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**Date:** 12 November 2014

**Subject:** 2014 Annual Comprehensive Groundwater Monitoring Report, PVOU Intermediate Zone

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# 2014 Annual Comprehensive Groundwater Monitoring Report

## PVOU Intermediate Zone

**November 12, 2014**

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The information contained in the document titled 2014 Annual Comprehensive Groundwater Monitoring Report for Intermediate Zone, Puente Valley Operable Unit, dated November 12, 2014, has received appropriate technical review and approval. The conclusions and recommendations presented represent professional judgments and are based upon findings from the investigations and sampling identified in the report and the interpretation of such data based on our experience and background. This acknowledgement is made in lieu of all warranties, either expressed or implied. The activities outlined in this report were performed under the supervision of a California Registered Professional Geologist.

Reviewed and Approved by:

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# Acronyms and Abbreviations

| | |
|---|---|
| µg/L | microgram(s) per liter |
| 1,1-DCE | 1,1-dichloroethene |
| 1,2,3-TCP | 1,2,3-trichloropropane |
| 1,1-DCA | 1,1-dicloroethane |
| 1,2-DCA | 1,2-dichloroethane |
| msl | mean sea level |
| bgs | below ground surface |
| CDPH | California Department of Public Health |
| *cis*-1,2-DCE | *cis*-1-2-dichloroethene |
| C/GMP | Compliance/General Monitoring Plan |
| CMWNP | Compliance and Monitoring Well Network Plan |
| COC | chain-of-custody |
| CRA | Conestoga-Rovers & Associates |
| DBCP | 1,2-dibromo-3-chloropropane |
| DO | dissolved oxygen |
| DTSC | Department of Toxic Substances Control |
| E-Log | electric logs |
| EDB | 1,2-dibromoethane |
| EC | electrical conductivity |
| ESD | Explanation of Significant Differences |
| ft | feet |
| IROD | Interim Record of Decision |
| IZ | Intermediate Zone |
| IDW | investigation-derived waste |
| J | estimated value (data qualifier) |
| LCS/LCSD | Laboratory Control Samples, LCS Duplicates |
| LIZ | Lower Intermediate Zone |
| MCL | maximum contaminant level |
| mg/L | milligrams per liter |
| M-K | Mann-Kendall |
| MOV | Mouth of Puente Valley |

| | |
|---|---|
| MS | matrix spike |
| MSD | matrix spike duplicate |
| ng/L | nanograms per liter |
| NAVD | North American Vertical Datum |
| NDMA | N-nitrosodimethylamine |
| NDEA | N-nitrosodiethylamine |
| NDPA | N-nitroso-n-propylamine |
| NL | Notification Level |
| ORP | oxidation-reduction potential |
| PCE | tetrachloroethene |
| PVOU | Puente Valley Operable Unit |
| QA | quality assurance |
| QC | quality control |
| RPD | relative percent deviation |
| SAP | sampling and analysis plan |
| San Gabriel | San Gabriel Valley Water Company |
| SIM | selective ion monitoring |
| Suburban | Suburban Water Systems |
| SVOC | semi-volatile organic compound |
| SZ | Shallow Zone |
| SZ-North | Shallow Zone North of Puente Creek |
| SZ-South | Shallow Zone South of Puente Creek |
| TCE | trichloroethene |
| TDS | total dissolved solids |
| TICs | tentatively identified compounds |
| TPH | Total Petroleum Hydrocarbons |
| UIZ | Upper Intermediate Zone |
| USEPA | United States Environmental Protection Agency |
| VOC | volatile organic compound |
| Weck | Weck Laboratories, Inc. |

# Section 1
# Introduction

CDM Smith Inc. (CDM Smith) has prepared this groundwater monitoring report to document the procedures and results of the 2014 Annual Comprehensive Groundwater Monitoring Event (2014 Annual Event) for the Puente Valley Operable Unit (PVOU) Intermediate Zone (IZ) on behalf of Northrop Grumman Systems Corporation (Northrop Grumman). As this is a comprehensive report, sampling information and results from the Early 2014 Semi-Annual Groundwater Sampling Event (Early 2014 Semi-Annual Event) are also included in this report. The purpose of the monitoring is to assess groundwater flow, and contaminant concentrations and distribution in the IZ and Deep Zone (DZ) at the mouth of Puente Valley (MOV). The Annual 2014 Event was completed as a requirement of the United States Environmental Protection Agency (USEPA) and this report has been prepared based on guidelines provided by USEPA in its email dated April 12, 2013 and comments to the Mid-Year 2013 Groundwater Monitoring Report provided to Northrop Grumman on June 6, 2014. A full listing of these comments and responses prepared describing how they were incorporated into this report is presented as Appendix A.

On June 26, 2014, CDM Smith submitted a sampling plan for the 2014 Annual Event (CDM Smith 2014a) to USEPA. The sampling plan was approved by the USEPA on August 4, 2014 (Appendix B). The Annual 2014 event was performed in accordance with the approved sampling plan. The list of wells selected for water level measurement and/or sampling and analyses were determined in consultation with USEPA and is presented in Table 1-1. A complete description of the Early 2014 Semi-Annual Event was provided in a report submitted to USEPA on June 6, 2014 (CDM Smith, 2014b).

## 1.1 Background

The PVOU is located at the convergence between San Gabriel Valley and Puente Valley within the southern portion of the Main San Gabriel Groundwater Basin (Basin) (Figure 1-1). The Basin has been the subject of environmental investigation since 1979 when groundwater impacted with volatile organic compounds (VOCs) was first detected. In May 1984, four broad areas within the Basin were listed as San Gabriel Areas 1 through 4 on USEPA's National Priorities List. USEPA subsequently divided the Basin into eight operable units, one of which is the PVOU.

### 1.1.1 Geology/Hydrogeology of the PVOU

The Basin is filled with alluvial deposits that overlie relatively impermeable bedrock. These alluvial deposits are approximately 2,000 to 4,000 feet thick in the center of the Basin and range from approximately 250 to 800 feet thick at the Basin outlet in Whittier Narrows. The San Gabriel Mountains contributed the bulk of the alluvium to the Basin, with a small portion contributed by the Puente Hills to the south of the Basin. Although it is likely that most of the sediments were deposited in the Basin by braided streams and networks of high sinuosity channels, some of the sediments at higher elevations may have been products of mass wasting, including colluvium, landslides, and debris flows (USEPA, 1993).

The Puente Valley alluvial deposits range widely in thickness, from less than 25 feet in the extreme eastern portion of Puente Valley and the Puente Valley perimeter, to approximately 1,300 feet where Puente Valley transitions into the main Basin. The alluvial sediments thicken rapidly from the central portion of the Puente Valley to the west/northwest in the MOV (USEPA, 1992).

The alluvial fill occurring in Puente Valley has a higher clay content than the alluvium comprising the Main San Gabriel Valley Basin (USEPA, 1993). Generally, the alluvium in Puente Valley also exhibit more discontinuous layering than is observed in the main body of the Basin. The alluvial deposits in Puente Valley consist of clay and sandy clay with lenses of sand and gravel. Sand and gravel usually comprise less than a third of the material, but locally can comprise greater than two thirds (USEPA, 1992).

The depth to first-encountered groundwater is variable depending on the climatic cycle and location. Currently, groundwater is first encountered at depths between about 60 to 80 feet below ground surface (bgs) and increases in the direction of the main Basin. The water bearing zones have been separated into three principal aquifer units. These are the Shallow Zone (SZ), IZ, and DZ. Two units have been defined within the SZ; the Shallow Zone 1(SZ1) and Shallow Zone 2 (SZ2). Two units have since been delineated within the IZ; these are the upper intermediate zone (UIZ) and lower intermediate zone (LIZ). The LIZ has also been delineated into the upper and lower portions of the LIZ (LIZ1 and LIZ2, respectively). The DZ is located below the LIZ and is the unit in which most of the groundwater pumped from local area production wells. A conceptual model including the SZ1, SZ2, UIZ, LIZ1, LIZ2, DZ and the lower permeability layers between these zones is presented in Figure 1-2. Electric logs (E-logs) and boring logs show evidence of multiple layers of interbedded sand and finer-grained materials throughout the PVOU. In this type of geologic setting, distinguishing regionally-extensive aquifer units by visual inspection of E-logs and boring logs alone is difficult. However, when the distribution of piezometric heads, water quality, and aquifer test results are also considered, key patterns of aquifer behavior emerge. Indicators of hydraulic communication between hydrologic units (or lack thereof) include:

- Sustained head differences between wells screened at different depths within a well cluster,
- Responses to local and regional pumping and/or regional piezometric head variations,
- Patterns of contaminant distribution, and
- Responses of wells to aquifer testing.

These indicators have been used to delineate the aquifer units as described below:

- Some of the currently operating production wells in the MOV are screened across the IZ and DZ, but not the SZ. Piezometric heads in monitoring wells screened in the UIZ, LIZ, and DZ aquifer units respond to changes in local production pumping at wells that are screened in these units, namely San Gabriel Valley Water Company (San Gabriel) wells B7C and B11B, and Suburban Water Systems (Suburban) well 147-W3. In addition, piezometric heads in the UIZ, LIZ, and DZ are typically lower than the SZ.
- USEPA's Feasibility Study, Interim Record of Decision (IROD), and Explanation of Significant Differences (ESD) refer only to the DZ as a "Deep Zone" beneath an aquitard that underlies the IZ aquifer.

### 1.1.2 Interim IZ Remedy

USEPA issued an IROD for the PVOU in September 1998. The IROD selected migration control in the SZ and IZ at the MOV as the most appropriate remedy (USEPA, 1998). The IROD specified that the PVOU remedy would be implemented using a performance-based approach that specifies Performance

Criteria that must be met while allowing flexibility in implementation. On September 28, 2000, USEPA issued Special Notice Letters to 56 parties it considered responsible for the groundwater contamination in the PVOU On December 4, 2000 TRW Inc. (now Northrop Grumman) submitted a Good Faith Offer to USEPA in its own name and in the names of approximately two dozen other Puente Valley Steering Committee (PVSC) members that had reached settlement agreements with TRW Inc. Because the group of parties led by TRW Inc. did not include many of the 56 named responsible parties in the PVOU, the Good Faith Offer was to perform a portion of the work selected in the IROD, specifically, the IZ component. TRW Inc. and USEPA reached an agreement in principle based on the Good Faith Offer. Between 2001 and 2009, TRW Inc. began implementation of the IZ Remedy pursuant to a Unilateral Administrative Order (USEPA, 2002) while a Consent Decree was negotiated and entered by the United States District Court on August 21, 2009. TRW Inc. was acquired by Northrop Grumman in 2003 and since has been the named responsible party for the IZ Remedy.

The objectives of the interim IZ Remedy are intended to prevent groundwater in the IZ at the MOV with contamination greater than or equal to the Containment Levels (Table 2 of the ESD; USEPA, 2005) from:

- "Migrating beyond its lateral extent as measured at the time the intermediate zone Remedial Action containment system is Operational and Functional; and
- Migrating vertically into the deep zone."(USEPA, 2005).

The IZ Remedy is required to intercept IZ contamination, prevent it from further impacting the local area production wells (Figure 1-3), and reduce concentrations in that area to below Containment Levels (USEPA, 1998). The IZ Remedy is designed to address chlorinated solvents (primarily tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), and 1,4-dioxane) present in groundwater within the IZ of the PVOU. The treatment systems are being designed and end-use alternatives for the IZ Remedy are currently under consideration.

## 1.2 Monitoring Wells

### 1.2.1 Summary of the IZ Remedy Monitoring Well Network

The list of wells included in the groundwater monitoring network for the PVOU IZ Remedy and selected during the development of the sampling plan is provided as Table 1-1. The wells included on this table were selected for the IZ Remedy by USEPA on September 12, 2012. Monitoring wells installed by Northrop Grumman as part of the IZ Remedy Compliance and Monitoring Well Network Plan (CDM Smith, 2014c) have been added to the IZ monitoring well network and are also included in Table 1-1. Table 1-1 provides survey data, well construction specifications, and the identification of the hydrogeologic unit in which each well is screened. Also included in Table 1-1 is the sampling methodology used (*i.e.,* low flow, high-capacity submersible pump, and Westbay® Multiport Wells [Westbay wells]) during the 2014 Annual and the Early 2014 Semi-Annual Event.

Table 1-1 presents the wells in groups, based on well type, such as cluster wells, Westbay wells, or extraction wells. Wells have not yet been designated as compliance or sentinel monitoring wells. This designation will be made and presented in the Compliance/General Monitoring Plan (C/GMP).

Figure 1-3 presents the locations of wells within the PVOU. This map includes all wells installed to date for the Shallow Zone North of Puente Creek (SZ-North), Shallow Zone South of Puente Creek (SZ-South), and IZ remedies and the local area production wells. New monitoring wells were installed as

part of the Compliance and Monitoring Well Network Plan (CMWNP) (CDM Smith, 2012) and have been added to the monitoring well network as they were completed. Well installation as part of the CMWNP was completed in July 2014.

In July 2014, per the request of the USEPA, the well names of the newly installed monitoring wells were revised. Tables in this report contain the current well name, as well as the previous well name. The figures only provide the current well name.

## 1.2.2 Summary of Monitoring Wells Monitored in 2014

Groundwater sampling events were conducted in February/March 2014 and in August 2014, as the Early 2014 Semi-Annual and 2014 Annual Event, respectively. Table 1-1 and Figure 1-3 identify which wells were selected for IZ sampling and water level monitoring for the 2014 Annual Event.

### 1.2.2.1 2014 Annual Event

Table 1-2 presents the wells sampled during the 2014 Annual Event, the respective analytical methods and sampling procedures. Wells that were sampled are highlighted in yellow on Figure 1-3. A total of 58 monitoring wells screened within the UIZ, LIZ, and DZ were sampled, including existing cluster wells, single completion monitoring wells, multiple ports from three Westbay wells, and all the newly installed IZ Remedy compliance and monitoring wells.

Wells MW7-7A, MW7-17B, and MW7-17C were sampled in July as part of the IZ East Performance Monitoring, and additional analyses were performed to include the required analyses for the 2014 Annual Event. Newly installed wells MW7-14 A, MW7-14B, MW7-14C, MW7-15B, and MW7-15C were also sampled in July 2014 for all analyses required for the 2014 Annual Event. These wells were installed in June and July 2014 and these were the first samples collected from these wells. Well MW7-7D was sampled in September 2014 for all required analyses for the 2014 Annual Event, and IZ-East Performance Monitoring (CDM Smith, 2013).

