW-23UA | 8/30/2006 | 45.72 | 27.16 | 18.56 |
| SW-23UA | 3/6/2007 | 45.72 | 27.38 | 18.34 |
| SW-23UA | 5/25/2007 | 45.72 | 27.42 | 18.30 |
| SW-23UA | 8/27/2007 | 45.72 | 28.08 | 17.64 |
| SW-23UA | 11/27/2007 | 45.72 | 28.89 | 16.83 |
| SW-23UA | 2/25/2008 | 45.72 | 26.80 | 18.92 |
| SW-23UA | 6/17/2008 | 45.72 | 29.34 | 16.38 |
| SW-23UA | 9/8/2008 | 45.72 | 28.35 | 17.37 |
| SW-23UA | 11/3/2008 | 45.72 | 28.48 | 17.24 |
| TRW-1 | 9/8/2008 | 22.39 | 9.38 | 13.01 |
| TRW-1 | 11/3/2008 | 22.39 | 9.23 | 13.16 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|-----------------|------------|--|---------------------------------------|-------------------------------------|
| TRW-2 | 12/8/2000 | 46.22 | 20.91 | 25.31 |
| TRW-2 | 4/13/2001 | 46.22 | 19.62 | 26.60 |
| TRW-2 | 8/6/2001 | 46.22 | 21.20 | 25.02 |
| TRW-2 | 12/7/2001 | 46.22 | 20.01 | 26.21 |
| TRW-2 | 3/15/2002 | 46.22 | 17.95 | 28.27 |
| TRW-2 | 6/3/2002 | 46.22 | 19.02 | 27.20 |
| TRW-2 | 9/9/2002 | 46.22 | 17.89 | 28.33 |
| TRW-2 | 12/10/2002 | 46.22 | 20.90 | 25.32 |
| TRW-2 | 3/2/2003 | 46.22 | 18.45 | 27.77 |
| TRW-2 | 6/2/2003 | 46.22 | 18.44 | 27.78 |
| TRW-2 | 8/25/2003 | 46.22 | 19.56 | 26.66 |
| TRW-2 | 12/15/2003 | 46.22 | 19.85 | 26.37 |
| TRW-2 | 3/25/2004 | 46.22 | 15.98 | 30.24 |
| TRW-2 | 6/7/2004 | 46.22 | 18.82 | 27.40 |
| TRW-2 | 9/7/2004 | 46.22 | 24.60 | 21.62 |
| TRW-2 | 12/6/2004 | 46.22 | 20.96 | 25.26 |
| TRW-2 | 2/28/2005 | 46.22 | 17.79 | 28.43 |
| TRW-2 | 2/28/2005 | 46.22 | 16.95 | 29.27 |
| TRW-2 | 9/12/2005 | 46.22 | 19.79 | 26.43 |
| TRW-2 | 11/28/2005 | 46.22 | 20.62 | 25.60 |
| TRW-2 | 3/6/2006 | 46.22 | 17.56 | 28.66 |
| TRW-2 | 6/5/2006 | 46.22 | 14.99 | 31.23 |
| TRW-2 | 8/29/2006 | 46.22 | 19.97 | 26.25 |
| TRW-2 | 8/30/2006 | 46.22 | 18.25 | 27.97 |
| TRW-2 | 3/6/2007 | 46.22 | 18.69 | 27.53 |
| TRW-2 | 5/25/2007 | 46.22 | 19.29 | 26.93 |
| TRW-2 | 8/27/2007 | 46.22 | 20.48 | 25.74 |
| TRW-2 | 11/27/2007 | 46.22 | 21.11 | 25.11 |
| TRW-2 | 2/25/2008 | 46.22 | 18.96 | 27.26 |
| TRW-2 | 6/17/2008 | 46.22 | 20.35 | 25.87 |
| TRW-2 | 9/8/2008 | 46.22 | 21.28 | 24.94 |
| TRW-2 | 11/3/2008 | 46.22 | 21.59 | 24.63 |
| Lower A Aquifer | | | | |
| BMW-1 | 9/8/2008 | 17.25 | 6.68 | 10.57 |
| BMW-2 | 9/8/2008 | 15.62 | 3.64 | 11.98 |
| GT-3 | 9/8/2008 | 14.39 | 5.37 | 9.02 |
| GT-3 | 11/3/2008 | 14.39 | 5.68 | 8.71 |
| GWE-6 | 9/8/2008 | 14.95 | 5.27 | 9.68 |
| GWE-7 | 9/8/2008 | 12.08 | 1.95 | 10.13 |
| GWE-8 | 9/8/2008 | 14.40 | 3.79 | 10.61 |
| LF-10B | 9/8/2008 | 16.35 | 5.68 | 10.67 |
| LF-10B | 11/3/2008 | 16.35 | 5.79 | 10.56 |
| LF-12A | 9/8/2008 | 23.45 | 10.41 | 13.04 |
| LF-12A | 11/3/2008 | 23.45 | 10.62 | 12.83 |
| LF-1AR | 9/8/2008 | 11.83 | 8.88 | 2.95 |
| LF-9B | 9/8/2008 | 15.95 | 6.42 | 9.53 |
| MK-4B | 9/8/2008 | 18.02 | 7.35 | 10.67 |
| MK-4B | 11/3/2008 | 18.02 | 7.39 | 10.63 |
| MW-5AF | 9/8/2008 | 12.19 | 4.63 | 7.56 |
| MW-5AF | 11/3/2008 | 12.19 | 4.36 | 7.83 |
| MK-5B | 9/8/2008 | 11.77 | 0.94 | 10.83 |
| MK-5B | 11/3/2008 | 11.77 | 1.05 | 10.72 |
| MK-6B | 9/8/2008 | 17.00 | 4.86 | 12.14 |
| MK-6B | 11/3/2008 | 17.00 | 5.04 | 11.96 |
| MW-11B | 9/8/2008 | 15.17 | 3.53 | 11.64 |
| MW-11B | 11/3/2008 | 15.17 | 3.70 | 11.47 |
| MW-2B | 9/8/2008 | 13.88 | 0.55 | 13.33 |
| MW-2B | 11/3/2008 | 13.88 | 0.63 | 13.25 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| MW-6B | 9/8/2008 | 13.97 | 3.47 | 10.50 |
| MW-6B | 11/3/2008 | 13.97 | 3.48 | 10.49 |
| SW-02LA | 5/26/2000 | 23.64 | 4.08 | 19.56 |
| SW-02LA | 9/6/2000 | 23.64 | 4.89 | 18.75 |
| SW-02LA | 12/8/2000 | 23.64 | 5.01 | 18.63 |
| SW-02LA | 4/13/2001 | 23.64 | 4.52 | 19.12 |
| SW-02LA | 8/6/2001 | 23.64 | 5.28 | 18.36 |
| SW-02LA | 12/7/2001 | 23.64 | 4.97 | 18.67 |
| SW-02LA | 3/15/2002 | 23.64 | 4.38 | 19.26 |
| SW-02LA | 6/3/2002 | 23.64 | 4.79 | 18.85 |
| SW-02LA | 9/9/2002 | 23.64 | 5.26 | 18.38 |
| SW-02LA | 12/10/2002 | 23.64 | 5.45 | 18.19 |
| SW-02LA | 3/2/2003 | 23.64 | 4.42 | 19.22 |
| SW-02LA | 6/2/2003 | 23.64 | 4.52 | 19.12 |
| SW-02LA | 8/25/2003 | 23.64 | 5.15 | 18.49 |
| SW-02LA | 12/15/2003 | 23.64 | 4.98 | 18.66 |
| SW-02LA | 3/25/2004 | 23.64 | 4.35 | 19.29 |
| SW-02LA | 6/7/2004 | 23.64 | 5.00 | 18.64 |
| SW-02LA | 9/7/2004 | 23.64 | 5.37 | 18.27 |
| SW-02LA | 12/6/2004 | 23.64 | 5.39 | 18.25 |
| SW-02LA | 2/28/2005 | 23.64 | 4.55 | 19.09 |
| SW-02LA | 2/28/2005 | 23.64 | 4.35 | 19.29 |
| SW-02LA | 9/12/2005 | 23.64 | 5.46 | 18.18 |
| SW-02LA | 11/27/2005 | 23.64 | 5.81 | 17.83 |
| SW-02LA | 3/6/2006 | 23.64 | 4.74 | 18.90 |
| SW-02LA | 6/5/2006 | 23.64 | 4.39 | 19.25 |
| SW-02LA | 8/30/2006 | 23.64 | 5.11 | 18.53 |
| SW-02LA | 11/29/2006 | 23.64 | 5.53 | 18.11 |
| SW-02LA | 3/6/2007 | 23.64 | 4.72 | 18.92 |
| SW-02LA | 5/25/2007 | 23.64 | 5.10 | 18.54 |
| SW-02LA | 8/27/2007 | 23.64 | 5.78 | 17.86 |
| SW-02LA | 11/27/2007 | 23.64 | 5.83 | 17.81 |
| SW-02LA | 2/25/2008 | 23.64 | 4.22 | 19.42 |
| SW-02LA | 6/17/2008 | 23.64 | 5.72 | 17.92 |
| SW-02LA | 9/8/2008 | 23.64 | 6.00 | 17.64 |
| SW-02LA | 11/3/2008 | 23.64 | 6.11 | 17.53 |
| SW-03LA | 5/26/2000 | 29.23 | 11.67 | 17.56 |
| SW-03LA | 9/6/2000 | 29.23 | 12.23 | 17.00 |
| SW-03LA | 12/8/2000 | 29.23 | 12.53 | 16.70 |
| SW-03LA | 4/13/2001 | 29.23 | 12.12 | 17.11 |
| SW-03LA | 8/6/2001 | 29.23 | 12.50 | 16.73 |
| SW-03LA | 12/7/2001 | 29.23 | 12.51 | 16.72 |
| SW-03LA | 3/15/2002 | 29.23 | 11.92 | 17.31 |
| SW-03LA | 6/3/2002 | 29.23 | 12.24 | 16.99 |
| SW-03LA | 9/9/2002 | 29.23 | 12.62 | 16.61 |
| SW-03LA | 12/10/2002 | 29.23 | 14.40 | 14.83 |
| SW-03LA | 3/2/2003 | 29.23 | 11.95 | 17.28 |
| SW-03LA | 6/2/2003 | 29.23 | 12.22 | 17.01 |
| SW-03LA | 8/25/2003 | 29.23 | 12.77 | 16.46 |
| SW-03LA | 12/15/2003 | 29.23 | 12.90 | 16.33 |
| SW-03LA | 3/25/2004 | 29.23 | 12.41 | 16.82 |
| SW-03LA | 6/7/2004 | 29.23 | 12.86 | 16.37 |
| SW-03LA | 9/7/2004 | 29.23 | 13.36 | 15.87 |
| SW-03LA | 12/6/2004 | 29.23 | 13.51 | 15.72 |
| SW-03LA | 2/28/2005 | 29.23 | 12.65 | 16.58 |
| SW-03LA | 2/28/2005 | 29.23 | 12.49 | 16.74 |
| SW-03LA | 9/12/2005 | 29.23 | 13.13 | 16.10 |
| SW-03LA | 11/27/2005 | 29.23 | 13.44 | 15.79 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-03LA | 3/6/2006 | 29.23 | 12.44 | 16.79 |
| SW-03LA | 6/5/2006 | 29.23 | 12.28 | 16.95 |
| SW-03LA | 8/30/2006 | 29.23 | 12.71 | 16.52 |
| SW-03LA | 11/29/2006 | 29.23 | 13.00 | 16.23 |
| SW-03LA | 3/6/2007 | 29.23 | 12.45 | 16.78 |
| SW-03LA | 5/25/2007 | 29.23 | 12.78 | 16.45 |
| SW-03LA | 8/27/2007 | 29.23 | 13.13 | 16.10 |
| SW-03LA | 11/27/2007 | 29.23 | 13.31 | 15.92 |
| SW-03LA | 2/25/2008 | 29.23 | 12.49 | 16.74 |
| SW-03LA | 6/17/2008 | 29.23 | 13.31 | 15.92 |
| SW-03LA | 9/8/2008 | 29.23 | 13.35 | 15.88 |
| SW-03LA | 11/3/2008 | 29.23 | 26.64 | 2.59 |
| SW-04LA | 5/26/2000 | 24.70 | 9.52 | 15.18 |
| SW-04LA | 9/6/2000 | 24.70 | 10.14 | 14.56 |
| SW-04LA | 12/8/2000 | 24.70 | 9.99 | 14.71 |
| SW-04LA | 4/13/2001 | 24.70 | 9.48 | 15.22 |
| SW-04LA | 8/6/2001 | 24.70 | 9.91 | 14.79 |
| SW-04LA | 12/7/2001 | 24.70 | 9.96 | 14.74 |
| SW-04LA | 3/15/2002 | 24.70 | 9.96 | 14.74 |
| SW-04LA | 6/3/2002 | 24.70 | 10.35 | 14.35 |
| SW-04LA | 9/9/2002 | 24.70 | 10.20 | 14.50 |
| SW-04LA | 12/10/2002 | 24.70 | 10.25 | 14.45 |
| SW-04LA | 3/2/2003 | 24.70 | 9.67 | 15.03 |
| SW-04LA | 6/2/2003 | 24.70 | 10.21 | 14.49 |
| SW-04LA | 8/25/2003 | 24.70 | 10.34 | 14.36 |
| SW-04LA | 12/15/2003 | 24.70 | 10.05 | 14.65 |
| SW-04LA | 3/25/2004 | 24.70 | 9.68 | 15.02 |
| SW-04LA | 6/7/2004 | 24.70 | 10.09 | 14.61 |
| SW-04LA | 9/7/2004 | 24.70 | 10.82 | 13.88 |
| SW-04LA | 12/6/2004 | 24.70 | 10.57 | 14.13 |
| SW-04LA | 2/28/2005 | 24.70 | 9.90 | 14.80 |
| SW-04LA | 2/28/2005 | 24.70 | 9.68 | 15.02 |
| SW-04LA | 9/12/2005 | 24.70 | 10.22 | 14.48 |
| SW-04LA | 11/27/2005 | 24.70 | 10.53 | 14.17 |
| SW-04LA | 3/6/2006 | 24.70 | 9.71 | 14.99 |
| SW-04LA | 6/5/2006 | 24.70 | 9.53 | 15.17 |
| SW-04LA | 8/30/2006 | 24.70 | 9.97 | 14.73 |
| SW-04LA | 11/29/2006 | 24.70 | 9.98 | 14.72 |
| SW-04LA | 3/6/2007 | 24.70 | 9.51 | 15.19 |
| SW-04LA | 5/25/2007 | 24.70 | 10.05 | 14.65 |
| SW-04LA | 8/27/2007 | 24.70 | 10.04 | 14.66 |
| SW-04LA | 11/27/2007 | 24.70 | 10.28 | 14.42 |
| SW-04LA | 2/25/2008 | 24.70 | 10.28 | 14.42 |
| SW-04LA | 6/17/2008 | 24.70 | 10.34 | 14.36 |
| SW-04LA | 9/8/2008 | 24.70 | 10.18 | 14.52 |
| SW-04LA | 11/3/2008 | 24.70 | 10.23 | 14.47 |
| SW-05LA | 5/26/2000 | 23.13 | 8.80 | 14.33 |
| SW-05LA | 9/6/2000 | 23.13 | 9.23 | 13.90 |
| SW-05LA | 12/8/2000 | 23.13 | 9.48 | 13.65 |
| SW-05LA | 4/13/2001 | 23.13 | 8.81 | 14.32 |
| SW-05LA | 8/6/2001 | 23.13 | 9.32 | 13.81 |
| SW-05LA | 12/7/2001 | 23.13 | 9.12 | 14.01 |
| SW-05LA | 3/15/2002 | 23.13 | 8.83 | 14.30 |
| SW-05LA | 6/3/2002 | 23.13 | 9.15 | 13.98 |
| SW-05LA | 9/9/2002 | 23.13 | 9.41 | 13.72 |
| SW-05LA | 12/10/2002 | 23.13 | 9.57 | 13.56 |
| SW-05LA | 3/2/2003 | 23.13 | 8.86 | 14.27 |
| SW-05LA | 6/2/2003 | 23.13 | 9.21 | 13.92 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-05LA | 8/25/2003 | 23.13 | 9.58 | 13.55 |
| SW-05LA | 12/15/2003 | 23.13 | 9.28 | 13.85 |
| SW-05LA | 3/25/2004 | 23.13 | 8.98 | 14.15 |
| SW-05LA | 6/7/2004 | 23.13 | 9.47 | 13.66 |
| SW-05LA | 9/7/2004 | 23.13 | 10.79 | 12.34 |
| SW-05LA | 12/6/2004 | 23.13 | 9.80 | 13.33 |
| SW-05LA | 2/28/2005 | 23.13 | 9.04 | 14.09 |
| SW-05LA | 2/28/2005 | 23.13 | 8.94 | 14.19 |
| SW-05LA | 9/12/2005 | 23.13 | 9.51 | 13.62 |
| SW-05LA | 11/27/2005 | 23.13 | 9.72 | 13.41 |
| SW-05LA | 3/6/2006 | 23.13 | 8.71 | 14.42 |
| SW-05LA | 6/5/2006 | 23.13 | 8.78 | 14.35 |
| SW-05LA | 8/30/2006 | 23.13 | 9.10 | 14.03 |
| SW-05LA | 11/29/2006 | 23.13 | 9.25 | 13.88 |
| SW-05LA | 3/6/2007 | 23.13 | 8.69 | 14.44 |
| SW-05LA | 5/25/2007 | 23.13 | 9.04 | 14.09 |
| SW-05LA | 8/27/2007 | 23.13 | 9.30 | 13.83 |
| SW-05LA | 11/27/2007 | 23.13 | 9.49 | 13.64 |
| SW-05LA | 2/25/2008 | 23.13 | 8.51 | 14.62 |
| SW-05LA | 6/17/2008 | 23.13 | 9.38 | 13.75 |
| SW-05LA | 9/8/2008 | 23.13 | 9.38 | 13.75 |
| SW-05LA | 11/3/2008 | 23.13 | 9.26 | 13.87 |
| SW-06LA | 5/26/2000 | 21.56 | 9.64 | 11.92 |
| SW-06LA | 9/6/2000 | 21.56 | 9.64 | 11.92 |
| SW-06LA | 12/8/2000 | 21.56 | 9.87 | 11.69 |
| SW-06LA | 4/13/2001 | 21.56 | 9.52 | 12.04 |
| SW-06LA | 8/6/2001 | 21.56 | 9.83 | 11.73 |
| SW-06LA | 12/7/2001 | 21.56 | 9.65 | 11.91 |
| SW-06LA | 3/15/2002 | 21.56 | 9.59 | 11.97 |
| SW-06LA | 6/3/2002 | 21.56 | 9.88 | 11.68 |
| SW-06LA | 9/9/2002 | 21.56 | 9.94 | 11.62 |
| SW-06LA | 12/10/2002 | 21.56 | 10.15 | 11.41 |
| SW-06LA | 3/2/2003 | 21.56 | 9.61 | 11.95 |
| SW-06LA | 6/2/2003 | 21.56 | 9.61 | 11.95 |
| SW-06LA | 8/25/2003 | 21.56 | 9.90 | 11.66 |
| SW-06LA | 12/15/2003 | 21.56 | 9.80 | 11.76 |
| SW-06LA | 3/25/2004 | 21.56 | 9.55 | 12.01 |
| SW-06LA | 6/7/2004 | 21.56 | 9.88 | 11.68 |
| SW-06LA | 9/7/2004 | 21.56 | 10.21 | 11.35 |
| SW-06LA | 12/6/2004 | 21.56 | 10.19 | 11.37 |
| SW-06LA | 2/28/2005 | 21.56 | 9.60 | 11.96 |
| SW-06LA | 2/28/2005 | 21.56 | 9.50 | 12.06 |
| SW-06LA | 9/12/2005 | 21.56 | 10.00 | 11.56 |
| SW-06LA | 11/27/2005 | 21.56 | 10.23 | 11.33 |
| SW-06LA | 3/6/2006 | 21.56 | 9.27 | 12.29 |
| SW-06LA | 6/5/2006 | 21.56 | 9.38 | 12.18 |
| SW-06LA | 8/30/2006 | 21.56 | 9.68 | 11.88 |
| SW-06LA | 11/29/2006 | 21.56 | 9.75 | 11.81 |
| SW-06LA | 3/6/2007 | 21.56 | 9.38 | 12.18 |
| SW-06LA | 5/25/2007 | 21.56 | 9.69 | 11.87 |
| SW-06LA | 8/27/2007 | 21.56 | 9.86 | 11.70 |
| SW-06LA | 11/27/2007 | 21.56 | 10.02 | 11.54 |
| SW-06LA | 2/25/2008 | 21.56 | 9.41 | 12.15 |
| SW-06LA | 6/17/2008 | 21.56 | 10.15 | 11.41 |
| SW-06LA | 9/8/2008 | 21.56 | 9.80 | 11.76 |
| SW-06LA | 11/3/2008 | 21.56 | 9.74 | 11.82 |
| SW-07LA | 5/26/2000 | 21.18 | 8.79 | 12.39 |
| SW-07LA | 9/6/2000 | 21.18 | 8.88 | 12.30 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-07LA | 12/8/2000 | 21.18 | 9.18 | 12.00 |
| SW-07LA | 4/13/2001 | 21.18 | 8.66 | 12.52 |
| SW-07LA | 8/6/2001 | 21.18 | 9.07 | 12.11 |
| SW-07LA | 12/7/2001 | 21.18 | 8.83 | 12.35 |
| SW-07LA | 3/15/2002 | 21.18 | 8.65 | 12.53 |
| SW-07LA | 6/3/2002 | 21.18 | 9.03 | 12.15 |
| SW-07LA | 9/9/2002 | 21.18 | 9.15 | 12.03 |
| SW-07LA | 12/10/2002 | 21.18 | 9.37 | 11.81 |
| SW-07LA | 3/2/2003 | 21.18 | 8.79 | 12.39 |
| SW-07LA | 6/2/2003 | 21.18 | 8.84 | 12.34 |
| SW-07LA | 8/25/2003 | 21.18 | 9.11 | 12.07 |
| SW-07LA | 12/15/2003 | 21.18 | 9.09 | 12.09 |
| SW-07LA | 3/25/2004 | 21.18 | 8.81 | 12.37 |
| SW-07LA | 6/7/2004 | 21.18 | 6.12 | 15.06 |
| SW-07LA | 9/7/2004 | 21.18 | 9.48 | 11.70 |
| SW-07LA | 12/6/2004 | 21.18 | 9.43 | 11.75 |
| SW-07LA | 2/28/2005 | 21.18 | 8.85 | 12.33 |
| SW-07LA | 2/28/2005 | 21.18 | 8.70 | 12.48 |
| SW-07LA | 9/12/2005 | 21.18 | 9.33 | 11.85 |
| SW-07LA | 11/27/2005 | 21.18 | 9.52 | 11.66 |
| SW-07LA | 3/6/2006 | 21.18 | 8.57 | 12.61 |
| SW-07LA | 6/5/2006 | 21.18 | 8.71 | 12.47 |
| SW-07LA | 8/30/2006 | 21.18 | 8.99 | 12.19 |
| SW-07LA | 11/29/2006 | 21.18 | 9.03 | 12.15 |
| SW-07LA | 3/6/2007 | 21.18 | 8.64 | 12.54 |
| SW-07LA | 5/25/2007 | 21.18 | 8.97 | 12.21 |
| SW-07LA | 8/27/2007 | 21.18 | 9.15 | 12.03 |
| SW-07LA | 11/27/2007 | 21.18 | 9.31 | 11.87 |
| SW-07LA | 2/25/2008 | 21.18 | 8.64 | 12.54 |
| SW-07LA | 6/17/2008 | 21.18 | 9.42 | 11.76 |
| SW-07LA | 9/8/2008 | 21.18 | 9.03 | 12.15 |
| SW-08LA | 5/26/2000 | 19.10 | 8.50 | 10.60 |
| SW-08LA | 9/6/2000 | 19.10 | 7.94 | 11.16 |
| SW-08LA | 12/8/2000 | 19.10 | 8.18 | 10.92 |
| SW-08LA | 4/13/2001 | 19.10 | 7.81 | 11.29 |
| SW-08LA | 8/6/2001 | 19.10 | 8.76 | 10.34 |
| SW-08LA | 12/7/2001 | 19.10 | 7.90 | 11.20 |
| SW-08LA | 3/15/2002 | 19.10 | 7.78 | 11.32 |
| SW-08LA | 6/3/2002 | 19.10 | 8.19 | 10.91 |
| SW-08LA | 9/9/2002 | 19.10 | 8.16 | 10.94 |
| SW-08LA | 12/10/2002 | 19.10 | 8.40 | 10.70 |
| SW-08LA | 3/2/2003 | 19.10 | 7.98 | 11.12 |
| SW-08LA | 6/2/2003 | 19.10 | 7.93 | 11.17 |
| SW-08LA | 8/25/2003 | 19.10 | 8.16 | 10.94 |
| SW-08LA | 12/15/2003 | 19.10 | 8.12 | 10.98 |
| SW-08LA | 3/25/2004 | 19.10 | 7.90 | 11.20 |
| SW-08LA | 6/7/2004 | 19.10 | 8.24 | 10.86 |
| SW-08LA | 9/7/2004 | 19.10 | 8.59 | 10.51 |
| SW-08LA | 12/6/2004 | 19.10 | 8.48 | 10.62 |
| SW-08LA | 2/28/2005 | 19.10 | 8.05 | 11.05 |
| SW-08LA | 2/28/2005 | 19.10 | 7.85 | 11.25 |
| SW-08LA | 9/12/2005 | 19.10 | 8.47 | 10.63 |
| SW-08LA | 11/27/2005 | 19.10 | 8.63 | 10.47 |
| SW-08LA | 3/6/2006 | 19.10 | 7.62 | 11.48 |
| SW-08LA | 6/5/2006 | 19.10 | 7.90 | 11.20 |
| SW-08LA | 8/30/2006 | 19.10 | 8.15 | 10.95 |
| SW-08LA | 11/29/2006 | 19.10 | 8.09 | 11.01 |
| SW-08LA | 3/6/2007 | 19.10 | 7.82 | 11.28 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-08LA | 5/25/2007 | 19.10 | 8.11 | 10.99 |
| SW-08LA | 8/27/2007 | 19.10 | 8.27 | 10.83 |
| SW-08LA | 11/27/2007 | 19.10 | 8.40 | 10.70 |
| SW-08LA | 2/25/2008 | 19.10 | 7.75 | 11.35 |
| SW-08LA | 6/17/2008 | 19.10 | 8.65 | 10.45 |
| SW-08LA | 9/8/2008 | 19.10 | 8.05 | 11.05 |
| SW-08LA | 11/3/2008 | 19.10 | 7.97 | 11.13 |
| SW-09LA | 5/26/2000 | 17.38 | 6.39 | 10.99 |
| SW-09LA | 9/6/2000 | 17.38 | 6.24 | 11.14 |
| SW-09LA | 12/8/2000 | 17.38 | 6.48 | 10.90 |
| SW-09LA | 4/13/2001 | 17.38 | 6.22 | 11.16 |
| SW-09LA | 8/6/2001 | 17.38 | 6.51 | 10.87 |
| SW-09LA | 12/7/2001 | 17.38 | 6.22 | 11.16 |
| SW-09LA | 3/15/2002 | 17.38 | 6.04 | 11.34 |
| SW-09LA | 6/3/2002 | 17.38 | 6.49 | 10.89 |
| SW-09LA | 9/9/2002 | 17.38 | 6.49 | 10.89 |
| SW-09LA | 12/10/2002 | 17.38 | 6.80 | 10.58 |
| SW-09LA | 3/2/2003 | 17.38 | 6.29 | 11.09 |
| SW-09LA | 6/2/2003 | 17.38 | 6.29 | 11.09 |
| SW-09LA | 8/25/2003 | 17.38 | 6.58 | 10.80 |
| SW-09LA | 12/15/2003 | 17.38 | 6.40 | 10.98 |
| SW-09LA | 3/25/2004 | 17.38 | 6.22 | 11.16 |
| SW-09LA | 6/7/2004 | 17.38 | 6.65 | 10.73 |
| SW-09LA | 9/7/2004 | 17.38 | 7.07 | 10.31 |
| SW-09LA | 12/6/2004 | 17.38 | 6.79 | 10.59 |
| SW-09LA | 2/28/2005 | 17.38 | 6.40 | 10.98 |
| SW-09LA | 9/12/2005 | 17.38 | 6.90 | 10.48 |
| SW-09LA | 11/27/2005 | 17.38 | 7.06 | 10.32 |
| SW-09LA | 3/6/2006 | 17.38 | 5.94 | 11.44 |
| SW-09LA | 6/5/2006 | 17.38 | 6.32 | 11.06 |
| SW-09LA | 8/30/2006 | 17.38 | 6.63 | 10.75 |
| SW-09LA | 11/29/2006 | 17.38 | 6.51 | 10.87 |
| SW-09LA | 3/6/2007 | 17.38 | 6.12 | 11.26 |
| SW-09LA | 5/25/2007 | 17.38 | 6.48 | 10.90 |
| SW-09LA | 8/27/2007 | 17.38 | 6.70 | 10.68 |
| SW-09LA | 11/27/2007 | 17.38 | 6.80 | 10.58 |
| SW-09LA | 2/25/2008 | 17.38 | 6.08 | 11.30 |
| SW-09LA | 6/17/2008 | 17.38 | 7.10 | 10.28 |
| SW-09LA | 9/8/2008 | 17.38 | 6.34 | 11.04 |
| SW-09LA | 11/3/2008 | 17.38 | 6.27 | 11.11 |
| SW-10LA | 5/26/2000 | 21.48 | 10.90 | 10.58 |
| SW-10LA | 9/6/2000 | 21.48 | 10.76 | 10.72 |
| SW-10LA | 12/8/2000 | 21.48 | 10.95 | 10.53 |
| SW-10LA | 4/13/2001 | 21.48 | 10.79 | 10.69 |
| SW-10LA | 8/6/2001 | 21.48 | 11.11 | 10.37 |
| SW-10LA | 12/7/2001 | 21.48 | 10.68 | 10.80 |
| SW-10LA | 3/15/2002 | 21.48 | 10.74 | 10.74 |
| SW-10LA | 6/3/2002 | 21.48 | 11.17 | 10.31 |
| SW-10LA | 9/9/2002 | 21.48 | 11.02 | 10.46 |
| SW-10LA | 12/10/2002 | 21.48 | 11.31 | 10.17 |
| SW-10LA | 3/2/2003 | 21.48 | 10.92 | 10.56 |
| SW-10LA | 6/2/2003 | 21.48 | 10.79 | 10.69 |
| SW-10LA | 8/25/2003 | 21.48 | 10.99 | 10.49 |
| SW-10LA | 12/15/2003 | 21.48 | 10.90 | 10.58 |
| SW-10LA | 3/25/2004 | 21.48 | 10.76 | 10.72 |
| SW-10LA | 6/7/2004 | 21.48 | 11.12 | 10.36 |
| SW-10LA | 9/7/2004 | 21.48 | 11.45 | 10.03 |
| SW-10LA | 12/6/2004 | 21.48 | 11.35 | 10.13 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-10LA | 2/28/2005 | 21.48 | 10.89 | 10.59 |
| SW-10LA | 2/28/2005 | 21.48 | 10.75 | 10.73 |
| SW-10LA | 9/12/2005 | 21.48 | 11.31 | 10.17 |
| SW-10LA | 11/27/2005 | 21.48 | 11.50 | 9.98 |
| SW-10LA | 3/6/2006 | 21.48 | 10.36 | 11.12 |
| SW-10LA | 6/5/2006 | 21.48 | 10.65 | 10.83 |
| SW-10LA | 8/30/2006 | 21.48 | 10.97 | 10.51 |
| SW-10LA | 11/29/2006 | 21.48 | 10.85 | 10.63 |
| SW-10LA | 3/6/2007 | 21.48 | 10.64 | 10.84 |
| SW-10LA | 5/25/2007 | 21.48 | 10.90 | 10.58 |
| SW-10LA | 8/27/2007 | 21.48 | 11.02 | 10.46 |
| SW-10LA | 11/27/2007 | 21.48 | 11.19 | 10.29 |
| SW-10LA | 2/25/2008 | 21.48 | 10.62 | 10.86 |
| SW-10LA | 6/17/2008 | 21.48 | 11.35 | 10.13 |
| SW-10LA | 9/8/2008 | 21.48 | 10.76 | 10.72 |
| SW-11LA | 5/26/2000 | 15.38 | 6.93 | 8.45 |
| SW-11LA | 9/6/2000 | 15.38 | 6.39 | 8.99 |
| SW-11LA | 12/8/2000 | 15.38 | 6.56 | 8.82 |
| SW-11LA | 4/13/2001 | 15.38 | 6.73 | 8.65 |
| SW-11LA | 8/6/2001 | 15.38 | 7.06 | 8.32 |
| SW-11LA | 12/7/2001 | 15.38 | 6.26 | 9.12 |
| SW-11LA | 3/15/2002 | 15.38 | 6.63 | 8.75 |
| SW-11LA | 6/3/2002 | 15.38 | 7.34 | 8.04 |
| SW-11LA | 9/9/2002 | 15.38 | 6.73 | 8.65 |
| SW-11LA | 12/10/2002 | 15.38 | 7.17 | 8.21 |
| SW-11LA | 3/2/2003 | 15.38 | 6.85 | 8.53 |
| SW-11LA | 6/2/2003 | 15.38 | 6.33 | 9.05 |
| SW-11LA | 8/25/2003 | 15.38 | 6.50 | 8.88 |
| SW-11LA | 12/15/2003 | 15.38 | 6.35 | 9.03 |
| SW-11LA | 3/25/2004 | 15.38 | 6.30 | 9.08 |
| SW-11LA | 6/7/2004 | 15.38 | 7.13 | 8.25 |
| SW-11LA | 9/7/2004 | 15.38 | 7.36 | 8.02 |
| SW-11LA | 12/6/2004 | 15.38 | 7.09 | 8.29 |
| SW-11LA | 2/28/2005 | 15.38 | 6.98 | 8.40 |
| SW-11LA | 2/28/2005 | 15.38 | 6.66 | 8.72 |
| SW-11LA | 9/12/2005 | 15.38 | 7.24 | 8.14 |
| SW-11LA | 11/27/2005 | 15.38 | 7.37 | 8.01 |
| SW-11LA | 3/6/2006 | 15.38 | 6.06 | 9.32 |
| SW-11LA | 6/5/2006 | 15.38 | 6.04 | 9.34 |
| SW-11LA | 8/30/2006 | 15.38 | 6.79 | 8.59 |
| SW-11LA | 11/29/2006 | 15.38 | 6.31 | 9.07 |
| SW-11LA | 3/6/2007 | 15.38 | 6.42 | 8.96 |
| SW-11LA | 5/25/2007 | 15.38 | 6.69 | 8.69 |
| SW-11LA | 8/27/2007 | 15.38 | 6.74 | 8.64 |
| SW-11LA | 11/27/2007 | 15.38 | 6.79 | 8.59 |
| SW-11LA | 2/25/2008 | 15.38 | 6.34 | 9.04 |
| SW-11LA | 6/17/2008 | 15.38 | 7.20 | 8.18 |
| SW-11LA | 9/8/2008 | 15.38 | 6.12 | 9.26 |
| SW-11LA | 11/3/2008 | 15.38 | 6.12 | 9.26 |
| SW-12LA | 5/26/2000 | 12.82 | 3.48 | 9.34 |
| SW-12LA | 9/6/2000 | 12.82 | 2.72 | 10.10 |
| SW-12LA | 12/8/2000 | 12.82 | 2.96 | 9.86 |
| SW-12LA | 4/13/2001 | 12.82 | 3.17 | 9.65 |
| SW-12LA | 8/6/2001 | 12.82 | 3.46 | 9.36 |
| SW-12LA | 12/7/2001 | 12.82 | 2.48 | 10.34 |
| SW-12LA | 3/15/2002 | 12.82 | 3.04 | 9.78 |
| SW-12LA | 6/3/2002 | 12.82 | 3.52 | 9.30 |
| SW-12LA | 9/9/2002 | 12.82 | 2.95 | 9.87 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-12LA | 12/10/2002 | 12.82 | 3.79 | 9.03 |
| SW-12LA | 3/2/2003 | 12.82 | 3.41 | 9.41 |
| SW-12LA | 6/2/2003 | 12.82 | 2.98 | 9.84 |
| SW-12LA | 8/25/2003 | 12.82 | 2.96 | 9.86 |
| SW-12LA | 12/15/2003 | 12.82 | 2.82 | 10.00 |
| SW-12LA | 3/25/2004 | 12.82 | 2.76 | 10.06 |
| SW-12LA | 6/7/2004 | 12.82 | 3.69 | 9.13 |
| SW-12LA | 9/7/2004 | 12.82 | 3.99 | 8.83 |
| SW-12LA | 12/6/2004 | 12.82 | 3.59 | 9.23 |
| SW-12LA | 2/28/2005 | 12.82 | 3.24 | 9.58 |
| SW-12LA | 2/28/2005 | 12.82 | 3.52 | 9.30 |
| SW-12LA | 9/12/2005 | 12.82 | 3.95 | 8.87 |
| SW-12LA | 11/27/2005 | 12.82 | 4.15 | 8.67 |
| SW-12LA | 3/6/2006 | 12.82 | 2.54 | 10.28 |
| SW-12LA | 6/5/2006 | 12.82 | 2.70 | 10.12 |
| SW-12LA | 8/30/2006 | 12.82 | 3.85 | 8.97 |
| SW-12LA | 11/29/2006 | 12.82 | 2.86 | 9.96 |
| SW-12LA | 3/6/2007 | 12.82 | 3.25 | 9.57 |
| SW-12LA | 5/25/2007 | 12.82 | 3.44 | 9.38 |
| SW-12LA | 8/27/2007 | 12.82 | 3.66 | 9.16 |
| SW-12LA | 11/27/2007 | 12.82 | 3.77 | 9.05 |
| SW-12LA | 2/25/2008 | 12.82 | 2.72 | 10.10 |
| SW-12LA | 6/17/2008 | 12.82 | 3.85 | 8.97 |
| SW-12LA | 9/8/2008 | 12.82 | 2.68 | 10.14 |
| SW-12LA | 11/3/2008 | 12.82 | 2.62 | 10.20 |
| SW-13LA | 5/26/2000 | 22.34 | 10.88 | 11.46 |
| SW-13LA | 9/6/2000 | 22.34 | 10.92 | 11.42 |
| SW-13LA | 12/8/2000 | 22.34 | 11.05 | 11.29 |
| SW-13LA | 4/13/2001 | 22.34 | 10.76 | 11.58 |
| SW-13LA | 8/6/2001 | 22.34 | 11.01 | 11.33 |
| SW-13LA | 12/7/2001 | 22.34 | 10.86 | 11.48 |
| SW-13LA | 3/15/2002 | 22.34 | 11.11 | 11.23 |
| SW-13LA | 6/3/2002 | 22.34 | 11.11 | 11.23 |
| SW-13LA | 9/9/2002 | 22.34 | 11.18 | 11.16 |
| SW-13LA | 12/10/2002 | 22.34 | 11.40 | 10.94 |
| SW-13LA | 3/2/2003 | 22.34 | 10.88 | 11.46 |
| SW-13LA | 6/2/2003 | 22.34 | 10.84 | 11.50 |
| SW-13LA | 8/25/2003 | 22.34 | 11.16 | 11.18 |
| SW-13LA | 12/15/2003 | 22.34 | 10.97 | 11.37 |
| SW-13LA | 3/25/2004 | 22.34 | 10.78 | 11.56 |
| SW-13LA | 6/7/2004 | 22.34 | 11.10 | 11.24 |
| SW-13LA | 9/7/2004 | 22.34 | 11.49 | 10.85 |
| SW-13LA | 12/6/2004 | 22.34 | 11.45 | 10.89 |
| SW-13LA | 2/28/2005 | 22.34 | 10.72 | 11.62 |
| SW-13LA | 2/28/2005 | 22.34 | 10.84 | 11.50 |
| SW-13LA | 9/12/2005 | 22.34 | 11.25 | 11.09 |
| SW-13LA | 11/28/2005 | 22.34 | 11.44 | 10.90 |
| SW-13LA | 3/6/2006 | 22.34 | 10.43 | 11.91 |
| SW-13LA | 6/5/2006 | 22.34 | 10.56 | 11.78 |
| SW-13LA | 8/30/2006 | 22.34 | 10.82 | 11.52 |
| SW-13LA | 11/29/2006 | 22.34 | 10.87 | 11.47 |
| SW-13LA | 3/6/2007 | 22.34 | 10.55 | 11.79 |
| SW-13LA | 5/25/2007 | 22.34 | 10.82 | 11.52 |
| SW-13LA | 8/27/2007 | 22.34 | 11.16 | 11.18 |
| SW-13LA | 11/27/2007 | 22.34 | 11.19 | 11.15 |
| SW-13LA | 2/25/2008 | 22.34 | 11.19 | 11.15 |
| SW-13LA | 6/17/2008 | 22.34 | 11.10 | 11.24 |
| SW-13LA | 9/8/2008 | 22.34 | 10.95 | 11.39 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-14LA | 5/26/2000 | 10.34 | 1.29 | 9.05 |
| SW-14LA | 9/6/2000 | 10.34 | 0.58 | 9.76 |
| SW-14LA | 12/8/2000 | 10.34 | 0.81 | 9.53 |
| SW-14LA | 4/13/2001 | 10.34 | 0.96 | 9.38 |
| SW-14LA | 8/6/2001 | 10.34 | 1.46 | 8.88 |
| SW-14LA | 12/7/2001 | 10.34 | 0.66 | 9.68 |
| SW-14LA | 3/15/2002 | 10.34 | 0.58 | 9.76 |
| SW-14LA | 6/3/2002 | 10.34 | 0.74 | 9.60 |
| SW-14LA | 9/9/2002 | 10.34 | 0.89 | 9.45 |
| SW-14LA | 12/10/2002 | 10.34 | 1.53 | 8.81 |
| SW-14LA | 3/2/2003 | 10.34 | 1.17 | 9.17 |
| SW-14LA | 6/2/2003 | 10.34 | 0.64 | 9.70 |
| SW-14LA | 8/25/2003 | 10.34 | 1.13 | 9.21 |
| SW-14LA | 12/15/2003 | 10.34 | 0.48 | 9.86 |
| SW-14LA | 3/25/2004 | 10.34 | 0.54 | 9.80 |
| SW-14LA | 6/7/2004 | 10.34 | 1.51 | 8.83 |
| SW-14LA | 9/7/2004 | 10.34 | 1.87 | 8.47 |
| SW-14LA | 12/6/2004 | 10.34 | 1.03 | 9.31 |
| SW-14LA | 2/28/2005 | 10.34 | 0.38 | 9.96 |
| SW-14LA | 2/28/2005 | 10.34 | 0.58 | 9.76 |
| SW-14LA | 9/12/2005 | 10.34 | 1.57 | 8.77 |
| SW-14LA | 11/28/2005 | 10.34 | 1.68 | 8.66 |
| SW-14LA | 6/5/2006 | 10.34 | 1.25 | 9.09 |
| SW-14LA | 8/30/2006 | 10.34 | 1.25 | 9.09 |
| SW-14LA | 11/29/2006 | 10.34 | 0.66 | 9.68 |
| SW-14LA | 3/6/2007 | 10.34 | 0.82 | 9.52 |
| SW-14LA | 5/25/2007 | 10.34 | 1.04 | 9.30 |
| SW-14LA | 8/27/2007 | 10.34 | 0.69 | 9.65 |
| SW-14LA | 11/27/2007 | 10.34 | 0.76 | 9.58 |
| SW-14LA | 2/25/2008 | 10.34 | 0.00 | 10.34 |
| SW-14LA | 6/17/2008 | 10.34 | 0.00 | 10.34 |
| SW-14LA | 9/8/2008 | 10.34 | 0.00 | 10.34 |
| SW-17LA | 5/26/2000 | 14.92 | 6.72 | 8.20 |
| SW-17LA | 9/6/2000 | 14.92 | 6.21 | 8.71 |
| SW-17LA | 12/8/2000 | 14.92 | 6.24 | 8.68 |
| SW-17LA | 4/13/2001 | 14.92 | 6.28 | 8.64 |
| SW-17LA | 8/6/2001 | 14.92 | 6.68 | 8.24 |
| SW-17LA | 12/7/2001 | 14.92 | 8.95 | 5.97 |
| SW-17LA | 3/15/2002 | 14.92 | 6.14 | 8.78 |
| SW-17LA | 6/3/2002 | 14.92 | 6.88 | 8.04 |
| SW-17LA | 9/9/2002 | 14.92 | 6.39 | 8.53 |
| SW-17LA | 12/10/2002 | 14.92 | 6.82 | 8.10 |
| SW-17LA | 3/2/2003 | 14.92 | 6.55 | 8.37 |
| SW-17LA | 6/2/2003 | 14.92 | 6.16 | 8.76 |
| SW-17LA | 8/25/2003 | 14.92 | 6.36 | 8.56 |
| SW-17LA | 12/15/2003 | 14.92 | 5.81 | 9.11 |
| SW-17LA | 3/25/2004 | 14.92 | 5.96 | 8.96 |
| SW-17LA | 6/7/2004 | 14.92 | 6.73 | 8.19 |
| SW-17LA | 9/7/2004 | 14.92 | 7.14 | 7.78 |
| SW-17LA | 12/6/2004 | 14.92 | 6.54 | 8.38 |
| SW-17LA | 2/28/2005 | 14.92 | 6.17 | 8.75 |
| SW-17LA | 2/28/2005 | 14.92 | 6.58 | 8.34 |
| SW-17LA | 9/12/2005 | 14.92 | 6.82 | 8.10 |
| SW-17LA | 11/28/2005 | 14.92 | 6.96 | 7.96 |
| SW-17LA | 3/6/2006 | 14.92 | 5.54 | 9.38 |
| SW-17LA | 6/5/2006 | 14.92 | 5.73 | 9.19 |
| SW-17LA | 8/30/2006 | 14.92 | 6.54 | 8.38 |
| SW-17LA | 11/29/2006 | 14.92 | 5.97 | 8.95 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-17LA | 3/6/2007 | 14.92 | 6.09 | 8.83 |
| SW-17LA | 5/25/2007 | 14.92 | 6.30 | 8.62 |
| SW-17LA | 8/27/2007 | 14.92 | 6.43 | 8.49 |
| SW-17LA | 11/27/2007 | 14.92 | 6.61 | 8.31 |
| SW-17LA | 2/25/2008 | 14.92 | 6.61 | 8.31 |
| SW-17LA | 6/17/2008 | 14.92 | 6.54 | 8.38 |
| SW-17LA | 9/8/2008 | 14.92 | 5.74 | 9.18 |
| SW-18LA | 4/13/2001 | 12.38 | -1.52 | 13.90 |
| SW-18LA | 8/6/2001 | 12.38 | 1.91 | 10.47 |
| SW-18LA | 12/7/2001 | 12.38 | 2.48 | 9.90 |
| SW-18LA | 3/15/2002 | 12.38 | 1.64 | 10.74 |
| SW-18LA | 6/3/2002 | 12.38 | 2.16 | 10.22 |
| SW-18LA | 9/9/2002 | 12.38 | 1.97 | 10.41 |
| SW-18LA | 12/10/2002 | 12.38 | 2.45 | 9.93 |
| SW-18LA | 3/2/2003 | 12.38 | 2.00 | 10.38 |
| SW-18LA | 6/2/2003 | 12.38 | 1.78 | 10.60 |
| SW-18LA | 8/25/2003 | 12.38 | 2.32 | 10.06 |
| SW-18LA | 12/15/2003 | 12.38 | 2.03 | 10.35 |
| SW-18LA | 3/25/2004 | 12.38 | 1.88 | 10.50 |
| SW-18LA | 6/7/2004 | 12.38 | 2.53 | 9.85 |
| SW-18LA | 9/7/2004 | 12.38 | 2.80 | 9.58 |
| SW-18LA | 12/6/2004 | 12.38 | 2.53 | 9.85 |
| SW-18LA | 2/28/2005 | 12.38 | 1.95 | 10.43 |
| SW-18LA | 2/28/2005 | 12.38 | 2.27 | 10.11 |
| SW-18LA | 9/12/2005 | 12.38 | 2.73 | 9.65 |
| SW-18LA | 11/28/2005 | 12.38 | 2.89 | 9.49 |
| SW-18LA | 3/6/2006 | 12.38 | 1.37 | 11.01 |
| SW-18LA | 6/5/2006 | 12.38 | 0.82 | 11.56 |
| SW-18LA | 8/30/2006 | 12.38 | 2.46 | 9.92 |
| SW-18LA | 11/29/2006 | 12.38 | 2.06 | 10.32 |
| SW-18LA | 3/6/2007 | 12.38 | 1.94 | 10.44 |
| SW-18LA | 5/25/2007 | 12.38 | 2.23 | 10.15 |
| SW-18LA | 8/27/2007 | 12.38 | 2.34 | 10.04 |
| SW-18LA | 11/27/2007 | 12.38 | 2.57 | 9.81 |
| SW-18LA | 2/25/2008 | 12.38 | 1.70 | 10.68 |
| SW-18LA | 6/17/2008 | 12.38 | 2.43 | 9.95 |
| SW-18LA | 9/8/2008 | 12.38 | 1.88 | 10.50 |
| B Aquifer | | | | |
| SW-03B | 5/26/2000 | 29.23 | 2.11 | 27.12 |
| SW-03B | 9/6/2000 | 29.23 | 2.90 | 26.33 |
| SW-03B | 12/8/2000 | 29.23 | 3.14 | 26.09 |
| SW-03B | 4/13/2001 | 29.23 | 2.26 | 26.97 |
| SW-03B | 8/6/2001 | 29.23 | 3.27 | 25.96 |
| SW-03B | 12/7/2001 | 29.23 | 3.33 | 25.90 |
| SW-03B | 3/15/2002 | 29.23 | 2.44 | 26.79 |
| SW-03B | 6/3/2002 | 29.23 | 2.79 | 26.44 |
| SW-03B | 9/9/2002 | 29.23 | 3.22 | 26.01 |
| SW-03B | 12/10/2002 | 29.23 | 3.72 | 25.51 |
| SW-03B | 3/2/2003 | 29.23 | 2.43 | 26.80 |
| SW-03B | 6/2/2003 | 29.23 | 2.43 | 26.80 |
| SW-03B | 8/25/2003 | 29.23 | 3.02 | 26.21 |
| SW-03B | 12/15/2003 | 29.23 | 3.45 | 25.78 |
| SW-03B | 3/25/2004 | 29.23 | 2.30 | 26.93 |
| SW-03B | 6/7/2004 | 29.23 | 2.89 | 26.34 |
| SW-03B | 9/7/2004 | 29.23 | 3.41 | 25.82 |
| SW-03B | 12/6/2004 | 29.23 | 3.53 | 25.70 |
| SW-03B | 2/28/2005 | 29.23 | 2.16 | 27.07 |
| SW-03B | 2/28/2005 | 29.23 | 1.93 | 27.30 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-03B | 9/12/2005 | 29.23 | 2.65 | 26.58 |
| SW-03B | 11/28/2005 | 29.23 | 3.01 | 26.22 |
| SW-03B | 3/6/2006 | 29.23 | 1.68 | 27.55 |
| SW-03B | 6/5/2006 | 29.23 | 1.03 | 28.20 |
| SW-03B | 8/30/2006 | 29.23 | 1.68 | 27.55 |
| SW-03B | 12/22/2006 | 29.23 | 2.37 | 26.86 |
| SW-03B | 3/6/2007 | 29.23 | 1.80 | 27.43 |
| SW-03B | 5/25/2007 | 29.23 | 2.21 | 27.02 |
| SW-03B | 8/27/2007 | 29.23 | 2.62 | 26.61 |
| SW-03B | 11/27/2007 | 29.23 | 3.06 | 26.17 |
| SW-03B | 2/25/2008 | 29.23 | 2.14 | 27.09 |
| SW-03B | 6/17/2008 | 29.23 | 3.06 | 26.17 |
| SW-03B | 9/8/2008 | 29.23 | 3.25 | 25.98 |
| SW-04B | 5/26/2000 | 24.70 | -2.01 | 26.71 |
| SW-04B | 9/6/2000 | 24.70 | -1.28 | 25.98 |
| SW-04B | 12/8/2000 | 24.70 | -1.06 | 25.76 |
| SW-04B | 4/13/2001 | 24.70 | -1.45 | 26.15 |
| SW-04B | 8/6/2001 | 24.70 | -0.76 | 25.46 |
| SW-04B | 12/7/2001 | 24.70 | -0.71 | 25.41 |
| SW-04B | 3/15/2002 | 24.70 | -1.57 | 26.27 |
| SW-04B | 6/3/2002 | 24.70 | -1.30 | 26.00 |
| SW-04B | 9/9/2002 | 24.70 | -0.59 | 25.29 |
| SW-04B | 12/10/2002 | 24.70 | -1.03 | 25.73 |
| SW-04B | 3/2/2003 | 24.70 | -1.62 | 26.32 |
| SW-04B | 6/2/2003 | 24.70 | -1.69 | 26.39 |
| SW-04B | 8/25/2003 | 24.70 | -0.96 | 25.66 |
| SW-04B | 12/15/2003 | 24.70 | -0.73 | 25.43 |
| SW-04B | 3/25/2004 | 24.70 | -1.76 | 26.46 |
| SW-04B | 6/7/2004 | 24.70 | -1.19 | 25.89 |
| SW-04B | 9/7/2004 | 24.70 | -0.61 | 25.31 |
| SW-04B | 12/6/2004 | 24.70 | -0.66 | 25.36 |
| SW-04B | 2/28/2005 | 24.70 | -1.89 | 26.59 |
| SW-04B | 2/28/2005 | 24.70 | -2.12 | 26.82 |
| SW-04B | 9/12/2005 | 24.70 | -1.43 | 26.13 |
| SW-04B | 11/28/2005 | 24.70 | -1.11 | 25.81 |
| SW-04B | 3/6/2006 | 24.70 | -2.29 | 26.99 |
| SW-04B | 6/5/2006 | 24.70 | -3.07 | 27.77 |
| SW-04B | 8/30/2006 | 24.70 | -2.41 | 27.11 |
| SW-04B | 12/22/2006 | 24.70 | -2.18 | 26.88 |
| SW-04B | 3/6/2007 | 24.70 | -2.36 | 27.06 |
| SW-04B | 5/25/2007 | 24.70 | -2.06 | 26.76 |
| SW-04B | 8/27/2007 | 24.70 | -1.57 | 26.27 |
| SW-04B | 11/27/2007 | 24.70 | -1.12 | 25.82 |
| SW-04B | 2/25/2008 | 24.70 | -1.12 | 25.82 |
| SW-04B | 6/17/2008 | 24.70 | -1.12 | 25.82 |
| SW-04B | 9/8/2008 | 24.70 | -1.08 | 25.78 |
| SW-04B | 11/3/2008 | 24.70 | -1.01 | 25.71 |
| SW-05B | 5/26/2000 | 23.13 | -2.52 | 25.65 |
| SW-05B | 9/6/2000 | 23.13 | -1.84 | 24.97 |
| SW-05B | 12/8/2000 | 23.13 | -1.67 | 24.80 |
| SW-05B | 4/13/2001 | 23.13 | -2.11 | 25.24 |
| SW-05B | 8/6/2001 | 23.13 | -1.50 | 24.63 |
| SW-05B | 12/7/2001 | 23.13 | -1.45 | 24.58 |
| SW-05B | 3/15/2002 | 23.13 | -2.29 | 25.42 |
| SW-05B | 6/3/2002 | 23.13 | -2.03 | 25.16 |
| SW-05B | 9/9/2002 | 23.13 | -1.68 | 24.81 |
| SW-05B | 12/10/2002 | 23.13 | -1.22 | 24.35 |
| SW-05B | 3/2/2003 | 23.13 | -2.32 | 25.45 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-05B | 6/2/2003 | 23.13 | -2.35 | 25.48 |
| SW-05B | 8/25/2003 | 23.13 | -1.79 | 24.92 |
| SW-05B | 12/15/2003 | 23.13 | -1.37 | 24.50 |
| SW-05B | 3/25/2004 | 23.13 | -2.44 | 25.57 |
| SW-05B | 6/7/2004 | 23.13 | -1.61 | 24.74 |
| SW-05B | 9/7/2004 | 23.13 | -1.13 | 24.26 |
| SW-05B | 12/6/2004 | 23.13 | -1.13 | 24.26 |
| SW-05B | 2/28/2005 | 23.13 | -2.57 | 25.70 |
| SW-05B | 2/28/2005 | 23.13 | -2.75 | 25.88 |
| SW-05B | 9/12/2005 | 23.13 | -2.11 | 25.24 |
| SW-05B | 11/28/2005 | 23.13 | -1.74 | 24.87 |
| SW-05B | 3/6/2006 | 23.13 | -2.98 | 26.11 |
| SW-05B | 6/5/2006 | 23.13 | -3.38 | 26.51 |
| SW-05B | 8/30/2006 | 23.13 | -3.00 | 26.13 |
| SW-05B | 12/22/2006 | 23.13 | -2.79 | 25.92 |
| SW-05B | 3/6/2007 | 23.13 | -2.92 | 26.05 |
| SW-05B | 5/25/2007 | 23.13 | -2.65 | 25.78 |
| SW-05B | 8/27/2007 | 23.13 | -2.15 | 25.28 |
| SW-05B | 11/27/2007 | 23.13 | -1.77 | 24.90 |
| SW-05B | 2/25/2008 | 23.13 | -2.70 | 25.83 |
| SW-05B | 6/17/2008 | 23.13 | -1.75 | 24.88 |
| SW-05B | 9/8/2008 | 23.13 | -1.69 | 24.82 |
| SW-05B | 11/3/2008 | 23.13 | -1.40 | 24.53 |
| SW-07B | 5/26/2000 | 21.18 | -3.91 | 25.09 |
| SW-07B | 9/6/2000 | 21.18 | -3.26 | 24.44 |
| SW-07B | 12/8/2000 | 21.18 | -3.11 | 24.29 |
| SW-07B | 4/13/2001 | 21.18 | -3.49 | 24.67 |
| SW-07B | 8/6/2001 | 21.18 | -2.89 | 24.07 |
| SW-07B | 12/7/2001 | 21.18 | -2.57 | 23.75 |
| SW-07B | 3/15/2002 | 21.18 | -3.58 | 24.76 |
| SW-07B | 6/3/2002 | 21.18 | -3.33 | 24.51 |
| SW-07B | 9/9/2002 | 21.18 | -2.89 | 24.07 |
| SW-07B | 12/10/2002 | 21.18 | -2.57 | 23.75 |
| SW-07B | 3/2/2003 | 21.18 | -3.59 | 24.77 |
| SW-07B | 6/2/2003 | 21.18 | -3.69 | 24.87 |
| SW-07B | 8/25/2003 | 21.18 | -3.11 | 24.29 |
| SW-07B | 12/15/2003 | 21.18 | -2.78 | 23.96 |
| SW-07B | 3/25/2004 | 21.18 | -3.79 | 24.97 |
| SW-07B | 6/7/2004 | 21.18 | -3.27 | 24.45 |
| SW-07B | 9/7/2004 | 21.18 | -2.74 | 23.92 |
| SW-07B | 12/6/2004 | 21.18 | -2.72 | 23.90 |
| SW-07B | 2/28/2005 | 21.18 | -3.87 | 25.05 |
| SW-07B | 2/28/2005 | 21.18 | -3.97 | 25.15 |
| SW-07B | 9/12/2005 | 21.18 | -3.41 | 24.59 |
| SW-07B | 11/28/2005 | 21.18 | -3.08 | 24.26 |
| SW-07B | 3/6/2006 | 21.18 | -3.92 | 25.10 |
| SW-07B | 6/5/2006 | 21.18 | -4.83 | 26.01 |
| SW-07B | 8/30/2006 | 21.18 | -4.28 | 25.46 |
| SW-07B | 12/22/2006 | 21.18 | -4.09 | 25.27 |
| SW-07B | 3/6/2007 | 21.18 | -4.27 | 25.45 |
| SW-07B | 5/25/2007 | 21.18 | -3.98 | 25.16 |
| SW-07B | 8/27/2007 | 21.18 | -3.54 | 24.72 |
| SW-07B | 11/27/2007 | 21.18 | -3.15 | 24.33 |
| SW-07B | 2/25/2008 | 21.18 | -4.01 | 25.19 |
| SW-07B | 6/17/2008 | 21.18 | -3.11 | 24.29 |
| SW-07B | 9/8/2008 | 21.18 | -3.09 | 24.27 |
| SW-08B | 5/26/2000 | 19.10 | -4.92 | 24.02 |
| SW-08B | 9/6/2000 | 19.10 | -4.32 | 23.42 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-08B | 12/8/2000 | 19.10 | -4.22 | 23.32 |
| SW-08B | 4/13/2001 | 19.10 | -4.60 | 23.70 |
| SW-08B | 8/6/2001 | 19.10 | -3.97 | 23.07 |
| SW-08B | 12/7/2001 | 19.10 | -3.93 | 23.03 |
| SW-08B | 3/15/2002 | 19.10 | -4.62 | 23.72 |
| SW-08B | 6/3/2002 | 19.10 | -4.41 | 23.51 |
| SW-08B | 9/9/2002 | 19.10 | -3.94 | 23.04 |
| SW-08B | 12/10/2002 | 19.10 | -3.69 | 22.79 |
| SW-08B | 3/2/2003 | 19.10 | -4.63 | 23.73 |
| SW-08B | 6/2/2003 | 19.10 | -4.68 | 23.78 |
| SW-08B | 8/25/2003 | 19.10 | -4.19 | 23.29 |
| SW-08B | 12/15/2003 | 19.10 | -3.90 | 23.00 |
| SW-08B | 3/25/2004 | 19.10 | -4.83 | 23.93 |
| SW-08B | 6/7/2004 | 19.10 | -4.27 | 23.37 |
| SW-08B | 9/7/2004 | 19.10 | -3.86 | 22.96 |
| SW-08B | 12/6/2004 | 19.10 | -3.91 | 23.01 |
| SW-08B | 2/28/2005 | 19.10 | -4.41 | 23.51 |
| SW-08B | 2/28/2005 | 19.10 | -4.88 | 23.98 |
| SW-08B | 9/12/2005 | 19.10 | -4.43 | 23.53 |
| SW-08B | 11/28/2005 | 19.10 | -4.11 | 23.21 |
| SW-08B | 3/6/2006 | 19.10 | -5.32 | 24.42 |
| SW-08B | 6/5/2006 | 19.10 | -5.87 | 24.97 |
| SW-08B | 8/30/2006 | 19.10 | -5.33 | 24.43 |
| SW-08B | 12/22/2006 | 19.10 | -5.17 | 24.27 |
| SW-08B | 3/6/2007 | 19.10 | -5.32 | 24.42 |
| SW-08B | 5/25/2007 | 19.10 | -4.76 | 23.86 |
| SW-08B | 8/27/2007 | 19.10 | -4.59 | 23.69 |
| SW-08B | 11/27/2007 | 19.10 | -4.31 | 23.41 |
| SW-08B | 2/25/2008 | 19.10 | -5.11 | 24.21 |
| SW-08B | 6/17/2008 | 19.10 | -4.12 | 23.22 |
| SW-08B | 9/8/2008 | 19.10 | -4.29 | 23.39 |
| SW-08B | 11/3/2008 | 19.10 | -4.10 | 23.20 |
| SW-09B | 5/26/2000 | 17.38 | -5.86 | 23.24 |
| SW-09B | 9/6/2000 | 17.38 | -5.28 | 22.66 |
| SW-09B | 12/8/2000 | 17.38 | -5.13 | 22.51 |
| SW-09B | 4/13/2001 | 17.38 | -4.62 | 22.00 |
| SW-09B | 8/6/2001 | 17.38 | -4.90 | 22.28 |
| SW-09B | 12/7/2001 | 17.38 | -4.93 | 22.31 |
| SW-09B | 3/15/2002 | 17.38 | -5.58 | 22.96 |
| SW-09B | 6/3/2002 | 17.38 | -5.36 | 22.74 |
| SW-09B | 9/9/2002 | 17.38 | -4.95 | 22.33 |
| SW-09B | 12/10/2002 | 17.38 | -4.68 | 22.06 |
| SW-09B | 3/2/2003 | 17.38 | -5.73 | 23.11 |
| SW-09B | 6/2/2003 | 17.38 | -5.62 | 23.00 |
| SW-09B | 8/25/2003 | 17.38 | -5.07 | 22.45 |
| SW-09B | 12/15/2003 | 17.38 | -4.94 | 22.32 |
| SW-09B | 3/25/2004 | 17.38 | -5.76 | 23.14 |
| SW-09B | 6/7/2004 | 17.38 | -5.09 | 22.47 |
| SW-09B | 9/7/2004 | 17.38 | -4.72 | 22.10 |
| SW-09B | 12/6/2004 | 17.38 | -4.65 | 22.03 |
| SW-09B | 2/28/2005 | 17.38 | -5.87 | 23.25 |
| SW-09B | 9/12/2005 | 17.38 | -5.24 | 22.62 |
| SW-09B | 11/28/2005 | 17.38 | -5.10 | 22.48 |
| SW-09B | 3/6/2006 | 17.38 | -6.21 | 23.59 |
| SW-09B | 6/5/2006 | 17.38 | -6.73 | 24.11 |
| SW-09B | 8/30/2006 | 17.38 | -6.19 | 23.57 |
| SW-09B | 12/22/2006 | 17.38 | -6.08 | 23.46 |
| SW-09B | 3/6/2007 | 17.38 | -6.22 | 23.60 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-09B | 5/25/2007 | 17.38 | -5.91 | 23.29 |
| SW-09B | 8/27/2007 | 17.38 | -5.49 | 22.87 |
| SW-09B | 11/27/2007 | 17.38 | -5.21 | 22.59 |
| SW-09B | 2/25/2008 | 17.38 | -5.94 | 23.32 |
| SW-09B | 6/17/2008 | 17.38 | -5.10 | 22.48 |
| SW-09B | 9/8/2008 | 17.38 | -5.11 | 22.49 |
| SW-09B | 11/3/2008 | 17.38 | -4.99 | 22.37 |
| SW-11B | 5/26/2000 | 15.38 | -6.57 | 21.95 |
| SW-11B | 9/6/2000 | 15.38 | -6.07 | 21.45 |
| SW-11B | 12/8/2000 | 15.38 | -5.89 | 21.27 |
| SW-11B | 4/13/2001 | 15.38 | -6.40 | 21.78 |
| SW-11B | 8/6/2001 | 15.38 | -5.46 | 20.84 |
| SW-11B | 12/7/2001 | 15.38 | -5.70 | 21.08 |
| SW-11B | 3/15/2002 | 15.38 | -6.32 | 21.70 |
| SW-11B | 6/3/2002 | 15.38 | -6.04 | 21.42 |
| SW-11B | 9/9/2002 | 15.38 | -5.64 | 21.02 |
| SW-11B | 12/10/2002 | 15.38 | -5.49 | 20.87 |
| SW-11B | 3/2/2003 | 15.38 | -6.22 | 21.60 |
| SW-11B | 6/2/2003 | 15.38 | -6.31 | 21.69 |
| SW-11B | 8/25/2003 | 15.38 | -5.88 | 21.26 |
| SW-11B | 12/15/2003 | 15.38 | -5.68 | 21.06 |
| SW-11B | 3/25/2004 | 15.38 | -6.42 | 21.80 |
| SW-11B | 6/7/2004 | 15.38 | -5.97 | 21.35 |
| SW-11B | 9/7/2004 | 15.38 | -5.58 | 20.96 |
| SW-11B | 12/6/2004 | 15.38 | -5.71 | 21.09 |
| SW-11B | 2/28/2005 | 15.38 | -6.44 | 21.82 |
| SW-11B | 2/28/2005 | 15.38 | -6.49 | 21.87 |
| SW-11B | 9/12/2005 | 15.38 | -6.02 | 21.40 |
| SW-11B | 11/28/2005 | 15.38 | -5.82 | 21.20 |
| SW-11B | 3/6/2006 | 15.38 | -6.81 | 22.19 |
| SW-11B | 6/5/2006 | 15.38 | -7.28 | 22.66 |
| SW-11B | 8/30/2006 | 15.38 | -6.83 | 22.21 |
| SW-11B | 12/22/2006 | 15.38 | -6.74 | 22.12 |
| SW-11B | 3/6/2007 | 15.38 | -6.81 | 22.19 |
| SW-11B | 5/25/2007 | 15.38 | -6.60 | 21.98 |
| SW-11B | 8/27/2007 | 15.38 | -6.28 | 21.66 |
| SW-11B | 11/27/2007 | 15.38 | -6.03 | 21.41 |
| SW-11B | 2/25/2008 | 15.38 | -6.66 | 22.04 |
| SW-11B | 6/17/2008 | 15.38 | -5.82 | 21.20 |
| SW-11B | 9/8/2008 | 15.38 | -5.98 | 21.36 |
| SW-11B | 11/3/2008 | 15.38 | -5.73 | 21.11 |
| SW-12B | 5/26/2000 | 12.82 | -8.88 | 21.70 |
| SW-12B | 9/6/2000 | 12.82 | -8.38 | 21.20 |
| SW-12B | 12/8/2000 | 12.82 | -8.33 | 21.15 |
| SW-12B | 4/13/2001 | 12.82 | -8.59 | 21.41 |
| SW-12B | 8/6/2001 | 12.82 | -6.09 | 18.91 |
| SW-12B | 12/7/2001 | 12.82 | -8.10 | 20.92 |
| SW-12B | 3/15/2002 | 12.82 | -8.65 | 21.47 |
| SW-12B | 6/3/2002 | 12.82 | -8.42 | 21.24 |
| SW-12B | 9/9/2002 | 12.82 | -8.05 | 20.87 |
| SW-12B | 12/10/2002 | 12.82 | -7.84 | 20.66 |
| SW-12B | 3/2/2003 | 12.82 | -8.60 | 21.42 |
| SW-12B | 6/2/2003 | 12.82 | -8.66 | 21.48 |
| SW-12B | 8/25/2003 | 12.82 | -8.20 | 21.02 |
| SW-12B | 12/15/2003 | 12.82 | -7.96 | 20.78 |
| SW-12B | 3/25/2004 | 12.82 | -8.71 | 21.53 |
| SW-12B | 6/7/2004 | 12.82 | -8.33 | 21.15 |
| SW-12B | 9/7/2004 | 12.82 | -7.95 | 20.77 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-12B | 12/6/2004 | 12.82 | -7.95 | 20.77 |
| SW-12B | 2/28/2005 | 12.82 | -8.76 | 21.58 |
| SW-12B | 2/28/2005 | 12.82 | -8.82 | 21.64 |
| SW-12B | 9/12/2005 | 12.82 | -8.31 | 21.13 |
| SW-12B | 11/28/2005 | 12.82 | -8.11 | 20.93 |
| SW-12B | 3/6/2006 | 12.82 | -9.75 | 22.57 |
| SW-12B | 6/5/2006 | 12.82 | -9.64 | 22.46 |
| SW-12B | 8/30/2006 | 12.82 | -9.18 | 22.00 |
| SW-12B | 12/22/2006 | 12.82 | -9.06 | 21.88 |
| SW-12B | 3/6/2007 | 12.82 | -10.30 | 23.12 |
| SW-12B | 5/25/2007 | 12.82 | -9.00 | 21.82 |
| SW-12B | 8/27/2007 | 12.82 | -8.62 | 21.44 |
| SW-12B | 11/27/2007 | 12.82 | -8.35 | 21.17 |
| SW-12B | 2/25/2008 | 12.82 | -9.00 | 21.82 |
| SW-12B | 6/17/2008 | 12.82 | -8.17 | 20.99 |
| SW-12B | 9/8/2008 | 12.82 | -8.35 | 21.17 |
| SW-12B | 11/3/2008 | 12.82 | -8.10 | 20.92 |
| SW-14B | 5/26/2000 | 10.34 | -9.94 | 20.28 |
| SW-14B | 9/6/2000 | 10.34 | -9.52 | 19.86 |
| SW-14B | 12/8/2000 | 10.34 | -9.66 | 20.00 |
| SW-14B | 4/13/2001 | 10.34 | -8.50 | 18.84 |
| SW-14B | 8/6/2001 | 10.34 | -8.38 | 18.72 |
| SW-14B | 12/7/2001 | 10.34 | -8.45 | 18.79 |
| SW-14B | 3/15/2002 | 10.34 | -9.68 | 20.02 |
| SW-14B | 6/3/2002 | 10.34 | -9.68 | 20.02 |
| SW-14B | 9/9/2002 | 10.34 | -9.06 | 19.40 |
| SW-14B | 12/10/2002 | 10.34 | -8.89 | 19.23 |
| SW-14B | 3/2/2003 | 10.34 | -9.42 | 19.76 |
| SW-14B | 6/2/2003 | 10.34 | -9.34 | 19.68 |
| SW-14B | 8/25/2003 | 10.34 | -9.29 | 19.63 |
| SW-14B | 12/15/2003 | 10.34 | -9.10 | 19.44 |
| SW-14B | 3/25/2004 | 10.34 | -10.04 | 20.38 |
| SW-14B | 6/7/2004 | 10.34 | -9.27 | 19.61 |
| SW-14B | 9/7/2004 | 10.34 | -9.27 | 19.61 |
| SW-14B | 12/6/2004 | 10.34 | -6.72 | 17.06 |
| SW-14B | 2/28/2005 | 10.34 | -9.76 | 20.10 |
| SW-14B | 2/28/2005 | 10.34 | -9.64 | 19.98 |
| SW-14B | 11/28/2005 | 10.34 | -8.76 | 19.10 |
| SW-14B | 6/5/2006 | 10.34 | -10.50 | 20.84 |
| SW-14B | 5/25/2007 | 10.34 | -9.58 | 19.92 |
| SW-14B | 8/27/2007 | 10.34 | -11.73 | 22.07 |
| SW-14B | 11/27/2007 | 10.34 | -9.40 | 19.74 |
| SW-14B | 2/25/2008 | 10.34 | -9.98 | 20.32 |
| SW-14B | 6/17/2008 | 10.34 | -9.30 | 19.64 |
| SW-14B | 9/8/2008 | 10.34 | -9.10 | 19.44 |
| SW-14B | 11/3/2008 | 10.34 | -9.33 | 19.67 |
| SW-18B | 5/26/2000 | 11.85 | -7.64 | 19.49 |
| SW-18B | 9/6/2000 | 11.85 | -7.22 | 19.07 |
| SW-18B | 12/8/2000 | 11.85 | -6.89 | 18.74 |
| SW-18B | 4/13/2001 | 11.85 | -8.02 | 19.87 |
| SW-18B | 8/6/2001 | 11.85 | -6.01 | 17.86 |
| SW-18B | 12/7/2001 | 11.85 | -5.58 | 17.43 |
| SW-18B | 3/15/2002 | 11.85 | -5.58 | 17.43 |
| SW-18B | 6/3/2002 | 11.85 | -6.13 | 17.98 |
| SW-18B | 9/9/2002 | 11.85 | -6.51 | 18.36 |
| SW-18B | 12/10/2002 | 11.85 | -6.39 | 18.24 |
| SW-18B | 3/2/2003 | 11.85 | -6.84 | 18.69 |
| SW-18B | 6/2/2003 | 11.85 | -7.08 | 18.93 |
| SW-18B | 8/25/2003 | 11.85 | -6.66 | 18.51 |