### 1.2.2.2 Early 2014 Semi-Annual Event

Table 1-3 identifies wells selected for IZ sampling and water level monitoring for the Early 2014 Semi-Annual Event, the respective analytical methods and sampling methods. The Early 2014 Semi-Annual Groundwater Monitoring Report was submitted to USEPA on June 4, 2014 (CDM Smith, 2014b).

Well S11A, installed by United Technologies Corporation/Carrier Corporation (UTC/Carrier) and previously included in the SZ-North monitoring program, was added to Early 2014 Semi-Annual Event at the request of the USEPA. This well is screened in the upper IZ. Newly-installed wells, MW7-11A, MW7-11B, MW7-12A, MW7-12B, MW7-13A, and MW7-13B were sampled for the first time during the Early 2014 Semi-Annual Event. Newly-installed wells MW7-13A and MW7-13B were not included in the Early 2014 Semi-Annual Event as installation of these wells was not completed until the end of March 2014. Wells MW7-13A and MW7-13B were subsequently sampled on March 28, 2014 and the analytical results were included in the Early 2014 Semi-Annual Groundwater Monitoring Report (CDM Smith, 2014b).

### 1.2.2.3 IZ-East Performance Monitoring

Isolation packers were installed between each of the three screen sections at the IZ-East extraction well in early 2014. The purpose of the packers was to facilitate discrete monitoring of piezometric head and VOC concentrations in groundwater at each of the three screen intervals (CDM Smith, 2013a). This well was sampled in March, May, July, and September 2014. Wells MW7-7A, MW7-7B,

MW7-7C, and MW7-7D were also sampled in May and September 2014, as part of the IZ-East Performance Monitoring. The March, May, and July water quality data are provided in the summary data tables in Section 4. The results of the September 2014 sampling event will be provided in a report to USEPA under a separate cover.

## 1.3 Report Organization

This report is organized into sections that describe the activities and analytical results as follows:

- **Section 1 - Introduction.** Introduces the groundwater monitoring event, monitoring well information, site background, and report organization.
- **Section 2 – Sampling Approach**. Presents the approach and methods used for water level measurements and groundwater sampling, including field quality assurance/quality control (QA/QC), and handling of investigation-derived waste (IDW).
- **Section 3 – Data Validation and Findings.** Presents the data validation summary, including methodology, data storage, and data quality assessment.
- **Section 4 – Results and Discussion**. Presents the groundwater monitoring results and a discussion of the groundwater data.
- **Section 5 – Summary of Findings**. Presents a summary of the groundwater flow, contaminant occurrence, concentrations trends, and plume extent.
- **Section 6 – Recommendations**. Presents recommendations for future monitoring.
- **Section 7 – References**. Lists references used in this report.

The appendices to this document include the following:

**Appendix A –** Technical Memorandum Responding to USEPA June 6, 2014 Comments on the Draft Mid-Year 2013 Semi-Annual Groundwater Monitoring Report

**Appendix B** – Sampling Plans for the Early 2014 Semi-Annual and 2014 Annual Events

**Appendix C** – Encroachment Permits

**Appendix D** – Water Level Data

**Appendix E** – Monitoring Well Purge Forms

**Appendix F** – Laboratory Reports and Chain-of-Custody Forms

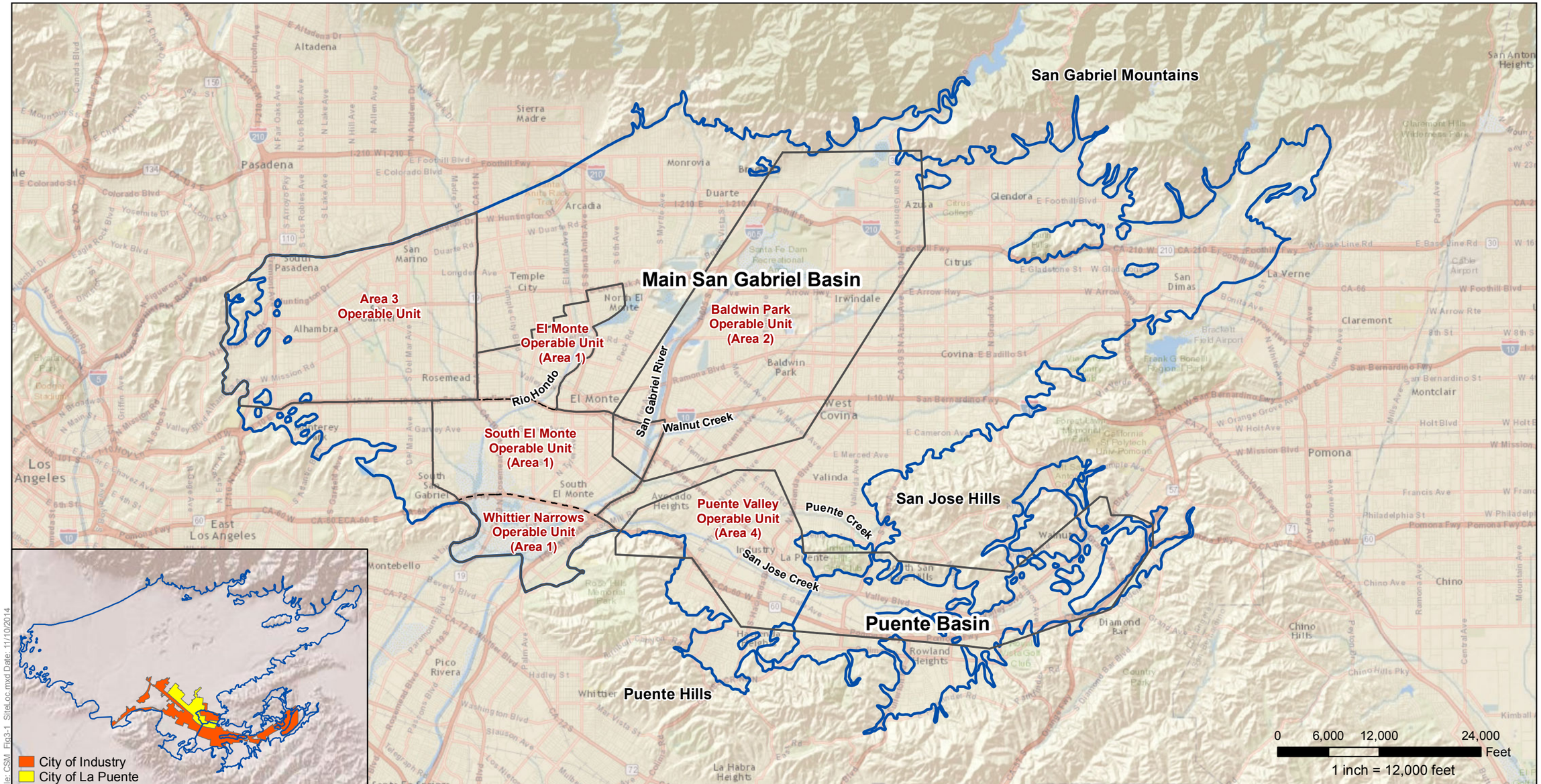
**Appendix G** – Data Validation Reports

**Appendix H** – Hydrographs

**Appendix I** – Time-Series Plots for Selected Compounds

**Appendix J** – Statistical Assessment

**Appendix K** – Pie Chart Figures




File: CSM_Fig3-1_SiteLoc.mxd Date: 11/10/2014

San Gabriel Basin

Operable Unit

Source: EPA San Gabriel Valley Groundwater Cleanup Superfund Progress Report, January 2014

CDM Smith

**Figure 1-1**
**Site Location**

Puente Valley Operable Unit

11/10/2014

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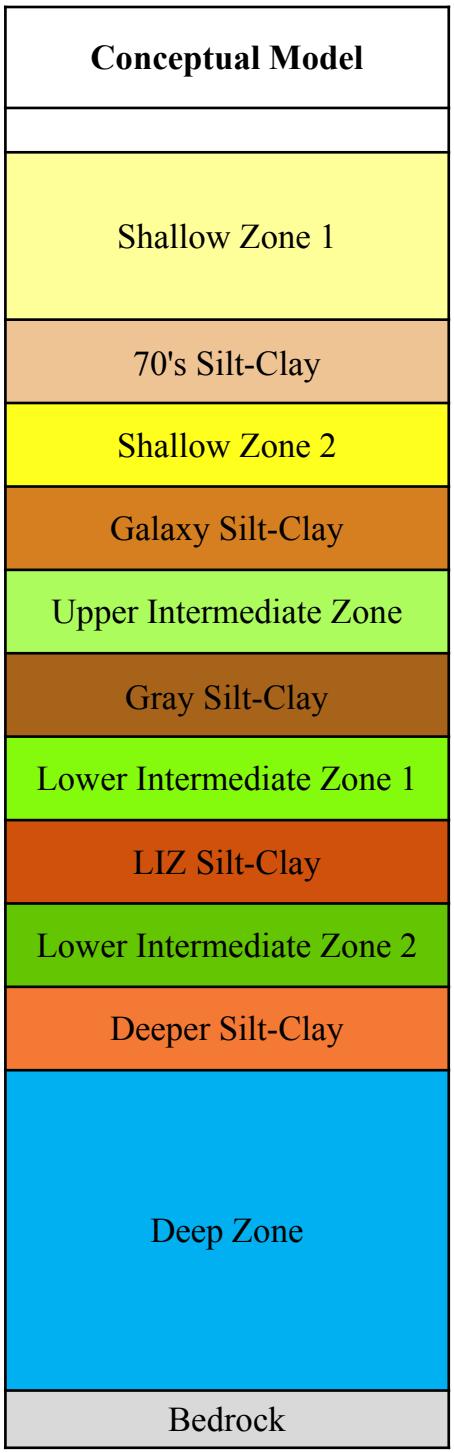


**Conceptual Model Layering**

Puente Valley Operable Unit
California

Geosyntec consultants

**Figure 1-2**

WR1585B | October 2014

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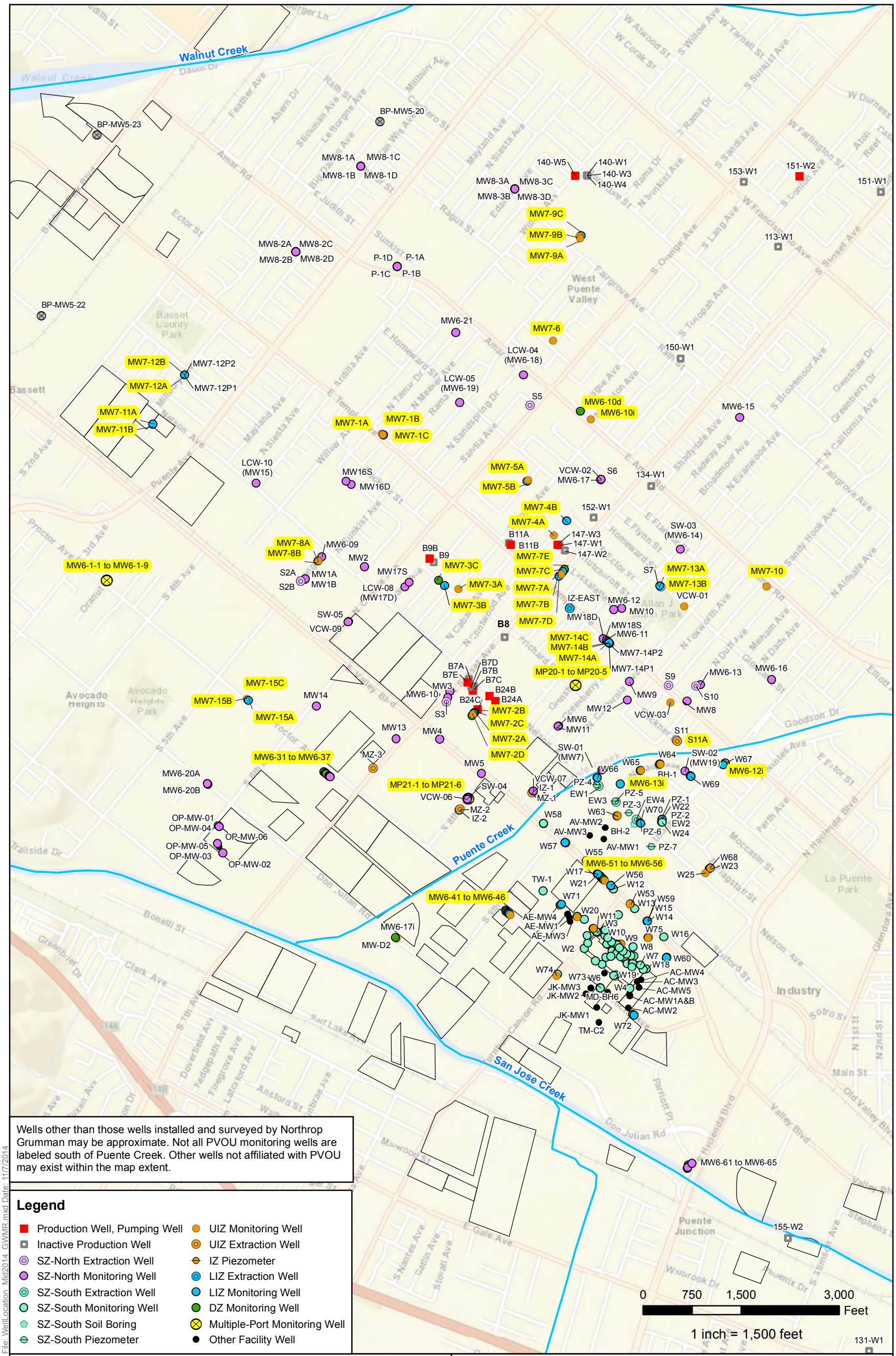



Wells other than those wells installed and surveyed by Northrop Grumman may be approximate. Not all PVOU monitoring wells are labeled south of Puente Creek. Other wells not affiliated with PVOU may exist within the map extent.