Table 2-2. Summary of Groundwater Historical Elevation Data

| Station Name | Date | Top of Casing Elevation ^a (feet msl) | Depth to Water ^b (feet) | Groundwater Elevation (feet msl) |
|--------------|------------|--|---------------------------------------|-------------------------------------|
| SW-18B | 12/15/2003 | 11.85 | -5.78 | 17.63 |
| SW-18B | 3/25/2004 | 11.85 | -6.98 | 18.83 |
| SW-18B | 6/7/2004 | 11.85 | -6.42 | 18.27 |
| SW-18B | 9/7/2004 | 11.85 | -5.62 | 17.47 |
| SW-18B | 12/6/2004 | 11.85 | -5.36 | 17.21 |
| SW-18B | 2/28/2005 | 11.85 | -6.47 | 18.32 |
| SW-18B | 2/28/2005 | 11.85 | -6.80 | 18.65 |
| SW-18B | 9/12/2005 | 11.85 | -5.44 | 17.29 |
| SW-18B | 11/28/2005 | 11.85 | -6.99 | 18.84 |
| SW-18B | 3/6/2006 | 11.85 | -8.02 | 19.87 |
| SW-18B | 6/5/2006 | 11.85 | -7.12 | 18.97 |
| SW-18B | 8/30/2006 | 11.85 | -7.61 | 19.46 |
| SW-18B | 12/22/2006 | 11.85 | -7.68 | 19.53 |
| SW-18B | 3/6/2007 | 11.85 | -7.63 | 19.48 |
| SW-18B | 5/25/2007 | 11.85 | -6.94 | 18.79 |
| SW-18B | 8/27/2007 | 11.85 | -6.88 | 18.73 |
| SW-18B | 11/27/2007 | 11.85 | -6.78 | 18.63 |
| SW-18B | 2/25/2008 | 11.85 | -7.48 | 19.33 |
| SW-18B | 6/17/2008 | 11.85 | -6.83 | 18.68 |
| SW-18B | 9/8/2008 | 11.85 | -6.92 | 18.77 |
| SW-18B | 11/3/2008 | 11.85 | -6.69 | 18.54 |

Footnotes:

^a Elevations are given in feet above mean sea level (MSL).

^b Depth to water is measured from top of well casing.

Negative values represent measurements above top of casing.
 feet msl = feet mean sea level

Checked by: MH-F

Approved by: MS

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| Upper A | | | | | |
| GWE-1 | 12/1/1997 | 96 | 650 | 1,200 | 110 |
| GWE-1 | 5/1/1998 | 240 | 1,700 | 1,400 | 61 |
| GWE-1 | 4/7/1999 | 60 | 340 | 610 | 41 |
| GWE-1 | 7/1/1999 | 500 | 1,600 | 720 | 30 |
| GWE-1 | 11/3/1999 | 460 | 1,300 | 660 | 24 |
| GWE-1 | 2/1/2000 | 49 | 250 | 470 | 76 |
| GWE-1 | 5/5/2000 | 210 | 920 | 840 | 43 |
| GWE-1 | 11/14/2000 | 270 | 1,100 | 480 | 33 |
| GWE-1 | 5/30/2001 | 260 | 1,200 | 640 | 17 |
| GWE-1 | 8/21/2001 | 260 | 970 | 500 | ND(50) |
| GWE-1 | 11/1/2001 | 230 | 900 | 410 | 11 |
| GWE-1 | 2/26/2002 | 15 | 80 | 590 | 59 |
| GWE-1 | 8/28/2002 | 190 | 850 | 480 | 13 |
| GWE-1 | 2/27/2003 | 30 | 170 | 450 | 32 |
| GWE-1 | 8/3/2003 | 210 | 870 | 470 | 10 |
| GWE-1 | 2/17/2004 | 20 | 100 | 360 | 39 |
| GWE-1 | 8/4/2004 | 140 | 730 | 480 | 11 |
| GWE-1 | 2/16/2005 | 11 | ND(1) | 190 | 27 |
| GWE-1 | 8/25/2005 | 100 | 570 | 500 | 12 |
| GWE-1 | 2/16/2006 | 6 | 59 | 270 | 28 |
| GWE-1 | 8/23/2006 | 73 | 440 | 510 | 16 |
| GWE-1 | 2/8/2007 | 24 | 160 | 460 | 46 |
| GWE-1 | 8/7/2007 | 110 | 450 | 380 | 4 |
| GWE-1 | 2/8/2008 | 7 | 56 | 110 | 45 |
| GWE-2 | 12/1/1997 | ND(0.5) | 13 | 130 | 25 |
| GWE-2 | 5/1/1998 | ND(4) | 80 | 600 | 65 |
| GWE-2 | 4/1/1999 | ND(20) | 67 | 450 | 24 |
| GWE-2 | 7/1/1999 | ND(0.5) | 97 | 620 | 51 |
| GWE-2 | 11/3/1999 | ND(0.5) | 45 | 680 | 49 |
| GWE-2 | 2/1/2000 | ND(1.7) | 72 | 440 | 18 |
| GWE-2 | 5/5/2000 | ND(1.7) | 58 | 450 | 24 |
| GWE-2 | 11/13/2000 | ND(2.5) | 46 | 520 | 39 |
| GWE-2 | 3/1/2001 | ND(0.5) | 10 | 150 | 6 |
| GWE-2 | 5/30/2001 | ND(0.5) | ND(0.5) | 1 | 1 |
| GWE-2 | 8/22/2001 | ND(5) | 13 | 170 | 41 |
| GWE-2 | 11/1/2001 | ND(0.5) | 1 | 2 | ND(0.5) |
| GWE-2 | 2/26/2002 | ND(0.7) | 45 | 280 | 15 |
| GWE-2 | 8/28/2002 | 53 | 600 | 440 | 28 |
| GWE-2 | 2/27/2003 | ND(1) | 37 | 280 | 13 |
| GWE-2 | 8/3/2003 | ND(1.7) | 32 | 400 | 42 |
| GWE-2 | 2/17/2004 | ND(0.7) | 27 | 190 | 12 |
| GWE-2 | 8/4/2004 | ND(1.3) | 25 | 340 | 52 |
| GWE-2 | 2/18/2005 | ND(0.5) | 8 | 25 | 1 |
| GWE-2 | 8/25/2005 | 6 | 59 | 230 | 56 |
| GWE-2 | 2/16/2006 | ND(1.7) | 35 | 200 | 19 |
| GWE-2 | 8/23/2006 | ND(1.7) | 25 | 240 | 44 |
| GWE-2 | 2/8/2007 | ND(1) | 20 | 130 | 18 |
| GWE-2 | 8/7/2007 | ND(0.7) | 6 | 110 | 22 |
| GWE-2 | 2/8/2008 | ND(0.5) | 29 | 75 | 4 |
| GWE-3 | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 5/1/1998 | ND(1) | ND(1) | ND(1) | ND(2) |
| GWE-3 | 4/1/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| GWE-3 | 7/1/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| GWE-3 | 11/3/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| GWE-3 | 2/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| GWE-3 | 5/5/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| GWE-3 | 11/13/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| GWE-3 | 5/30/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 8/21/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| GWE-3 | 11/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 2/26/2002 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| GWE-3 | 8/28/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 2/27/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 8/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 2/17/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 8/4/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 2/16/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 8/25/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 2/16/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 8/23/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 2/8/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-3 | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 12/1/1997 | ND(0.5) | ND(0.5) | 8 | 12 |
| GWE-4 | 5/1/1998 | ND(1) | ND(1) | 2 | 2 |
| GWE-4 | 4/1/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| GWE-4 | 7/1/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| GWE-4 | 11/3/1999 | ND(0.5) | ND(0.5) | 11 | 37 |
| GWE-4 | 2/1/2000 | ND(0.5) | ND(0.5) | 9 | 18 |
| GWE-4 | 5/5/2000 | ND(0.5) | ND(0.5) | 2 | 3 |
| GWE-4 | 11/13/2000 | ND(0.5) | ND(0.5) | 6 | 26 |
| GWE-4 | 5/30/2001 | ND(0.5) | ND(0.5) | 1 | 1 |
| GWE-4 | 8/21/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| GWE-4 | 11/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 2/26/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 8/28/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 2/27/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 8/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 2/17/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 8/4/2004 | ND(0.5) | ND(0.5) | ND(0.5) | 1 |
| GWE-4 | 2/16/2005 | ND(0.5) | ND(0.5) | ND(0.5) | 1 |
| GWE-4 | 8/25/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 2/16/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 8/23/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 2/8/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-4 | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-5 | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-5 | 5/1/1998 | ND(50) | ND(50) | ND(50) | ND(100) |
| GWE-5 | 4/1/1999 | ND(250) | ND(250) | ND(250) | ND(500) |
| GWE-5 | 7/1/1999 | ND(0.5) | 2 | 24 | 2 |
| GWE-5 | 11/3/1999 | ND(7.1) | ND(7.1) | 22 | ND(14) |
| GWE-5 | 2/1/2000 | ND(0.5) | 1 | 16 | 3 |
| GWE-5 | 5/5/2000 | ND(0.5) | 2 | 23 | 2 |
| GWE-5 | 8/31/2000 | ND(0.5) | 1 | 20 | 1 |
| GWE-5 | 11/16/2000 | ND(0.5) | 2 | 23 | 2 |
| GWE-5 | 11/1/2001 | ND(6.3) | ND(6.3) | 15 | ND(6.3) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| GWE-5 | 2/26/2002 | ND(10) | ND(10) | 15 | ND(10) |
| GWE-5 | 8/2/2002 | ND(17) | ND(17) | ND(17) | ND(17) |
| GWE-5 | 2/27/2003 | ND(1) | 1 | 19 | 1 |
| GWE-5 | 8/4/2004 | ND(0.5) | 1 | 18 | 2 |
| GWE-5 | 2/5/2005 | 290 | 7,900 | ND(63) | ND(63) |
| GWE-5 | 5/5/2005 | 240 | 5,100 | 880 | ND(31) |
| GWE-5 | 8/5/2005 | 150 | 610 | 900 | ND(17) |
| GWE-5 | 2/17/2006 | 18 | ND(17) | 190 | 49 |
| GWE-5 | 8/24/2006 | ND(17) | ND(17) | 53 | ND(17) |
| LF-10A | 12/1/1997 | 260 | 1,700 | ND(0.5) | ND(0.5) |
| LF-10A | 5/1/1998 | 160 | 1,200 | ND(10) | ND(20) |
| LF-10A | 4/1/1999 | 190 | 950 | ND(5) | ND(10) |
| LF-10A | 7/1/1999 | 190 | 1,200 | 6 | ND(10) |
| LF-10A | 11/3/1999 | 140 | 1,100 | 6 | ND(8.3) |
| LF-10A | 2/1/2000 | 77 | 580 | 6 | ND(5) |
| LF-10A | 5/5/2000 | 130 | 810 | 8 | ND(5) |
| LF-10A | 8/31/2000 | 120 | 490 | 8 | ND(1.7) |
| LF-10A | 11/14/2000 | 99 | 830 | 5 | ND(3.6) |
| LF-10A | 2/28/2001 | 120 | 770 | 11 | ND(3.1) |
| LF-10A | 5/31/2001 | 120 | 770 | 8 | ND(2.5) |
| LF-10A | 8/20/2001 | 120 | 950 | ND(25) | ND(50) |
| LF-10A | 11/1/2001 | 89 | 790 | 7 | ND(2.5) |
| LF-10A | 2/26/2002 | 71 | 350 | 5 | ND(1.3) |
| LF-10A | 8/28/2002 | 84 | 540 | 7 | ND(2.5) |
| LF-10A | 2/27/2003 | 74 | 380 | 6 | ND(1) |
| LF-10A | 8/3/2003 | 70 | 470 | 7 | ND(1.7) |
| LF-10A | 2/18/2004 | 79 | 370 | 6 | ND(1.7) |
| LF-10A | 8/4/2004 | 96 | 720 | 6 | ND(2.5) |
| LF-10A | 2/18/2005 | 59 | 320 | 3 | ND(2) |
| LF-10A | 8/24/2005 | 81 | 500 | 6 | ND(3.1) |
| LF-10A | 2/17/2006 | 54 | 350 | ND(3.1) | ND(3.1) |
| LF-10A | 8/24/2006 | 62 | 430 | ND(3.1) | ND(3.1) |
| LF-10A | 2/9/2007 | 64 | 410 | ND(3.1) | ND(3.1) |
| LF-10A | 8/7/2007 | 52 | 300 | 4 | ND(3.1) |
| LF-10A | 2/8/2008 | 57 | 410 | ND(2.5) | ND(2.5) |
| LF-10A | 8/15/2008 | 49 | 540 | 3 | ND(0.50) |
| LF-10A | 9/3/2008 | 49 | 460 | 3 | ND(0.50) |
| LF-10A | 9/23/2008 | 50 | 450 | 3 | ND(0.50) |
| LF-10A | 10/21/2008 | 53 | 410 | 4 | ND(0.50) |
| LF-10A | 11/6/2008 | 40 | 410 | 3 | ND(0.50) |
| LF-11A | 12/1/1997 | 5,900 | 3,600 | 2,900 | ND(0.5) |
| LF-11A | 5/1/1998 | 6,600 | 4,600 | 4,900 | 140 |
| LF-11A | 4/1/1999 | 8,400 | 4,600 | 3,000 | ND(500) |
| LF-11A | 7/1/1999 | 19,000 | 5,600 | 2,500 | ND(100) |
| LF-11A | 11/3/1999 | 17,000 | 4,200 | 2,800 | ND(1300) |
| LF-11A | 2/1/2000 | 15,000 | 4,200 | 3,200 | 69 |
| LF-11A | 5/5/2000 | 18,000 | 4,800 | 3,200 | 390 |
| LF-11A | 8/31/2000 | 20,000 | 3,900 | 2,300 | ND(100) |
| LF-11A | 11/15/2000 | 15,000 | 2,600 | 1,900 | ND(100) |
| LF-11A | 2/28/2001 | 12,000 | 2,400 | 1,800 | 68 |
| LF-11A | 5/31/2001 | 13,000 | 2,000 | 1,500 | ND(50) |
| LF-11A | 8/20/2001 | 8,600 | 1,500 | 1,400 | ND(310) |
| LF-11A | 11/1/2001 | 9,400 | 1,300 | 1,100 | ND(50) |
| LF-11A | 2/27/2002 | 11,000 | 1,500 | 1,200 | 39 |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| LF-11A | 5/28/2002 | 7,800 | 1,300 | 980 | ND(20) |
| LF-11A | 8/28/2002 | 8,200 | 1,100 | 1,100 | 78 |
| LF-11A | 11/14/2002 | 6,400 | 1,100 | 980 | 71 |
| LF-11A | 2/27/2003 | 5,900 | 1,100 | 700 | 21 |
| LF-11A | 5/27/2003 | 5,200 | 890 | 570 | ND(500) |
| LF-11A | 11/24/2003 | 5,600 | 840 | 610 | 66 |
| LF-11A | 2/17/2004 | 5,000 | 740 | 350 | 29 |
| LF-11A | 5/11/2004 | 6,300 | 960 | 400 | ND(13) |
| LF-11A | 8/4/2004 | 12,000 | 880 | 360 | 52 |
| LF-11A | 11/17/2004 | 14,000 | 480 | 170 | ND(42) |
| LF-11A | 2/17/2005 | 6,500 | 460 | 200 | ND(63) |
| LF-11A | 5/5/2005 | 5,600 | 650 | 390 | 170 |
| LF-11A | 8/24/2005 | 8,500 | 750 | 390 | 160 |
| LF-11A | 11/5/2005 | 7,800 | 700 | 300 | 210 |
| LF-11A | 2/17/2006 | 7,600 | 450 | 220 | 120 |
| LF-11A | 5/16/2006 | 11,000 | 1,000 | 440 | 130 |
| LF-11A | 8/24/2006 | 9,400 | 510 | 220 | ND(63) |
| LF-11A | 11/6/2006 | 12,000 | 360 | 170 | ND(63) |
| LF-11A | 2/8/2007 | 9,800 | 360 | 180 | ND(63) |
| LF-11A | 5/2/2007 | 7,900 | 400 | 220 | 90 |
| LF-11A | 8/7/2007 | 8,400 | 340 | 160 | ND(63) |
| LF-11A | 11/15/2007 | 6,900 | 420 | 140 | 82 |
| LF-11A | 2/8/2008 | 5,200 | 290 | 190 | 46 |
| LF-11A | 5/8/2008 | 5,300 | 380 | 250 | 94 |
| LF-11A | 9/9/2008 | 8,900 A/ | 450 A/ | 510 A/ | 100 A/ |
| LF-11A | 11/5/2008 | 4,900 A/ | 710 A/ | 760 A/ | 230 A/ |
| LF-1A | 12/1/1997 | ND(0.5) | 21 | 410 | 120 |
| LF-1A | 5/1/1998 | ND(1) | 1 | 60 | 43 |
| LF-1A | 4/1/1999 | ND(10) | ND(10) | 210 | 130 |
| LF-1A | 7/1/1999 | ND(2.5) | 5 | 620 | 300 |
| LF-1A | 11/3/1999 | ND(2.5) | 4 | 630 | 400 |
| LF-1A | 2/1/2000 | ND(2) | 6 | 360 | 200 |
| LF-1A | 5/5/2000 | ND(1) | 6 | 260 | 190 |
| LF-1A | 8/31/2000 | ND(1.7) | 2 | 490 | 300 |
| LF-1A | 11/15/2000 | ND(2) | ND(2) | 480 | 330 |
| LF-1A | 3/1/2001 | ND(1) | 3 | 200 | 110 |
| LF-1A | 5/31/2001 | ND(1.7) | 12 | 470 | 170 |
| LF-1A | 8/20/2001 | ND(25) | ND(25) | 490 | 210 |
| LF-1A | 11/1/2001 | ND(2) | 5 | 250 | 280 |
| LF-1A | 2/26/2002 | ND(0.7) | 4 | 170 | 160 |
| LF-1A | 8/29/2002 | ND(1.7) | 4 | 470 | 330 |
| LF-1A | 2/27/2003 | ND(0.5) | 1 | 160 | 160 |
| LF-1A | 8/3/2003 | ND(1) | 1 | 380 | 260 |
| LF-1A | 2/18/2004 | ND(0.5) | 4 | 130 | 140 |
| LF-1A | 8/4/2004 | ND(1) | 1 | 310 | 340 |
| LF-1A | 2/16/2005 | ND(0.5) | 3 | 94 | 92 |
| LF-1A | 8/23/2005 | ND(1) | ND(1) | 120 | 120 |
| LF-1A | 2/16/2006 | ND(0.5) | 2 | 89 | 91 |
| LF-1A | 8/23/2006 | ND(1) | ND(1) | 170 | 180 |
| LF-1A | 2/8/2007 | ND(0.5) | 1 | 90 | 97 |
| LF-1A | 8/7/2007 | ND(0.5) | 1 | 160 | 140 |
| LF-9A | 12/1/1997 | 240 | 180 | 80 | ND(0.5) |
| LF-9A | 4/1/1999 | 200 | 130 | 99 | 5 |
| LF-9A | 7/1/1999 | 420 | 680 | 80 | 15 |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| LF-9A | 11/3/1999 | 660 | 810 | 100 | ND(50) |
| LF-9A | 2/1/2000 | 17,000 | 3,000 | 140 | ND(100) |
| LF-9A | 5/5/2000 | 9,500 | 5,600 | 140 | ND(100) |
| LF-9A | 8/31/2000 | 29,000 | 2,500 | ND(100) | ND(100) |
| LF-9A | 10/12/2000 | 13,000 | 1,000 | 130 | 25 |
| LF-9A | 11/14/2000 | 5,700 | 690 | 360 | ND(25) |
| LF-9A | 1/18/2001 | 3,500 | 360 | 110 | 18 |
| LF-9A | 2/26/2001 | 1,700 | 340 | 73 | 14 |
| LF-9A | 3/19/2001 | 2,100 | 490 | 180 | 24 |
| LF-9A | 5/31/2001 | 1,400 | 320 | 290 | 34 |
| LF-9A | 8/20/2001 | 1,600 | 750 | 210 | ND(100) |
| LF-9A | 11/1/2001 | 1,200 | 610 | 170 | 29 |
| LF-9A | 2/27/2002 | 710 | 290 | 100 | 20 |
| LF-9A | 5/28/2002 | 680 | 250 | 220 | 32 |
| LF-9A | 8/29/2002 | 490 | 210 | 200 | 29 |
| LF-9A | 11/14/2002 | 440 | 210 | 230 | 40 |
| LF-9A | 2/27/2003 | 550 | 200 | 120 | 25 |
| LF-9A | 5/27/2003 | 380 | 170 | 220 | 45 |
| LF-9A | 8/3/2003 | 310 | 130 | 230 | 39 |
| LF-9A | 11/24/2003 | 450 | 210 | 220 | 41 |
| LF-9A | 2/19/2004 | 200 | 120 | 100 | 19 |
| LF-9A | 5/11/2004 | 200 | 180 | 110 | 26 |
| LF-9A | 8/4/2004 | 760 | 310 | 310 | 44 |
| LF-9A | 11/17/2004 | 2,600 | 1,100 | 230 | 38 |
| LF-9A | 2/18/2005 | 1,100 | 780 | 110 | 21 |
| LF-9A | 5/5/2005 | 930 | 670 | 200 | 24 |
| LF-9A | 8/24/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9A | 11/5/2005 | 780 | 750 | 150 | 21 |
| LF-9A | 2/16/2006 | 980 | 730 | 160 | 26 |
| LF-9A | 5/16/2006 | 540 | 420 | 220 | 25 |
| LF-9A | 8/24/2006 | 280 | 180 | 300 | 26 |
| LF-9A | 11/6/2006 | 65 | 43 | 270 | 42 |
| LF-9A | 2/9/2007 | 190 | 140 | 230 | 27 |
| LF-9A | 5/2/2007 | 110 | 74 | 140 | 19 |
| LF-9A | 8/7/2007 | 190 | 85 | 89 | 15 |
| LF-9A | 11/15/2007 | 70 | 61 | 190 | 28 |
| LF-9A | 2/8/2008 | 41 | 45 | 50 | 11 |
| LF-9A | 5/8/2008 | 98 | 67 | 96 | 15 |
| MEC-10UA | 8/12/2008 | 2 | 21 | ND(0.50) | ND(0.50) |
| MEC-10UA | 9/4/2008 | 9 | 78 /MHA | ND(0.50) | ND(0.50) |
| MEC-10UA | 9/23/2008 | 15 | 160 | ND(0.50) | ND(0.50) |
| MEC-10UA | 10/21/2008 | 110 | 1,000 | ND(0.50) | ND(0.50) |
| MEC-10UA | 11/5/2008 | 90 | 740 | ND(0.50) | ND(0.50) |
| MEC-11UA | 8/12/2008 | 20 | 140 | ND(0.50) | ND(0.50) |
| MEC-11UA | 9/3/2008 | 16 | 130 /MHA | ND(0.50) | ND(0.50) |
| MEC-11UA | 9/23/2008 | 10 | 130 | ND(0.50) | ND(0.50) |
| MEC-11UA | 10/22/2008 | 14 | 130 /MHA | 1 | ND(0.50) |
| MEC-11UA | 11/6/2008 | 9 | 150 | 2 | ND(0.50) |
| MEC-12UA | 8/11/2008 | 1 | 11 | ND(0.50) | ND(0.50) |
| MEC-12UA | 9/2/2008 | 2 | 130 /MHA | ND(0.50) | ND(0.50) |
| MEC-12UA | 9/24/2008 | 1 | 16 | ND(0.50) | ND(0.50) |
| MEC-12UA | 10/20/2008 | ND(0.50) | 20 | ND(0.50) | ND(0.50) |
| MEC-12UA | 11/6/2008 | 1 | 51 | ND(0.50) | ND(0.50) |
| MEC-13UA | 8/11/2008 | 31,000 | 88,000 | ND(120) | ND(120) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| MEC-13UA | 9/2/2008 | 5,000 | 9,500 | ND(10) | ND(10) |
| MEC-13UA | 9/24/2008 | 3,400 | 9,200 | ND(5.0) | ND(5.0) |
| MEC-13UA | 10/20/2008 | 8,400 | 15,000 | 280 | ND(10) |
| MEC-13UA | 11/6/2008 | 15,000 | 21,000 | 100 | ND(5.0) |
| MK-4A | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 4/1/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| MK-4A | 7/1/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-4A | 11/3/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-4A | 2/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-4A | 5/5/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-4A | 7/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/9/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/29/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/31/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 9/12/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 10/11/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 11/13/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-4A | 2/28/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 5/31/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/22/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| MK-4A | 11/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 2/27/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/29/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 2/27/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 2/17/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/4/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 2/16/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/24/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 2/16/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/23/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 2/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4A | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| MK-5A | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| MK-6A | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 4/1/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| MK-6A | 7/1/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-6A | 11/3/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-6A | 2/1/2000 | ND(0.5) | ND(0.5) | 1 | ND(1) |
| MK-6A | 5/5/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-6A | 8/31/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 11/13/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-6A | 3/1/2001 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| MK-6A | 5/31/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 8/21/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| MK-6A | 11/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 2/27/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 8/29/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 2/27/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 8/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 11/1/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 2/19/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| MK-6A | 8/4/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 2/17/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 8/23/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 2/15/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 8/24/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 2/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-6A | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| MW-5AF | 5/4/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MW-5AF | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MW-5AF | 11/15/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MW-5AF | 5/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MW-5AF | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| MW-6A | 12/1/1997 | 6 | 120 | 74 | ND(0.5) |
| MW-6A | 5/1/1998 | 7 | 120 | 220 | ND(4) |
| MW-6A | 4/1/1999 | 4 | 78 | 140 | ND(5) |
| MW-6A | 7/1/1999 | ND(0.5) | 2 | 1 | ND(1) |
| MW-6A | 11/3/1999 | ND(0.5) | 4 | 1 | ND(1) |
| MW-6A | 2/1/2000 | 6 | 98 | 190 | 16 |
| MW-6A | 5/5/2000 | 6 | 87 | 160 | 1 |
| MW-6A | 7/5/2000 | ND(0.5) | 5 | 3 | 1 |
| MW-6A | 7/11/2000 | 1 | 45 | 77 | 5 |
| MW-6A | 7/17/2000 | 1 | 33 | 71 | 3 |
| MW-6A | 8/9/2000 | ND(0.5) | 13 | 20 | 2 |
| MW-6A | 8/29/2000 | ND(0.5) | 7 | 13 | ND(0.5) |
| MW-6A | 8/31/2000 | ND(0.5) | 7 | 13 | ND(0.5) |
| MW-6A | 9/12/2000 | ND(0.5) | 2 | 7 | 6 |
| MW-6A | 10/11/2000 | ND(0.5) | 2 | 2 | 4 |
| MW-6A | 11/14/2000 | ND(0.5) | 12 | 22 | 3 |
| MW-6A | 3/1/2001 | 1 | 30 | 30 | 1 |
| MW-6A | 5/31/2001 | ND(0.5) | 2 | 2 | ND(0.5) |
| MW-6A | 8/21/2001 | ND(5) | 8 | ND(5) | ND(10) |
| MW-6A | 11/1/2001 | ND(0.5) | 1 | 1 | ND(0.5) |
| MW-6A | 2/26/2002 | 3 | 58 | 110 | 3 |
| MW-6A | 8/29/2002 | ND(0.5) | 3 | 2 | ND(0.5) |
| MW-6A | 2/27/2003 | 1 | 19 | 31 | 1 |
| MW-6A | 8/3/2003 | ND(0.5) | 6 | 2 | ND(0.5) |
| MW-6A | 2/17/2004 | 3 | 45 | 79 | 2 |
| MW-6AR | 2/17/2005 | 2 | 31 | 31 | ND(0.5) |
| MW-6AR | 8/25/2005 | ND(0.5) | 1 | 8 | 4 |
| MW-6AR | 2/16/2006 | 2 | 31 | 42 | 1 |
| MW-6AR | 8/24/2006 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| MW-6AR | 2/8/2007 | 1 | 13 | 34 | 5 |
| MW-6AR | 8/7/2007 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MW-6AR | 2/8/2008 | 1 | 20 | 10 | ND(0.5) |
| MW-6AR | 11/4/2008 | ND(0.50) A/ | 1.2 A/ | 0.93 A/ | 1.4 A/ |
| MW-7A | 12/1/1997 | ND(0.5) | 120 | 500 | 53 |
| MW-7A | 5/1/1998 | 3 | 37 | 170 | 27 |
| MW-7A | 4/1/1999 | ND(10) | 39 | 300 | 23 |
| MW-7A | 7/1/1999 | ND(2) | 29 | 690 | 97 |
| MW-7A | 11/3/1999 | 8 | 83 | 310 | 42 |
| MW-7A | 2/1/2000 | 4 | 55 | 290 | 19 |
| MW-7A | 5/5/2000 | 6 | 67 | 250 | 16 |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| MW-7A | 7/5/2000 | 10 | 94 | 250 | 24 |
| MW-7A | 7/11/2000 | 9 | 86 | 210 | 14 |
| MW-7A | 7/17/2000 | 9 | 86 | 210 | 9 |
| MW-7A | 8/9/2000 | 12 | 90 | 160 | 6 |
| MW-7A | 8/29/2000 | 6 | 54 | 110 | 4 |
| MW-7A | 8/31/2000 | 6 | 54 | 110 | 4 |
| MW-7A | 9/12/2000 | 9 | 79 | 180 | 9 |
| MW-7A | 10/11/2000 | 9 | 88 | 240 | 15 |
| MW-7A | 11/15/2000 | 9 | 83 | 450 | 27 |
| MW-7A | 5/31/2001 | 3 | 46 | 260 | 36 |
| MW-7A | 8/21/2001 | ND(20) | 39 | 620 | 68 |
| MW-7A | 11/1/2001 | ND(1) | 4 | 260 | 88 |
| MW-7A | 2/26/2002 | ND(0.8) | 11 | 200 | 40 |
| MW-7A | 8/29/2002 | ND(1) | 4 | 270 | 110 |
| MW-7A | 2/27/2003 | ND(0.5) | 13 | 160 | 28 |
| MW-7A | 8/3/2003 | ND(1) | 4 | 310 | 120 |
| MW-7A | 2/18/2004 | ND(0.5) | 9 | 150 | 28 |
| MW-7A | 8/4/2004 | ND(1) | 4 | 250 | 76 |
| MW-7A | 2/17/2005 | ND(0.7) | 5 | 91 | 14 |
| MW-7A | 8/25/2005 | ND(0.5) | 1 | 100 | 72 |
| MW-7A | 2/16/2006 | ND(0.7) | 4 | 94 | 16 |
| MW-7A | 8/23/2006 | ND(0.7) | 1 | 120 | 59 |
| MW-7A | 2/9/2007 | ND(0.5) | 2 | 70 | 29 |
| MW-7A | 8/7/2007 | ND(0.5) | ND(0.5) | 87 | 91 |
| MW-7A | 2/8/2008 | ND(0.5) | 2 | 46 | 16 |
| MW-7A | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | 8.4 A/ | 34 A/ |
| MW-8A | 12/1/1997 | ND(0.5) | 12 | 16 | 9 |
| MW-8A | 5/1/1998 | ND(1) | ND(1) | 7 | 8 |
| MW-8A | 4/1/1999 | ND(5) | ND(5) | 5 | 6 |
| MW-8A | 7/1/1999 | ND(0.5) | ND(0.5) | 8 | 17 |
| MW-8A | 11/3/1999 | ND(0.5) | ND(0.5) | 8 | 15 |
| MW-8A | 2/1/2000 | ND(0.5) | ND(0.5) | 8 | 5 |
| MW-8A | 5/5/2000 | ND(0.5) | ND(0.5) | 6 | 6 |
| MW-8A | 8/31/2000 | ND(0.5) | ND(0.5) | 6 | 6 |
| MW-8A | 11/15/2000 | ND(0.5) | ND(0.5) | 8 | 10 |
| MW-8A | 2/28/2001 | ND(0.5) | ND(0.5) | 4 | 3 |
| MW-8A | 5/31/2001 | ND(0.5) | ND(0.5) | 4 | 7 |
| MW-8A | 8/21/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| MW-8A | 11/1/2001 | ND(0.5) | ND(0.5) | 1 | 2 |
| MW-8A | 2/27/2002 | ND(0.5) | ND(0.5) | 1 | 1 |
| MW-8A | 8/29/2002 | ND(0.5) | ND(0.5) | 1 | 2 |
| MW-8A | 2/27/2003 | ND(0.5) | ND(0.5) | 1 | 1 |
| MW-8A | 8/3/2003 | ND(0.5) | ND(0.5) | 1 | 2 |
| MW-8A | 2/17/2004 | ND(0.5) | ND(0.5) | 1 | 1 |
| MW-8A | 8/4/2004 | ND(0.5) | ND(0.5) | 1 | 2 |
| MW-8A | 2/16/2005 | ND(0.5) | ND(0.5) | 1 | 1 |
| MW-8A | 8/25/2005 | ND(0.5) | ND(0.5) | 1 | 2 |
| MW-8A | 2/16/2006 | ND(0.5) | ND(0.5) | 1 | 1 |
| MW-8A | 8/23/2006 | ND(0.5) | ND(0.5) | 1 | 2 |
| MW-8A | 2/8/2007 | ND(0.5) | ND(0.5) | 1 | 1 |
| MW-8A | 8/7/2007 | ND(0.5) | ND(0.5) | 1 | 2 |
| MW-8A | 2/8/2008 | ND(0.5) | ND(0.5) | 1 | 1 |
| SW-02UA | 1/20/2000 | 42 | 140 | 1 | ND(1) |
| SW-02UA | 5/25/2000 | 44 | 160 | 1 | ND(1) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-02UA | 9/6/2000 | 34 | 110 | 1 | ND(1) |
| SW-02UA | 12/11/2000 | 29 | 130 | ND(0.5) | ND(1) |
| SW-02UA | 4/16/2001 | 62 | 170 | ND(0.5) | ND(0.5) |
| SW-02UA | 8/8/2001 | 34 | 110 | ND(0.5) | ND(0.5) |
| SW-02UA | 12/11/2001 | 47 | 120 | ND(0.5) | ND(0.5) |
| SW-02UA | 3/18/2002 | 95 | 190 | ND(0.5) | ND(0.5) |
| SW-02UA | 6/5/2002 | 70 | 160 | ND(0.5) | ND(0.5) |
| SW-02UA | 9/11/2002 | 58 | 140 | ND(0.5) | ND(0.5) |
| SW-02UA | 12/12/2002 | 45 | 130 | ND(0.5) | ND(0.5) |
| SW-02UA | 3/3/2003 | 80 | 160 | ND(0.5) | ND(0.5) |
| SW-02UA | 6/4/2003 | 52 | 140 | ND(0.5) | ND(0.5) |
| SW-02UA | 8/26/2003 | 55 | 120 | ND(0.5) | ND(0.5) |
| SW-02UA | 8/28/2003 | 55 | 120 | ND(0.5) | ND(0.5) |
| SW-02UA | 12/15/2003 | 58 | 120 | ND(0.5) | ND(0.5) |
| SW-02UA | 3/29/2004 | 51 | 110 | ND(0.5) | ND(0.5) |
| SW-02UA | 6/8/2004 | 43 | 100 | ND(0.5) | ND(0.5) |
| SW-02UA | 9/8/2004 | 30 | 76 | ND(0.7) | ND(0.7) |
| SW-02UA | 12/7/2004 | 42 | 87 | ND(0.5) | ND(0.5) |
| SW-02UA | 3/2/2005 | 54 | 90 | ND(0.5) | ND(0.5) |
| SW-02UA | 6/9/2005 | 42 | 93 | ND(0.7) | ND(0.7) |
| SW-02UA | 9/13/2005 | 36 | 95 | ND(0.5) | ND(0.5) |
| SW-02UA | 12/2/2005 | 32 | 74 | ND(0.5) | ND(0.5) |
| SW-02UA | 3/9/2006 | 42 | 78 | ND(0.5) | ND(0.5) |
| SW-02UA | 6/8/2006 | 52 | 82 | ND(0.5) | ND(0.5) |
| SW-02UA | 9/1/2006 | 50 | 81 | ND(0.5) | ND(0.5) |
| SW-02UA | 12/1/2006 | 40 | 71 | ND(0.5) | ND(0.5) |
| SW-02UA | 3/8/2007 | 43 | 99 | ND(0.5) | ND(0.5) |
| SW-02UA | 5/31/2007 | 33 | 78 | ND(0.5) | ND(0.5) |
| SW-02UA | 8/29/2007 | 27 | 74 | ND(0.5) | ND(0.5) |
| SW-02UA | 11/28/2007 | 31 | 70 | ND(0.5) | ND(0.5) |
| SW-02UA | 2/27/2008 | 39 | 69 | ND(0.5) | ND(0.5) |
| SW-02UA | 6/19/2008 | 44 A/ | 71 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-02UA | 8/14/2008 | 35 | 59 | ND(0.50) | ND(0.50) |
| SW-02UA | 9/3/2008 | 17 | 54 | ND(0.50) | ND(0.50) |
| SW-02UA | 9/9/2008 | 19 A/ | 60 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-02UA | 9/23/2008 | 24 | 63 | ND(0.50) | ND(0.50) |
| SW-02UA | 10/22/2008 | 26 | 69 | ND(0.50) | ND(0.50) |
| SW-02UA | 11/4/2008 | 25 A/ | 69 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-03UA | 1/26/2000 | 1 | 16 | ND(0.5) | ND(1) |
| SW-03UA | 5/30/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-03UA | 9/11/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-03UA | 12/12/2000 | ND(0.5) | ND(0.7) | ND(0.5) | ND(1) |
| SW-03UA | 4/17/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 8/9/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 12/11/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 3/18/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 6/5/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 9/12/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 12/10/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 3/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 6/5/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 8/26/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 8/28/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 12/15/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-03UA | 3/26/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 6/9/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 9/8/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 12/7/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 3/1/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 6/9/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 9/15/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 11/29/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 12/2/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 3/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 6/7/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 9/5/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 12/4/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 3/12/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 5/30/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 8/29/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 11/30/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 2/27/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03UA | 6/18/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-04UA | 1/25/2000 | 2 | 3 | ND(0.5) | ND(1) |
| SW-04UA | 5/30/2000 | 1 | 10 | 2 | ND(1) |
| SW-04UA | 9/11/2000 | 11 | 29 | 34 | ND(1) |
| SW-04UA | 12/12/2000 | 4 | 21 | 6 | ND(1) |
| SW-04UA | 4/16/2001 | 23 | 39 | 41 | ND(0.5) |
| SW-04UA | 8/8/2001 | 11 | 25 | 22 | ND(0.5) |
| SW-04UA | 12/10/2001 | 4 | 6 | 1 | ND(0.5) |
| SW-04UA | 3/18/2002 | 31 | 29 | 12 | ND(0.5) |
| SW-04UA | 6/6/2002 | 22 | 24 | 8 | ND(0.5) |
| SW-04UA | 9/12/2002 | 22 | 35 | 4 | ND(0.5) |
| SW-04UA | 12/11/2002 | 4 | 14 | 1 | ND(0.5) |
| SW-04UA | 3/5/2003 | 10 | 10 | 3 | ND(0.5) |
| SW-04UA | 6/4/2003 | 30 | 24 | 5 | ND(0.5) |
| SW-04UA | 8/26/2003 | 7 | 15 | 3 | ND(0.5) |
| SW-04UA | 12/15/2003 | 3 | 22 | 2 | ND(0.5) |
| SW-04UA | 3/26/2004 | 17 | 16 | 2 | ND(0.5) |
| SW-04UA | 6/9/2004 | 11 | 17 | 3 | ND(0.5) |
| SW-04UA | 9/9/2004 | 5 | 26 | 2 | ND(0.5) |
| SW-04UA | 9/12/2004 | 22 | 35 | 4 | ND(0.5) |
| SW-04UA | 12/7/2004 | 14 | 27 | 2 | ND(0.5) |
| SW-04UA | 3/2/2005 | 10 | 17 | 1 | ND(0.5) |
| SW-04UA | 6/9/2005 | 22 | 17 | 2 | ND(0.5) |
| SW-04UA | 9/13/2005 | 4 | 16 | 1 | ND(0.5) |
| SW-04UA | 12/2/2005 | 9 | 25 | 1 | ND(0.5) |
| SW-04UA | 3/8/2006 | 30 | 23 | 1 | ND(0.5) |
| SW-04UA | 6/8/2006 | 12 | 6 | 1 | ND(0.5) |
| SW-04UA | 9/5/2006 | 10 | 11 | 1 | ND(0.5) |
| SW-04UA | 12/4/2006 | 11 | 13 | 2 | ND(0.5) |
| SW-04UA | 3/9/2007 | 19 | 13 | 1 | ND(0.5) |
| SW-04UA | 5/31/2007 | 7 | 6 | ND(0.5) | ND(0.5) |
| SW-04UA | 8/29/2007 | 9 | 10 | ND(0.5) | ND(0.5) |
| SW-04UA | 11/28/2007 | 7 | 9 | ND(0.5) | ND(0.5) |
| SW-04UA | 2/28/2008 | 16 | 8 | 1 | ND(0.5) |
| SW-04UA | 6/18/2008 | 6.8 A/ | 8.9 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-04UA | 11/4/2008 | 3.5 A/ | 11 A/ | ND(0.50) A/ | ND(0.50) A/ |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-05UA | 1/20/2000 | 26 | 340 | 1 | ND(1) |
| SW-05UA | 5/25/2000 | 78 | 2,100 | 480 | ND(13) |
| SW-05UA | 9/7/2000 | 130 | 2,600 | 76 | ND(20) |
| SW-05UA | 12/11/2000 | 140 | 3,300 | 35 | ND(25) |
| SW-05UA | 4/16/2001 | 14 | 160 | 2 | ND(0.6) |
| SW-05UA | 8/9/2001 | 28 | 530 | 3 | ND(1.7) |
| SW-05UA | 12/11/2001 | 18 | 170 | 3 | ND(0.5) |
| SW-05UA | 3/18/2002 | 31 | 420 | ND(1.7) | ND(1.7) |
| SW-05UA | 6/5/2002 | 80 | 1,300 | ND(4.2) | ND(4.2) |
| SW-05UA | 9/11/2002 | 55 | 830 | ND(3.1) | ND(3.1) |
| SW-05UA | 12/11/2002 | 77 | 1,000 | ND(2.5) | ND(2.5) |
| SW-05UA | 3/3/2003 | 31 | 450 | 1 | ND(0.8) |