## Legend

- Production Well, Pumping Well
- Inactive Production Well
- SZ-North Extraction Well
- SZ-North Monitoring Well
- SZ-South Extraction Well
- SZ-South Monitoring Well
- SZ-South Soil Boring
- SZ-South Piezometer
- UIZ Monitoring Well
- UIZ Extraction Well
- IZ Piezometer
- LIZ Extraction Well
- LIZ Monitoring Well
- DZ Monitoring Well
- Multiple-Port Monitoring Well
- Other Facility Well

- Puente Creek, San Jose Creek, and Walnut Creek
- Potentially Responsible Party Facility
- Yellow highlighting indicates wells that were sampled in July and August 2014 as part of the Intermediate Zone Remedy 2014 Annual Comprehensive Groundwater Monitoring Event.

CDM Smith

# Figure 1-3
# Well Locations

Puente Valley Operable Unit

11/7/2014

N

File: WellLocation_Mid2014_GWMR.mxd Date: 11/7/2014

**Table 1-1**
**Monitoring Well Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well Name | Other Well Names Previously Used | Hydrostratigraphic Unit | Date Well Installation Completed | X-Coord (CA State Plane, NAD83 Zone V, Feet) | Y-Coord (CA State Plane, NAD83 Zone V, Feet) | Reference Elevation (ft MSL) (NAVD88) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | Well Depth (ft bgs) | Total Depth Drilled (ft bgs) | Borehole Diameter (in) | Well Casing Diameter (in) | Screen Type | Screen Slot Size (in) | Casing Material | Filter Pack Grade | Top of Filter Pack (ft bgs) | Bottom of Filter Pack (ft bgs) | Drilling Method | Annular Seal Material | Top of Annular Seal (ft bgs) | Bottom of Annular Seal (ft bgs) | Dedicated Pump | Sampling Purge Method | Sampling as Part of Annual 2014 Monitoring Event | Water Level Monitoring as Part of the Annual 2014 Monitoring Event |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Extraction wells** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| IZ-East | IZ-East | UIZ<br>LIZ1<br>LIZ2 | Aug-2006 | 6571687.31 | 1836819.13 | 307.33 | 288<br>324<br>375 | 310<br>342<br>385 | 395 | 436 | 22 | 10 | Super Flo Shutter | 0.06 | HSLA | 8x16 | 257<br>370 | 357<br>395 | Reverse circ mud rotary | Cement Grout | 5 | 255 | Y | 3-volume purge | **N** | **Y** |
| IZ-1 | IZ-1 | LIZ1<br>LIZ2 | Oct-2006 | 6571118.15 | 1834005.83 | 302.95 | 278<br>348 | 308<br>368 | 378 | 390 | 20 | 8 | SS wire wrap | 0.04 | HSLA | #2/12 | 263 | 376 | Reverse circ mud rotary | Cement Grout | 5 | 258 | Y | 3-volume purge | **N** | **Y** |
| MZ-1 | MZ-1 | UIZ | Nov-2006 | 6571107.11 | 1833993.58 | 303.25 | 180<br>210 | 200<br>220 | 240 | 250 | 20 | 8 | SS wire wrap | 0.04 | HSLA | #3 | 165 | 228 | Reverse circ mud rotary | Cement Grout | 5 | 160 | Y | 3-volume purge | **N** | **Y** |
| IZ-2 | IZ-2 | LIZ1<br>LIZ2 | Sep-2006 | 6569988.87 | 1833731.91 | 297.51 | 305<br>365 | 330<br>385 | 395 | 410 | 22 | 10 | SS wire wrap | 0.04 | HSLA | #3 | 282 | 395 | Reverse circ mud rotary | Cement Grout | 5 | 280 | Y | 3-volume purge | **N** | **Y** |
| MZ-2 | MZ-2 | UIZ | Dec-2006 | 6570003.79 | 1833749.78 | 297.60 | 230 | 255 | 265 | 274 | 22 | 10 | SS wire wrap | 0.04 | HSLA | #3 | 209 | 265 | Reverse circ mud rotary | Cement Grout | 4 | 206 | Y | 3-volume purge | **N** | **Y** |
| MZ-3 | MZ-3 | UIZ | Aug-2007 | 6568676.00 | 1834377.77 | 296.32 | 268 | 308 | 318 | 350 | 20 | 8 | SS wire wrap | 0.04 | HSLA | #2/12 | 250 | 316 | Reverse circ mud rotary | Cement Grout | 5 | 245 | Y | 3-volume purge | **N** | **Y** |
| **Single Completion Monitoring Wells** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW6-10i | MW6-10i | UIZ | Oct-2002 | 6572025.70 | 1839704.01 | 318.61 | 336 | 356 | 361 | 366 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 331 | 366 | Mud rotary | Cement w/ Bentonite | 0 | 331 | N | Low-flow | **Y** | **Y** |
| MW6-10d | MW6-10d | DZ | Nov-2002 | 6571865.38 | 1839820.92 | 319.76 | 539 | 554 | 559 | 562 | 12 | 6 | SS wire wrap | 0.02 | Mild steel | #3 | 533 | 562 | Mud rotary | Cement w/ Bentonite | 0 | 524 | N | Low-flow | **Y** | **Y** |
| MW6-12i | MW6-12i | DZ | Oct-2002 | 6574045.55 | 1834421.72 | 316.77 | 260 | 275 | 280 | 350 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 249 | 300 | Mud rotary | Cement w/ Bentonite | 0 | 249 | N | Low-flow | **Y** | **Y** |
| MW6-13i | MW6-13i | LIZ2 | Nov-2002 | 6572454.41 | 1834122.93 | 311.68 | 246 | 261 | 266 | 370 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 238 | 276 | Mud rotary | Cement w/ Bentonite | 0<br>276 | 238<br>370 | N | Low-flow | **Y** | **Y** |
| MW7-1A | MW6-9i | UIZ | Nov-2002 | 6568830.96 | 1839489.97 | 309.06 | 350 | 370 | 375 | 380 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 345 | 380 | Mud rotary | Cement w/ Bentonite | 0 | 342 | N | Low-flow | **Y** | **Y** |
| MW7-1B | MW6-9UI2 | UIZ | May-2013 | 6568844.73 | 1839477.96 | 309.15 | 380 | 420 | 425 | 430 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 375 | 430 | Mud rotary | 10-sac sand cement slurry | 0 | 370 | N | Low-flow | **Y** | **Y** |
| MW7-1C | MW6-9LI | LIZ1 | May-2013 | 6568852.01 | 1839471.47 | 309.23 | 435 | 450 | 455 | 505 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 430 | 460 | Mud rotary | 10-sac sand cement slurry | 0 | 427 | N | Low-flow | **Y** | **Y** |
| MW7-2A | MW6-22UI | UIZ | Nov-2012 | 6570209.55 | 1835195.53 | 308.52 | 302 | 317 | 322 | 328 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 297 | 328 | Mud rotary | 10-sac sand cement slurry | 0 | 292 | N | Low-flow | **Y** | **Y** |
| MW7-2B | MW6-22LI1 | LIZ1 | Nov-2012 | 6570234.86 | 1835225.31 | 308.36 | 348 | 358 | 363 | 363 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 343 | 363 | Mud rotary | 10-sac sand cement slurry | 0 | 338 | N | Low-flow | **Y** | **Y** |
| MW7-2C | MW6-22LI2 | LIZ2 | Nov-2012 | 6570222.54 | 1835210.42 | 308.52 | 380 | 390 | 395 | 400 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 375 | 400 | Mud rotary | 10-sac sand cement slurry | 0 | 370 | N | Low-flow | **Y** | **Y** |
| MW7-2D | MW6-22D | DZ | Oct-2012 | 6570193.97 | 1835177.98 | 308.54 | 452 | 462 | 467 | 472 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 447 | 472 | Mud rotary | 10-sac sand cement slurry | 0 | 442 | N | Low-flow | **Y** | **Y** |
| MW7-3A | MW6-23UI | UIZ | Jan-2013 | 6569990.26 | 1837115.31 | 305.73 | 338 | 348 | 353 | 358 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 333 | 358 | Mud rotary | 10-sac sand cement slurry | 0 | 328 | N | Low-flow | **Y** | **Y** |
| MW7-3B | MW6-23LI | LIZ2 | Jan-2013 | 6569780.72 | 1837164.13 | 304.57 | 434 | 444 | 449 | 455 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 429 | 455 | Mud rotary | 10-sac sand cement slurry | 0 | 424 | N | Low-flow | **Y** | **Y** |
| MW7-3C | MW6-23D | DZ | Dec-2012 | 6569693.31 | 1837242.70 | 304.38 | 490 | 500 | 505 | 535 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 485 | 505 | Mud rotary | 10-sac sand cement slurry | 0 | 480 | N | Low-flow | **Y** | **Y** |
| MW7-4A | MW6-24UI | UIZ | Jan-2013 | 6571452.97 | 1837927.13 | 313.29 | 320 | 335 | 340 | 345 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 315 | 340 | Mud rotary | 10-sac sand cement slurry | 0 | 310 | N | Low-flow | **Y** | **Y** |
| MW7-4B | MW6-24LI | LIZ1 | Dec-2012 | 6571649.41 | 1838144.68 | 313.62 | 365 | 375 | 380 | 400 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 360 | 380 | Mud rotary | 10-sac sand cement slurry | 0 | 355 | N | Low-flow | **Y** | **Y** |
| MW7-5A | MW6-25UI | UIZ | Mar-2013 | 6571062.34 | 1838774.33 | 312.05 | 338 | 348 | 353 | 358 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 333 | 353 | Mud rotary | 10-sac sand cement slurry | 0 | 328 | N | Low-flow | **Y** | **Y** |
| MW7-5B | MW6-25LI | LIZ1 | Feb-2013 | 6571044.81 | 1838754.79 | 311.98 | 388 | 398 | 403 | 450 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 385 | 403 | Mud rotary | 10-sac sand cement slurry | 0 | 380 | N | Low-flow | **Y** | **Y** |
| MW7-6 | MW6-26UI | UIZ | Mar-2013 | 6571451.09 | 1840905.50 | 320.88 | 362 | 372 | 377 | 445 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 357 | 377 | Mud rotary | 10-sac sand cement slurry | 0 | 350 | N | Low-flow | **Y** | **Y** |
| MW7-7A | MW6-27UI1 | UIZ | May-2013 | 6571562.77 | 1837338.43 | 311.74 | 288 | 308 | 313 | 340 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 283 | 312 | Mud rotary | 10-sac sand cement slurry | 0 | 278 | N | Low-flow | **Y** | **Y** |
| MW7-7B | MW6-27UI2 | UIZ | May-2013 | 6571562.44 | 1837338.76 | 311.77 | 320 | 330 | 335 | 340 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 315 | 340 | Mud rotary | 10-sac sand cement slurry | 0 | 310 | N | Low-flow | **Y** | **Y** |
| MW7-7C | MW6-27LI1 | LIZ1 | May-2013 | 6571590.34 | 1837372.18 | 311.91 | 347 | 362 | 367 | 370 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 342 | 370 | Mud rotary | 10-sac sand cement slurry | 0 | 337 | N | Low-flow | **Y** | **Y** |
| MW7-7D | MW6-27LI2 | Aquitard between LIZ1 and LIZ2 | May-2013 | 6571532.25 | 1837304.99 | 311.75 | 377 | 387 | 392 | 395 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 372 | 395 | Mud rotary | 10-sac sand cement slurry | 0 | 395 | N | Low-flow | **Y** | **Y** |
| MW7-7E | MW6-27D | DZ | Apr-2013 | 6571619.54 | 1837405.94 | 312.11 | 434 | 444 | 449 | 455 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 429 | 455 | Mud rotary | 10-sac sand cement slurry | 0 | 424 | N | Low-flow | **Y** | **Y** |
| MW7-8A | MW6-28UI | UIZ | Aug-2013 | 6567854.67 | 1837552.92 | 301.16 | 340 | 360 | 365 | 370 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 335 | 368 | Mud rotary | 10-sac sand cement slurry | 0 | 330 | N | Low-flow | **Y** | **Y** |
| MW7-8B | MW6-28LI | LIZ2 | Aug-2013 | 6567847.52 | 1837545.31 | 301.18 | 454 | 464 | 469 | 498 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 449 | 469 | Mud rotary | 10-sac sand cement slurry | 0 | 444 | N | Low-flow | **Y** | **Y** |
| MW7-9A | MW6-29UI | UIZ | Aug-2013 | 6571867.38 | 1842468.50 | 330.12 | 365 | 385 | 390 | 395 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 360 | 395 | Mud rotary | 10-sac sand cement slurry | 0 | 355 | N | Low-flow | **Y** | **Y** |
| MW7-9B | MW6-29LI | UIZ | Aug-2013 | 6571861.20 | 1842497.00 | 330.11 | 412 | 432 | 437 | 455 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 407 | 437 | Mud rotary | 10-sac sand cement slurry | 0 | 402 | N | Low-flow | **Y** | **Y** |
| MW7-9C | MW6-29D | LIZ1 | Jul-2013 | 6571886.36 | 1842507.75 | 330.11 | 475 | 490 | 495 | 520 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 470 | 495 | Mud rotary | 10-sac sand cement slurry | 0 | 465 | N | Low-flow | **Y** | **Y** |
| MW7-10 | PMW-6 | UIZ | Oct-2013 | 6574701.61 | 1837141.68 | 321.35 | 258 | 278 | 283 | 425 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 253 | 283 | Mud rotary | 10-sac sand cement slurry | 0 | 248 | N | Low-flow | **Y** | **Y** |
| MW7-11A | PMW-7A | UIZ | Jan-2014 | 6565323.26 | 1839637.82 | 296.43 | 390 | 410 | 415 | 420 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 385 | 420 | Mud rotary | 10-sac sand cement slurry | 0 | 380 | N | Low-flow | **Y** | **Y** |
| MW7-11B | PMW-7B | LIZ1 | Dec-2013 | 6565329.42 | 1839645.43 | 296.36 | 460 | 470 | 475 | 550 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 455 | 480 | Mud rotary | 10-sac sand cement slurry | 0 | 450 | N | Low-flow | **Y** | **Y** |