| SW-05UA | 6/4/2003 | 62 | 1,000 | ND(4.2) | ND(4.2) |
| SW-05UA | 8/26/2003 | 40 | 500 | ND(2) | ND(2) |
| SW-05UA | 12/16/2003 | 98 | 1,300 | ND(5) | ND(5) |
| SW-05UA | 3/30/2004 | 150 | 1,600 | ND(5) | ND(5) |
| SW-05UA | 6/9/2004 | 220 | 2,100 | ND(5) | ND(5) |
| SW-05UA | 9/10/2004 | 220 | 2,200 | ND(17) | ND(17) |
| SW-05UA | 12/7/2004 | 200 | 1,700 | ND(10) | ND(10) |
| SW-05UA | 3/2/2005 | 42 | 210 | ND(2) | ND(2) |
| SW-05UA | 6/9/2005 | 17 | 38 | ND(0.5) | ND(0.5) |
| SW-05UA | 9/13/2005 | 13 | 60 | ND(0.5) | ND(0.5) |
| SW-05UA | 12/2/2005 | 8 | 13 | ND(0.5) | ND(0.5) |
| SW-05UA | 3/8/2006 | 5 | 8 | ND(0.5) | ND(0.5) |
| SW-05UA | 6/7/2006 | 3 | 3 | ND(0.5) | ND(0.5) |
| SW-05UA | 9/1/2006 | 4 | 5 | ND(0.5) | ND(0.5) |
| SW-05UA | 12/4/2006 | 2 | 11 | ND(0.5) | ND(0.5) |
| SW-05UA | 3/9/2007 | 2 | 7 | ND(0.5) | ND(0.5) |
| SW-05UA | 5/30/2007 | 1 | 5 | ND(0.5) | ND(0.5) |
| SW-05UA | 8/29/2007 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-05UA | 11/28/2007 | 1 | 8 | ND(0.5) | ND(0.5) |
| SW-05UA | 2/27/2008 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-05UA | 2/28/2008 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-05UA | 6/18/2008 | ND(0.50) A/ | 5.0 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-05UA | 8/14/2008 | ND(0.50) | 9 | ND(0.50) | ND(0.50) |
| SW-05UA | 9/2/2008 | 1 | 13 | ND(0.50) | ND(0.50) |
| SW-05UA | 9/24/2008 | ND(0.50) | 11 | ND(0.50) | ND(0.50) |
| SW-05UA | 10/20/2008 | 1 | 18 | ND(0.50) | ND(0.50) |
| SW-05UA | 11/3/2008 | ND(0.50) A/ | 15 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-06UA | 1/25/2000 | 810 | 740 | ND(3.1) | ND(6.3) |
| SW-06UA | 5/25/2000 | 1,900 | 2,500 | ND(8.3) | ND(17) |
| SW-06UA | 9/6/2000 | 770 | 1,000 | 170 | ND(10) |
| SW-06UA | 12/13/2000 | 1,000 | 1,300 | 68 | ND(8.3) |
| SW-06UA | 4/17/2001 | 1,300 | 2,900 | 56 | ND(13) |
| SW-06UA | 8/7/2001 | 500 | 980 | 35 | ND(3.6) |
| SW-06UA | 12/12/2001 | 590 | 1,100 | 57 | ND(3.1) |
| SW-06UA | 3/18/2002 | 3,800 | 5,800 | ND(17) | ND(17) |
| SW-06UA | 6/6/2002 | 4,200 | 6,600 | ND(20) | ND(20) |
| SW-06UA | 9/11/2002 | 5,700 | 5,900 | ND(17) | ND(17) |
| SW-06UA | 12/12/2002 | 3,200 | 4,000 | ND(17) | ND(17) |
| SW-06UA | 3/4/2003 | 1,800 | 2,900 | ND(10) | ND(10) |
| SW-06UA | 6/3/2003 | 1,200 | 1,700 | ND(6.3) | ND(6.3) |
| SW-06UA | 8/26/2003 | 1,400 | 1,400 | ND(6.3) | ND(6.3) |
| SW-06UA | 12/16/2003 | 2,200 | 2,500 | ND(10) | ND(10) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-06UA | 3/26/2004 | 990 | 1,300 | 7 | ND(5) |
| SW-06UA | 6/10/2004 | 1,000 | 1,400 | ND(7.1) | ND(7.1) |
| SW-06UA | 9/9/2004 | 1,300 | 1,400 | 9 | ND(8.3) |
| SW-06UA | 12/10/2004 | 2,400 | 3,400 | 7 | ND(3.6) |
| SW-06UA | 3/1/2005 | 1,900 | 2,300 | ND(13) | ND(13) |
| SW-06UA | 6/8/2005 | 1,200 | 1,900 | ND(10) | ND(10) |
| SW-06UA | 9/14/2005 | 1,300 | 1,600 | ND(8.3) | ND(8.3) |
| SW-06UA | 12/2/2005 | 1,100 | 1,300 | ND(10) | ND(10) |
| SW-06UA | 3/7/2006 | 680 | 1,100 | ND(7.1) | ND(7.1) |
| SW-06UA | 6/6/2006 | 170 | 250 | 4 | ND(1.7) |
| SW-06UA | 8/31/2006 | 87 | 85 | 5 | ND(0.5) |
| SW-06UA | 12/5/2006 | 56 | 85 | 5 | ND(0.5) |
| SW-06UA | 3/6/2007 | 160 | 210 | 5 | ND(1.3) |
| SW-06UA | 5/29/2007 | 220 | 250 | 7 | ND(0.5) |
| SW-06UA | 8/28/2007 | 220 | 300 | ND(2.5) | ND(2.5) |
| SW-06UA | 11/29/2007 | 360 | 420 | 4 | ND(1) |
| SW-06UA | 2/28/2008 | 640 | 630 | 5 | ND(2.5) |
| SW-06UA | 6/17/2008 | 1400 A/ | 2100 A/ | 4.1 A/ | ND(0.50) A/ |
| SW-06UA | 9/9/2008 | 3900 A/ | 4200 A/ | 5.2 A/ | ND(2.5) A/ |
| SW-06UA | 11/5/2008 | 2700 A/ | 3700 A/ | 6.2 A/ | ND(5.0) A/ |
| SW-07UA | 1/20/2000 | 36 | 3,200 | 910 | ND(20) |
| SW-07UA | 5/24/2000 | 13 | 1,300 | 140 | ND(10) |
| SW-07UA | 9/5/2000 | 7 | 960 | 240 | ND(7.1) |
| SW-07UA | 12/11/2000 | 9 | 1,400 | 290 | ND(13) |
| SW-07UA | 4/16/2001 | 7 | 950 | 130 | ND(3.1) |
| SW-07UA | 8/7/2001 | 7 | 870 | 79 | ND(3.1) |
| SW-07UA | 8/8/2001 | 7 | 870 | 79 | ND(3.1) |
| SW-07UA | 12/13/2001 | 5 | 1,600 | 130 | ND(4.2) |
| SW-07UA | 3/21/2002 | 4 | 930 | 7 | ND(3.6) |
| SW-07UA | 6/4/2002 | 2 | 540 | 6 | ND(1.7) |
| SW-07UA | 9/10/2002 | 3 | 550 | 5 | ND(2.5) |
| SW-07UA | 12/11/2002 | 3 | 980 | 4 | ND(0.5) |
| SW-07UA | 3/2/2003 | 3 | 690 | 5 | ND(2) |
| SW-07UA | 6/4/2003 | ND(4.2) | 970 | ND(4.2) | ND(4.2) |
| SW-07UA | 8/27/2003 | ND(5) | 1,400 | ND(5) | ND(5) |
| SW-07UA | 12/16/2003 | ND(6.3) | 1,300 | ND(6.3) | ND(6.3) |
| SW-07UA | 3/29/2004 | ND(12) | 1,000 | ND(5) | ND(5) |
| SW-07UA | 6/8/2004 | 6 | 1,100 | ND(3.6) | ND(3.6) |
| SW-07UA | 9/9/2004 | ND(7.1) | 1,000 | ND(7.1) | ND(7.1) |
| SW-07UA | 12/7/2004 | ND(6.3) | 1,000 | ND(6.3) | ND(6.3) |
| SW-07UA | 3/1/2005 | ND(5) | 730 | ND(5) | ND(5) |
| SW-07UA | 6/7/2005 | 4 | 550 | ND(3.1) | ND(3.1) |
| SW-07UA | 9/14/2005 | ND(10) | 1,300 | ND(10) | ND(10) |
| SW-07UA | 11/29/2005 | ND(10) | 1,400 | ND(10) | ND(10) |
| SW-07UA | 12/7/2005 | ND(6.3) | 1,000 | ND(6.3) | ND(6.3) |
| SW-07UA | 3/7/2006 | 11 | 1,700 | ND(10) | ND(10) |
| SW-07UA | 6/6/2006 | 17 | 2,000 | ND(10) | ND(10) |
| SW-07UA | 8/31/2006 | 22 | 3,500 | ND(20) | ND(20) |
| SW-07UA | 11/30/2006 | ND(25) | 4,100 | ND(25) | ND(25) |
| SW-07UA | 3/8/2007 | ND(20) | 3,200 | ND(20) | ND(20) |
| SW-07UA | 5/29/2007 | ND(25) | 2,800 | ND(25) | ND(25) |
| SW-07UA | 8/28/2007 | ND(20) | 3,000 | ND(20) | ND(20) |
| SW-07UA | 11/29/2007 | ND(6.3) | 2,500 | ND(6.3) | ND(6.3) |
| SW-07UA | 2/26/2008 | ND(8.3) | 1,300 | ND(8.3) | ND(8.3) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-07UA | 6/17/2008 | 1.1 A/ | 120 A/MHA | 2.2 A/ | ND(0.50) A/ |
| SW-07UA | 8/14/2008 | 1 | 910 | 2 | ND(0.50) |
| SW-07UA | 9/2/2008 | 1,100 | 9,900 | ND(25) | ND(25) |
| SW-07UA | 9/25/2008 | 2,400 | 7,400 | 440 | ND(5.0) |
| SW-07UA | 10/20/2008 | 2,100 | 4,400 | 2,400 | ND(5.0) |
| SW-07UA | 11/6/2008 | 220 | 530 | 1,100 | 13 |
| SW-08UA | 1/24/2000 | 3,500 | 20,000 | ND(63) | ND(130) |
| SW-08UA | 5/24/2000 | 2,800 | 18,000 | ND(83) | ND(170) |
| SW-08UA | 9/5/2000 | 2,300 | 18,000 | ND(63) | ND(130) |
| SW-08UA | 12/11/2000 | 1,800 | 16,000 | 84 | ND(170) |
| SW-08UA | 4/16/2001 | 1,300 | 15,000 | ND(50) | ND(50) |
| SW-08UA | 8/8/2001 | 1,800 | 20,000 | ND(71) | ND(71) |
| SW-08UA | 12/10/2001 | 1,500 | 19,000 | ND(71) | ND(71) |
| SW-08UA | 12/13/2001 | 1,500 | 19,000 | ND(71) | ND(71) |
| SW-08UA | 3/21/2002 | 1,600 | 13,000 | 74 | ND(42) |
| SW-08UA | 6/4/2002 | 2,000 | 23,000 | ND(83) | ND(83) |
| SW-08UA | 9/11/2002 | 2,000 | 22,000 | ND(83) | ND(83) |
| SW-08UA | 12/11/2002 | 2,000 | 24,000 | ND(71) | ND(71) |
| SW-08UA | 3/2/2003 | 1,700 | 20,000 | ND(63) | ND(63) |
| SW-08UA | 6/5/2003 | 780 | 11,000 | ND(50) | ND(50) |
| SW-08UA | 8/27/2003 | 1,300 | 15,000 | ND(63) | ND(63) |
| SW-08UA | 12/15/2003 | 2,300 | 13,000 | 59 | ND(50) |
| SW-08UA | 3/29/2004 | 2,500 | 13,000 | ND(50) | ND(50) |
| SW-08UA | 6/8/2004 | 2,200 | 11,000 | ND(50) | ND(50) |
| SW-08UA | 9/8/2004 | 3,000 | 11,000 | ND(71) | ND(71) |
| SW-08UA | 12/7/2004 | 2,100 | 11,000 | ND(63) | ND(63) |
| SW-08UA | 3/1/2005 | 770 | 5,200 | ND(31) | ND(31) |
| SW-08UA | 6/7/2005 | 1,400 | 9,700 | ND(36) | ND(36) |
| SW-08UA | 9/14/2005 | 2,800 | 10,000 | ND(83) | ND(83) |
| SW-08UA | 11/30/2005 | 2,400 | 9,800 | ND(83) | ND(83) |
| SW-08UA | 3/7/2006 | 2,200 | 5,700 | ND(36) | ND(36) |
| SW-08UA | 6/7/2006 | 2,200 | 6,100 | ND(36) | ND(36) |
| SW-08UA | 9/1/2006 | 1,600 | 3,200 | ND(25) | ND(25) |
| SW-08UA | 12/5/2006 | 830 | 2,200 | ND(25) | ND(10) |
| SW-08UA | 3/8/2007 | 1,900 | 4,000 | ND(25) | ND(25) |
| SW-08UA | 5/29/2007 | 1,600 | 3,100 | ND(17) | ND(17) |
| SW-08UA | 8/28/2007 | 1,300 | 3,600 | ND(36) | ND(36) |
| SW-08UA | 11/29/2007 | 1,500 | 3,100 | ND(20) | ND(20) |
| SW-08UA | 2/27/2008 | 970 | 2,700 | ND(20) | ND(20) |
| SW-08UA | 6/18/2008 | 1,200 A/ | 3,700 A/ | 1.8 A/ | ND(0.50) A/ |
| SW-08UA | 8/15/2008 | 1,800 | 5,200 | ND(5.0) | ND(5.0) |
| SW-08UA | 9/3/2008 | 1,000 | 4,600 | ND(5.0) | ND(5.0) |
| SW-08UA | 9/9/2008 | 850 A/ | 3,900 A/ | ND(2.5) A/ | ND(2.5) A/ |
| SW-08UA | 9/23/2008 | 660 | 4,000 | ND(5.0) | ND(5.0) |
| SW-08UA | 10/21/2008 | 1,100 | 5,100 | ND(50) | ND(50) |
| SW-08UA | 11/3/2008 | 80 A/ | 380 A/ | 2.1 A/ | ND(1.0) A/ |
| SW-09UA | 1/20/2000 | 1 | 10 | ND(0.5) | ND(1) |
| SW-09UA | 5/30/2000 | 1 | 7 | ND(0.5) | ND(1) |
| SW-09UA | 9/6/2000 | 1 | 8 | ND(0.5) | ND(1) |
| SW-09UA | 12/12/2000 | 1 | 6 | ND(0.5) | ND(1) |
| SW-09UA | 4/18/2001 | ND(0.5) | 6 | ND(0.5) | ND(0.5) |
| SW-09UA | 8/9/2001 | ND(0.5) | 6 | ND(0.5) | ND(0.5) |
| SW-09UA | 12/10/2001 | ND(0.5) | 3 | ND(0.5) | ND(0.5) |
| SW-09UA | 3/20/2002 | 1 | 6 | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-09UA | 6/4/2002 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09UA | 9/10/2002 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09UA | 12/10/2002 | ND(1) | 3 | ND(1) | ND(1) |
| SW-09UA | 3/4/2003 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09UA | 6/5/2003 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09UA | 8/28/2003 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09UA | 12/16/2003 | 1 | 5 | ND(0.5) | ND(0.5) |
| SW-09UA | 3/30/2004 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09UA | 6/10/2004 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-09UA | 9/10/2004 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09UA | 12/9/2004 | ND(4.7) | 9 | ND(0.5) | ND(0.5) |
| SW-09UA | 6/7/2005 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-09UA | 9/14/2005 | 32 | 97 | 1 | ND(0.5) |
| SW-09UA | 9/30/2005 | ND(0.5) | 6 | ND(0.5) | ND(0.5) |
| SW-09UA | 11/30/2005 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09UA | 3/7/2006 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-09UA | 6/6/2006 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09UA | 9/1/2006 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09UA | 12/5/2006 | ND(0.5) | 6 | ND(0.5) | ND(0.5) |
| SW-09UA | 3/9/2007 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09UA | 6/1/2007 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09UA | 8/30/2007 | ND(0.5) | 3 | ND(0.5) | ND(0.5) |
| SW-09UA | 11/29/2007 | ND(0.5) | 3 | ND(0.5) | ND(0.5) |
| SW-09UA | 2/26/2008 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09UA | 6/18/2008 | ND(0.50) A/ | 3.9 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-09UA | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-10UA | 1/25/2000 | 41 | 43 | 1 | ND(1) |
| SW-10UA | 5/30/2000 | 18 | 18 | 11 | ND(1) |
| SW-10UA | 9/7/2000 | 29 | 32 | 31 | ND(1) |
| SW-10UA | 12/12/2000 | 25 | 16 | 11 | ND(1) |
| SW-10UA | 4/17/2001 | 62 | 120 | 19 | ND(0.5) |
| SW-10UA | 8/8/2001 | 52 | 53 | 30 | ND(0.5) |
| SW-10UA | 12/11/2001 | 330 | 660 | 25 | ND(2) |
| SW-10UA | 3/20/2002 | 180 | 150 | ND(0.7) | ND(0.7) |
| SW-10UA | 6/6/2002 | 860 | 1,300 | ND(5) | ND(5) |
| SW-10UA | 9/11/2002 | 1,500 | 2,900 | ND(10) | ND(10) |
| SW-10UA | 12/10/2002 | 800 | 1,100 | ND(4.2) | ND(4.2) |
| SW-10UA | 3/4/2003 | 620 | 700 | ND(2.5) | ND(2.5) |
| SW-10UA | 6/3/2003 | 250 | 290 | ND(1) | ND(1) |
| SW-10UA | 8/27/2003 | 110 | 51 | ND(0.5) | ND(0.5) |
| SW-10UA | 12/17/2003 | 56 | 20 | ND(0.5) | ND(0.5) |
| SW-10UA | 3/26/2004 | 95 | 59 | 1 | ND(0.5) |
| SW-10UA | 6/9/2004 | 51 | 24 | 1 | ND(0.5) |
| SW-10UA | 9/9/2004 | 46 | 15 | ND(0.5) | ND(0.5) |
| SW-10UA | 12/9/2004 | 37 | 15 | ND(0.5) | ND(0.5) |
| SW-10UA | 3/1/2005 | 39 | 33 | ND(0.5) | ND(0.5) |
| SW-10UA | 6/7/2005 | 25 | 14 | 1 | ND(0.5) |
| SW-10UA | 9/14/2005 | 19 | 8 | 1 | ND(0.5) |
| SW-10UA | 12/2/2005 | 18 | 7 | ND(0.5) | ND(0.5) |
| SW-10UA | 3/7/2006 | 19 | 10 | 1 | ND(0.5) |
| SW-10UA | 6/6/2006 | 18 | 5 | ND(0.5) | ND(0.5) |
| SW-10UA | 8/31/2006 | 10 | 3 | ND(0.5) | ND(0.5) |
| SW-10UA | 12/5/2006 | 17 | 6 | ND(0.5) | ND(0.5) |
| SW-10UA | 3/6/2007 | 16 | 4 | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-10UA | 5/29/2007 | 13 | 4 | ND(0.5) | ND(0.5) |
| SW-10UA | 8/28/2007 | 16 | 4 | ND(0.5) | ND(0.5) |
| SW-10UA | 11/29/2007 | 9 | 2 | ND(0.5) | ND(0.5) |
| SW-10UA | 2/28/2008 | 10 | 3 | ND(0.5) | ND(0.5) |
| SW-10UA | 6/17/2008 | 3.7 A/ | 1.3 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-11UA | 1/24/2000 | 870 | 740 | ND(3.6) | ND(7.1) |
| SW-11UA | 5/31/2000 | 1,800 | 3,400 | 200 | ND(33) |
| SW-11UA | 9/7/2000 | 5,000 | 6,800 | 160 | ND(50) |
| SW-11UA | 12/14/2000 | 3,800 | 1,200 | 210 | ND(33) |
| SW-11UA | 4/17/2001 | 1,700 | 3,500 | 160 | 18 |
| SW-11UA | 8/10/2001 | 1,300 | 1,100 | 180 | 17 |
| SW-11UA | 12/12/2001 | 1,100 | 930 | 170 | 15 |
| SW-11UA | 3/20/2002 | 1,500 | 3,700 | 120 | ND(13) |
| SW-11UA | 6/6/2002 | 1,300 | 1,300 | 390 | 45 |
| SW-11UA | 9/12/2002 | 1,200 | 2,200 | 220 | 15 |
| SW-11UA | 12/11/2002 | 940 | 630 | 350 | 57 |
| SW-11UA | 3/3/2003 | 1,000 | 920 | 420 | 42 |
| SW-11UA | 3/4/2003 | 1,000 | 920 | 420 | 42 |
| SW-11UA | 6/5/2003 | 900 | 690 | 470 | 46 |
| SW-11UA | 8/27/2003 | 870 | 380 | 300 | 31 |
| SW-11UA | 12/16/2003 | 740 | 570 | 260 | 20 |
| SW-11UA | 3/29/2004 | 1,100 | 2,300 | 490 | 100 |
| SW-11UA | 4/30/2004 | 900 | 810 | 250 | 61 |
| SW-11UA | 6/8/2004 | 900 | 910 | 160 | 31 |
| SW-11UA | 9/9/2004 | 9,800 | 3,500 | 170 | 30 |
| SW-11UA | 12/9/2004 | 6,700 | 2,000 | 250 | ND(36) |
| SW-11UA | 3/2/2005 | 5,400 | 910 | 160 | ND(42) |
| SW-11UA | 6/7/2005 | 6,500 | 1,800 | 130 | 45 |
| SW-11UA | 9/14/2005 | 3,700 | 3,000 | 170 | ND(31) |
| SW-11UA | 11/30/2005 | 1,700 | 1,100 | 140 | 24 |
| SW-11UA | 3/8/2006 | 2,400 | 1,700 | 120 | 20 |
| SW-11UA | 6/7/2006 | 1,200 | 500 | 160 | 15 |
| SW-11UA | 9/6/2006 | 400 | 150 | 110 | ND(3.6) |
| SW-11UA | 12/4/2006 | 580 | 150 | 78 | ND(4.2) |
| SW-11UA | 3/9/2007 | 340 | 140 | 110 | 7 |
| SW-11UA | 5/30/2007 | 370 | 140 | 180 | 20 |
| SW-11UA | 8/29/2007 | 300 | 92 | 100 | 5 |
| SW-11UA | 11/28/2007 | 160 | 83 | 100 | 6 |
| SW-11UA | 2/27/2008 | 240 | 110 | 94 | 18 |
| SW-11UA | 6/18/2008 | 220 A/ | 110 A/ | 130 A/ | 23 A/ |
| SW-11UA | 9/9/2008 | 5,200 A/ | 3,200 A/ | 33 A/ | ND(2.5) A/ |
| SW-11UA | 11/5/2008 | 600 A/ | 900 A/ | 17 A/ | 0.55 A/ |
| SW-12UA | 1/25/2000 | 13 | 190 | 1 | ND(1) |
| SW-12UA | 5/31/2000 | 3 | 63 | 9 | 6 |
| SW-12UA | 9/6/2000 | 3 | 78 | 12 | 2 |
| SW-12UA | 12/13/2000 | 9 | 330 | 10 | ND(2) |
| SW-12UA | 4/18/2001 | 3 | 180 | 40 | 3 |
| SW-12UA | 8/10/2001 | 7 | 130 | 7 | ND(0.5) |
| SW-12UA | 12/12/2001 | 3 | 68 | 18 | ND(0.5) |
| SW-12UA | 3/20/2002 | 2 | 17 | ND(0.5) | ND(0.5) |
| SW-12UA | 6/4/2002 | 2 | 23 | 17 | ND(0.5) |
| SW-12UA | 9/10/2002 | 2 | 36 | 4 | ND(0.5) |
| SW-12UA | 12/11/2002 | 2 | 27 | 2 | ND(0.5) |
| SW-12UA | 3/4/2003 | 2 | 22 | 2 | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-12UA | 6/5/2003 | 1 | 13 | 1 | ND(0.5) |
| SW-12UA | 8/28/2003 | 2 | 16 | 2 | ND(0.5) |
| SW-12UA | 12/17/2003 | 2 | 25 | 3 | ND(0.5) |
| SW-12UA | 3/29/2004 | 2 | 21 | 2 | ND(0.5) |
| SW-12UA | 6/10/2004 | 2 | 24 | 3 | ND(0.5) |
| SW-12UA | 9/10/2004 | 21 | 530 | ND(4.2) | ND(4.2) |
| SW-12UA | 12/9/2004 | 13 | 270 | ND(2) | ND(2) |
| SW-12UA | 3/2/2005 | 7 | 95 | 2 | ND(0.5) |
| SW-12UA | 6/9/2005 | 10 | 220 | ND(1.7) | ND(1.7) |
| SW-12UA | 9/14/2005 | 34 | 980 | ND(8.3) | ND(8.3) |
| SW-12UA | 11/30/2005 | 37 | 900 | ND(7.1) | ND(7.1) |
| SW-12UA | 3/7/2006 | 19 | 790 | ND(5) | ND(5) |
| SW-12UA | 6/7/2006 | 28 | 900 | ND(6.3) | ND(6.3) |
| SW-12UA | 9/5/2006 | 53 | 740 | 8 | ND(4.2) |
| SW-12UA | 12/4/2006 | 53 | 850 | 9 | ND(7.1) |
| SW-12UA | 3/9/2007 | 47 | 510 | 11 | ND(3.1) |
| SW-12UA | 5/30/2007 | 43 | 690 | 11 | ND(3.6) |
| SW-12UA | 8/29/2007 | 47 | 550 | 9 | ND(5) |
| SW-12UA | 11/29/2007 | 40 | 510 | 13 | ND(2) |
| SW-12UA | 2/27/2008 | 20 | 740 | 6 | ND(4.2) |
| SW-12UA | 6/18/2008 | 13 A/ | 520 A/ | 2.3 A/ | ND(0.50) A/ |
| SW-12UA | 9/9/2008 | 3.3 A/ | 51 A/ | 1.2 A/ | ND(0.50) A/ |
| SW-12UA | 11/4/2008 | 2.4 A/ | 29 A/ | 1.5 A/ | ND(0.50) A/ |
| SW-13UA | 1/24/2000 | 6 | 33 | 79 | 1 |
| SW-13UA | 5/25/2000 | 10 | 67 | 60 | 1 |
| SW-13UA | 9/11/2000 | 21 | 110 | 84 | 1 |
| SW-13UA | 12/14/2000 | 12 | 83 | 120 | 1 |
| SW-13UA | 4/18/2001 | 26 | 150 | 96 | 1 |
| SW-13UA | 8/10/2001 | 12 | 92 | 130 | 1 |
| SW-13UA | 12/13/2001 | 22 | 110 | 110 | 1 |
| SW-13UA | 3/21/2002 | 41 | 150 | 71 | 1 |
| SW-13UA | 6/7/2002 | 46 | 170 | 72 | 1 |
| SW-13UA | 9/11/2002 | 44 | 170 | 80 | 1 |
| SW-13UA | 12/13/2002 | 35 | 180 | 96 | 1 |
| SW-13UA | 3/5/2003 | 40 | 170 | 80 | 1 |
| SW-13UA | 6/5/2003 | 40 | 160 | 65 | 1 |
| SW-13UA | 8/28/2003 | 13 | 80 | 52 | 1 |
| SW-13UA | 12/17/2003 | 13 | 78 | 70 | 1 |
| SW-13UA | 3/30/2004 | 41 | 170 | 62 | 1 |
| SW-13UA | 6/8/2004 | 31 | 140 | 68 | 1 |
| SW-13UA | 9/10/2004 | 37 | 150 | 53 | 1 |
| SW-13UA | 12/8/2004 | 47 | 150 | 51 | 1 |
| SW-13UA | 3/3/2005 | 24 | 130 | 66 | 1 |
| SW-13UA | 6/8/2005 | 30 | 130 | 60 | 1 |
| SW-13UA | 9/14/2005 | 22 | 97 | 33 | 1 |
| SW-13UA | 11/29/2005 | 17 | 78 | 34 | 1 |
| SW-13UA | 3/9/2006 | 27 | 130 | 43 | 1 |
| SW-13UA | 6/7/2006 | 8 | 48 | 18 | 1 |
| SW-13UA | 9/5/2006 | 43 | 140 | 32 | 1 |
| SW-13UA | 12/5/2006 | 21 | 99 | 43 | 1 |
| SW-13UA | 3/12/2007 | 18 | 95 | 38 | 1 |
| SW-13UA | 6/1/2007 | 26 | 120 | 26 | 1 |
| SW-13UA | 8/30/2007 | 38 | 120 | 35 | 1 |
| SW-13UA | 11/30/2007 | 38 | 82 | 32 | 1 |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-13UA | 2/28/2008 | 34 | 100 | 37 | 1 |
| SW-13UA | 6/19/2008 | 21 A/ | 120 A/ | 37 A/ | ND(0.50) A/ |
| SW-17UA | 9/15/2005 | 4 | 6 | 5 | ND(0.5) |
| SW-17UA | 11/30/2005 | 26 | 28 | 12 | ND(0.5) |
| SW-17UA | 3/8/2006 | 33 | 33 | 18 | ND(0.5) |
| SW-17UA | 6/8/2006 | 21 | 18 | 11 | ND(0.5) |
| SW-17UA | 9/6/2006 | 59 | 47 | 41 | 1 |
| SW-17UA | 12/5/2006 | 92 | 68 | 59 | 2 |
| SW-17UA | 3/12/2007 | 51 | 32 | 50 | 1 |
| SW-17UA | 5/30/2007 | 43 | 22 | 27 | ND(0.5) |
| SW-17UA | 8/30/2007 | 33 | 16 | 15 | 1 |
| SW-17UA | 11/28/2007 | 17 | 11 | 10 | ND(0.5) |
| SW-17UA | 2/26/2008 | 20 | 12 | 10 | ND(0.5) |
| SW-17UA | 6/18/2008 | 15 A/ | 12 A/ | 4.9 A/ | ND(0.50) A/ |
| SW-19UA | 4/25/2003 | 4 | 27 | ND(0.5) | ND(0.5) |
| SW-19UA | 6/4/2003 | 4 | 28 | ND(0.5) | ND(0.5) |
| SW-19UA | 8/26/2003 | 5 | 27 | ND(0.5) | ND(0.5) |
| SW-19UA | 12/16/2003 | 5 | 30 | ND(0.5) | ND(0.5) |
| SW-19UA | 3/30/2004 | 5 | 34 | ND(0.5) | ND(0.5) |
| SW-19UA | 6/10/2004 | 5 | 27 | ND(0.5) | ND(0.5) |
| SW-19UA | 9/8/2004 | 4 | 25 | ND(0.5) | ND(0.5) |
| SW-19UA | 12/8/2004 | 9 | 39 | ND(0.5) | ND(0.5) |
| SW-19UA | 3/2/2005 | 6 | 30 | ND(0.5) | ND(0.5) |
| SW-19UA | 6/8/2005 | 3 | 22 | ND(0.5) | ND(0.5) |
| SW-19UA | 9/13/2005 | 3 | 22 | ND(0.5) | ND(0.5) |
| SW-19UA | 12/2/2005 | 3 | 18 | ND(0.5) | ND(0.5) |
| SW-19UA | 3/9/2006 | 3 | 14 | ND(0.5) | ND(0.5) |
| SW-19UA | 6/9/2006 | 3 | 14 | ND(0.5) | ND(0.5) |
| SW-19UA | 9/5/2006 | 2 | 10 | ND(0.5) | ND(0.5) |
| SW-19UA | 12/4/2006 | 2 | 12 | ND(0.5) | ND(0.5) |
| SW-19UA | 3/7/2007 | 3 | 18 | ND(0.5) | ND(0.5) |
| SW-19UA | 5/31/2007 | 2 | 13 | ND(0.5) | ND(0.5) |
| SW-19UA | 8/30/2007 | 3 | 10 | ND(0.5) | ND(0.5) |
| SW-19UA | 11/30/2007 | 2 | 10 | ND(0.5) | ND(0.5) |
| SW-19UA | 2/27/2008 | 3 | 14 | ND(0.5) | ND(0.5) |
| SW-19UA | 6/19/2008 | 2.2 A/ | 10 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-20UA | 4/24/2003 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-20UA | 6/4/2003 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-20UA | 8/26/2003 | 2 | 10 | ND(0.5) | ND(0.5) |
| SW-20UA | 12/16/2003 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-20UA | 3/30/2004 | 2 | 9 | ND(0.5) | ND(0.5) |
| SW-20UA | 6/10/2004 | 2 | 9 | ND(0.5) | ND(0.5) |
| SW-20UA | 9/8/2004 | 2 | 10 | ND(0.5) | ND(0.5) |
| SW-20UA | 12/8/2004 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-20UA | 3/3/2005 | ND(0.5) | 2 | ND(0.5) | ND(0.5) |
| SW-20UA | 6/8/2005 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-20UA | 9/15/2005 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-20UA | 11/29/2005 | 2 | 10 | ND(0.5) | ND(0.5) |
| SW-20UA | 3/9/2006 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-20UA | 6/8/2006 | 2 | 6 | ND(0.5) | ND(0.5) |
| SW-20UA | 9/6/2006 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-20UA | 12/1/2006 | 1 | 5 | ND(0.5) | ND(0.5) |
| SW-20UA | 3/12/2007 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-20UA | 5/30/2007 | 1 | 6 | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-20UA | 8/28/2007 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-20UA | 11/28/2007 | 1 | 5 | ND(0.5) | ND(0.5) |
| SW-20UA | 2/26/2008 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-20UA | 6/19/2008 | 2.9 A/ | 14 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-22UA | 4/24/2003 | 3 | 32 | ND(0.5) | ND(0.5) |
| SW-22UA | 6/4/2003 | 9 | 72 | ND(0.5) | ND(0.5) |
| SW-22UA | 8/26/2003 | 4 | 45 | ND(0.5) | ND(0.5) |
| SW-22UA | 12/16/2003 | 4 | 47 | ND(0.5) | ND(0.5) |
| SW-22UA | 3/30/2004 | 4 | 32 | ND(0.5) | ND(0.5) |
| SW-22UA | 6/9/2004 | 7 | 39 | ND(0.5) | ND(0.5) |
| SW-22UA | 9/8/2004 | 5 | 43 | ND(0.5) | ND(0.5) |
| SW-22UA | 12/8/2004 | 4 | 39 | ND(0.5) | ND(0.5) |
| SW-22UA | 3/3/2005 | 6 | 42 | ND(0.5) | ND(0.5) |
| SW-22UA | 6/8/2005 | 3 | 18 | ND(0.5) | ND(0.5) |
| SW-22UA | 9/15/2005 | 4 | 32 | ND(0.5) | ND(0.5) |
| SW-22UA | 11/29/2005 | 4 | 25 | ND(0.5) | ND(0.5) |
| SW-22UA | 3/9/2006 | 5 | 26 | ND(0.5) | ND(0.5) |
| SW-22UA | 6/8/2006 | 4 | 20 | ND(0.5) | ND(0.5) |
| SW-22UA | 9/6/2006 | 2 | 11 | ND(0.5) | ND(0.5) |
| SW-22UA | 12/1/2006 | 4 | 19 | ND(0.5) | ND(0.5) |
| SW-22UA | 3/7/2007 | 12 | 45 | ND(0.5) | ND(0.5) |
| SW-22UA | 5/30/2007 | 5 | 20 | ND(0.5) | ND(0.5) |
| SW-22UA | 8/28/2007 | 4 | 17 | ND(0.5) | ND(0.5) |
| SW-22UA | 11/28/2007 | 4 | 18 | ND(0.5) | ND(0.5) |
| SW-22UA | 2/26/2008 | 4 | 25 | ND(0.5) | ND(0.5) |
| SW-22UA | 6/19/2008 | 3.3 A/ | 17 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-22UA | 9/9/2008 | 3.2 A/ | 16 A/ | ND(0.50) A/ | ND(0.50) UJ/ |
| SW-22UA | 11/6/2008 | 3.8 A/ | 18 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-23UA | 8/14/2008 | 1 | 63 | ND(0.50) | ND(0.50) |
| SW-23UA | 9/3/2008 | ND(0.50) | 13 | ND(0.50) | ND(0.50) |
| SW-23UA | 9/24/2008 | 1 | 63 | ND(0.50) | ND(0.50) |
| SW-23UA | 10/21/2008 | 1 | 60 | ND(0.50) | ND(0.50) |
| SW-23UA | 11/6/2008 | 1 | 56 | ND(0.50) | ND(0.50) |
| TRW-1 | 12/1/1997 | 69 | 610 | ND(0.5) | ND(0.5) |
| TRW-1 | 4/1/1999 | 73 | 850 | ND(36) | ND(71) |
| TRW-1 | 7/1/1999 | 130 | 1,300 | ND(5) | ND(10) |
| TRW-1 | 11/3/1999 | 93 | 1,200 | ND(42) | ND(83) |
| TRW-1 | 2/1/2000 | 370 | 4,300 | ND(17) | ND(33) |
| TRW-1 | 5/5/2000 | 74 | 180 | ND(0.7) | ND(1.4) |
| TRW-1 | 8/31/2000 | 54 | 170 | ND(0.5) | ND(1) |
| TRW-1 | 11/14/2000 | 25 | 94 | ND(0.5) | ND(0.5) |
| TRW-1 | 2/28/2001 | 32 | 95 | 2 | ND(0.5) |
| TRW-1 | 5/31/2001 | 11 | 26 | ND(0.5) | ND(0.5) |
| TRW-1 | 8/21/2001 | 13 | 46 | ND(5) | ND(10) |
| TRW-1 | 11/1/2001 | 29 | 95 | 2 | ND(0.5) |
| TRW-1 | 2/27/2002 | 9 | 20 | ND(0.5) | ND(0.5) |
| TRW-1 | 5/28/2002 | 10 | 28 | ND(0.5) | ND(0.5) |
| TRW-1 | 8/28/2002 | 11 | 37 | ND(0.5) | ND(0.5) |
| TRW-1 | 2/27/2003 | 7 | 16 | ND(0.5) | ND(0.5) |
| TRW-1 | 8/3/2003 | 9 | 43 | ND(0.5) | ND(0.5) |
| TRW-1 | 2/18/2004 | 7 | 19 | ND(0.5) | ND(0.5) |
| TRW-1 | 8/4/2004 | 6 | 17 | ND(0.5) | ND(0.5) |
| TRW-1 | 2/18/2005 | 7 | 17 | ND(0.5) | ND(0.5) |
| TRW-1 | 8/24/2005 | 15 | 86 | 1 | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|------------------------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| TRW-1 | 2/17/2006 | 20 | 74 | 5 | ND(0.5) |
| TRW-1 | 8/24/2006 | 20 | 49 | 1 | ND(0.5) |
| TRW-1 | 2/9/2007 | 160 | 820 | 1 | ND(0.5) |
| TRW-1 | 8/7/2007 | 73 | 150 | ND(1.3) | ND(1.3) |
| TRW-1 | 2/8/2008 | 91 | 450 | ND(3.1) | ND(0.5) |
| TRW-1 | 11/4/2008 | 6.0 A/ | 19 A/ | ND(0.50) A/ | ND(0.50) A/ |
| TRW-2 | 12/11/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| TRW-2 | 4/16/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 8/9/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 12/10/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 3/20/2002 | 1 | 1 | ND(0.5) | ND(0.5) |
| TRW-2 | 6/5/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 9/13/2002 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| TRW-2 | 12/10/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 3/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 6/4/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 8/26/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 12/16/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 3/30/2004 | 1 | 1 | ND(0.5) | ND(0.5) |
| TRW-2 | 6/10/2004 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| TRW-2 | 9/8/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 12/8/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 3/3/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 6/8/2005 | 1 | 1 | ND(0.5) | ND(0.5) |
| TRW-2 | 9/15/2005 | 4 | 2 | ND(0.5) | ND(0.5) |
| TRW-2 | 11/29/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 3/9/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 6/8/2006 | 1 | 1 | ND(0.5) | ND(0.5) |
| TRW-2 | 9/6/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 12/1/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 3/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 5/30/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 8/28/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 11/28/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 2/26/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| TRW-2 | 6/19/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| TRW-2 | 11/6/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| Lower A Aquifer | | | | | |
| BMW-1 | 2/16/2006 | 3 | 9 | ND(0.5) | ND(0.5) |
| BMW-1 | 8/23/2006 | 3 | 6 | ND(0.5) | ND(0.5) |
| BMW-1 | 2/7/2007 | 3 | 7 | ND(0.5) | ND(0.5) |
| BMW-1 | 8/7/2007 | 3 | 5 | ND(0.5) | ND(0.5) |
| BMW-1 | 2/8/2008 | 3 | 5 | ND(0.5) | ND(0.5) |
| BMW-2 | 2/17/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| BMW-2 | 8/23/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| BMW-2 | 2/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| BMW-2 | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| BMW-2 | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| BMW-2 | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| GT-3 | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 4/5/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| GT-3 | 7/1/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| GT-3 | 11/3/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| GT-3 | 2/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| GT-3 | 5/5/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| GT-3 | 8/31/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 11/14/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 2/26/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 5/31/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 8/22/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| GT-3 | 11/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 2/27/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 8/29/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 2/27/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 2/18/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 8/4/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 2/5/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 8/24/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 2/16/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 8/22/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 2/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-3 | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| GT-4 | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GWE-5 | 5/1/1998 | ND(50) | ND(50) | ND(50) | ND(100) |
| GWE-5 | 4/1/1999 | ND(250) | ND(250) | ND(250) | ND(500) |
| GWE-5 | 7/1/1999 | ND(0.5) | 2 | 24 | 2 |
| GWE-5 | 11/3/1999 | ND(7.1) | ND(7.1) | 22 | ND(14) |
| GWE-5 | 2/1/2000 | ND(0.5) | 1 | 16 | 3 |
| GWE-5 | 5/5/2000 | ND(0.5) | 2 | 23 | 2 |
| GWE-5 | 8/31/2000 | ND(0.5) | 1 | 20 | 1 |
| GWE-5 | 11/16/2000 | ND(0.5) | 2 | 23 | 2 |
| GWE-5 | 11/1/2001 | ND(6.3) | ND(6.3) | 15 | ND(6.3) |
| GWE-5 | 2/26/2002 | ND(10) | ND(10) | 15 | ND(10) |
| GWE-5 | 8/2/2002 | ND(17) | ND(17) | ND(17) | ND(17) |
| GWE-5 | 2/27/2003 | ND(1) | 1 | 19 | 1 |
| GWE-5 | 8/4/2004 | ND(0.5) | 1 | 18 | 2 |
| GWE-5 | 2/5/2005 | 290 | 7,900 | ND(63) | ND(63) |
| GWE-5 | 5/5/2005 | 240 | 5,100 | 880 | ND(31) |
| GWE-5 | 8/5/2005 | 150 | 610 | 900 | ND(17) |
| GWE-5 | 2/17/2006 | 18 | ND(17) | 190 | 49 |
| GWE-5 | 8/24/2006 | ND(17) | ND(17) | 53 | ND(17) |
| GWE-6 | 12/1/1997 | 1,800 | 5,300 | 150 | ND(0.5) |
| GWE-6 | 5/1/1998 | 4,000 | 5,900 | 120 | ND(80) |
| GWE-6 | 4/1/1999 | 7,800 | 5,400 | ND(250) | ND(500) |
| GWE-6 | 7/1/1999 | 6,700 | 8,800 | 63 | ND(63) |
| GWE-6 | 11/3/1999 | 5,900 | 10,000 | 72 | ND(71) |
| GWE-6 | 2/1/2000 | 6,400 | 12,000 | 88 | ND(71) |
| GWE-6 | 5/5/2000 | 5,900 | 11,000 | 180 | ND(71) |
| GWE-6 | 11/16/2000 | 5,100 | 13,000 | 130 | ND(83) |
| GWE-6 | 5/30/2001 | 4,900 | 16,000 | 120 | ND(50) |