**Table 1-1**
**Monitoring Well Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well Name | Other Well Names Previously Used | Hydrostratigraphic Unit | Date Well Installation Completed | X-Coord (CA State Plane, NAD83 Zone V, Feet) | Y-Coord (CA State Plane, NAD83 Zone V, Feet) | Reference Elevation (ft MSL) (NAVD88) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | Well Depth (ft bgs) | Total Depth Drilled (ft bgs) | Borehole Diameter (in) | Well Casing Diameter (in) | Screen Type | Screen Slot Size (in) | Casing Material | Filter Pack Grade | Top of Filter Pack (ft bgs) | Bottom of Filter Pack (ft bgs) | Drilling Method | Annular Seal Material | Top of Annular Seal (ft bgs) | Bottom of Annular Seal (ft bgs) | Dedicated Pump | Sampling Purge Method | Sampling as Part of Annual 2014 Monitoring Event | Water Level Monitoring as Part of the Annual 2014 Monitoring Event |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-12A | PMW-8A | UIZ | Jan-2014 | 6565812.48 | 1840388.60 | 300.06 | 390 | 410 | 415 | 415 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 385 | 415 | Mud rotary | 10-sac sand cement slurry | 340 | 380 | N | Low-flow | Y | Y |
| MW7-12B | PMW-8B | LIZ1 | Jan-2014 | 6565817.67 | 1840394.88 | 300.06 | 460 | 470 | 475 | 500 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/16 | 455 | 478 | Mud rotary | 10-sac sand cement slurry | 0 | 450 | N | Low-flow | Y | Y |
| MW7-12P1 | PMW-8A Piezo 1[B] | SZ2 | Jan-2014 | 6565812.48 | 1840388.60 | 300.03 | 295 | 305 | 305.5 | 415 | 12 | 1 | mill slot PVC | 0.01 | Sch 40 PVC | #2/12 | 292 | 307 | Mud rotary | 10-sac sand cement slurry | 0 | 287 | N | Low-flow | N | Y |
| MW7-12P2 | PMW-8A Piezo 2[B] | Aquitard between SZ and UIZ | Jan-2014 | 6565812.16 | 1840388.59 | 300.03 | 332 | 337 | 337.5 | 415 | 12 | 1 | mill slot PVC | 0.01 | Sch 40 PVC | #2/12 | 330 | 340 | Mud rotary | 10-sac sand cement slurry | 307 | 330 | N | Low-flow | N | Y |
| MW7-13A | PMW-5A | UIZ | Mar-2014 | 6573066.67 | 1837157.01 | 317.25 | 303 | 313 | 318 | 320 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 298 | 320 | Mud rotary | 10-sac sand cement slurry | 0 | 293 | N | Low-flow | Y | Y |
| MW7-13B | PMW-5B | LIZ1 | Mar-2014 | 6573073.94 | 1837148.69 | 316.98 | 323 | 333 | 338 | 445 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 318 | 338 | Mud rotary | 10-sac sand cement slurry | 0 | 313 | N | Low-flow | Y | Y |
| MW7-14A | PMW-2A | UIZ | May-2014 | 6572306.74 | 1836267.59 | 312.31 | 270 | 285 | 290 | 300 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 265 | 290 | Mud rotary | 10-sac sand cement slurry | 0 | 260 | N | Low-flow | Y | Y |
| MW7-14B | PMW-2B | LIZ1 | May-2014 | 6572296.97 | 1836275.42 | 312.37 | 306 | 316 | 321 | 324 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 302 | 320 | Mud rotary | 10-sac sand cement slurry | 216 | 247 | N | Low-flow | Y | Y |
| MW7-14C | PMW-2C | LIZ2 | Apr-2014 | 6572287.89 | 1836283.95 | 312.26 | 354 | 364 | 369 | 435 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 349 | 370 | Mud rotary | 10-sac sand cement slurry | 0 | 344 | N | Low-flow | Y | Y |
| MW7-14P1 | PMW-2B Piezo 1[B] | SZ2 | May-2014 | 6572296.97 | 1836275.42 | 312.45 | 210 | 215 | 215.5 | 324 | 12 | 1 | mill slot PVC | 0.01 | Sch 40 PVC | #3 | 208 | 216 | Mud rotary | 10-sac sand cement slurry | 0 | 203 | N | Low-flow | N | Y |
| MW7-14P2 | PMW-2A Piezo 1[B] | Aquitard between the UIZ and LIZ1 | May-2014 | 6572306.74 | 1836267.59 | 312.45 | 295 | 296 | 296.5 | 300 | 12 | 1 | mill slot PVC | 0.01 | Sch 40 PVC | #2/12 | 294 | 298 | Mud rotary | 10-sac sand cement slurry | 290 | 294 | N | Low-flow | N | Y |
| MW7-15A | MW6-16i | UIZ | Dec-2002 | 6566761.60 | 1835431.8 | 295.23 | 304 | 314 | 319 | 360 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 295 | 325 | Mud rotary | Cement w/ Bentonite | 0<br>325 | 295<br>360 | N | Low-flow | Y | Y |
| MW7-15B | "UZ well adjacent to MW6-16i" | UIZ | Jul-2014 | 6566749.80 | 1835442.00 | 295.17 | 332 | 342 | 347 | 350 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 326 | 350 | Mud rotary | 10-sac sand cement slurry | 0 | 320 | N | Low-flow | Y | Y |
| MW7-15C | "LIZ1 proposed well adjacent to MW6-16i" | LIZ1 | Jun-2014 | 6566777.50 | 1835418.70 | 295.24 | 402 | 412 | 417 | 480 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 396.5 | 421 | Mud rotary | 10-sac sand cement slurry | 0 | 392 | N | Low-flow | Y | Y |
| **Westbay Wells** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MP20-1 | MP-20-01 | DZ | Jul-1999 | 6571776.26 | 1835640.00 | 309.25 | 435 | 445 | 470 | 510 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 424 | 445 | Mud rotary | Cement w/ Bentonite | 0 | 58 | Westbay | Westbay | Y | Y |
| MP20-2 | MP-20-02 | LIZ1 | Jul-1999 | 6571776.26 | 1835640.00 | 309.25 | 336.5 | 346.5 | 470 | 510 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 325.5 | 358 | Mud rotary | Cement w/ Bentonite | 0 | 58 | Westbay | Westbay | Y | Y |
| MP20-3 | MP-20-03 | UIZ | Jul-1999 | 6571776.26 | 1835640.00 | 309.25 | 288.5 | 298.5 | 470 | 510 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 274 | 308 | Mud rotary | Cement w/ Bentonite | 0 | 58 | Westbay | Westbay | Y | Y |
| MP21-1 | MP-21-01 | DZ | May-2003 | 6570130.47 | 1833908.19 | 302.12 | 530 | 540 | 560.5 | 593 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 519 | 546 | Air rotary/Mud rotary | 10-sac sand cement slurry | 450<br>546 | 519<br>573 | Westbay | Westbay | N | Y |
| MP21-2 | MP-21-02 | DZ | May-2003 | 6570130.47 | 1833908.19 | 302.12 | 435 | 445 | 560.5 | 593 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 427 | 449 | Air rotary/Mud rotary | 10-sac sand cement slurry | 381 | 424 | Westbay | Westbay | Y | Y |
| MP21-3 | MP-21-03 | LIZ2 | May-2003 | 6570130.47 | 1833908.19 | 302.12 | 365 | 375 | 560.5 | 593 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 356 | 381 | Air rotary/Mud rotary | 10-sac sand cement slurry | 337 | 356 | Westbay | Westbay | Y | Y |
| MP21-4 | MP-21-04 | LIZ1 | May-2003 | 6570130.47 | 1833908.19 | 302.12 | 320 | 330 | 560.5 | 593 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 311 | 337 | Air rotary/Mud rotary | 10-sac sand cement slurry | 261 | 311 | Westbay | Westbay | Y | Y |
| MP21-5 | MP-21-05 | UIZ | May-2003 | 6570130.47 | 1833908.19 | 302.12 | 245 | 255 | 560.5 | 593 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 235 | 261 | Air rotary/Mud rotary | 10-sac sand cement slurry | 166 | 235 | Westbay | Westbay | Y | Y |
| MW6-1-5 | EPAMW6-1-5 | UIZ | Jan-1991 | 6564619.17 | 1837258.09 | 303.26 | 354 | 364 | 827 | 830 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 345 | 375 | Mud rotary | 1:1 Granular Bentonite and Sand | 295 | 345 | Westbay | Westbay | Y | Y |
| MW6-1-6 | EPAMW6-1-6 | LIZ2 | Jan-1991 | 6564619.17 | 1837258.09 | 303.26 | 470 | 480 | 827 | 830 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 462 | 487 | Mud rotary | 1:1 Granular Bentonite and Sand | 375 | 462 | Westbay | Westbay | Y | Y |
| MW6-1-7 | EPAMW6-1-7 | DZ | Jan-1991 | 6564619.17 | 1837258.09 | 303.26 | 594 | 604 | 827 | 830 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 587 | 613 | Mud rotary | 1:1 Granular Bentonite and Sand | 487 | 587 | Westbay | Westbay | Y | Y |
| MW6-1-8 | EPAMW6-1-8 | DZ | Jan-1991 | 6564619.17 | 1837258.09 | 303.26 | 679 | 689 | 827 | 830 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 670 | 698 | Mud rotary | 1:1 Granular Bentonite and Sand | 613 | 670 | Westbay | Westbay | N | Y |
| MW6-1-9 | EPAMW6-1-9 | DZ | Jan-1991 | 6564619.17 | 1837258.09 | 303.26 | 790 | 800 | 827 | 830 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #3 | 783 | 803 | Mud rotary | 1:1 Granular Bentonite and Sand | 698 | 783 | Westbay | Westbay | N | Y |
| **Cluster Wells** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MW6-31 | EPAMW6-31 | DZ | May-1995 | 6567929.34 | 1834321.90 | 296.61 | 1068 | 1083 | 1088 | 1252 | 14.75 | 6 | SS wire wrap | 0.01 | Mild steel | #2/16 | 1058 | 1106 | Mud rotary | Cement w/ Bentonite | 0 | 1058 | Y | 3-volume purge | N | Y |
| MW6-32 | EPAMW6-32 | DZ | May-1995 | 6567944.73 | 1834308.92 | 297.06 | 717 | 727 | 732 | 741 | 14.75 | 6 | SS wire wrap | 0.01 | Mild steel | #2/16 | 703 | 741 | Mud rotary | Cement w/ Bentonite | 0 | 703 | Y | 3-volume purge | N | Y |
| MW6-33 | EPAMW6-33 | LIZ2 | May-1995 | 6567962.29 | 1834295.14 | 296.78 | 475 | 485 | 490 | 495 | 14.75 | 4 | SS wire wrap | 0.01 | Mild steel | #2/16 | 461 | 495 | Mud rotary | Cement w/ Bentonite | 0 | 461 | Y | 3-volume purge | Y | Y |
| MW6-34 | EPAMW6-34 | UIZ | Jun-1995 | 6567974.01 | 1834285.41 | 297.12 | 300 | 310 | 315 | 323 | 14.75 | 4 | SS wire wrap | 0.04 | Mild steel | 8 mesh | 283 | 323 | Mud rotary | Cement w/ Bentonite | 0 | 283 | Y | 3-volume purge | Y | Y |
| MW6-41 | MW6-41 | DZ | Jan-1995 | 6570707.96 | 1832200.18 | 301.27 | 1107 | 1122 | 1127 | 1198 | 14.75 | 6 | SS wire wrap | 0.03 | Mild steel | #80 | 1099 | 1140 | Mud rotary | Cement w/ Bentonite | 0 | 1099 | Y | 3-volume purge | N | Y |
| MW6-42 | MW6-42 | DZ | Feb-1995 | 6570707.14 | 1832200.17 | 301.56 | 660 | 680 | 685 | 690 | 14.75 | 6 | SS wire wrap | 0.01 | Mild steel | #2/16 | 656 | 693 | Mud rotary | Cement w/ Bentonite | 0 | 656 | Y | 3-volume purge | N | Y |
| MW6-43 | MW6-43 | DZ<br>DZ | Feb-1995 | 6570706.80 | 1832180.48 | 301.57 | 424<br>440 | 434<br>450 | 455 | 460 | 12 | 4 | SS wire wrap | 0.03 | Mild steel | #3 | 419 | 462 | Mud rotary | Cement w/ Bentonite | 0 | 419 | Y | 3-volume purge | N | Y |
| MW6-46 | MW6-46 | UIZ | Mar-1995 | 6570770.40 | 1832127.77 | 301.76 | 147 | 162 | 167 | 172 | 12 | 4 | SS wire wrap | 0.03 | Mild steel | 8 mesh | 144 | 167 | Mud rotary | Cement w/ Bentonite | 0 | 144 | Y | 3-volume purge | Y | Y |
| MW6-51 | MW6-51 | DZ | Nov-1994 | 6572144.93 | 1832714.73 | 309.22 | 1063 | 1078 | 1083 | 1171 | 14.75 | 6 | SS wire wrap | 0.03 | Mild steel | #3 | 1055 | 1093 | Mud rotary | Cement w/ Bentonite | 0 | 1055 | Y | 3-volume purge | N | Y |
| MW6-52 | MW6-52 | DZ | Dec-1994 | 6572159.45 | 1832700.10 | 309.36 | 876 | 896 | 901 | 906 | 14.75 | 6 | SS wire wrap | 0.03 | Mild steel | #3 | 871 | 912 | Mud rotary | Cement w/ Bentonite | 0 | 871 | Y | 3-volume purge | N | Y |
| MW6-53 | MW6-53 | DZ | Dec-1994 | 6572173.73 | 1832686.29 | 309.44 | 578 | 598 | 603 | 608 | 14.75 | 6 | SS wire wrap | 0.04 | Mild steel | 8 mesh | 572 | 610 | Mud rotary | Cement w/ Bentonite | 0 | 572 | Y | 3-volume purge | N | Y |

**Table 1-1**
**Monitoring Well Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well Name | Other Well Names Previously Used | Hydrostratigraphic Unit | Date Well Installation Completed | X-Coord (CA State Plane, NAD83 Zone V, Feet) | Y-Coord (CA State Plane, NAD83 Zone V, Feet) | Reference Elevation (ft MSL) (NAVD88) | Top of Screen (ft bgs) | Bottom of Screen (ft bgs) | Well Depth (ft bgs) | Total Depth Drilled (ft bgs) | Borehole Diameter (in) | Well Casing Diameter (in) | Screen Type | Screen Slot Size (in) | Casing Material | Filter Pack Grade | Top of Filter Pack (ft bgs) | Bottom of Filter Pack (ft bgs) | Drilling Method | Annular Seal Material | Top of Annular Seal (ft bgs) | Bottom of Annular Seal (ft bgs) | Dedicated Pump | Sampling Purge Method | Sampling as Part of Annual 2014 Monitoring Event | Water Level Monitoring as Part of the Annual 2014 Monitoring Event |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW6-54 | MW6-54 | DZ | Jan-1995 | 6572188.44 | 1832672.49 | 309.37 | 324 | 344 | 349 | 354 | 12 | 4 | SS wire wrap | 0.02 | Mild steel | #2/12 | 318.9 | 355 | Mud rotary | Cement w/ Bentonite | 0 | 318.9 | Y | 3-volume purge | **N** | **Y** |
| MW6-55 | MW6-55 | DZ | Jan-1995 | 6572203.01 | 1832659.50 | 309.37 | 250 | 265 | 270 | 270 | 12 | 4 | SS wire wrap | 0.01 | Mild steel | #2/16 | 243 | 273 | Mud rotary | Cement w/ Bentonite | 0 | 243 | Y | 3-volume purge | **Y** | **Y** |
| MW6-56 | MW6-56 | UIZ | Feb-1995 | 6572218.04 | 1832645.70 | 309.51 | 120 | 130 | 135 | 140 | 10 | 4 | SS wire wrap | 0.03 | Mild steel | #3 | 140 | 113 | HSA | Cement w/ Bentonite | 0 | 140 | Y | 3-volume purge | **Y** | **Y** |
| **Other Groundwater Monitoring Wells** | | | | | | | | | | | | | | | | | | | | | | | | | | |
| S-11A | S11A | UIZ | Sep-2007 | 6573325.90 | 1834784.89 | 311.73 | 190 | 220 | 225 | 230 | 14 | 6 | SS wire wrap | 0.035 | Copper bearing steel | #3 | 185 | 230 | Mud Rotary | Bentonite-cement-sand grout | 0 | 181 | N | Low-flow | **Y** | **Y** |

Notes:
[A] - Top of casing elevations surveyed to the North American Vertical Datum of 1988 (NAVD88) Los Angeles County 2005 Adjustment.
[B] - The 1-inch diameter piezometers were installed as nested wells within the same borehole as the 4-inch diameter monitoring well.
NAD83 - North American Datum 83
ft bgs - feet below ground surface
ft MSL - feet above Mean Sea Level
in - inches
UIZ - Upper Intermediate Zone
LIZ1 - Lower Intermediate Zone 1
LIZ2 - Lower Intermediate Zone 2
DZ - Deep Zone
SZ2 - Bottom of the Shallow Zone
SS - Stainless steel
PVC - Polyvinyl chloride
NA - Not applicable
HSA - Hollow Stem Auger
Y - Yes
N - No
HSLA - High strength low alloy

**Table 1-2**
**Groundwater Sampling Matrix**
**2014 Annual Comprehensive Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well Name | Other Well Names Previously Used | Screened Interval | | Sample/Purge Method | Parameter/Analytical Method | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOCs | VOCs | VOCs SIM* | 1,2-Dibromoethane (EDB) 1,2-Dibromo-3-Chloropropane (DBCP) | 1,4-Dioxane | SVOCs | Perchlorate | Metals (dissolved)[1] | nitrosamines[2] | TPH (gasoline, diesel, jet fuel A) | Nitrate as NO3- nitrite+nitrate (as N) and nitrite (as N) | TDS | 1,2,3-Trichloropropane | Hexavalent Chromium | Boron (dissolved) | Chloride and Sulfate |
| | | Top (ft bgs) | Bottom (ft bgs) | | USEPA Method 524.2 (w/TICs) | 1666 (IPA only) | USEPA Method 524.2 SIM | USEPA Method 504.1 | USEPA Method 8270 SIM | USEPA Method 525.2 (w/TICs) | USEPA Method 331 | USEPA Method 200.8 (245.1 for mercury) | USEPA Method 1625M | USEPA Method 8015M | USEPA Method 353.2 | Standard Method 2540C | CDPH Method | USEPA Method 218.7 | USEPA Method 200.8 | USEPA Method 300.0 |
| | | | | CONTAINER TYPE | VOA VIAL | VOA VIAL | VOA VIAL | VOA VIAL | GLASS AMBER | GLASS AMBER | POLYETHYLENE (Sterile after field filtering) | POLYETHYLENE (field filtered to 0.45 µm prior to preservative) | GLASS AMBER | GLASS AMBER | POLYETHYLENE | POLYETHYLENE | AMBER VOA VIAL | POLYETHYLENE | POLYETHYLENE | POLYETHYLENE |
| | | | | PRESERVATIVES | HCl Chill to 6 °C | HCl Chill to 6 °C | HCl Chill to 6 °C | No preservative or Thiosulfate Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Chill to 6 °C | HNO3 Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Buffer Preservative Chill to 6 °C | HNO3 Chill to 6 °C | Chill to 6 °C |
| | | | | ANALYTICAL HOLDING TIMES | < 14 DAYS | < 14 DAYS | < 14 DAYS | < 14 DAYS | 7 DAYS | 14 DAYS | 28 DAYS | 28 DAYS | 14 DAYS | 7 DAYS | <2 DAYS | 7 DAYS | 14 DAYS | 14 DAYS | 28 DAYS | 28 DAYS |
| | | | | NO. BOTTLES PER ANALYSIS | (2) - 40 mL | (2) - 40 mL | (2) - 40 mL | (2) - 40 mL | (2) - 1000 mL | (2) - 1000 mL | (1) - 250 mL | (1) - 250 mL | (2) - 500 mL | (2) - 1000 mL and (1) 40 mL VOA | (1) - 250 mL | (1) - 500 mL | (2) - 40 mL | (1) - 250 mL | (1) - 250 mL | (1) - 250 mL |
| **Single Completion Monitoring Wells** | | | | | | | | | | | | | | | | | | | | |
| MW6-10i | MW6-10i | 336 | 356 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-10d | MW6-10d | 539 | 554 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-12i | MW6-12i | 260 | 275 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-13i | MW6-13i | 246 | 261 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW7-1A | MW6-9i | 350 | 370 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW7-1B | MW6-9UI2 | 380 | 420 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-1C | MW6-9LI | 435 | 450 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-2A | MW6-22UI | 302 | 317 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-2B | MW6-22LI1 | 348 | 358 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-2C | MW6-22LI2 | 380 | 390 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-2D | MW6-22D | 452 | 462 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-3A | MW6-23UI | 338 | 348 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-3B | MW6-23LI | 434 | 444 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-3C | MW6-23D | 490 | 500 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-4A | MW6-24UI | 320 | 335 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-4B | MW6-24LI | 365 | 375 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-5A | MW6-25UI | 338 | 348 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-5B | MW6-25LI | 388 | 398 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-6 | MW6-26UI | 362 | 372 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7A | MW6-27UI1 | 288 | 308 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7B | MW6-27UI2 | 320 | 330 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7C | MW6-27LI1 | 347 | 362 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7D | MW6-27LI2 | 377 | 387 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7E | MW6-27D | 434 | 444 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-8A | MW6-28UI | 340 | 360 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-8B | MW6-28LI | 454 | 464 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-9A | MW6-29UI | 365 | 385 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-9B | MW6-29LI | 412 | 432 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-9C | MW6-29D | 475 | 490 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-10 | PMW-6 | 258 | 278 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-11A | PMW-7A | 390 | 410 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-11B | PMW-7B | 460 | 470 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-12A | PMW-8A | 390 | 410 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-12B | PMW-8B | 460 | 470 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-13A | PMW-5A | 303 | 313 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-13B | PMW-5B | 323 | 333 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-14A | PMW-2A | 270 | 285 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-14B | PMW-2B | 306 | 316 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-14C | PMW-2C | 354 | 364 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**Table 1-2**
**Groundwater Sampling Matrix**
**2014 Annual Comprehensive Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well Name | Other Well Names Previously Used | Screened Interval | | Sample/Purge Method | Parameter/Analytical Method | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | VOCs | VOCs | VOCs SIM* | 1,2-Dibromoethane (EDB) 1,2-Dibromo-3-Chloropropane (DBCP) | 1,4-Dioxane | SVOCs | Perchlorate | Metals (dissolved)[1] | nitrosamines[2] | TPH (gasoline, diesel, jet fuel A) | Nitrate as $NO_3^-$ nitrite+nitrate (as N) and nitrite (as N) | TDS | 1,2,3-Trichloropropane | Hexavalent Chromium | Boron (dissolved) | Chloride and Sulfate |
| | | Top (ft bgs) | Bottom (ft bgs) | | USEPA Method 524.2 (w/TICs) | 1666 (IPA only) | USEPA Method 524.2 SIM | USEPA Method 504.1 | USEPA Method 8270 SIM | USEPA Method 525.2 (w/TICs) | USEPA Method 331 | USEPA Method 200.8 (245.1 for mercury) | USEPA Method 1625M | USEPA Method 8015M | USEPA Method 353.2 | Standard Method 2540C | CDPH Method | USEPA Method 218.7 | USEPA Method 200.8 | USEPA Method 300.0 |
| MW7-15A | MW6-16i | 304 | 314 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW7-15B | "UZ well adjacent to MW6-16i" | 332 | 342 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-15C | "LIZ1 proposed well adjacent to MW6-16i" | 402 | 412 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| **Other Groundwater Monitoring Wells** | | | | | | | | | | | | | | | | | | | | |
| S11A | S11A | 190 | 220 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| **Westbay Wells** | | | | | | | | | | | | | | | | | | | | |
| MP20-1 | MP-20-01 | 435 | 445 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MP20-2 | MP-20-02 | 336.5 | 346.5 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MP20-3 | MP-20-03 | 288.5 | 298.5 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MP21-2 | MP-21-02 | 435 | 445 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MP21-3 | MP-21-03 | 365 | 375 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MP21-4 | MP-21-04 | 320 | 330 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MP21-5 | MP-21-05 | 245 | 255 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-1-5 | MW6-1-5 | 354 | 364 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-1-6 | MW6-1-6 | 470 | 480 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-1-7 | MW6-1-7 | 594 | 604 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| **Cluster Wells** | | | | | | | | | | | | | | | | | | | | |
| MW6-33 | MW6-33 | 475 | 485 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-34 | MW6-34 | 300 | 310 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-46 | MW6-46 | 147 | 162 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-55 | MW6-55 | 250 | 265 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| MW6-56 | MW6-56 | 120 | 130 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| **QA/QC Samples** | | | | | | | | | | | | | | | | | | | | |
| Subtotal of Well Samples Listed Above | | | | | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 36 | 58 | 58 | 58 | 58 | 36 | 36 |
| Trip Blanks (one per day and/or per cooler) | | | | | 41 | | | | | | | | | | | | | | | |
| Equipment Rinseate Blanks (20% of 42 single completion wells and 1 EB for Westbay wells): wells MW7-1A, MW7-1B, MW7-7A, MW7-7C, MW7-9A, MW7-11B, MW7-12B, MW7-13A, MW7-15C and MP-21-3) | | | | | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 7 | 10 | 10 | 10 | 10 | 7 | 7 |
| Duplicates (10% of total number of samples: MW7-2A, MW7-6, MW7-9B, MW7-10, and MW6-46) | | | | | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 4 | 5 | 5 | 5 | 5 | 4 | 4 |
| Matrix Spike/Matrix Spike Duplicate Sample (at MW7-2D, MW7-4A and MW7-13B) | | | | | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 |
| **Total Number of Samples** | | | | | **117** | **76** | **76** | **76** | **76** | **76** | **76** | **76** | **76** | **50** | **76** | **76** | **76** | **76** | **50** | **50** |

Notes:

CDPH - California Department of Public Health
VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
TICs = tentatively identified compounds in accordance with CDPH requirements
NDMA = n-nitrosodimethylamine
SIM = Selective Ion Monitoring
HCl = Hydrochloric acid
$HNO_3$ = Nitric Acid
IPA = Isopropyl Alcohol

VOA = Volatile Organic Analysis
USEPA = United States Environmental Protection Agency
ft bgs = feet below ground surface
ml = milliliters
The "1" represents that a sample will be collected from that well for that analysis
* SIM analysis will be performed to achieve lower reporting limits for 1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 1,2-Dibromoethane, 1,2-Dichloroethane, Carbon tetrachloride, Dibromochloromethane, Di-isopropyl ether
[1] Dissolved metals will include aluminum, antimony, arsenic, barium, beryllium, cadmium, chromium, copper, lead, iron, molybdenum, manganese, mercury, nickel, selenium, silver, thallium, vanadium, and zinc.
[2] Nitrosamines analysis will include N-nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA) and N-nitroso-n-propylamine (NDPA)