| GWE-6 | 8/21/2001 | 5,000 | 15,000 | ND(500) | ND(1000) |
| GWE-6 | 11/1/2001 | 3,000 | 13,000 | 110 | ND(50) |
| GWE-6 | 2/26/2002 | 2,800 | 13,000 | 110 | ND(50) |
| GWE-6 | 5/28/2002 | 2,800 | 13,000 | 130 | ND(50) |
| GWE-6 | 8/28/2002 | 3,800 | 18,000 | 98 | ND(50) |
| GWE-6 | 11/14/2002 | 4,000 | 22,000 | 73 | ND(63) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| GWE-6 | 2/27/2003 | 3,300 | 17,000 | ND(63) | ND(63) |
| GWE-6 | 5/27/2003 | 3,000 | 17,000 | ND(830) | ND(1700) |
| GWE-6 | 8/3/2003 | 2,300 | 14,000 | 72 | ND(50) |
| GWE-6 | 11/24/2003 | 2,600 | 13,000 | ND(71) | ND(71) |
| GWE-6 | 2/17/2004 | 2,700 | 12,000 | 50 | ND(50) |
| GWE-6 | 5/11/2004 | 3,500 | 16,000 | 37 | ND(20) |
| GWE-6 | 8/4/2004 | 3,700 | 15,000 | ND(100) | ND(100) |
| GWE-6 | 11/17/2004 | 3,600 | 14,000 | ND(50) | ND(50) |
| GWE-6 | 2/16/2005 | 3,500 | 9,900 | 67 | ND(100) |
| GWE-6 | 5/5/2005 | 3,400 | 11,000 | 72 | ND(71) |
| GWE-6 | 8/24/2005 | 4,200 | 14,000 | ND(83) | ND(83) |
| GWE-6 | 11/5/2005 | 4,600 | 10,000 | ND(83) | ND(83) |
| GWE-6 | 2/16/2006 | 5,200 | 12,000 | ND(71) | ND(71) |
| GWE-6 | 5/16/2006 | 5,000 | 11,000 | ND(100) | ND(100) |
| GWE-6 | 8/24/2006 | 5,400 | 8,000 | ND(50) | ND(50) |
| GWE-6 | 11/6/2006 | 6,600 | 8,800 | ND(42) | ND(42) |
| GWE-6 | 2/8/2007 | 4,500 | 7,500 | ND(50) | ND(50) |
| GWE-6 | 5/2/2007 | 6,700 | 8,100 | ND(71) | ND(71) |
| GWE-6 | 8/7/2007 | 5,800 | 7,200 | ND(50) | ND(50) |
| GWE-6 | 11/15/2007 | 4,100 | 6,600 | ND(50) | ND(50) |
| GWE-6 | 2/8/2008 | 3,700 | 6,700 | ND(50) | ND(50) |
| GWE-7 | 12/1/1997 | 4,900 | 13,000 | 420 | ND(0.5) |
| GWE-7 | 5/1/1998 | 2,900 | 12,000 | 510 | ND(170) |
| GWE-7 | 4/1/1999 | 2,100 | 9,700 | 380 | ND(1000) |
| GWE-7 | 7/1/1999 | 2,200 | 13,000 | 210 | ND(83) |
| GWE-7 | 11/3/1999 | 1,600 | 9,700 | 140 | ND(63) |
| GWE-7 | 2/1/2000 | 1,800 | 12,000 | 90 | ND(71) |
| GWE-7 | 5/5/2000 | 1,500 | 12,000 | 53 | ND(71) |
| GWE-7 | 11/16/2000 | 1,700 | 15,000 | 48 | ND(83) |
| GWE-7 | 5/30/2001 | 1,800 | 16,000 | ND(50) | ND(50) |
| GWE-7 | 8/20/2001 | 1,700 | 13,000 | ND(500) | ND(1000) |
| GWE-7 | 11/1/2001 | 1,400 | 14,000 | ND(50) | ND(50) |
| GWE-7 | 2/26/2002 | 730 | 9,400 | ND(36) | ND(36) |
| GWE-7 | 5/28/2002 | 2,000 | 19,000 | ND(63) | ND(63) |
| GWE-7 | 8/28/2002 | 2,300 | 18,000 | 54 | ND(50) |
| GWE-7 | 11/14/2002 | 1,400 | 18,000 | ND(63) | ND(63) |
| GWE-7 | 2/27/2003 | 1,500 | 18,000 | ND(50) | ND(50) |
| GWE-7 | 5/27/2003 | 1,400 | 18,000 | ND(630) | ND(1300) |
| GWE-7 | 8/3/2003 | 1,100 | 13,000 | ND(50) | ND(50) |
| GWE-7 | 11/24/2003 | 1,300 | 12,000 | ND(42) | ND(42) |
| GWE-7 | 2/17/2004 | 1,100 | 8,500 | ND(36) | ND(36) |
| GWE-7 | 5/11/2004 | 1,200 | 11,000 | 21 | ND(20) |
| GWE-7 | 8/4/2004 | 1,200 | 8,600 | ND(71) | ND(71) |
| GWE-7 | 11/17/2004 | 1,000 | 7,200 | ND(71) | ND(71) |
| GWE-7 | 2/6/2005 | 950 | 7,900 | ND(42) | ND(42) |
| GWE-7 | 5/5/2005 | 890 | 7,800 | ND(63) | ND(63) |
| GWE-7 | 8/24/2005 | 920 | 7,800 | 41 | ND(40) |
| GWE-7 | 11/5/2005 | 1,000 | 7,100 | ND(50) | ND(50) |
| GWE-7 | 2/16/2006 | 1,100 | 7,900 | 59 | ND(50) |
| GWE-7 | 5/16/2006 | 1,200 | 8,300 | 55 | ND(50) |
| GWE-7 | 8/24/2006 | 1,000 | 6,200 | 66 | ND(50) |
| GWE-7 | 11/6/2006 | 1,100 | 7,500 | ND(50) | ND(50) |
| GWE-7 | 2/8/2007 | 1,100 | 6,700 | ND(50) | ND(50) |
| GWE-7 | 5/2/2007 | 1,300 | 8,500 | 56 | ND(50) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| GWE-7 | 11/15/2007 | 1,100 | 6,500 | 63 | ND(50) |
| GWE-7 | 2/8/2008 | 820 | 5,400 | ND(50) | ND(50) |
| GWE-8 | 12/1/1997 | 2,100 | 31,000 | ND(0.5) | ND(0.5) |
| GWE-8 | 5/1/1998 | 1,600 | 31,000 | ND(200) | ND(400) |
| GWE-8 | 4/1/1999 | 2,400 | 37,000 | ND(1000) | ND(2000) |
| GWE-8 | 7/1/1999 | 2,200 | 46,000 | ND(170) | ND(330) |
| GWE-8 | 11/3/1999 | 2,600 | 43,000 | ND(130) | ND(250) |
| GWE-8 | 2/1/2000 | 5,100 | 12,000 | 98 | ND(71) |
| GWE-8 | 5/5/2000 | 2,400 | 39,000 | ND(130) | ND(250) |
| GWE-8 | 11/16/2000 | 2,200 | 41,000 | ND(170) | ND(330) |
| GWE-8 | 5/30/2001 | 2,300 | 41,000 | ND(170) | ND(170) |
| GWE-8 | 8/20/2001 | 2,000 | 36,000 | ND(1300) | ND(2500) |
| GWE-8 | 11/1/2001 | 2,500 | 50,000 | ND(130) | ND(130) |
| GWE-8 | 2/26/2002 | 2,100 | 42,000 | ND(130) | ND(130) |
| GWE-8 | 5/28/2002 | 2,800 | 52,000 | ND(170) | ND(170) |
| GWE-8 | 8/28/2002 | 1,900 | 39,000 | ND(100) | ND(100) |
| GWE-8 | 11/14/2002 | 2,200 | 48,000 | ND(130) | ND(130) |
| GWE-8 | 2/27/2003 | 2,400 | 47,000 | ND(200) | ND(200) |
| GWE-8 | 5/27/2003 | 2,200 | 55,000 | ND(2000) | ND(4000) |
| GWE-8 | 8/3/2003 | 1,300 | 33,000 | ND(130) | ND(130) |
| GWE-8 | 11/24/2003 | 1,600 | 30,000 | ND(170) | ND(170) |
| GWE-8 | 2/17/2004 | 1,900 | 31,000 | ND(130) | ND(130) |
| GWE-8 | 5/11/2004 | 1,800 | 37,000 | ND(130) | ND(130) |
| GWE-8 | 8/4/2004 | 1,600 | 33,000 | ND(170) | ND(170) |
| GWE-8 | 11/17/2004 | 1,700 | 30,000 | ND(100) | ND(100) |
| GWE-8 | 2/16/2005 | 1,600 | 27,000 | ND(130) | ND(130) |
| GWE-8 | 5/5/2005 | 1,700 | 30,000 | ND(170) | ND(170) |
| GWE-8 | 8/24/2005 | 1,400 | 32,000 | ND(71) | ND(71) |
| GWE-8 | 11/5/2005 | 1,500 | 24,000 | ND(200) | ND(200) |
| GWE-8 | 2/16/2006 | 1,500 | 26,000 | ND(170) | ND(170) |
| GWE-8 | 5/16/2006 | 1,700 | 26,000 | ND(63) | ND(63) |
| GWE-8 | 8/24/2006 | 1,200 | 16,000 | ND(100) | ND(100) |
| GWE-8 | 11/8/2006 | 1,500 | 20,000 | ND(100) | ND(100) |
| GWE-8 | 2/8/2007 | 2,000 | 26,000 | ND(170) | ND(170) |
| GWE-8 | 5/2/2007 | 1,800 | 22,000 | ND(170) | ND(170) |
| GWE-8 | 8/7/2007 | 1,800 | 19,000 | ND(170) | ND(170) |
| GWE-8 | 11/15/2007 | 1,500 | 21,000 | ND(170) | ND(170) |
| GWE-8 | 2/8/2008 | 1,100 | 20,000 | ND(170) | ND(100) |
| LF-10B | 12/1/1997 | 5,900 | 240,000 | ND(0.5) | ND(0.5) |
| LF-10B | 5/1/1998 | 8,400 | 340,000 | ND(2500) | ND(5000) |
| LF-10B | 4/1/1999 | 10,000 | 350,000 | ND(13000) | ND(25000) |
| LF-10B | 7/1/1999 | 8,400 | 260,000 | ND(1000) | ND(2000) |
| LF-10B | 11/3/1999 | 8,800 | 330,000 | ND(830) | ND(1700) |
| LF-10B | 2/1/2000 | 11,000 | 390,000 | ND(1300) | ND(2500) |
| LF-10B | 5/5/2000 | 7,400 | 250,000 | ND(1300) | ND(2500) |
| LF-10B | 8/31/2000 | 8,600 | 290,000 | ND(1000) | ND(1000) |
| LF-10B | 11/14/2000 | 5,800 | 260,000 | ND(420) | ND(420) |
| LF-10B | 2/28/2001 | 7,900 | 270,000 | ND(1300) | ND(1300) |
| LF-10B | 5/31/2001 | 5,500 | 200,000 | ND(1000) | ND(1000) |
| LF-10B | 8/21/2001 | ND(7100) | 250,000 | ND(7100) | ND(14000) |
| LF-10B | 11/1/2001 | 5,900 | 210,000 | ND(710) | ND(710) |
| LF-10B | 2/27/2002 | 6,200 | 220,000 | ND(630) | ND(630) |
| LF-10B | 8/28/2002 | 8,900 | 280,000 | ND(710) | ND(710) |
| LF-10B | 2/27/2003 | 14,000 | 370,000 | ND(1300) | ND(1300) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| LF-10B | 8/3/2003 | 6,700 | 210,000 | ND(830) | ND(830) |
| LF-10B | 2/19/2004 | 8,500 | 230,000 | ND(830) | ND(830) |
| LF-10B | 8/4/2004 | 9,000 | 250,000 | ND(1700) | ND(1700) |
| LF-10B | 2/18/2005 | 11,000 | 250,000 | ND(2500) | ND(2500) |
| LF-10B | 8/24/2005 | 12,000 | 290,000 | ND(1700) | ND(1700) |
| LF-10B | 2/17/2006 | 7,000 | 220,000 | ND(2000) | ND(2000) |
| LF-10B | 8/24/2006 | 4,100 | 120,000 | ND(630) | ND(630) |
| LF-10B | 2/9/2007 | 9,800 | 250,000 | ND(2500) | ND(2500) |
| LF-10B | 8/7/2007 | 12,000 | 220,000 | ND(1700) | ND(1700) |
| LF-10B | 2/8/2008 | 9,700 | 230,000 | ND(1300) | ND(2500) |
| LF-10B | 8/15/2008 | 13,000 | 400,000 | ND(50) | ND(50) |
| LF-10B | 9/4/2008 | 11,000 | 320,000 | ND(250) | ND(250) |
| LF-10B | 9/23/2008 | 10,000 | 340,000 | ND(250) | ND(250) |
| LF-10B | 10/21/2008 | 10,000 | 260,000 | ND(250) | ND(250) |
| LF-10B | 11/5/2008 | 9,500 A/ | 230,000 A/ | ND(250) A/ | ND(250) A/ |
| LF-12A | 12/1/1997 | 1,500 | 2,500 | 1 | ND(0.5) |
| LF-12A | 5/1/1998 | 1,900 | 3,200 | ND(17) | ND(33) |
| LF-12A | 4/1/1999 | 1,200 | 2,500 | ND(130) | ND(250) |
| LF-12A | 7/1/1999 | 1,200 | 2,200 | ND(8.3) | ND(17) |
| LF-12A | 11/3/1999 | 1,200 | 2,500 | ND(83) | ND(170) |
| LF-12A | 2/1/2000 | 930 | 2,000 | ND(6.3) | ND(13) |
| LF-12A | 5/5/2000 | 990 | 2,000 | ND(6.3) | ND(13) |
| LF-12A | 8/31/2000 | 1,400 | 2,500 | 2 | ND(1) |
| LF-12A | 11/15/2000 | 910 | 2,000 | ND(6.3) | ND(13) |
| LF-12A | 2/28/2001 | 980 | 1,900 | ND(6.3) | ND(6.3) |
| LF-12A | 5/31/2001 | 3,800 | 8,100 | ND(10) | ND(10) |
| LF-12A | 8/20/2001 | 1,100 | 2,400 | ND(63) | ND(130) |
| LF-12A | 11/1/2001 | 1,100 | 2,400 | ND(10) | ND(10) |
| LF-12A | 2/27/2002 | 1,200 | 3,100 | ND(8.3) | ND(8.3) |
| LF-12A | 5/28/2002 | 1,100 | 2,800 | ND(8.3) | ND(8.3) |
| LF-12A | 8/28/2002 | 1,500 | 3,100 | ND(10) | ND(10) |
| LF-12A | 11/14/2002 | 1,100 | 2,900 | ND(8.3) | ND(8.3) |
| LF-12A | 2/27/2003 | 2,000 | 4,700 | ND(17) | ND(17) |
| LF-12A | 5/27/2003 | 900 | 2,200 | ND(100) | ND(200) |
| LF-12A | 8/3/2003 | 1,000 | 2,300 | ND(10) | ND(10) |
| LF-12A | 11/24/2003 | 3,800 | 8,400 | ND(36) | ND(36) |
| LF-12A | 2/18/2004 | 1,000 | 2,400 | ND(10) | ND(10) |
| LF-12A | 5/11/2004 | 890 | 2,000 | ND(3.1) | ND(3.1) |
| LF-12A | 8/4/2004 | 920 | 1,900 | ND(17) | ND(17) |
| LF-12A | 11/17/2004 | 1,500 | 3,000 | ND(20) | ND(20) |
| LF-12A | 2/18/2005 | 880 | 2,200 | ND(20) | ND(20) |
| LF-12A | 5/5/2005 | 4,700 | 10,000 | ND(71) | ND(71) |
| LF-12A | 8/24/2005 | 1,000 | 2,800 | ND(17) | ND(17) |
| LF-12A | 11/5/2005 | 890 | 2,100 | ND(17) | ND(17) |
| LF-12A | 2/17/2006 | 2,000 | 5,400 | ND(17) | ND(17) |
| LF-12A | 5/16/2006 | 1,000 | 2,600 | ND(13) | ND(13) |
| LF-12A | 8/24/2006 | 720 | 1,500 | ND(10) | ND(10) |
| LF-12A | 11/6/2006 | 1,800 | 4,000 | ND(25) | ND(25) |
| LF-12A | 2/9/2007 | 1,100 | 2,000 | ND(13) | ND(13) |
| LF-12A | 5/2/2007 | 1,200 | 2,800 | ND(17) | ND(33) |
| LF-12A | 8/7/2007 | 830 | 1,500 | ND(10) | ND(10) |
| LF-12A | 11/15/2007 | 550 | 1,500 | ND(8.3) | ND(8.3) |
| LF-12A | 2/8/2008 | 1,700 | 4,400 | ND(31) | ND(31) |
| LF-12A | 5/8/2008 | 3,000 | 7,100 | ND(10) | ND(10) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| LF-12A | 9/9/2008 | 2,800 A/ | 8,000 A/ | 8.2 A/ | ND(5.0) A/ |
| LF-12A | 11/5/2008 | 3,100 A/ | 9,500 A/ | ND(10) A/ | ND(10) A/ |
| LF-9B | 12/1/1997 | 360 | 1,300 | ND(0.5) | ND(0.5) |
| LF-9B | 4/1/1999 | 150 | 510 | ND(25) | ND(50) |
| LF-9B | 7/1/1999 | 110 | 310 | ND(1.3) | ND(2.5) |
| LF-9B | 11/3/1999 | 120 | 320 | ND(13) | ND(25) |
| LF-9B | 2/1/2000 | 140 | 370 | ND(1.3) | ND(2.5) |
| LF-9B | 5/5/2000 | 340 | 140 | ND(1.3) | ND(2.5) |
| LF-9B | 8/31/2000 | 7,500 | 18,000 | ND(50) | ND(50) |
| LF-9B | 11/14/2000 | 2,000 | 6,500 | ND(25) | ND(25) |
| LF-9B | 2/26/2001 | 8,500 | 32,000 | 2 | ND(0.5) |
| LF-9B | 5/31/2001 | 15,000 | 47,000 | ND(170) | ND(170) |
| LF-9B | 8/22/2001 | 7,200 | 25,000 | ND(830) | ND(1700) |
| LF-9B | 11/1/2001 | 18,000 | 49,000 | ND(200) | ND(200) |
| LF-9B | 2/27/2002 | 18,000 | 51,000 | ND(170) | ND(170) |
| LF-9B | 5/28/2002 | 15,000 | 53,000 | ND(170) | ND(170) |
| LF-9B | 8/29/2002 | 6,700 | 29,000 | ND(130) | ND(130) |
| LF-9B | 11/14/2002 | 12,000 | 48,000 | ND(130) | ND(130) |
| LF-9B | 2/27/2003 | 9,400 | 36,000 | ND(170) | ND(170) |
| LF-9B | 5/27/2003 | 11,000 | 39,000 | ND(1700) | ND(3300) |
| LF-9B | 8/3/2003 | 10,000 | 30,000 | ND(100) | ND(100) |
| LF-9B | 11/24/2003 | 11,000 | 31,000 | ND(130) | ND(130) |
| LF-9B | 2/18/2004 | 13,000 | 32,000 | ND(100) | ND(100) |
| LF-9B | 5/11/2004 | 12,000 | 30,000 | ND(100) | ND(100) |
| LF-9B | 8/4/2004 | 5,000 | 15,000 | ND(130) | ND(130) |
| LF-9B | 11/17/2004 | 4,400 | 8,500 | ND(50) | ND(50) |
| LF-9B | 2/18/2005 | 2,600 | 5,600 | ND(36) | ND(36) |
| LF-9B | 5/5/2005 | 2,100 | 6,500 | ND(42) | ND(42) |
| LF-9B | 8/24/2005 | 2,200 | 6,800 | ND(63) | ND(63) |
| LF-9B | 11/5/2005 | 1,800 | 5,000 | ND(63) | ND(63) |
| LF-9B | 2/17/2006 | 2,000 | 5,800 | ND(36) | ND(36) |
| LF-9B | 5/16/2006 | 1,800 | 4,600 | ND(25) | ND(25) |
| LF-9B | 8/24/2006 | 1,100 | 2,500 | ND(17) | ND(17) |
| LF-9B | 11/6/2006 | 1,200 | 2,800 | ND(17) | ND(17) |
| LF-9B | 2/9/2007 | 870 | 2,200 | ND(17) | ND(17) |
| LF-9B | 5/2/2007 | 540 | 1,400 | ND(10) | ND(10) |
| LF-9B | 8/7/2007 | 540 | 1,100 | ND(7.1) | ND(7.1) |
| LF-9B | 11/15/2007 | 460 | 920 | ND(7.1) | ND(7.1) |
| LF-9B | 2/8/2008 | 380 | 800 | ND(4.2) | ND(4.2) |
| LF-9B | 5/8/2008 | 140 | 260 | ND(2) | ND(2) |
| MEC-10LA | 8/12/2008 | 4,300 | 34,000 | ND(10) | ND(10) |
| MEC-10LA | 9/4/2008 | 2,200 | 21,000 | ND(10) | ND(10) |
| MEC-10LA | 9/24/2008 | 2,200 | 26,000 | ND(10) | ND(10) |
| MEC-10LA | 10/21/2008 | 1,300 | 14,000 | ND(10) | ND(10) |
| MEC-10LA | 11/6/2008 | 1,200 | 13,000 | ND(10) | ND(10) |
| MEC-12LA | 8/11/2008 | 7 | 47 | ND(0.50) | ND(0.50) |
| MEC-12LA | 9/2/2008 | 5 | 34 | ND(0.50) | ND(0.50) |
| MEC-12LA | 9/25/2008 | 7 | 26 | ND(0.50) | ND(0.50) |
| MEC-12LA | 10/20/2008 | 2 | 13 | ND(0.50) | ND(0.50) |
| MEC-12LA | 11/6/2008 | 3 | 14 | ND(0.50) | ND(0.50) |
| MEC-13LA | 8/11/2008 | 1,000 | 3,800 | ND(5.0) | ND(5.0) |
| MEC-13LA | 9/2/2008 | 970 | 3,500 | ND(2.5) | ND(2.5) |
| MEC-13LA | 9/24/2008 | 830 | 2,300 | 3 | ND(2.5) |
| MEC-13LA | 11/6/2008 | 420 | 1,200 | 31 | ND(1.0) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| MK-4B | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 4/1/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| MK-4B | 7/1/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| MK-4B | 11/3/1999 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| MK-4B | 2/1/2000 | 1 | ND(0.5) | ND(0.5) | ND(1) |
| MK-4B | 5/5/2000 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| MK-4B | 7/5/2000 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 7/11/2000 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 7/17/2000 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 8/9/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 8/29/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 8/31/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 9/12/2000 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 10/11/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 11/13/2000 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| MK-4B | 2/28/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 5/31/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 8/22/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| MK-4B | 11/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 2/27/2002 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 8/29/2002 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 2/27/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 8/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 2/17/2004 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 8/4/2004 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| MK-4B | 2/16/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 8/25/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 2/16/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 8/23/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 2/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MK-4B | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| MK-5B | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| MW-5AF | 5/4/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MW-5AF | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MW-5AF | 11/15/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MW-5AF | 5/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| MW-5AF | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| MW-6B | 12/1/1997 | 13 | 130 | 8 | ND(0.5) |
| MW-6B | 5/1/1998 | 13 | 140 | 7 | ND(2) |
| MW-6B | 4/1/1999 | 13 | 140 | 4 | ND(10) |
| MW-6B | 7/1/1999 | 14 | 180 | 4 | ND(1) |
| MW-6B | 11/3/1999 | 13 | 140 | 4 | ND(1) |
| MW-6B | 2/1/2000 | 14 | 160 | 4 | ND(1) |
| MW-6B | 5/5/2000 | 15 | 150 | 4 | ND(1) |
| MW-6B | 7/5/2000 | 20 | 190 | 4 | ND(0.5) |
| MW-6B | 7/11/2000 | 19 | 180 | 4 | ND(0.5) |
| MW-6B | 7/17/2000 | 16 | 160 | 4 | ND(0.5) |
| MW-6B | 8/9/2000 | 14 | 140 | 4 | ND(0.5) |
| MW-6B | 8/29/2000 | 17 | 170 | 4 | ND(0.5) |
| MW-6B | 8/31/2000 | 16 | 170 | 4 | ND(0.5) |
| MW-6B | 9/12/2000 | 10 | 120 | 3 | ND(0.5) |
| MW-6B | 10/11/2000 | 15 | 170 | 3 | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| MW-6B | 11/13/2000 | 12 | 170 | 3 | ND(1) |
| MW-6B | 1/18/2001 | 16 | 200 | 3 | ND(0.5) |
| MW-6B | 3/1/2001 | 15 | 190 | 3 | ND(0.7) |
| MW-6B | 3/19/2001 | 14 | 160 | 3 | ND(0.7) |
| MW-6B | 5/31/2001 | 21 | 210 | 3 | ND(0.7) |
| MW-6B | 8/21/2001 | 15 | 180 | ND(7.1) | ND(14) |
| MW-6B | 11/1/2001 | 14 | 180 | 3 | ND(0.5) |
| MW-6B | 2/26/2002 | 15 | 190 | 3 | ND(0.7) |
| MW-6B | 8/29/2002 | 15 | 180 | 4 | ND(0.5) |
| MW-6B | 2/27/2003 | 14 | 180 | 3 | ND(0.7) |
| MW-6B | 8/3/2003 | 12 | 170 | 4 | ND(0.5) |
| MW-6B | 2/18/2004 | 14 | 160 | 4 | ND(0.7) |
| MW-6B | 8/4/2004 | 12 | 140 | 4 | ND(1) |
| MW-6B | 2/17/2005 | 13 | 160 | 3 | ND(1.3) |
| MW-6B | 8/25/2005 | 15 | 160 | 4 | ND(1.3) |
| MW-6B | 2/16/2006 | 16 | 170 | 5 | ND(1) |
| MW-6B | 8/24/2006 | 15 | 140 | 5 | ND(1) |
| MW-6B | 2/9/2007 | 17 | 170 | 5 | ND(1) |
| MW-6B | 8/7/2007 | 17 | 140 | 5 | ND(1) |
| MW-6B | 2/8/2008 | 14 | 140 | 5 | ND(1) |
| MW-6B | 11/4/2008 | 13 A/ | 150 A/ | 5.1 A/ | ND(0.50) A/ |
| SW-02LA | 8/14/2008 | 31 /MHA | 94 /MHA | ND(0.50) | ND(0.50) |
| SW-02LA | 9/3/2008 | 11 | 77 | ND(0.50) | ND(0.50) |
| SW-02LA | 9/23/2008 | 16 | 79 /MHA | ND(0.50) | ND(0.50) |
| SW-02LA | 10/22/2008 | 21 | 83 | ND(0.50) | ND(0.50) |
| SW-02LA | 11/5/2008 | 13 | 120 | ND(0.50) | ND(0.50) |
| SW-04LA | 11/4/2008 | ND(0.50) A/ | 0.96 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-05LA | 1/20/2000 | 2 | 91 | ND(0.5) | ND(1) |
| SW-05LA | 5/25/2000 | 37 | 1,300 | 250 | ND(7.1) |
| SW-05LA | 9/7/2000 | 3 | 170 | 61 | ND(1) |
| SW-05LA | 12/11/2000 | 51 | 1,700 | 53 | ND(17) |
| SW-05LA | 4/17/2001 | 16 | 200 | 4 | ND(0.7) |
| SW-05LA | 8/9/2001 | 18 | 410 | 2 | ND(1.7) |
| SW-05LA | 12/11/2001 | 9 | 110 | 2 | ND(0.5) |
| SW-05LA | 3/19/2002 | 11 | 150 | 1 | ND(0.5) |
| SW-05LA | 6/5/2002 | 21 | 470 | ND(1.7) | ND(1.7) |
| SW-05LA | 9/11/2002 | 3 | 41 | ND(0.5) | ND(0.5) |
| SW-05LA | 12/11/2002 | 5 | 71 | 1 | ND(0.5) |
| SW-05LA | 3/3/2003 | 4 | 52 | 1 | ND(0.5) |
| SW-05LA | 6/4/2003 | 2 | 34 | 1 | ND(0.5) |
| SW-05LA | 8/26/2003 | 3 | 19 | ND(0.5) | ND(0.5) |
| SW-05LA | 12/16/2003 | 4 | 78 | 1 | ND(0.5) |
| SW-05LA | 3/30/2004 | 7 | 130 | 1 | ND(0.5) |
| SW-05LA | 6/9/2004 | 10 | 150 | 1 | ND(0.5) |
| SW-05LA | 9/10/2004 | 11 | 200 | ND(2) | ND(2) |
| SW-05LA | 12/7/2004 | 16 | 230 | 2 | ND(1.3) |
| SW-05LA | 3/2/2005 | 21 | 96 | ND(0.5) | ND(0.5) |
| SW-05LA | 6/9/2005 | 7 | 36 | ND(0.5) | ND(0.5) |
| SW-05LA | 9/13/2005 | 7 | 18 | ND(0.5) | ND(0.5) |
| SW-05LA | 12/2/2005 | 5 | 5 | ND(0.5) | ND(0.5) |
| SW-05LA | 3/8/2006 | 3 | 3 | ND(0.5) | ND(0.5) |
| SW-05LA | 6/6/2006 | 2 | 1 | ND(0.5) | ND(0.5) |
| SW-05LA | 9/1/2006 | 2 | 2 | ND(0.5) | ND(0.5) |
| SW-05LA | 12/4/2006 | 1 | 3 | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-05LA | 3/9/2007 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-05LA | 5/30/2007 | ND(0.5) | 2 | ND(0.5) | ND(0.5) |
| SW-05LA | 8/29/2007 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-05LA | 11/28/2007 | ND(0.5) | 3 | ND(0.5) | ND(0.5) |
| SW-05LA | 2/27/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05LA | 6/18/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-05LA | 8/14/2008 | ND(0.50) | 3 | ND(0.50) | ND(0.50) |
| SW-05LA | 9/2/2008 | ND(0.50) | 2 | ND(0.50) | ND(0.50) |
| SW-05LA | 9/24/2008 | ND(0.50) | 1 | ND(0.50) | ND(0.50) |
| SW-05LA | 10/20/2008 | ND(0.50) | 4 | ND(0.50) | ND(0.50) |
| SW-05LA | 11/3/2008 | ND(0.50) A/ | 0.61 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-06LA | 1/25/2000 | 200 | 370 | 2 | ND(2.5) |
| SW-06LA | 5/25/2000 | 760 | 1,100 | 15 | ND(10) |
| SW-06LA | 9/6/2000 | 280 | 470 | 47 | ND(4) |
| SW-06LA | 12/13/2000 | 190 | 380 | 100 | ND(2.5) |
| SW-06LA | 4/18/2001 | 610 | 1,500 | 140 | ND(3.8) |
| SW-06LA | 8/7/2001 | 97 | 220 | 41 | ND(1) |
| SW-06LA | 12/12/2001 | 330 | 490 | 48 | ND(1.3) |
| SW-06LA | 3/19/2002 | 840 | 1,400 | 59 | ND(5) |
| SW-06LA | 6/6/2002 | 850 | 1,500 | 58 | ND(5) |
| SW-06LA | 9/11/2002 | 1,000 | 1,500 | 42 | ND(6.3) |
| SW-06LA | 12/12/2002 | 780 | 1,000 | 39 | ND(3.6) |
| SW-06LA | 3/4/2003 | 420 | 640 | 33 | ND(2) |
| SW-06LA | 6/3/2003 | 180 | 270 | 43 | ND(0.8) |
| SW-06LA | 8/26/2003 | 130 | 150 | 27 | ND(0.8) |
| SW-06LA | 12/17/2003 | 150 | 160 | 15 | ND(0.5) |
| SW-06LA | 3/26/2004 | 170 | 190 | 22 | ND(0.5) |
| SW-06LA | 6/10/2004 | 130 | 120 | 25 | ND(0.6) |
| SW-06LA | 9/9/2004 | 270 | 290 | 22 | ND(1) |
| SW-06LA | 12/10/2004 | 180 | 160 | 130 | ND(1.3) |
| SW-06LA | 3/1/2005 | 120 | 170 | 59 | ND(1) |
| SW-06LA | 6/8/2005 | 180 | 260 | 24 | ND(1.7) |
| SW-06LA | 9/14/2005 | 370 | 430 | 13 | ND(3.1) |
| SW-06LA | 12/2/2005 | 120 | 130 | 14 | ND(1) |
| SW-06LA | 3/7/2006 | 110 | 120 | 7 | ND(1) |
| SW-06LA | 6/6/2006 | 150 | 150 | 4 | ND(0.7) |
| SW-06LA | 8/31/2006 | 98 | 96 | 11 | ND(0.5) |
| SW-06LA | 12/5/2006 | 69 | 70 | 6 | ND(0.7) |
| SW-06LA | 3/6/2007 | 92 | 69 | 4 | ND(0.5) |
| SW-06LA | 5/29/2007 | 71 | 52 | 3 | ND(0.7) |
| SW-06LA | 8/28/2007 | 65 | 61 | 2 | ND(0.5) |
| SW-06LA | 11/29/2007 | 66 | 60 | 4 | ND(0.5) |
| SW-06LA | 2/28/2008 | 66 | 61 | 3 | ND(0.5) |
| SW-06LA | 6/17/2008 | 47 A/ | 55 A/ | 0.96 A/ | ND(0.50) A/ |
| SW-06LA | 9/9/2008 | 42 A/ | 64 A/ | 0.89 A/ | ND(0.50) A/ |
| SW-06LA | 11/5/2008 | 56 A/ | 120 A/ | 1.6 A/ | ND(0.50) A/ |
| SW-07LA | 1/24/2000 | 770 | 16,000 | 6,900 | ND(130) |
| SW-07LA | 5/24/2000 | 430 | 3,700 | 1,200 | ND(20) |
| SW-07LA | 9/5/2000 | 150 | 3,700 | 600 | ND(25) |
| SW-07LA | 12/11/2000 | 180 | 2,200 | 460 | ND(13) |
| SW-07LA | 4/16/2001 | 110 | 3,300 | 120 | ND(13) |
| SW-07LA | 8/7/2001 | 190 | 5,000 | 140 | ND(17) |
| SW-07LA | 12/13/2001 | 140 | 1,700 | 210 | ND(5) |
| SW-07LA | 3/21/2002 | 200 | 1,400 | 94 | ND(5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-07LA | 6/4/2002 | 120 | 1,200 | 120 | ND(5) |
| SW-07LA | 9/10/2002 | 210 | 970 | 66 | ND(3.1) |
| SW-07LA | 12/11/2002 | 200 | 850 | 55 | ND(2.5) |
| SW-07LA | 3/2/2003 | 120 | 510 | 170 | ND(1.3) |
| SW-07LA | 6/4/2003 | 160 | 440 | 67 | ND(2) |
| SW-07LA | 8/27/2003 | 88 | 440 | 62 | ND(1.7) |
| SW-07LA | 12/16/2003 | 200 | 510 | 42 | ND(1.7) |
| SW-07LA | 3/29/2004 | 180 | 860 | 50 | ND(1.7) |
| SW-07LA | 6/8/2004 | 120 | 400 | 19 | ND(1.3) |
| SW-07LA | 9/9/2004 | 92 | 460 | 35 | ND(2.5) |
| SW-07LA | 12/7/2004 | 130 | 780 | 28 | ND(4.2) |
| SW-07LA | 3/1/2005 | 81 | 410 | 12 | ND(3.1) |
| SW-07LA | 6/7/2005 | 36 | 180 | 5 | ND(1) |
| SW-07LA | 9/15/2005 | 56 | 160 | 10 | ND(0.5) |
| SW-07LA | 11/29/2005 | 73 | 250 | 8 | ND(1.7) |
| SW-07LA | 3/7/2006 | 26 | 92 | 3 | ND(0.5) |
| SW-07LA | 6/6/2006 | 17 | 56 | 2 | ND(0.5) |
| SW-07LA | 8/31/2006 | 29 | 100 | 4 | ND(0.7) |
| SW-07LA | 12/1/2006 | 20 | 55 | 3 | ND(0.5) |
| SW-07LA | 3/8/2007 | 20 | 97 | 2 | ND(0.5) |
| SW-07LA | 5/29/2007 | 12 | 65 | 3 | ND(0.5) |
| SW-07LA | 8/28/2007 | 10 | 36 | 2 | ND(0.5) |
| SW-07LA | 11/29/2007 | 15 | 80 | 2 | ND(0.5) |
| SW-07LA | 2/26/2008 | 18 | 98 | 2 | ND(0.5) |
| SW-07LA | 6/17/2008 | 12 A/ | 73 A/ | 11 A/ | ND(0.50) A/ |
| SW-07LA | 8/14/2008 | 11 | 53 | 2 | ND(0.50) |
| SW-07LA | 9/2/2008 | 1,400 | 19,000 | ND(25) | ND(25) |
| SW-07LA | 9/25/2008 | 43 | 820 | 78 | ND(1.0) |
| SW-07LA | 10/20/2008 | 97 | 860 | 450 | 6 |
| SW-07LA | 11/6/2008 | 2,600 | 4,300 | 470 | 36 |
| SW-08LA | 1/24/2000 | 900 | 8,600 | ND(36) | ND(71) |
| SW-08LA | 5/24/2000 | 3,600 | 21,000 | 620 | ND(200) |
| SW-08LA | 9/5/2000 | 6,700 | 31,000 | 270 | ND(250) |
| SW-08LA | 12/11/2000 | 4,600 | 28,000 | 190 | ND(170) |
| SW-08LA | 4/17/2001 | 1,400 | 9,000 | 50 | ND(25) |
| SW-08LA | 8/8/2001 | 4,000 | 21,000 | ND(71) | ND(71) |
| SW-08LA | 12/13/2001 | 3,600 | 17,000 | 160 | ND(50) |
| SW-08LA | 3/21/2002 | 3,600 | 16,000 | 400 | ND(50) |
| SW-08LA | 6/4/2002 | 5,200 | 33,000 | 230 | ND(170) |
| SW-08LA | 9/11/2002 | 6,100 | 37,000 | 190 | ND(100) |
| SW-08LA | 12/11/2002 | 6,000 | 40,000 | 130 | ND(130) |
| SW-08LA | 3/2/2003 | 5,300 | 34,000 | 130 | ND(83) |
| SW-08LA | 6/5/2003 | 4,200 | 31,000 | 140 | ND(100) |
| SW-08LA | 8/27/2003 | 3,600 | 29,000 | ND(130) | ND(130) |
| SW-08LA | 12/15/2003 | 4,000 | 21,000 | ND(110) | ND(100) |
| SW-08LA | 3/29/2004 | 4,300 | 20,000 | 160 | ND(100) |
| SW-08LA | 6/8/2004 | 3,100 | 15,000 | 81 | ND(71) |
| SW-08LA | 9/8/2004 | 3,300 | 14,000 | ND(100) | ND(100) |
| SW-08LA | 12/7/2004 | 3,400 | 15,000 | ND(83) | ND(83) |
| SW-08LA | 3/1/2005 | 2,000 | 9,100 | ND(83) | ND(83) |
| SW-08LA | 6/7/2005 | 2,100 | 13,000 | ND(50) | ND(50) |
| SW-08LA | 9/14/2005 | 3,100 | 13,000 | ND(100) | ND(100) |
| SW-08LA | 11/30/2005 | 3,500 | 11,000 | ND(100) | ND(100) |
| SW-08LA | 3/7/2006 | 2,500 | 9,200 | ND(71) | ND(71) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-08LA | 6/7/2006 | 2,100 | 7,300 | ND(63) | ND(63) |
| SW-08LA | 9/1/2006 | 2,100 | 5,200 | 48 | ND(10) |
| SW-08LA | 12/5/2006 | 2,300 | 6,600 | 73 | ND(63) |
| SW-08LA | 3/8/2007 | 2,500 | 7,200 | 66 | ND(50) |
| SW-08LA | 5/29/2007 | 2,200 | 4,500 | 49 | ND(25) |
| SW-08LA | 8/28/2007 | 2,100 | 5,200 | ND(50) | ND(50) |
| SW-08LA | 11/29/2007 | 1,900 | 4,600 | ND(50) | ND(50) |
| SW-08LA | 2/27/2008 | 1,400 | 3,700 | 38 | ND(36) |
| SW-08LA | 6/18/2008 | 2,000 A/ | 6,100 A/ | 20 A/ | ND(0.50) A/ |
| SW-08LA | 8/15/2008 | 2,300 | 6,700 | 57 | ND(5.0) |
| SW-08LA | 9/3/2008 | 1,500 | 5,800 | 49 | ND(5.0) |
| SW-08LA | 9/9/2008 | 1,900 A/ | 6,800 A/ | 44 A/ | ND(2.5) A/ |
| SW-08LA | 9/23/2008 | 1,300 | 5,600 | 46 | ND(5.0) |
| SW-08LA | 10/21/2008 | 1,200 | 5,800 | 21 | ND(5.0) |
| SW-08LA | 11/3/2008 | 1,400 A/ | 5,900 A/ | 51 A/ | ND(50) A/ |
| SW-09LA | 1/24/2000 | 1 | 12 | ND(0.5) | ND(1) |
| SW-09LA | 5/30/2000 | 1 | 8 | ND(0.5) | ND(1) |
| SW-09LA | 9/6/2000 | 1 | 7 | ND(0.5) | ND(1) |
| SW-09LA | 12/12/2000 | 1 | 5 | ND(0.5) | ND(1) |
| SW-09LA | 4/18/2001 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09LA | 8/10/2001 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09LA | 12/11/2001 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09LA | 3/20/2002 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09LA | 6/4/2002 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-09LA | 9/10/2002 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-09LA | 12/10/2002 | ND(0.5) | 2 | ND(0.5) | ND(0.5) |
| SW-09LA | 3/4/2003 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-09LA | 6/5/2003 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-09LA | 8/28/2003 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09LA | 12/16/2003 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09LA | 3/30/2004 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-09LA | 6/10/2004 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09LA | 9/10/2004 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09LA | 12/9/2004 | 4 | 8 | ND(0.5) | ND(0.5) |
| SW-09LA | 6/7/2005 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-09LA | 9/14/2005 | 18 | 51 | ND(0.5) | ND(0.5) |
| SW-09LA | 9/30/2005 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09LA | 11/30/2005 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09LA | 3/7/2006 | ND(0.8) | 5 | ND(0.5) | ND(0.5) |
| SW-09LA | 6/6/2006 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09LA | 9/1/2006 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09LA | 12/5/2006 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09LA | 3/9/2007 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09LA | 6/1/2007 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-09LA | 8/30/2007 | ND(0.5) | 3 | ND(0.5) | ND(0.5) |
| SW-09LA | 11/29/2007 | ND(0.5) | 4 | ND(0.5) | ND(0.5) |
| SW-09LA | 2/26/2008 | ND(0.5) | 3 | ND(0.5) | ND(0.5) |
| SW-09LA | 6/18/2008 | ND(0.50) A/ | 4.2 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-09LA | 11/4/2008 | ND(0.50) A/ | 3.4 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-10LA | 1/25/2000 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| SW-10LA | 5/30/2000 | 5 | 14 | 14 | ND(1) |
| SW-10LA | 9/7/2000 | 24 | 38 | 32 | ND(1) |
| SW-10LA | 12/12/2000 | 7 | 6 | 15 | ND(1) |
| SW-10LA | 4/17/2001 | 18 | 30 | 35 | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-10LA | 8/8/2001 | 49 | 41 | 7 | ND(0.5) |
| SW-10LA | 12/11/2001 | 38 | 51 | 29 | ND(0.5) |
| SW-10LA | 3/20/2002 | 10 | 15 | ND(0.5) | ND(0.5) |
| SW-10LA | 6/6/2002 | 8 | 13 | ND(0.5) | ND(0.5) |
| SW-10LA | 9/11/2002 | 12 | 32 | ND(0.5) | ND(0.5) |
| SW-10LA | 12/12/2002 | 23 | 60 | 1 | ND(0.5) |
| SW-10LA | 3/4/2003 | 32 | 82 | 1 | ND(0.5) |
| SW-10LA | 6/3/2003 | 30 | 61 | 1 | ND(0.5) |
| SW-10LA | 8/27/2003 | 22 | 30 | 1 | ND(0.5) |
| SW-10LA | 12/17/2003 | 32 | 24 | ND(0.5) | ND(0.5) |
| SW-10LA | 3/26/2004 | 23 | 15 | ND(0.5) | ND(0.5) |
| SW-10LA | 6/9/2004 | 70 | 53 | 2 | ND(0.5) |
| SW-10LA | 9/9/2004 | 25 | 13 | ND(0.5) | ND(0.5) |
| SW-10LA | 12/9/2004 | 41 | 16 | ND(0.5) | ND(0.5) |
| SW-10LA | 3/1/2005 | 32 | 29 | ND(0.5) | ND(0.5) |