**Table 1-3**
**Groundwater Sampling Matrix**
**Early 2014 Semi-Annual Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| | | | | | Parameter/Analytical Method | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Well Name | Other Well Names Previously Used | Screened Interval | | Sample/Purge Method | VOCs | VOCs SIM* | 1,2 Dibromoethane (EDB) 1,2 Dibromo-3-Chloropropane (DBCP) | 1,4-Dioxane | SVOCs | Perchlorate | Metals (dissolved) | NDMA | TPH (gasoline, diesel, jet fuel A) | Nitrate as $NO_3$ | Total Dissolved Solids (TDS) | 1,2,3-Trichloropropane | Hexavalent Chromium | Boron (dissolved) | Chloride and Sulfate |
| | | Top (ft bgs) | Bottom (ft bgs) | | USEPA Method 524.2 (w/TICs) | USEPA Method 524.2 SIM | USEPA Method 504.1 | USEPA Method 8270 SIM | USEPA Method 525.2 (w/TICs) | USEPA Method 331 | USEPA Method 200.8 (245.1 for mercury) | USEPA Method 1625M | USEPA Method 8015M | USEPA Method 353.2 | Standard Method 2540C | CDPH Method | USEPA Method 218.7 | USEPA Method 200.8 | USEPA Method 300.0 |
| | | | | Container Type | VOA VIAL | VOA VIAL | VOA VIAL | GLASS AMBER | GLASS AMBER | POLYETHYLENE (Sterile after field filtering) | POLYETHYLENE (field filtered to 0.45 µm prior to preservative) | GLASS AMBER | GLASS AMBER | POLYETHYLENE | POLYETHYLENE | AMBER VOA VIAL | POLYETHYLENE | POLYETHYLENE | POLYETHYLENE |
| | | | | PRESERVATIVES | HCl Chill to 6 °C | HCl Chill to 6 °C | No preservative or Thiosulfate Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Chill to 6 °C | HNO3 Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Buffer Preservative Chill to 6 oC | HNO3 Chill to 6 °C | Chill to 6 °C |
| | | | | Analytical Holding Times | < 14 DAYS | < 14 DAYS | < 14 DAYS | 7 DAYS | 14 DAYS | 28 DAYS | 28 DAYS | 14 DAYS | 7 DAYS | <2 DAYS | 7 DAYS | 14 DAYS | 14 DAYS | 28 DAYS | 28 DAYS |
| | | | | No. Bottles Per Analysis | (3) - 40 mL | (3) - 40 mL | (2) - 40 mL | (2) - 1000 mL | (2) - 1000 mL | (1) - 250 mL | (1) - 250 mL | (2) - 500 mL | (1) - 1000 mL | (1) - 250 mL | (1) - 500 mL | (2) - 40 mL | (1) - 250 mL | (1) - 250 mL | (1) - 250 mL |
| Single Completion Monitoring Wells | | | | | | | | | | | | | | | | | | | |
| MW7-1A | MW6-9i | 350 | 370 | HydraSleeve™ | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | | | |
| MW6-10i | MW6-10i | 336 | 356 | HydraSleeve | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | | | |
| MW6-10d | MW6-10d | 539 | 554 | HydraSleeve | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | | | | 1 | | | |
| MW6-12i | MW6-12i | 260 | 275 | HydraSleeve | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW6-13i | MW6-13i | 246 | 261 | HydraSleeve | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW7-15A | MW6-16i | 304 | 314 | HydraSleeve | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| Other Groundwater Monitoring Wells | | | | | | | | | | | | | | | | | | | |
| S11A | S11A | 190 | 220 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | | 1 | 1 | 1 | 1 | | |
| Newly Installed Monitoring Wells | | | | | | | | | | | | | | | | | | | |
| MW7-1B | MW6-9UI2 | 380 | 420 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-1C | MW6-9LI | 435 | 450 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-2A | MW6-22UI | 302 | 317 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-2B | MW6-22LI1 | 348 | 358 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-2C | MW6-22LI2 | 380 | 390 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-2D | MW6-22D | 452 | 462 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-3A | MW6-23UI | 338 | 348 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-3B | MW6-23LI | 434 | 444 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-3C | MW6-23D | 490 | 500 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-4A | MW6-24UI | 320 | 335 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-4B | MW6-24LI | 365 | 375 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-5A | MW6-25UI | 338 | 348 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-5B | MW6-25LI | 388 | 398 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-6 | MW6-26UI | 362 | 372 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7A | MW6-27UI1 | 288 | 308 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7B | MW6-27UI2 | 320 | 330 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7C | MW6-27LI1 | 347 | 362 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7D | MW6-27LI2 | 377 | 387 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-7E | MW6-27D | 434 | 444 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-8A | MW6-28UI | 340 | 360 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-8B | MW6-28LI | 454 | 464 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-9A | MW6-29UI | 365 | 385 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-9B | MW6-29LI | 412 | 432 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-9C | MW6-29D | 475 | 490 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-10 | PMW-6 | 258 | 278 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-11A | PMW-7A | 390 | 410 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-11B | PMW-7B | 460 | 470 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

**Table 1-3**
**Groundwater Sampling Matrix**
**Early 2014 Semi-Annual Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well Name | Other Well Names Previously Used | Screened Interval | | Sample/Purge Method | VOCs | VOCs SIM* | 1,2 Dibromoethane (EDB) 1,2 Dibromo-3-Chloropropane (DBCP) | 1,4-Dioxane | SVOCs | Perchlorate | Metals (dissolved) | NDMA | TPH (gasoline, diesel, jet fuel A) | Nitrate as $NO_3$ | Total Dissolved Solids (TDS) | 1,2,3-Trichloropropane | Hexavalent Chromium | Boron (dissolved) | Chloride and Sulfate |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Top (ft bgs) | Bottom (ft bgs) | | USEPA Method 524.2 (w/TICs) | USEPA Method 524.2 SIM | USEPA Method 504.1 | USEPA Method 8270 SIM | USEPA Method 525.2 (w/TICs) | USEPA Method 331 | USEPA Method 200.8 (245.1 for mercury) | USEPA Method 1625M | USEPA Method 8015M | USEPA Method 353.2 | Standard Method 2540C | CDPH Method | USEPA Method 218.7 | USEPA Method 200.8 | USEPA Method 300.0 |
| | | | | Container Type | VOA VIAL | VOA VIAL | VOA VIAL | GLASS AMBER | GLASS AMBER | POLYETHYLENE (Sterile after field filtering) | POLYETHYLENE (field filtered to 0.45 µm prior to preservative) | GLASS AMBER | GLASS AMBER | POLYETHYLENE | POLYETHYLENE | AMBER VOA VIAL | POLYETHYLENE | POLYETHYLENE | POLYETHYLENE |
| | | | | PRESERVATIVES | HCl Chill to 6 °C | HCl Chill to 6 °C | No preservative or Thiosulfate Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Chill to 6 °C | HNO3 Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Chill to 6 °C | Chill to 6 °C | HCl Chill to 6 °C | Buffer Preservative Chill to 6 oC | HNO3 Chill to 6 °C | Chill to 6 °C |
| | | | | Analytical Holding Times | < 14 DAYS | < 14 DAYS | < 14 DAYS | 7 DAYS | 14 DAYS | 28 DAYS | 28 DAYS | 14 DAYS | 7 DAYS | <2 DAYS | 7 DAYS | 14 DAYS | 14 DAYS | 28 DAYS | 28 DAYS |
| | | | | No. Bottles Per Analysis | (3) - 40 mL | (3) - 40 mL | (2) - 40 mL | (2) - 1000 mL | (2) - 1000 mL | (1) - 250 mL | (1) - 250 mL | (2) - 500 mL | (1) - 1000 mL | (1) - 250 mL | (1) - 500 mL | (2) - 40 mL | (1) - 250 mL | (1) - 250 mL | (1) - 250 mL |
| MW7-12A | PMW-8A | 390 | 410 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-12B | PMW-8B | 460 | 470 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-13A | PMW-5A | 303 | 313 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MW7-13B | PMW-5B | 323 | 333 | Low flow | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Westbay Wells | | | | | | | | | | | | | | | | | | | |
| MP20-2 | MP-20-02 | 336.5 | 346.5 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MP20-3 | MP-20-03 | 288.5 | 298.5 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MP21-3 | MP-21-03 | 365 | 375 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MP21-4 | MP-21-04 | 320 | 330 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MP21-5 | MP-21-05 | 245 | 255 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW6-1-5 | MW6-1-5 | 354 | 364 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW6-1-6 | MW6-1-6 | 470 | 480 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW6-1-7 | MW6-1-7 | 594 | 604 | Westbay | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| Cluster Wells | | | | | | | | | | | | | | | | | | | |
| MW6-33 | EPAMW6-33 | 475 | 485 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW6-34 | EPAMW6-34 | 300 | 310 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW6-46 | EPAMW6-46 | 147 | 162 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW6-55 | EPAMW6-55 | 250 | 265 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| MW6-56 | EPAMW6-56 | 120 | 130 | 3-volume purge (with dedicated pump) | 1 | 1 | 1 | 1 | 1 | 1 | | | | | | 1 | | | |
| QA/QC Samples | | | | | | | | | | | | | | | | | | | |
| Subtotal of Well Samples Listed Above | | | | | 51 | 51 | 51 | 51 | 51 | 51 | 32 | 35 | 31 | 32 | 32 | 51 | 32 | 31 | 31 |
| Trip Blanks (one per cooler per day) | | | | | 18 | 18 | 18 | | | | | | | | | | | | |
| Equipment Rinseate Blanks (20% of newly installed wells and during sampling of the Westbay wells. Collected at MW6-22D, PMW-8A, MW6-27LI1, MW6-24LI, MW6-29UI, and MP-21-03) | | | | | 6 | 6 | 6 | 6 | 6 | 6 | 5 | 5 | 5 | 5 | 5 | 6 | 5 | 5 | 5 |
| Duplicates (10% of total number of samples. Collected at MW6-27LI2, MW6-26UI, MW6-22UI, PMW6, and MW6-34) | | | | | 5 | 5 | 5 | 5 | 5 | 5 | 3 | 3 | 3 | 3 | 3 | 5 | 3 | 3 | 3 |
| Matrix Spike/Matrix Spike Duplicate Sample (at MW6-27UI1 and MW6-23D) | | | | | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 |
| Total Number of Samples | | | | | 82 | 82 | 82 | 64 | 64 | 64 | 42 | 45 | 41 | 42 | 42 | 64 | 42 | 41 | 41 |

Notes:
CDPH = California Department of Public Health
VOCs = volatile organic compounds
SVOCs = semi-volatile organic compounds
TICs = tentatively identified compounds in accordance with CDPH requirements
NDMA = n-nitrosodimethylamine
SIM = Selective Ion Monitoring
HCl = Hydrochloric acid
$HNO_3$ = Nitric Acid
VOA = Volatile Organic Analysis
USEPA = United States Environmental Protection Agency
ft bgs = feet below ground surface
ml = milliliters
The "1" represents that a sample will be collected from that well for that analysis
* SIM analysis will be performed to achieve lower reporting limits for 1,1,2,2-Tetrachloroethane, 1,1-Dichloroethene, 1,2-Dibromoethane, 1,2-Dichloroethane, Carbon tetrachloride, Dibromochloromethane, Di-isopropyl ether
Isopropyl Alcohol, was analyzed by EPA 1666A and not EPA 524.5

# Section 2
# Sampling Approach

The Early 2014 Semi-Annual and 2014 Annual Events were conducted in February and March 2014, and August 2014 respectively, in accordance with the USEPA sampling plans (Appendix B) and the Revised Sampling and Analysis Plan (SAP) submitted to USEPA on November 15, 2013 (CDM Smith, 2013b).

Encroachment permits for this sampling event were obtained from the City of Industry, the City of La Puente, and the County of Los Angeles. Copies of the permits are provided in Appendix C.

## 2.1 Water Level Measurements

On March 13, 2014 and August 26 and 27, 2014, CDM Smith measured water levels at the IZ wells shown in Table 2-1 for the Early 2014 Semi-Annual and 2014 Annual Events, respectively. The groundwater level measurements were completed concurrent with water level monitoring for both the SZ-South (by Orion Environmental) and SZ-North (by UTC/Carrier) wells. As a matter of practicality and in coordination with the SZ-North Remedy, CDM Smith measured water levels at all ports in Westbay wells MP-20, MP-21, and MW6-1.

With the exception of the Westbay wells, water levels for the IZ Remedy were measured using a battery-operated water level indicator. Groundwater levels were measured from the top of casing reference point on each well. Measurement of water levels at the Westbay wells MP-20, MP-21, and MW6-1, required use of specialized equipment to gauge pressure at each port, and the piezometric head was calculated by the difference in pressure measurements both inside and outside the specific port. Table 2-1 contains a summary of water level measurements for the 2014 Annual Event monitoring event and all previous monitoring events. The field logs with the water level data for this sampling event are presented in Appendix D.

## 2.2 Groundwater Sample Collection Methods

Samples were collected using several different methods, which are discussed in this section. The methods used to sample the wells during the Early 2014 Semi-Annual Event are summarized in the June 2014 monitoring report (CDM Smith, 2014b).

### Purging and Sampling Procedures

#### Cluster Wells by Three-Volume Purge Techniques

Wells MW6-33, MW6-34, MW6-46, MW6-55, and MW6-56 have dedicated sampling pumps that operate at a single flow rate between three and nine gallons per minute (gpm). Pursuant to the sampling plan (Appendix B) and consistent with previous sampling events, a minimum of three well volumes were purged from each well prior to sample collection. A tee was attached to the discharge pipe of each well to allow for monitoring of field parameters and collection of groundwater samples. The discharge end of the tee was attached to a hose that discharged to a temporary storage tank and a ball-valve was attached to the sampling port of the tee, allowing for reduction of flow for sampling. The pumping rate was measured by periodically timing the flow of water from the discharged end of the tee as it filled a five-gallon bucket. These measurements were recorded on the field data collection forms included in Appendix E. Field parameters were measured during purging using a flow-through

cell connected to the sampling port of the tee. During purging, the pumping rate, electrical conductivity (EC), pH, dissolved oxygen (DO), oxidation-reduction potential (ORP), turbidity, and temperature were monitored and allowed to stabilize prior to sample collection. Stabilization is achieved when three successive measurements are within the following limits:

- Turbidity (10% for values greater than 5 Nephelometric Turbidity Units (NTUs); if three turbidity values are less than 5 NTUs, the parameter is considered to have stabilized),
- DO (10% for values greater than 0.5 milligrams per liter (mg/L); if three DO readings are less than 0.5 mg/L, the parameter is considered to have stabilized),
- EC (3%)
- pH (± 0.1 unit)
- ORP (± 10 millivolts)

After field parameters had stabilized, samples were collected directly from the sampling port of the tee. For collection of samples for dissolved metals, a disposable 0.45 micron water filter was attached directly to the sampling port on the tee to filter out particulates prior to entering the sample bottles.

### Wells by Low-Flow Purge Methods

Single-completion monitoring wells that were not equipped with dedicated submersible pumps were sampled by low-flow purge methods using a bladder pump. The bladder pump was installed in the well with tubing extending the pump inlet to the midpoint of the well screen. Dedicated polyethylene tubing used with the bladder pumps is dedicated to each well. Following sampling, the tubing is placed in plastic bags that are secured and labeled with well ID. The bagged tubing is stored at the sampling subcontractor's facility until the next sampling event.

Field parameters (temperature, pH, turbidity, EC, DO, and ORP) were monitored, using a flow-through cell, during the purging activities until the parameters stabilized (see stabilization criteria in preceding subsection) and the parameters were recorded on the field data collection form (Appendix E). The wells were also monitored to confirm that water levels exhibited little to no drawdown during low-flow purging. After the field parameters had stabilized, samples were collected directly from the end of the pump discharge line. The 0.45 micron filter was attached directly to the discharge tubing to filter water being collected for dissolved metals analysis.

### Westbay Wells using Westbay Sampling Techniques

Wells MW6-1, MP-20 and MP-21 are Westbay wells that do not require purging prior to sampling. The sampling procedures for these wells are described in the sampling plan (Appendix B). At each port, four 0.25-liter, stainless steel bottles (Westbay bottles) were connected in series with hoses and attached to the Westbay sampling probe. At the surface, the Westbay bottles were evacuated with a vacuum pump. The probe and Westbay bottles were then lowered with an electric winch to the sampling port adjacent to the screened zone and formation. Activation of the probe was achieved by using a controller at the ground surface, which was connected by a wire to the winch cable. The winch has a depth counter and a magnetic collar that attaches to the multiport casing three feet below the sampling port. While lowering the probe, the magnetic collar was detected and an audible alarm was sounded at the surface, at which time the winch was stopped. The probe was lifted and then slowly seated in a groove at the sampling port. A piston extended from the probe and pushed against the

multiport casing, forcing an o-ring and smaller piston on the tool to align, seal, and open a valve on the sampling port. A valve in the probe was opened and the negative pressure in the Westbay bottles allowed formation water to flow from outside the multiport system. The valve was closed and the tool was returned to the surface.

The water first collected was used only to rinse the Westbay bottles and to measure field parameters (temperature, EC, pH, and turbidity). These measurements were recorded on the field data collection forms. The water from subsequent downhole trips was used to fill the appropriate laboratory-supplied sample containers and submitted for laboratory analysis. Samples for metals analyses were filtered in the field using a 0.45 micron filter. The filter is attached to the bottom of a disposable bailer and the sample water is poured into the bailer and then passes through the filter and into the sample bottle. Before collecting samples from the next multiport zone, the Westbay bottles and probe were decontaminated by a triple rinse in detergent water, tap water, and distilled water. The probe also measured the pressure exerted from the formation through the sampling port, allowing for calculation of the piezometric head at each port. Copies of the field data collection forms for all wells are included in Appendix E.

## 2.3 Sample Analyses, Analytical Methods, and Laboratory Assignments

The following sections describe the analyses for wells for the 2014 Annual and Early 2014 Semi-Annual Events. The analyses were completed by Weck Laboratories, Inc. (Weck) in City of Industry. A portion of the hexavalent chromium analyses for the 2014 Annual Event were subcontracted to different laboratories, through Weck.

Tables 1-2 and 1-3 includes field QA/QC samples (duplicates, matrix spike/matrix spike duplicates [MS/MSDs], and blanks), total number of samples, the analytical method name and number, sample containers, preservatives, and holding times (for extraction and analysis) for the Annual 2014 and Early 2014 Semi-Annual Events, respectively.

### 2.3.1 Annual 2014 Event

Consistent with the objectives of the 2014 Annual sampling plan, the monitoring well samples were analyzed for the following parameters. A listing of analyses conducted by well is provided in Table 1-2.

- VOCs by USEPA Method 524.2, including isopropyl alcohol by USEPA Method 1666A and tentatively identified compounds (TICs)
- Selective ion monitoring (SIM) VOCs by USEPA Method 524.2, for select compounds
- 1,2-Dibromoethane (EDB) and 1,2 dibromo-3-chloropropane (DBCP) by USEPA Method 504.1
- Semi-Volatile Organic Compounds (SVOCs) by USEPA Method 525.2, including TICs
- 1,4-Dioxane by USEPA Method 8270 SIM
- Perchlorate by USEPA Method 331
- Nitrate as $NO_3$ , nitrite as nitrogen (N), and nitrite+nitrate as N by USEPA Method 353.2
- Dissolved metals by USEPA Method 200.8 (USEPA Method 245.1 for mercury)

- Hexavalent chromium by USEPA Method 218.7
- 1,2,3-Trichloropropane (1,2,3-TCP) by California Department of Public Health (CDPH) Method SRLB
- N-Nitrosodimethylamine (NDMA), N-nitrosodiethylamine (NDEA), and N-nitroso-n-propylamine (NDPA) by USEPA Method 521.

In addition to the above, the newly-installed monitoring wells were analyzed for:

- Total petroleum hydrocarbons (TPH) using USEPA Method 8015M,
- Total dissolved solids (TDS) by Standard Method SM 2540C,
- Chloride and sulfate by USEPA Method 300.0, and
- Boron by USEPA Method 200.8

### 2.3.2 Early 2014 Semi-Annual Event

Consistent with the objectives of the sampling plan for the Early 2014 Semi-Annual Event, the monitoring well samples were analyzed for the following parameters. A listing of analyses conducted by well is provided in Table 1-3.

- VOCs by USEPA Method 524.2, including isopropyl alcohol by USEPA Method 1666A and TICs
- VOCs (SIM) by USEPA Method 524.2, for select compounds
- EDB and DBCP by USEPA Method 504.1
- SVOCs by USEPA Method 525.2
- 1,4-Dioxane by USEPA Method 8270 SIM
- Perchlorate by USEPA Method 331
- 1,2,3-TCP by CDPH Method SRLB
- NDMA by USEPA Method 1625M (wells MW7-1A, MW6-10i, MW6-10d, S11A, and the newly installed monitoring wells).

In addition to above, the newly-installed monitoring wells were analyzed for:

- Dissolved metals by USEPA Method 200.8 (USEPA Method 245.1 for mercury),
- TPH using USEPA Method 8015M,
- Nitrate as $NO_3$ by USEPA Method 353.2,
- TDS by Standard Method SM 2540C,
- Hexavalent chromium by USEPA Method 218.7,
- Chloride and sulfate by USEPA Method 300.0, and

- Boron by USEPA Method 200.8

Samples collected at well S11A were also analyzed for dissolved metals, nitrate as $NO_3$, TDS, and hexavalent chromium.

## 2.4 Quality Assurance/Quality Control Samples

QA/QC samples collected in accordance with the SAP are described below.

- **Trip Blanks** – collected to verify that contamination was not introduced to samples during collection, handling, or shipping. Trip blanks were prepared by the laboratory and sent with the samples to the field. The trip blanks were labeled and returned to the laboratory. A total of 41 trip blanks were sent for this event and analyzed for VOCs.

- **Equipment Blanks** – collected to verify whether or not contamination was introduced to samples through the reuse of sampling equipment at different sample locations. Ten equipment blanks were collected during this sampling event, for various analyses. Each equipment blank was collected from decontaminated equipment. Once the equipment (bladder/submersible pump or Westbay sampling equipment) was decontaminated, laboratory grade deionized water was poured over the equipment and collected into the sample containers.

- **Field Duplicates** – independent samples collected as close in time as possible to a primary sample from the same source and used to document sampling precision. Five field duplicates were collected during this sampling event and analyzed for the same parameters as the original sample.

- **Laboratory QA/QC Samples** – collected to perform MS/MSD analyses. An MS is an aliquot of a sample spiked with a known concentration of target analyte and provides a measure of the method accuracy. The MSD is a laboratory split sample of the MS and is used to determine the precision of the method. Twice the normal water volume was collected for wells MW7-2D, MW7-4A and MW7-13B to be used by the laboratory as an MS/MSD sample.

## 2.5 Collection and Disposal of Investigation-Derived Waste

The purge and equipment decontamination water generated from the both the 2014 Annual and Early 2014 Semi-Annual events was contained within a polyurethane storage tank temporarily staged at San Gabriel's B24 plant site in City of Industry, California. Samples were collected and submitted for waste characterization. The water was transported by vacuum truck under non-hazardous waste manifests to Crosby and Overton of Long Beach, California for treatment and disposal. Copies of the non-hazardous waste manifests are maintained in Northrop Grumman's project files.