| SW-10LA | 6/8/2005 | 21 | 6 | ND(0.5) | ND(0.5) |
| SW-10LA | 9/14/2005 | 17 | 4 | ND(0.5) | ND(0.5) |
| SW-10LA | 12/2/2005 | 15 | 4 | ND(0.5) | ND(0.5) |
| SW-10LA | 3/7/2006 | 12 | 2 | ND(0.5) | ND(0.5) |
| SW-10LA | 6/6/2006 | 18 | 4 | ND(0.5) | ND(0.5) |
| SW-10LA | 8/31/2006 | 22 | 5 | ND(0.5) | ND(0.5) |
| SW-10LA | 12/5/2006 | 16 | 3 | ND(0.5) | ND(0.5) |
| SW-10LA | 3/6/2007 | 15 | 3 | ND(0.5) | ND(0.5) |
| SW-10LA | 5/29/2007 | 15 | 2 | ND(0.5) | ND(0.5) |
| SW-10LA | 8/28/2007 | 27 | 4 | ND(0.5) | ND(0.5) |
| SW-10LA | 11/29/2007 | 13 | 2 | ND(0.5) | ND(0.5) |
| SW-10LA | 2/28/2008 | 8 | 3 | ND(0.5) | ND(0.5) |
| SW-10LA | 6/18/2008 | 2.9 A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-11LA | 1/24/2000 | 41 | 320 | ND(1.3) | ND(2.5) |
| SW-11LA | 5/31/2000 | 1,700 | 2,700 | 140 | 50 |
| SW-11LA | 9/7/2000 | 680 | 3,400 | 49 | 46 |
| SW-11LA | 12/14/2000 | 1,600 | 2,100 | 150 | 48 |
| SW-11LA | 4/18/2001 | 1,800 | 5,800 | 960 | 86 |
| SW-11LA | 8/10/2001 | 1,400 | 2,800 | 310 | 32 |
| SW-11LA | 12/12/2001 | 860 | 1,700 | 190 | 43 |
| SW-11LA | 3/20/2002 | 900 | 2,900 | 89 | ND(10) |
| SW-11LA | 6/6/2002 | 1,200 | 3,800 | 320 | 21 |
| SW-11LA | 9/12/2002 | 790 | 3,200 | 180 | 28 |
| SW-11LA | 12/11/2002 | 1,100 | 2,600 | 340 | 41 |
| SW-11LA | 3/3/2003 | 580 | 1,800 | 2,700 | 40 |
| SW-11LA | 6/5/2003 | 770 | 2,600 | 1,800 | 32 |
| SW-11LA | 8/27/2003 | 740 | 2,000 | 660 | 30 |
| SW-11LA | 12/16/2003 | 710 | 2,300 | 450 | 33 |
| SW-11LA | 3/29/2004 | 450 | 1,600 | 2,600 | 1,400 |
| SW-11LA | 4/30/2004 | 1,100 | 3,500 | 770 | 280 |
| SW-11LA | 6/8/2004 | 950 | 1,700 | 280 | 49 |
| SW-11LA | 9/9/2004 | 9,300 | 4,100 | 270 | 79 |
| SW-11LA | 12/9/2004 | 5,800 | 2,900 | 230 | ND(42) |
| SW-11LA | 3/2/2005 | 6,700 | 2,000 | 520 | ND(36) |
| SW-11LA | 6/7/2005 | 5,700 | 2,200 | 300 | ND(36) |
| SW-11LA | 9/15/2005 | 4,500 | 3,300 | 280 | ND(31) |
| SW-11LA | 11/30/2005 | 2,500 | 1,400 | 170 | ND(31) |
| SW-11LA | 3/8/2006 | 2,800 | 1,500 | 140 | ND(17) |
| SW-11LA | 6/7/2006 | 1,700 | 740 | 230 | ND(10) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-11LA | 9/6/2006 | 970 | 220 | 120 | ND(13) |
| SW-11LA | 12/4/2006 | 670 | 180 | 74 | ND(4.2) |
| SW-11LA | 3/9/2007 | 750 | 190 | 150 | ND(5) |
| SW-11LA | 5/30/2007 | 750 | 170 | 180 | 8 |
| SW-11LA | 8/29/2007 | 410 | 98 | 98 | ND(3.1) |
| SW-11LA | 11/28/2007 | 390 | 100 | 120 | ND(3.1) |
| SW-11LA | 2/27/2008 | 440 | 140 | 120 | 9 |
| SW-11LA | 6/18/2008 | 430 A/ | 150 A/ | 140 A/ | 18 A/ |
| SW-11LA | 9/9/2008 | 520 A/ | 1,700 A/ | 32 A/ | 0.79 A/ |
| SW-11LA | 11/5/2008 | 260 A/ | 300 A/ | 6.8 A/ | ND(0.50) A/ |
| SW-12LA | 1/25/2000 | 84 | 980 | ND(3.1) | ND(6.3) |
| SW-12LA | 5/31/2000 | 12 | 140 | 2 | 1 |
| SW-12LA | 9/6/2000 | 130 | 4,600 | ND(13) | ND(25) |
| SW-12LA | 12/13/2000 | 25 | 760 | 21 | ND(6.3) |
| SW-12LA | 3/19/2001 | 580 | 14,000 | 230 | 79 |
| SW-12LA | 8/10/2001 | 13 | 360 | 19 | 2 |
| SW-12LA | 12/13/2001 | 32 | 1,400 | 7 | ND(4.2) |
| SW-12LA | 3/20/2002 | 160 | 5,200 | ND(17) | ND(17) |
| SW-12LA | 6/4/2002 | 11 | 140 | 7 | ND(0.5) |
| SW-12LA | 9/10/2002 | 12 | 150 | 4 | ND(0.5) |
| SW-12LA | 12/12/2002 | 8 | 73 | 2 | ND(0.5) |
| SW-12LA | 3/4/2003 | 6 | 66 | 3 | ND(0.5) |
| SW-12LA | 6/5/2003 | 7 | 67 | 1 | ND(0.5) |
| SW-12LA | 8/28/2003 | 5 | 60 | 2 | ND(0.5) |
| SW-12LA | 12/17/2003 | 7 | 180 | 3 | ND(0.5) |
| SW-12LA | 3/29/2004 | 7 | 180 | 2 | ND(0.5) |
| SW-12LA | 6/10/2004 | 5 | 60 | 2 | ND(0.5) |
| SW-12LA | 9/10/2004 | 26 | 730 | ND(6.3) | ND(6.3) |
| SW-12LA | 12/9/2004 | 20 | 530 | ND(3.1) | ND(3.1) |
| SW-12LA | 3/2/2005 | 8 | 180 | ND(1) | ND(1) |
| SW-12LA | 6/9/2005 | 17 | 450 | ND(2.5) | ND(2.5) |
| SW-12LA | 9/14/2005 | 34 | 960 | ND(7.1) | ND(7.1) |
| SW-12LA | 11/30/2005 | 42 | 990 | ND(7.1) | ND(7.1) |
| SW-12LA | 3/8/2006 | 23 | 990 | ND(7.1) | ND(7.1) |
| SW-12LA | 6/7/2006 | 31 | 930 | ND(6.3) | ND(6.3) |
| SW-12LA | 9/5/2006 | 52 | 740 | 7 | ND(4.2) |
| SW-12LA | 12/4/2006 | 83 | 1,500 | ND(10) | ND(10) |
| SW-12LA | 3/9/2007 | 53 | 550 | 6 | ND(4.2) |
| SW-12LA | 5/30/2007 | 46 | 680 | 9 | ND(6.3) |
| SW-12LA | 8/29/2007 | 54 | 610 | 7 | ND(6.3) |
| SW-12LA | 11/29/2007 | 47 | 460 | 8 | ND(2.5) |
| SW-12LA | 2/27/2008 | 38 | 880 | 7 | ND(3.6) |
| SW-12LA | 6/18/2008 | 19 A/ | 580 A/ | 2.5 A/ | ND(0.50) A/ |
| SW-12LA | 9/9/2008 | 36 A/ | 1,700 A/ | 1.2 A/ | ND(1.0) A/ |
| SW-12LA | 11/4/2008 | 74 A/ | 1,200 A/ | ND(5.0) A/ | ND(5.0) A/ |
| SW-13LA | 1/24/2000 | 2 | 8 | 6 | ND(1) |
| SW-13LA | 5/25/2000 | 1 | 6 | 7 | ND(1) |
| SW-13LA | 9/11/2000 | 1 | 2 | 2 | ND(1) |
| SW-13LA | 12/14/2000 | 1 | 5 | 3 | ND(1) |
| SW-13LA | 4/18/2001 | 1 | 5 | 3 | ND(0.5) |
| SW-13LA | 8/10/2001 | 1 | 5 | 1 | ND(0.5) |
| SW-13LA | 12/14/2001 | 2 | 10 | 12 | ND(0.5) |
| SW-13LA | 3/21/2002 | 2 | 5 | 1 | ND(0.5) |
| SW-13LA | 6/7/2002 | ND(0.5) | 2 | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|------------------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-13LA | 9/13/2002 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-13LA | 12/13/2002 | 2 | 4 | 3 | ND(0.5) |
| SW-13LA | 3/5/2003 | 2 | 5 | ND(0.5) | ND(0.5) |
| SW-13LA | 6/5/2003 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-13LA | 8/28/2003 | 1 | 3 | 1 | ND(0.5) |
| SW-13LA | 12/17/2003 | 1 | 3 | 2 | ND(0.5) |
| SW-13LA | 3/30/2004 | 2 | 6 | 6 | ND(0.5) |
| SW-13LA | 6/9/2004 | 1 | ND(0.5) | 3 | ND(0.5) |
| SW-13LA | 9/13/2004 | 1 | 1 | 1 | ND(0.5) |
| SW-13LA | 12/8/2004 | 9 | 15 | 1 | ND(0.5) |
| SW-13LA | 3/3/2005 | 2 | 5 | 1 | ND(0.5) |
| SW-13LA | 6/8/2005 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-13LA | 9/14/2005 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-13LA | 11/29/2005 | 1 | 2 | ND(0.5) | ND(0.5) |
| SW-13LA | 3/9/2006 | 1 | 2 | ND(0.5) | ND(0.5) |
| SW-13LA | 6/7/2006 | 1 | 2 | ND(0.5) | ND(0.5) |
| SW-13LA | 9/5/2006 | 2 | 5 | ND(0.5) | ND(0.5) |
| SW-13LA | 12/5/2006 | 1 | 3 | 1 | ND(0.5) |
| SW-13LA | 3/12/2007 | 2 | 3 | 1 | ND(0.5) |
| SW-13LA | 6/1/2007 | 1 | 3 | 1 | ND(0.5) |
| SW-13LA | 8/30/2007 | 1 | 2 | 1 | ND(0.5) |
| SW-13LA | 11/30/2007 | 2 | 3 | 1 | ND(0.5) |
| SW-13LA | 2/28/2008 | 1 | 3 | 1 | ND(0.5) |
| SW-13LA | 6/19/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-17LA | 9/15/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-17LA | 11/30/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-17LA | 3/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-17LA | 6/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-17LA | 9/6/2006 | 1 | 1 | 1 | ND(0.5) |
| SW-17LA | 12/5/2006 | 1 | 1 | 1 | ND(0.5) |
| SW-17LA | 3/12/2007 | 1 | 1 | 1 | ND(0.5) |
| SW-17LA | 5/30/2007 | 1 | 1 | 1 | ND(0.5) |
| SW-17LA | 8/29/2007 | 1 | ND(0.5) | 1 | ND(0.5) |
| SW-17LA | 11/28/2007 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-17LA | 2/26/2008 | 1 | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-17LA | 6/18/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| B Aquifer | | | | | |
| GT-1 | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| GT-1 | 5/26/1998 | ND(1) | ND(1) | ND(1) | ND(2) |
| LF-11B | 4/1/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| LF-11B | 7/1/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| LF-11B | 11/3/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| LF-11B | 2/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| LF-11B | 5/5/2000 | ND(0.5) | ND(0.5) | 2 | ND(1) |
| LF-11B | 8/31/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 11/14/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 3/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 5/31/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 8/22/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| LF-11B | 11/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 2/27/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 8/29/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 2/27/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 8/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| LF-11B | 8/4/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 2/17/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 8/25/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 2/16/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 8/22/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 2/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-11B | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-12B | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-2B | 7/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-2B | 8/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-2B | 8/29/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-2B | 9/1/2000 | ND(0.5) | 3 | ND(0.5) | ND(0.5) |
| LF-2B | 10/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-2B | 1/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-2B | 3/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 12/1/1997 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 4/1/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| LF-9C | 7/1/1999 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| LF-9C | 11/3/1999 | ND(5) | ND(5) | ND(5) | ND(10) |
| LF-9C | 2/1/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| LF-9C | 5/5/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| LF-9C | 8/31/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 11/14/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 2/26/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 5/31/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 8/22/2001 | ND(5) | ND(5) | ND(5) | ND(10) |
| LF-9C | 11/1/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 2/26/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 8/29/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 8/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 2/18/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 8/4/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 2/17/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 8/23/2005 | 2,400 | 2,200 | 270 | 26 |
| LF-9C | 11/5/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 2/17/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 5/16/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 8/22/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 2/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 5/2/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 8/7/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 11/15/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 2/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| LF-9C | 5/8/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 1/26/2000 | 1 | 17 | ND(0.5) | ND(1) |
| SW-03B | 5/30/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-03B | 9/11/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-03B | 12/12/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-03B | 4/17/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 8/9/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 12/11/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 3/18/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 6/5/2002 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-03B | 9/12/2002 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-03B | 12/10/2002 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-03B | 3/3/2003 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-03B | 6/5/2003 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-03B | 8/26/2003 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-03B | 12/15/2003 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-03B | 3/26/2004 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-03B | 6/9/2004 | ND(0.5) | ND(0.5) | 1 | ND(0.5) |
| SW-03B | 9/8/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 12/7/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 3/1/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 6/9/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 9/15/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 11/29/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 3/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 6/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 9/5/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 12/4/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 3/12/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 5/30/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 8/29/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 11/30/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 2/27/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-03B | 6/18/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-04B | 1/25/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-04B | 5/30/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-04B | 9/11/2000 | 2 | ND(0.5) | ND(0.5) | ND(1) |
| SW-04B | 12/12/2000 | 2 | ND(0.5) | ND(0.5) | ND(1) |
| SW-04B | 4/16/2001 | 2 | 1 | ND(0.5) | ND(0.5) |
| SW-04B | 8/8/2001 | 2 | 1 | ND(0.5) | ND(0.5) |
| SW-04B | 12/10/2001 | 2 | 1 | 1 | ND(0.5) |
| SW-04B | 3/19/2002 | 2 | 1 | ND(0.5) | ND(0.5) |
| SW-04B | 6/6/2002 | 27 | 4 | 9 | ND(0.5) |
| SW-04B | 9/12/2002 | 4 | 1 | 2 | ND(0.5) |
| SW-04B | 12/11/2002 | 5 | 1 | 2 | ND(0.5) |
| SW-04B | 3/5/2003 | 6 | 1 | 5 | ND(0.5) |
| SW-04B | 3/6/2003 | 6 | 1 | 5 | ND(1.5) |
| SW-04B | 6/4/2003 | 5 | 1 | 4 | ND(0.5) |
| SW-04B | 8/26/2003 | 7 | 1 | 8 | ND(0.5) |
| SW-04B | 12/15/2003 | 5 | 1 | 9 | ND(0.5) |
| SW-04B | 3/26/2004 | 5 | 1 | 11 | ND(0.5) |
| SW-04B | 6/9/2004 | 4 | 1 | 5 | ND(0.5) |
| SW-04B | 9/9/2004 | 4 | 1 | 8 | ND(0.5) |
| SW-04B | 12/7/2004 | 4 | 1 | 6 | ND(0.5) |
| SW-04B | 3/2/2005 | 4 | 1 | 4 | ND(0.5) |
| SW-04B | 6/9/2005 | 6 | 1 | 6 | ND(0.5) |
| SW-04B | 9/13/2005 | 8 | 2 | 17 | ND(0.5) |
| SW-04B | 12/2/2005 | 3 | 1 | 3 | ND(0.5) |
| SW-04B | 3/8/2006 | 4 | 1 | 2 | ND(0.5) |
| SW-04B | 6/8/2006 | 3 | 1 | 2 | ND(0.5) |
| SW-04B | 9/5/2006 | 4 | 1 | 1 | ND(0.5) |
| SW-04B | 12/4/2006 | 3 | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-04B | 3/9/2007 | 4 | 1 | 2 | ND(0.5) |
| SW-04B | 5/31/2007 | 4 | 1 | 1 | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-04B | 8/29/2007 | 5 | 1 | 1 | ND(0.5) |
| SW-04B | 11/28/2007 | 3 | 1 | 1 | ND(0.5) |
| SW-04B | 2/27/2008 | 3 | 1 | 1 | ND(0.5) |
| SW-04B | 2/28/2008 | 3 | 1 | 1 | ND(0.5) |
| SW-04B | 6/18/2008 | 1.5 A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-04B | 11/4/2008 | 2.5 A/ | 0.72 A/ | 1.0 A/ | ND(0.50) A/ |
| SW-05B | 1/20/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-05B | 5/25/2000 | ND(0.5) | ND(0.5) | 1 | ND(1) |
| SW-05B | 9/7/2000 | ND(0.5) | 31 | 3 | ND(1) |
| SW-05B | 12/12/2000 | 1 | 33 | 1 | ND(1) |
| SW-05B | 4/17/2001 | ND(0.5) | 2 | ND(0.5) | ND(0.5) |
| SW-05B | 8/9/2001 | 1 | 2 | ND(0.5) | ND(0.5) |
| SW-05B | 12/11/2001 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-05B | 3/19/2002 | 1 | 1 | ND(0.5) | ND(0.5) |
| SW-05B | 6/5/2002 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-05B | 9/11/2002 | 1 | 8 | ND(0.5) | ND(0.5) |
| SW-05B | 12/11/2002 | 1 | 8 | ND(0.5) | ND(0.5) |
| SW-05B | 3/3/2003 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-05B | 6/4/2003 | 1 | 2 | ND(0.5) | ND(0.5) |
| SW-05B | 8/26/2003 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-05B | 12/16/2003 | 1 | 15 | ND(0.5) | ND(0.5) |
| SW-05B | 3/30/2004 | 2 | 16 | ND(0.5) | ND(0.5) |
| SW-05B | 6/9/2004 | 3 | 36 | ND(0.5) | ND(0.5) |
| SW-05B | 9/10/2004 | 3 | 53 | ND(0.5) | ND(0.5) |
| SW-05B | 12/7/2004 | 4 | 27 | ND(0.5) | ND(0.5) |
| SW-05B | 3/2/2005 | 1 | 2 | ND(0.5) | ND(0.5) |
| SW-05B | 6/10/2005 | 1 | 1 | ND(0.5) | ND(0.5) |
| SW-05B | 9/13/2005 | 1 | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 12/2/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 3/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 6/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 9/1/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 12/4/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 3/9/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 5/30/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 8/29/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 11/28/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 2/27/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-05B | 6/19/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-05B | 11/3/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-07B | 1/20/2000 | 3 | 110 | ND(0.5) | ND(1) |
| SW-07B | 5/24/2000 | 8 | 170 | 54 | ND(1.4) |
| SW-07B | 9/5/2000 | 11 | 150 | 21 | ND(1) |
| SW-07B | 12/11/2000 | 15 | 160 | 14 | ND(1) |
| SW-07B | 4/16/2001 | 20 | 210 | 12 | ND(0.7) |
| SW-07B | 8/7/2001 | 18 | 210 | 9 | ND(1) |
| SW-07B | 12/13/2001 | 16 | 190 | 5 | ND(0.5) |
| SW-07B | 3/21/2002 | 17 | 110 | 2 | ND(0.5) |
| SW-07B | 6/4/2002 | 14 | 120 | 3 | ND(0.5) |
| SW-07B | 9/11/2002 | 12 | 110 | 6 | ND(0.5) |
| SW-07B | 12/11/2002 | 15 | 150 | 7 | ND(0.5) |
| SW-07B | 3/2/2003 | 9 | 48 | 1 | ND(0.5) |
| SW-07B | 6/4/2003 | 9 | 85 | 3 | ND(0.5) |
| SW-07B | 8/27/2003 | 6 | 68 | 1 | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-07B | 12/16/2003 | 7 | 48 | 1 | ND(0.5) |
| SW-07B | 3/29/2004 | 9 | 55 | ND(0.5) | ND(0.5) |
| SW-07B | 6/8/2004 | 9 | 73 | 1 | ND(0.5) |
| SW-07B | 9/10/2004 | 7 | 75 | 1 | ND(0.5) |
| SW-07B | 12/7/2004 | 5 | 37 | ND(0.5) | ND(0.5) |
| SW-07B | 3/1/2005 | 3 | 16 | ND(0.5) | ND(0.5) |
| SW-07B | 6/7/2005 | 3 | 9 | ND(0.5) | ND(0.5) |
| SW-07B | 9/15/2005 | 1 | 6 | ND(0.5) | ND(0.5) |
| SW-07B | 11/29/2005 | 5 | 33 | ND(0.5) | ND(0.5) |
| SW-07B | 3/7/2006 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-07B | 6/6/2006 | 1 | 2 | ND(0.5) | ND(0.5) |
| SW-07B | 8/31/2006 | 2 | 7 | ND(0.5) | ND(0.5) |
| SW-07B | 12/1/2006 | 1 | 2 | ND(0.5) | ND(0.5) |
| SW-07B | 3/8/2007 | 1 | 5 | ND(0.5) | ND(0.5) |
| SW-07B | 5/29/2007 | 1 | 3 | ND(0.5) | ND(0.5) |
| SW-07B | 8/28/2007 | ND(0.5) | 2 | ND(0.5) | ND(0.5) |
| SW-07B | 11/29/2007 | 1 | 4 | ND(0.5) | ND(0.5) |
| SW-07B | 2/26/2008 | 1 | 5 | ND(0.5) | ND(0.5) |
| SW-07B | 6/17/2008 | ND(0.50) A/ | 2.5 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-08B | 1/24/2000 | 1 | 16 | 3 | ND(1) |
| SW-08B | 5/24/2000 | 7 | 65 | 2 | ND(1) |
| SW-08B | 9/5/2000 | 27 | 150 | 4 | ND(1) |
| SW-08B | 12/11/2000 | 24 | 180 | 4 | ND(1.4) |
| SW-08B | 4/16/2001 | 32 | 74 | 1 | ND(0.5) |
| SW-08B | 8/8/2001 | 43 | 110 | 1 | ND(0.5) |
| SW-08B | 12/13/2001 | 45 | 190 | 3 | ND(0.5) |
| SW-08B | 3/21/2002 | 45 | 140 | 5 | ND(0.5) |
| SW-08B | 6/4/2002 | 41 | 220 | 19 | ND(0.8) |
| SW-08B | 9/11/2002 | 52 | 300 | 36 | ND(1) |
| SW-08B | 12/11/2002 | 79 | 450 | 46 | ND(1.3) |
| SW-08B | 3/2/2003 | 52 | 310 | 35 | ND(1.3) |
| SW-08B | 6/5/2003 | 55 | 290 | 40 | ND(1) |
| SW-08B | 8/27/2003 | 43 | 210 | 25 | ND(0.7) |
| SW-08B | 12/16/2003 | 61 | 300 | 35 | ND(1) |
| SW-08B | 3/29/2004 | 110 | 500 | 100 | ND(1) |
| SW-08B | 6/8/2004 | 88 | 340 | 90 | ND(1.7) |
| SW-08B | 9/8/2004 | 73 | 260 | 53 | ND(2.5) |
| SW-08B | 12/7/2004 | 130 | 420 | 160 | ND(2.5) |
| SW-08B | 3/1/2005 | 64 | 130 | 21 | ND(0.5) |
| SW-08B | 6/7/2005 | 70 | 130 | 19 | ND(0.5) |
| SW-08B | 9/14/2005 | 92 | 330 | 150 | ND(3.1) |
| SW-08B | 11/30/2005 | 70 | 210 | 80 | ND(1.3) |
| SW-08B | 3/7/2006 | 78 | 270 | 150 | ND(1.3) |
| SW-08B | 6/7/2006 | 59 | 120 | 52 | ND(1) |
| SW-08B | 9/1/2006 | 75 | 140 | 70 | ND(0.7) |
| SW-08B | 12/5/2006 | 78 | 160 | 110 | ND(1) |
| SW-08B | 3/8/2007 | 72 | 110 | 58 | ND(0.5) |
| SW-08B | 5/29/2007 | 70 | 86 | 38 | ND(0.5) |
| SW-08B | 8/28/2007 | 64 | 71 | 37 | ND(0.5) |
| SW-08B | 11/29/2007 | 55 | 83 | 46 | ND(0.5) |
| SW-08B | 2/27/2008 | 40 | 31 | 6 | ND(0.5) |
| SW-08B | 6/18/2008 | 44 A/ | 55 A/ | 7.8 A/ | ND(0.50) A/ |
| SW-08B | 9/9/2008 | 43 A/MHA | 78 A/MHA | 39 A/ | ND(0.50) A/ |
| SW-08B | 11/3/2008 | 32 A/ | 59 A/ | 7.4 A/ | ND(0.50) A/ |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-09B | 1/20/2000 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| SW-09B | 5/30/2000 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| SW-09B | 9/6/2000 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| SW-09B | 12/12/2000 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| SW-09B | 4/18/2001 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 8/10/2001 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 12/10/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-09B | 3/20/2002 | 1 | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 6/4/2002 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 9/10/2002 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 12/10/2002 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 3/4/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 6/5/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 8/28/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 12/16/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 3/30/2004 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 6/10/2004 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 9/10/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-09B | 12/9/2004 | 1 | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 6/7/2005 | 1 | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 9/14/2005 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 11/30/2005 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 3/7/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-09B | 6/6/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-09B | 9/1/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-09B | 12/5/2006 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 3/9/2007 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 6/1/2007 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 8/30/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-09B | 11/29/2007 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 2/26/2008 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-09B | 6/18/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-09B | 11/4/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-11B | 1/24/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-11B | 5/31/2000 | 6 | 17 | 1 | ND(1) |
| SW-11B | 9/7/2000 | 24 | 52 | 1 | ND(1) |
| SW-11B | 12/14/2000 | 52 | 68 | 1 | ND(1) |
| SW-11B | 8/10/2001 | 80 | 96 | 24 | 3 |
| SW-11B | 12/12/2001 | 98 | 73 | 6 | 1 |
| SW-11B | 3/20/2002 | 93 | 71 | 6 | ND(0.5) |
| SW-11B | 6/6/2002 | 100 | 110 | 7 | 1 |
| SW-11B | 9/12/2002 | 87 | 94 | 6 | 1 |
| SW-11B | 12/11/2002 | 82 | 120 | 10 | 1 |
| SW-11B | 3/3/2003 | 85 | 79 | 19 | 1 |
| SW-11B | 6/5/2003 | 66 | 67 | 83 | 2 |
| SW-11B | 8/27/2003 | 50 | 47 | 34 | 3 |
| SW-11B | 12/16/2003 | 51 | 60 | 29 | 4 |
| SW-11B | 3/29/2004 | 50 | 39 | 29 | 23 |
| SW-11B | 4/30/2004 | 38 | 31 | 11 | 12 |
| SW-11B | 6/8/2004 | 40 | 36 | 4 | 4 |
| SW-11B | 9/9/2004 | 42 | 36 | 15 | 5 |
| SW-11B | 12/9/2004 | 98 | 61 | 17 | 3 |
| SW-11B | 3/2/2005 | 99 | 55 | 19 | 2 |
| SW-11B | 6/7/2005 | 130 | 44 | 15 | 2 |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-11B | 9/15/2005 | 310 | 150 | 150 | 14 |
| SW-11B | 11/30/2005 | 160 | 60 | 17 | 1 |
| SW-11B | 3/8/2006 | 320 | 130 | 100 | 9 |
| SW-11B | 6/7/2006 | 130 | 39 | 9 | ND(0.7) |
| SW-11B | 9/6/2006 | 130 | 32 | 21 | 2 |
| SW-11B | 12/4/2006 | 170 | 31 | 23 | 3 |
| SW-11B | 3/9/2007 | 110 | 18 | 17 | 3 |
| SW-11B | 5/30/2007 | 120 | 20 | 24 | 4 |
| SW-11B | 8/29/2007 | 88 | 16 | 19 | 4 |
| SW-11B | 11/28/2007 | 56 | 11 | 14 | 3 |
| SW-11B | 2/27/2008 | 93 | 15 | 20 | 3 |
| SW-11B | 6/18/2008 | 46 A/ | 8.2 A/ | 2.6 A/ | ND(0.50) A/ |
| SW-11B | 9/9/2008 | 39 A/ | 9.8 A/ | 8.9 A/ | 2.2 A/ |
| SW-11B | 11/5/2008 | 17 A/ | 1.9 A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-12B | 1/24/2000 | 1 | 41 | ND(0.5) | ND(1) |
| SW-12B | 5/31/2000 | 2 | 19 | ND(0.5) | ND(1) |
| SW-12B | 9/7/2000 | 2 | 20 | ND(0.5) | ND(1) |
| SW-12B | 12/13/2000 | 1 | 21 | 1 | ND(1) |
| SW-12B | 4/18/2001 | 2 | 96 | 2 | 2 |
| SW-12B | 8/10/2001 | 2 | 37 | 1 | 1 |
| SW-12B | 12/12/2001 | 2 | 23 | 2 | 1 |
| SW-12B | 3/20/2002 | 2 | 18 | 2 | ND(0.5) |
| SW-12B | 6/4/2002 | 1 | 22 | 3 | 2 |
| SW-12B | 9/10/2002 | 1 | 15 | 2 | 1 |
| SW-12B | 12/12/2002 | 1 | 11 | 1 | 1 |
| SW-12B | 3/4/2003 | 1 | 10 | 2 | 2 |
| SW-12B | 6/5/2003 | 1 | 10 | 3 | 2 |
| SW-12B | 8/28/2003 | ND(0.5) | 5 | 1 | 1 |
| SW-12B | 12/17/2003 | ND(0.5) | 5 | 1 | 1 |
| SW-12B | 3/29/2004 | ND(0.5) | 4 | 1 | 1 |
| SW-12B | 6/10/2004 | ND(0.5) | 5 | 1 | 1 |
| SW-12B | 9/10/2004 | ND(0.5) | 7 | 1 | ND(0.5) |
| SW-12B | 12/9/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-12B | 3/2/2005 | ND(0.5) | 9 | 1 | 1 |
| SW-12B | 6/9/2005 | ND(3.1) | 54 | 18 | 17 |
| SW-12B | 9/14/2005 | 4 | 45 | 7 | 5 |
| SW-12B | 11/30/2005 | 1 | 21 | 1 | 2 |
| SW-12B | 3/8/2006 | 1 | 38 | 3 | 3 |
| SW-12B | 6/7/2006 | 1 | 50 | 6 | 4 |
| SW-12B | 9/5/2006 | 3 | 88 | 7 | 3 |
| SW-12B | 12/4/2006 | 2 | 50 | 6 | 3 |
| SW-12B | 3/9/2007 | 2 | 61 | 9 | 3 |
| SW-12B | 5/30/2007 | 2 | 52 | 11 | 4 |
| SW-12B | 8/29/2007 | 2 | 53 | 8 | 3 |
| SW-12B | 11/29/2007 | 2 | 48 | 11 | 4 |
| SW-12B | 2/27/2008 | 3 | 52 | 10 | 4 |
| SW-12B | 6/18/2008 | 1.4 A/ | 19 A/ | 0.88 A/ | ND(0.50) A/ |
| SW-12B | 9/9/2008 | 1.4 A/ | 22 A/ | 1.3 A/ | ND(0.50) UJ/ |
| SW-12B | 11/4/2008 | 1.5 A/ | 22 A/ | 1.5 A/ | ND(0.50) A/ |
| SW-14B | 1/25/2000 | ND(0.5) | 1 | ND(0.5) | ND(1) |
| SW-14B | 5/31/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-14B | 9/11/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-14B | 12/13/2000 | ND(0.5) | ND(0.5) | ND(0.5) | ND(1) |
| SW-14B | 4/19/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-14B | 8/13/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 12/10/2001 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 3/18/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 6/4/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 6/5/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 9/13/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 12/10/2002 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 3/3/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 6/6/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 8/25/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 12/15/2003 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 3/30/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 6/9/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 9/9/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 12/10/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 3/3/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 6/10/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 9/15/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 11/30/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 3/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 6/9/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 5/31/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 8/29/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 11/28/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 2/26/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-14B | 6/18/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-14B | 9/9/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) UJ/ |
| SW-14B | 11/5/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-18B | 4/23/2001 | 1 | 15 | 1 | ND(0.5) |
| SW-18B | 8/13/2001 | 1 | 9 | ND(0.5) | ND(0.5) |
| SW-18B | 12/10/2001 | 1 | 8 | ND(0.5) | ND(0.5) |
| SW-18B | 3/18/2002 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-18B | 6/5/2002 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-18B | 9/10/2002 | 1 | 7 | ND(0.5) | ND(0.5) |
| SW-18B | 12/11/2002 | ND(0.5) | 5 | ND(0.5) | ND(0.5) |
| SW-18B | 3/3/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-18B | 6/5/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-18B | 6/6/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-18B | 8/25/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-18B | 12/15/2003 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-18B | 3/29/2004 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-18B | 6/9/2004 | ND(0.5) | 1 | ND(0.5) | ND(0.5) |
| SW-18B | 9/9/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 12/10/2004 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 3/3/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 6/10/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 9/15/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 11/30/2005 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 3/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 6/8/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 6/9/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 9/6/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 12/1/2006 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 3/9/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |

Table 2-3. Summary of Groundwater Analytical Data

| Well Name | Sample Date | Tetrachloroethene (µg/L) | Trichloroethene (µg/L) | cis-1,2-Dichloroethene (µg/L) | Vinyl Chloride (µg/L) |
|-----------|-------------|--------------------------|------------------------|-------------------------------|-----------------------|
| SW-18B | 5/31/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 8/29/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 11/28/2007 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 2/26/2008 | ND(0.5) | ND(0.5) | ND(0.5) | ND(0.5) |
| SW-18B | 6/19/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |
| SW-18B | 9/9/2008 | ND(0.50) A/ | 1.5 A/ | ND(0.50) A/ | ND(0.50) UJ/ |
| SW-18B | 11/5/2008 | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ | ND(0.50) A/ |

Abbreviations:

µg/L = Micrograms per liter.

ND = Not detected at the reporting level in parentheses.

Qualifier **Qualifier Description** (Qualifiers are listed as validation qualifier / lab qualifier where applicable [e.g. /MHA])

Laboratory Assigned Qualifiers

MHA Due to high levels of analyte in the sample, the MS/MSD does not provide useful spike recovery information. See Blank Spike (LCS).

UJ The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte.

MACTEC Validation Assigned Qualifiers

Checked: MH-F

Approved: MS

A Sample has undergone routine data validation.

Table 3-1.
 Chemicals of Concern in Soil, Schlage OU

| Chemical | Regulatory Screening Levels (RSLs) ¹ | Maximum Soil Concentration (mg/kg) | Chemical of Concern (COC) |
|---|---|------------------------------------|---------------------------|
| Chlorinated Volatile Organic Compounds | | | |
| PCE | 0.57 | 12 | Yes |
| TCE | 2.8 | 62 | Yes |
| VC ³ | 1.7 | ND | Yes |
| 1,1-DCE ³ | 250 | ND | Yes |
| cis-1,2-DCE ³ | 780 | 3.8 | Yes |
| trans-1,2-DCE ³ | 110 | ND | Yes |
| Metals | | | |
| Arsenic | 0.07 | 8 | Yes |
| Cadmium | 1.7 | 12.3 | Yes |
| Lead | 150 | 190 | Yes |

Notes:

mg/kg = milligrams per kilogram

1) RSL = Regional Screening Levels, USEPA, 2008

2) Isolated detections of other chemicals above RSLs were not identified as COCs (i.e., BTEX, TPH, VC (see text)).

3) Chemicals retained as COCs because they are daughter products of PCE and TCE.

Checked by: MH-F

Approved by: MS

Table 3-2. Chemicals of Concern in Soil, UPC OU

| Chemicals of Potential Concern | Regulatory Screening Levels (RSLs) ^a (mg/kg) | Maximum Soil Concentration ^b (mg/kg) | Maximum Soil Concentration Exceeds the RSL | Chemicals of Concern |
|---|---|---|--|----------------------|
| Polycyclic Aromatic Hydrocarbons^c | | | | |
| Benzo(a)pyrene | 0.15 | -- | No | No |
| Metals | | | | |
| Aluminum | 77,000 | 34,000 | No | No |
| Arsenic | 0.07 | 240 | Yes | Yes |
| Barium | 5,200 | 250 | No | No |
| Cadmium | 1.7 | 5.2 | Yes | Yes |
| Chromium | 100,000 | 280 | No | No |
| Copper | 3,000 | 39 | No | No |
| Lead | 150 | 810 | Yes | Yes |
| Mercury | 18 | 1.6 | No | No |
| Selenium | 380 | 1 | No | No |
| Silver | 380 | 0.3 | No | No |

Abbreviations:

RSLs = Regulatory screening levels.
 mg/kg = Milligrams per kilogram.
 -- = Not available.
 ND = Not detected.

Footnotes:

^a Values are from California Environmental Protection Agency (CalEPA) California Human Health Screening Levels (CHHS *CalEPA, 2005*). For the COCs that did not have an established CHHSL, the Region 9 *Regional Screening Levels (EPA, 2008)* were used. No CHHSL was established for Total Chromium; the CHHSL for Chromium 3+ was used as the most similar.

^b The selection of analytes is based on previous studies conducted on the San Francisco portion of the Universal Paragon Corporation Operable Unit (UPC OU). The analytes and maximum soil concentrations were compiled from Burns & McDor *Soil Sampling Summary Report (2006a)* and *OU-1 Additional Investigation, San Francisco and Brisbane, California (2006b)*; Treadwell & Rollo's *Soil Operable Unit Remedial Investigation Report (2001)*, and Levine-Fricke's *Feasibility Study Report, Bayshore Railyard, Brisbane, California (1991)*.

^c Polycyclic aromatic hydrocarbons (PAHs) were sampled in 1990 at the oil/water separator as described in Levine-Fricke's *Feasibility Study Report, Bayshore Railyard, Brisbane, California (1991)*. However, the sample with detections was excavated in 1993 as described in IT Corporation *Bayshore Railyard North Area Remediation Report (1994)*. PAHs have not been detected elsewhere on the site, but they are typically present in anthropogenic fill soils. Therefore, PAHs are retained as a chemical concern, but evaluated as an estimated order of potential potency.

References:

Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), 2006a. *Soil Sampling Report*. Universal Paragon Corporation, San Francisco and Brisbane, California. January.
 Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell), 2006b. *OU-1 Additional Investigation*, San Francisco and Brisbane, California. January.
 California Environmental Protection Agency (CalEPA), 2005. *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties*. January.
 IT Corporation, 1994. *Bayshore Railyard North Area Remediation Report*. October.
 Levine-Fricke, 1991. *Feasibility Study Report, Bayshore Railyard, Brisbane, California*. December 1.
 Treadwell & Rollo, 2001. *Soil Operable Unit, Remedial Investigation Report*. Schlage Lock Company Site. June.
 United States Environmental Protection Agency (EPA), 2008. *Regional Screening Levels*. Region 9. September.

Checked by: NM

Approved by: MS

TABLE 5-1. POTENTIALLY APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)

| ARAR Type | Standard, Requirement, Criteria, Limitation | Citation | Description |
|----------------------|---|--|---|
| Federal ARARs | | | |
| Chemical | Clean Air Act | 42 USC 7401-7642 | Emission standards for stationary and mobile sources. |
| Chemical | Hazardous Waste Identification | 40 CFR 261.24 | Establishes criteria to determine whether solid waste exhibits hazard characteristics. |
| Chemical/ Action | Classification and regulation of hazardous waste | 40 CFR 260 | Establishes criteria for the determination of hazardous waste and its regulation. |
| Action | National Pollutant Discharge Elimination System (NPDES) | 40 CFR Parts 122-124 | Establishes requirements to ensure storm water discharges do not contribute to a violation of surface water quality standards. |
| Action | NPDES | 40 CFR Part 403 (33- USC 1251-1376) | Establishes national pretreatment standards to control pollutants that pass through or interfere with treatment processes in POTWs or that may contaminate sewage sludge. |
| Action | Comprehensive, Environmental Response, Compensation and Recovery Act and Superfund Amendments and Reauthorization Act of 1986, and National Oil and Hazardous Substances Pollution Contingency Plan | 40 CFR 300 | Establishes policies and procedures for investigation and remediation decisions for protection of public health and the environment. |

TABLE 5-1. POTENTIALLY APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)

| ARAR Type | Standard, Requirement, Criteria, Limitation | Citation | Description |
|-----------------------|---|---|---|
| Chemical/ Action | Clean Water Act | 33 USC 1251 | Establishes regulatory and nonregulatory tools to sharply reduce direct pollutant discharges into waterways, finance municipal wastewater treatment facilities, and manage polluted runoff. |
| Action | Drinking Water Standards | 40 CFR Part 141 | Establishes maximum contaminant levels to protect water quality in public drinking water systems. |
| Action | Occupational Health and Safety | 29 CFR 1910, 120 | Establishes requirements for health and safety training. |
| TBC | Health Risk Assessment | US EPA, Risk Assessment Guidance for Superfund (1989) | Guidance and framework to assess health risk. |
| State and Local ARARs | | | |
| Chemical | Ambient Air Quality Standards | HSC 39000-44071 | Establishes standards for emissions of chemical vapors and dust. |
| Action | Emission Standard | BAAQMD Regulation 6 | Establishes emission standards for particulates. |
| Action | Emission Standard | BAAQMD Regulations 2 and 8 | Establish emission and permitting standards for volatile organic compounds (VOCs). |
| Chemical | Determination of Characteristic Wastes | 22 CCR 66261.24 | Establishes criteria for identifying characteristic wastes. |
| Action | Hazardous Waste Control | HAC 25100-25250.26 | Establishes hazardous waste control measures. |
| Action | Hazardous Waste Generator Requirements | 22 CCR 66262.11 et seq. | Establishes standards applicable to generators of hazardous waste. |
| Action | Discharge to POTW | City/County Wastewater Discharge Requirements | Establishes pretreatment standards to control pollutants. |

TABLE 5-1. POTENTIALLY APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)

| ARAR Type | Standard, Requirement, Criteria, Limitation | Citation | Description |
|-----------|---|------------------------------------|--|
| Action | State Superfund Act | HSC 25300 et. seq. | Establishes policies and procedures for investigation and remediation decisions for protection of public health and the environment. |
| Action | DTSC Site Mitigation Program Policies and Procedures | DTSC | Applicable policies, procedures, management memos, and related guidance documents. |
| Action | Drinking Water Standards | 22 CCR 64431 and 64444 | Establishes maximum contaminant levels to protect water quality in public drinking water systems. |
| Action | Porter-Cologne Water quality Control Act | RWQCB | Establishes policies and procedures for investigation and remediation decisions for preservation and protection of waters of the state for beneficial uses. |
| Action | Water Quality Control Plan (Basin Plan) for the San Francisco Bay Basin | RWQCB | Establishes water quality objectives for the San Francisco Bay. |
| Action | California Occupational Health and Safety | 8 CCR 1500, 2300, and 3200 et seq. | Establishes standards for working conditions and employees matter; and notification requirements. |
| Action | Environmental Impact Review | PRC 21000-2177 | Mandates environmental impact review of project approved by governmental agencies |
| Action | Land Use Covenants | 22 CCR 67391.1 | Specify that a land use covenant imposing appropriate limitations on land use shall be executed and recorded when hazardous materials, hazardous wastes or constituents, or hazardous substances will remain at the property at levels, which are not suitable for unrestricted use of the land. |

TABLE 5-1. POTENTIALLY APPLICABLE OR RELEVANT AND APPROPRIATE REQUIREMENTS (ARARS)

| | | | |
|-----|------------------------|--|---|
| TBC | Health Risk Assessment | DTSC, Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties (2005) | Guidance and framework to assess health risk. |
| TBC | Health Risk Assessment | RWQCB, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater (2005) | Guidance and framework to assess health risk |

BAAQMD Bay Area Air Quality Management District
 CCR California Code of Regulations
 DTSC Department of Toxic Substances Control
 HSC California Health and Safety Code
 POTW Publicly Owned Treatment Works
 PRC California Public Resources Code
 RWQCB Regional Water Quality Control Board
 RCRA Resource Conservation and Recovery Act
 USC United States Code
 TBC To Be Considered

Checked by: MH-F Approved by: MS

Table 6-1. Remedial Technology Screening Matrix

| Potential Remedial Technologies | Contaminated Media | | | | | | | | | |
|---|--|--|--|--|--|--|--|---|--|---------------------------------|
| | Soil | | | | Soil Gas | | Groundwater | | | |
| | Chemicals of Concern | | | | | | | | | |
| | VOCs/Metals/PAHs | | | | VOCs | | VOCs | | | |
| | Ex Situ Treatment | In Situ Treatment | Containment | Institutional Controls | In Situ Treatment | Institutional Controls | Ex Situ Treatment | In Situ Treatment | Containment | Institutional Controls |
| <u>Metals/PAHs</u> -Excavation -Onsite consolidation -Offsite Disposal -Stabilization <u>VOCs</u> - VOC "Hot Spot" Excavation -Aeration -Thermal Desorption -Biodegradation -Vapor Extraction & Off-gas treatment | <u>VOCs</u> -Vapor Extraction & Off-gas Treatment -Bioventing -Enhanced Biodegradation | <u>Metals/PAHs</u> Barriers -Soil/ Hardscape Cap -Asphalt/Concrete Slab Cap - Engineered Vapor Barrier Cap | <u>VOCs/Metals/PAHs</u> -Land Use/ Deed/Zoning Restriction | Single/Dual Phase Vapor Extraction & Off-gas treatment -Carbon -Biodegradation -Air Stripping | -Land Use/ Deed/Zoning Restriction -Monitoring | Extraction & Aboveground Treatment -Carbon -UV/Oxidation -Biodegradation -Air Stripping -Air Sparging | -Reductive Dechlorination -Chemical Oxidation -Dual Phase Extraction -Enhanced Biodegradation | Vertical Barriers -Sheet piles - Slurry wall - Hydraulic Control with Pump and Treat | -Use Restriction -Monitoring | |
| Screen Technologies for Each Land Use/Development Zone | | | | | | | | | | |
| Zone 1 – Public Open Space On Grade | None Anticipated to be Retained | None Anticipated to be Retained | <u>Metals/PAHs</u> Barriers -Soil/ Hardscape Cap -Asphalt/Concrete Slab Cap | <u>Metals/PAHs</u> -Land Use/ Deed/Zoning Restriction | Single Phase Vapor Extraction & Off-gas treatment -Carbon | -Monitoring | Extraction & Aboveground Treatment -Carbon | -Chemical Oxidation -Enhanced Biodegradation | Vertical Barriers - Hydraulic Control with Pump and Treat | -Use Restriction -Monitoring |
| Zone 2 – Residential Over Commercial Podium Construction | <u>VOCs</u> - VOC "Hot Spot" Excavation -Aeration -Vapor Extraction & Off-gas treatment | <u>VOCs</u> -Vapor Extraction & Off-gas | <u>Metals/PAHs</u> Barriers -Soil/ Hardscape Cap -Asphalt/Concrete Slab Cap | <u>Metals/PAHs</u> -Land Use/ Deed/Zoning Restriction | Single Phase Vapor Extraction & Off-gas treatment -Carbon | -Monitoring | Extraction & Aboveground Treatment -Carbon | -Chemical Oxidation -Enhanced Biodegradation | Vertical Barriers - Hydraulic Control with Pump and Treat | -Use Restriction -Monitoring |
| Zone 3 – Residential Over Podium Construction | <u>VOCs</u> - VOC "Hot Spot" Excavation -Aeration -Vapor Extraction & Off-gas treatment | <u>VOCs</u> -Vapor Extraction & Off-gas | <u>Metals/PAHs</u> Barriers -Soil/ Hardscape Cap -Asphalt/Concrete Slab Cap | <u>Metals/PAHs</u> -Land Use/ Deed/Zoning Restriction | Single Phase Vapor Extraction & Off-gas treatment -Carbon | -Monitoring | Extraction & Aboveground Treatment -Carbon | -Chemical Oxidation -Enhanced Biodegradation | Vertical Barriers - Hydraulic Control with Pump and Treat | -Use Restriction -Monitoring |

Checked by: KC Approved by: MS

Table 6-2. Evaluation of Remedial Alternatives Summary

| Criteria | Alternative | | | |
|---|-----------------------------|--------------------------------|--|--|
| | Alternative 1– No Action | Alternative 2– LUCs and MNA | Alternative 3– Excavation, Onsite Treatment, Relocation and Capping, In Situ Groundwater Treatment and Monitoring | Alternative 4– Excavation, Offsite Disposal, In Situ Groundwater Treatment and Monitoring |
| Overall Protection of Human Health and the Environment | - | - | + | + |
| Compliance with ARARs/TBCs | - | - | + | + |
| Long-Term Effectiveness and Permanence | - | + | + | + |
| Reduction of Toxicity, Mobility, or Volume | - | - | + | - |
| Short-Term Effectiveness | - | - | + | + |
| Implementability | - | + | + | - |
| Relative Costs | + (\$0) | + (\$1.6M) | + (\$5.4M) | - (\$10.3M) |
| DTSC Acceptance | - | - | + | - |
| Community Approval | - | - | ? | ? |
| Health and Safety Risks | - | + | + | + |
| Beneficial Uses of Groundwater at the Site | - | - | + | + |
| Total Ranking | -10 | -2 | 10 | 2 |
| <p>Notes: ARARs: Applicable or Relevant and Appropriate Requirements LUC: Land Use Control M: million MNA: Monitored natural attenuation TBCs: To-Be-Considered Criteria</p> <p style="text-align: right;">- negative response + positive response</p> | | | | |

Checked by: KC

Approved by: MS

FIGURES

APPENDIX A

SUMMARY OF HISTORICAL SOIL ANALYTICAL DATA

APPENDIX B

DATA GAP INVESTIGATIONS AND TREATABILITY
STUDIES DOCUMENTATION

APPENDIX C

LABORATORY ANALYTICAL REPORTS

(On CD)

APPENDIX D

RISK-BASED SOIL GAS CLEANUP LEVELS, SCHLAGE OU

APPENDIX E

RISK-BASED TARGET REDEVELOPMENT CLEANUP GOALS,
SCHLAGE OU

APPENDIX F

ESTIMATED COST SUMMARY TABLES FOR REMEDIAL ALTERNATIVES

APPENDIX G

ADMINISTRATIVE RECORD LIST

APPENDIX H

CEQA DOCUMENTATION

APPENDIX I

RESPONSIVENESS SUMMARY