# Table 2-1
## Piezometric Head Data Summary
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| **Cluster Wells** | | | | | | | |
| MW6-2A | MW6-2A | 176 | 186 | 2/13/2003 | 301.86 | 37.76 | 264.10 |
| MW6-2A | MW6-2A | 176 | 186 | 6/24/2003 | 301.86 | 37.63 | 264.23 |
| MW6-2A | MW6-2A | 176 | 186 | 10/20/2003[A] | 301.86 | 37.63 | 264.23 |
| MW6-2B | MW6-2B | 117 | 127 | 2/13/2003 | 302.06 | 36.44 | 265.62 |
| MW6-2B | MW6-2B | 117 | 127 | 6/24/2003 | 302.06 | 36.67 | 265.39 |
| MW6-2B | MW6-2B | 117 | 127 | 10/19/2003[A] | 302.06 | 36.82 | 265.24 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 4/4/2002 | 296.61 | 103.35 | 193.26 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 2/13/2003 | 296.61 | 111.83 | 184.78 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 6/24/2003 | 296.61 | 104.37 | 192.24 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 10/19/2003 | 296.61 | 109.63 | 186.98 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 6/27/2005 | 296.61 | 88.22 | 208.39 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 12/5/2005 | 296.61 | 91.21 | 205.40 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 6/29/2006 | 296.61 | 81.98 | 214.63 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 2/1/2007 | 296.61 | 89.57 | 207.04 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 6/12/2007 | 296.61 | 115.15 | 181.46 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 2/7/2008 | 296.61 | 104.17 | 192.44 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 9/4/2008 | 296.61 | 126.56 | 170.05 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 12/1/2010 | 296.61 | 103.64 | 192.97 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 7/11/2011 | 296.61 | 93.74 | 202.87 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 1/3/2012 | 296.61 | 78.60 | 218.01 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 7/24/2012 | 296.61 | 99.96 | 196.65 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 2/25/2013 | 296.61 | 93.51 | 203.10 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 8/21/2013 | 296.61 | 129.03 | 167.58 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 3/13/2014 | 296.61 | 115.28 | 181.33 |
| MW6-31 | EPAMW6-31 | 1068 | 1083 | 8/27/2014 | 296.61 | 132.55 | 164.06 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 4/5/2002 | 297.06 | 112.15 | 184.91 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 2/13/2003 | 297.06 | 111.90 | 185.16 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 6/24/2003 | 297.06 | 122.89 | 174.17 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 10/19/2003 | 297.06 | 120.80 | 176.26 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 6/27/2005 | 297.06 | 101.32 | 195.74 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 12/5/2005 | 297.06 | 91.94 | 205.12 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 6/29/2006 | 297.06 | 92.59 | 204.47 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 2/1/2007 | 297.06 | 92.78 | 204.28 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 6/12/2007[E] | 297.06 | not measured | not measured |
| MW6-32 | EPAMW6-32 | 717 | 727 | 2/7/2008 | 297.06 | 111.10 | 185.96 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 9/4/2008 | 297.06 | 138.52 | 158.54 |
| MW6-32 | EPAMW6-32 | 717 | 727 | 12/1/2010 | 297.06 | 112.41 | 184.65 |
| MW6-32 | EPAWW6-32 | 717 | 727 | 7/11/2011 | 297.06 | 102.22 | 194.84 |
| MW6-32 | EPAWW6-32 | 717 | 727 | 1/3/2012 | 297.06 | 83.89 | 213.17 |
| MW6-32 | EPAWW6-32 | 717 | 727 | 7/24/2012 | 297.06 | 105.22 | 191.84 |
| MW6-32 | EPAWW6-32 | 717 | 727 | 2/25/2013 | 297.06 | 98.10 | 198.96 |
| MW6-32 | EPAWW6-32 | 717 | 727 | 8/21/2013 | 297.06 | 143.90 | 153.16 |
| MW6-32 | EPAWW6-32 | 717 | 727 | 3/13/2014 | 297.06 | 120.53 | 176.53 |
| MW6-32 | EPAWW6-32 | 717 | 727 | 8/27/2014 | 297.06 | 152.56 | 144.50 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 4/5/2002 | 296.78 | 97.32 | 199.46 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 2/13/2003 | 296.78 | 101.70 | 195.08 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 6/24/2003 | 296.78 | 108.70 | 188.08 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 10/20/2003 | 296.78 | 107.08 | 189.70 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 6/27/2005 | 296.78 | 81.45 | 215.33 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 12/5/2005 | 296.78 | 77.80 | 218.98 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 6/29/2006 | 296.78 | 74.76 | 222.02 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 2/1/2007 | 296.78 | 80.67 | 216.11 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 6/12/2007 | 296.78 | 92.35 | 204.43 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 2/7/2008 | 296.78 | 93.01 | 203.77 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 9/4/2008 | 296.78 | 110.37 | 186.41 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 12/1/2010 | 296.78 | 103.60 | 193.18 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 7/11/2011 | 296.78 | 93.99 | 202.79 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 1/3/2012 | 296.78 | 79.71 | 217.07 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 7/24/2012 | 296.78 | 97.18 | 199.60 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 2/25/2013 | 296.78 | 94.32 | 202.46 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 8/21/2013 | 296.78 | 119.95 | 176.83 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 3/13/2014 | 296.78 | 116.08 | 180.70 |
| MW6-33 | EPAMW6-33 | 475 | 485 | 8/27/2014 | 296.78 | 108.97 | 187.81 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 4/4/2002 | 297.12 | 68.32 | 228.80 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 2/13/2003 | 297.12 | 75.32 | 221.80 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 6/24/2003 | 297.12 | 78.25 | 218.87 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 10/20/2003 | 297.12 | 78.35 | 218.77 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 6/27/2005 | 297.12 | 60.57 | 236.55 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-34 | EPAMW6-34 | 300 | 310 | 12/5/2005 | 297.12 | 56.80 | 240.32 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 6/29/2006 | 297.12 | 51.28 | 245.84 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 2/1/2007 | 297.12 | 55.18 | 241.94 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 6/12/2007 | 297.12 | 61.37 | 235.75 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 2/7/2008 | 297.12 | 68.64 | 228.48 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 9/4/2008 | 297.12 | 76.11 | 221.01 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 12/1/2010 | 297.12 | 80.09 | 217.03 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 7/11/2011 | 297.12 | 67.42 | 229.70 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 1/3/2012 | 297.12 | 60.80 | 236.32 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 7/24/2012 | 297.12 | 89.28 | 207.84 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 2/25/2013 | 297.12 | 71.31 | 225.81 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 8/21/2013 | 297.12 | 81.86 | 215.26 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 3/13/2014 | 297.12 | 84.35 | 212.77 |
| MW6-34 | EPAMW6-34 | 300 | 310 | 8/27/2014 | 297.12 | 92.55 | 204.57 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 4/8/2002 | 296.95 | 58.39 | 238.56 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 2/13/2003 | 296.95 | 66.77 | 230.18 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 6/24/2003 | 296.95 | 69.19 | 227.76 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 10/20/2003 | 296.95 | 70.90 | 226.05 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 6/27/2005 | 296.95 | 62.93 | 234.02 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 12/5/2005 | 296.95 | 56.55 | 240.40 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 6/29/2006 | 296.95 | 50.50 | 246.45 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 2/1/2007 | 296.95 | 48.88 | 248.07 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 6/12/2007 | 296.95 | 51.54 | 245.41 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 2/7/2008 | 296.95 | 58.91 | 238.04 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 9/4/2008 | 296.95 | 64.63 | 232.32 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 12/1/2010 | 296.95 | 76.65 | 220.30 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 7/11/2011 | 296.95 | 66.45 | 230.50 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 1/3/2012 | 296.95 | 59.66 | 237.29 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 7/24/2012 | 296.95 | 60.12 | 236.83 |
| MW6-35 | EPAMW6-35 | 215 | 230 | 2/25/2013[B] | 296.95 | not measured | not measured |
| MW6-36 | EPAMW6-36 | 80 | 95 | 2/13/2003 | 297.31 | 64.13 | 233.18 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 6/24/2003 | 297.31 | 66.79 | 230.52 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 10/20/2003 | 297.31 | 68.83 | 228.48 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 6/27/2005 | 297.31 | 65.11 | 232.20 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 12/5/2005 | 297.31 | 57.43 | 239.88 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 6/29/2006 | 297.31 | 50.22 | 247.09 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 2/1/2007 | 297.31 | 47.62 | 249.69 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 6/12/2007 | 297.31 | 48.98 | 248.33 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 2/7/2008 | 297.31 | 55.53 | 241.78 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 9/4/2008 | 297.31 | 61.24 | 236.07 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 12/1/2010 | 297.31 | 75.59 | 221.72 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 7/11/2011 | 297.31 | 67.45 | 229.86 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 1/3/2012 | 297.31 | 60.53 | 236.78 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 7/24/2012 | 297.31 | 58.90 | 238.41 |
| MW6-36 | EPAMW6-36 | 80 | 95 | 2/25/2013[B] | 297.31 | not measured | not measured |
| MW6-37 | EPAMW6-37 | 40 | 55 | 2/13/2003 | 296.61 | 55.95 | 240.66 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 6/24/2003 | 296.61 | 55.70 | 240.91 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 10/20/2003 | 296.61 | 59.64 | 236.97 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 6/27/2005 | 296.61 | 60.02 | 236.59 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 12/5/2005 | 296.61 | 59.99 | 236.62 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 6/29/2006 | 296.61 | 49.83 | 246.78 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 2/1/2007 | 296.61 | 44.64 | 251.97 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 6/12/2007 | 296.61 | 45.25 | 251.36 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 2/7/2008 | 296.61 | 50.51 | 246.10 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 9/4/2008 | 296.61 | 55.68 | 240.93 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 12/1/2010 | 296.61 | 55.91 | 240.70 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 1/3/2012 | 296.61 | 55.70 | 240.91 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 7/24/2012 | 296.61 | 55.89 | 240.72 |
| MW6-37 | EPAMW6-37 | 40 | 55 | 2/25/2013[B] | 296.61 | not measured | not measured |
| MW6-41 | MW6-41 | 1107 | 1122 | 4/2/2002 | 301.27 | 74.03 | 227.24 |
| MW6-41 | MW6-41 | 1107 | 1122 | 2/13/2003 | 301.27 | 85.91 | 215.36 |
| MW6-41 | MW6-41 | 1107 | 1122 | 6/24/2003 | 301.27 | 87.12 | 214.15 |
| MW6-41 | MW6-41 | 1107 | 1122 | 10/20/2003 | 301.27 | 87.38 | 213.89 |
| MW6-41 | MW6-41 | 1107 | 1122 | 6/28/2005 | 301.27 | 61.06 | 240.21 |
| MW6-41 | MW6-41 | 1107 | 1122 | 12/5/2005 | 301.27 | 59.26 | 242.01 |
| MW6-41 | MW6-41 | 1107 | 1122 | 6/29/2006 | 301.27 | 51.08 | 250.19 |
| MW6-41 | MW6-41 | 1107 | 1122 | 2/1/2007 | 301.27 | 59.90 | 241.37 |
| MW6-41 | MW6-41 | 1107 | 1122 | 6/12/2007 | 301.27 | 65.63 | 235.64 |
| MW6-41 | MW6-41 | 1107 | 1122 | 1/17/2008 | 301.27 | 79.29 | 221.98 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-41 | MW6-41 | 1107 | 1122 | 9/4/2008 | 301.27 | 86.22 | 215.05 |
| MW6-41 | MW6-41 | 1107 | 1122 | 12/1/2010 | 301.27 | 87.30 | 213.97 |
| MW6-41 | MW6-41 | 1107 | 1122 | 7/11/2011 | 301.27 | 67.83 | 233.44 |
| MW6-41 | MW6-41 | 1107 | 1122 | 1/3/2012 | 301.27 | 63.41 | 237.86 |
| MW6-41 | MW6-41 | 1107 | 1122 | 7/24/2012 | 301.27 | 70.18 | 231.09 |
| MW6-41 | MW6-41 | 1107 | 1122 | 2/25/2013 | 301.27 | 78.54 | 222.73 |
| MW6-41 | MW6-41 | 1107 | 1122 | 8/21/2013 | 301.27 | 86.36 | 214.91 |
| MW6-41 | MW6-41 | 1107 | 1122 | 3/13/2014 | 301.27 | 92.62 | 208.65 |
| MW6-41 | MW6-41 | 1107 | 1122 | 8/26/2014 | 301.27 | 99.60 | 201.67 |
| MW6-42 | MW6-42 | 660 | 680 | 4/3/2002 | 301.56 | 96.11 | 205.45 |
| MW6-42 | MW6-42 | 660 | 680 | 2/13/2003 | 301.56 | 109.80 | 191.76 |
| MW6-42 | MW6-42 | 660 | 680 | 6/24/2003 | 301.56 | 102.19 | 199.37 |
| MW6-42 | MW6-42 | 660 | 680 | 10/20/2003 | 301.56 | 107.68 | 193.88 |
| MW6-42 | MW6-42 | 660 | 680 | 6/28/2005 | 301.56 | 86.90 | 214.66 |
| MW6-42 | MW6-42 | 660 | 680 | 12/5/2005 | 301.56 | 90.10 | 211.46 |
| MW6-42 | MW6-42 | 660 | 680 | 6/29/2006 | 301.56 | 81.09 | 220.47 |
| MW6-42 | MW6-42 | 660 | 680 | 2/1/2007 | 301.56 | 89.65 | 211.91 |
| MW6-42 | MW6-42 | 660 | 680 | 6/12/2007 | 301.56 | 116.49 | 185.07 |
| MW6-42 | MW6-42 | 660 | 680 | 1/17/2008 | 301.56 | 109.07 | 192.49 |
| MW6-42 | MW6-42 | 660 | 680 | 9/4/2008 | 301.56 | 125.73 | 175.83 |
| MW6-42 | MW6-42 | 660 | 680 | 12/1/2010 | 301.56 | 108.28 | 193.28 |
| MW6-42 | MW6-42 | 660 | 680 | 7/11/2011 | 301.56 | 95.01 | 206.55 |
| MW6-42 | MW6-42 | 660 | 680 | 1/3/2012 | 301.56 | 82.01 | 219.55 |
| MW6-42 | MW6-42 | 660 | 680 | 7/24/2012 | 301.56 | 101.36 | 200.20 |
| MW6-42 | MW6-42 | 660 | 680 | 2/25/2013 | 301.56 | 95.83 | 205.73 |
| MW6-42 | MW6-42 | 660 | 680 | 8/21/2013 | 301.56 | 133.50 | 168.06 |
| MW6-42 | MW6-42 | 660 | 680 | 3/13/2014 | 301.56 | 117.14 | 184.42 |
| MW6-42 | MW6-42 | 660 | 680 | 8/26/2014 | 301.56 | 138.80 | 162.76 |
| MW6-43 | MW6-43 | 424 | 434 | 4/2/2002 | 301.57 | 114.45 | 187.12 |
| MW6-43 | MW6-43 | 424 | 434 | 2/13/2003 | 301.57 | 111.90 | 189.67 |
| MW6-43 | MW6-43 | 424 | 434 | 6/24/2003 | 301.57 | 123.28 | 178.29 |
| MW6-43 | MW6-43 | 424 | 434 | 10/20/2003 | 301.57 | 121.28 | 180.29 |
| MW6-43 | MW6-43 | 424 | 434 | 6/28/2005 | 301.57 | 101.42 | 200.15 |
| MW6-43 | MW6-43 | 424 | 434 | 12/5/2005 | 301.57 | 95.97 | 205.60 |
| MW6-43 | MW6-43 | 424 | 434 | 6/29/2006 | 301.57 | 93.63 | 207.94 |
| MW6-43 | MW6-43 | 424 | 434 | 2/1/2007 | 301.57 | 94.98 | 206.59 |
| MW6-43 | MW6-43 | 424 | 434 | 6/12/2007 | 301.57 | 146.32 | 155.25 |
| MW6-43 | MW6-43 | 424 | 434 | 1/17/2008 | 301.57 | 121.18 | 180.39 |
| MW6-43 | MW6-43 | 424 | 434 | 9/4/2008 | 301.57 | 140.11 | 161.46 |
| MW6-43 | MW6-43 | 424 | 434 | 12/1/2010 | 301.57 | 116.66 | 184.91 |
| MW6-43 | MW6-43 | 424 | 434 | 7/11/2011 | 301.57 | 105.10 | 196.47 |
| MW6-43 | MW6-43 | 424 | 434 | 1/3/2012 | 301.57 | 86.85 | 214.72 |
| MW6-43 | MW6-43 | 424 | 434 | 7/24/2012 | 301.57 | 107.52 | 194.05 |
| MW6-43 | MW6-43 | 424 | 434 | 2/25/2013 | 301.57 | 101.00 | 200.57 |
| MW6-43 | MW6-43 | 424 | 434 | 8/21/2013 | 301.57 | 148.51 | 153.06 |
| MW6-43 | MW6-43 | 424 | 434 | 3/13/2014 | 301.57 | 123.05 | 178.52 |
| MW6-43 | MW6-43 | 424 | 434 | 8/26/2014 | 301.57 | 151.95 | 149.62 |
| MW6-44 | MW6-44 | 322 | 332 | 4/2/2002 | 301.80 | 115.96 | 185.84 |
| MW6-44 | MW6-44 | 322 | 332 | 12/5/2002 | 301.80 | 124.30 | 177.50 |
| MW6-44 | MW6-44 | 322 | 332 | 2/13/2003 | 301.80 | 106.39 | 195.41 |
| MW6-44 | MW6-44 | 322 | 332 | 6/24/2003 | 301.80 | 126.15 | 175.65 |
| MW6-44 | MW6-44 | 322 | 332 | 10/20/2003 | 301.80 | 123.11 | 178.69 |
| MW6-44 | MW6-44 | 322 | 332 | 6/28/2005 | 301.80 | 109.06 | 192.74 |
| MW6-44 | MW6-44 | 322 | 332 | 12/5/2005 | 301.80 | 99.68 | 202.12 |
| MW6-44 | MW6-44 | 322 | 332 | 6/29/2006 | 301.80 | 102.56 | 199.24 |
| MW6-44 | MW6-44 | 322 | 332 | 2/1/2007 | 301.80 | 96.62 | 205.18 |
| MW6-44 | MW6-44 | 322 | 332 | 6/12/2007 | 301.80 | 118.33 | 183.47 |
| MW6-44 | MW6-44 | 322 | 332 | 1/17/2008 | 301.80 | 100.36 | 201.44 |
| MW6-44 | MW6-44 | 322 | 332 | 9/4/2008 | 301.80 | 135.46 | 166.34 |
| MW6-44 | MW6-44 | 322 | 332 | 12/1/2010 | 301.80 | 114.76 | 187.04 |
| MW6-44 | MW6-44 | 322 | 332 | 7/11/2011 | 301.80 | 107.44 | 194.36 |
| MW6-44 | MW6-44 | 322 | 332 | 1/3/2012 | 301.80 | 83.96 | 217.84 |
| MW6-44 | MW6-44 | 322 | 332 | 7/24/2012 | 301.80 | 101.16 | 200.64 |
| MW6-44 | MW6-44 | 322 | 332 | 2/25/2013 | 301.80 | 96.53 | 205.27 |
| MW6-44 | MW6-44 | 322 | 332 | 8/21/2013[B] | 301.80 | not measured | not measured |
| MW6-45 | MW6-45 | 224 | 234 | 12/23/2002 | 301.84 | 81.82 | 220.02 |
| MW6-45 | MW6-45 | 224 | 234 | 2/13/2003 | 301.84 | 81.05 | 220.79 |
| MW6-45 | MW6-45 | 224 | 234 | 5/29/2003 | 301.84 | 81.05 | 220.79 |
| MW6-45 | MW6-45 | 224 | 234 | 6/24/2003 | 301.84 | 88.83 | 213.01 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-45 | MW6-45 | 224 | 234 | 10/20/2003 | 301.84 | 88.22 | 213.62 |
| MW6-45 | MW6-45 | 224 | 234 | 6/28/2005 | 301.84 | 72.98 | 228.86 |
| MW6-45 | MW6-45 | 224 | 234 | 12/5/2005 | 301.84 | 68.79 | 233.05 |
| MW6-45 | MW6-45 | 224 | 234 | 6/29/2006 | 301.84 | 65.47 | 236.37 |
| MW6-45 | MW6-45 | 224 | 234 | 2/1/2007 | 301.84 | 65.58 | 236.26 |
| MW6-45 | MW6-45 | 224 | 234 | 6/12/2007 | 301.84 | 76.23 | 225.61 |
| MW6-45 | MW6-45 | 224 | 234 | 1/17/2008 | 301.84 | 73.04 | 228.80 |
| MW6-45 | MW6-45 | 224 | 234 | 9/4/2008 | 301.84 | 90.35 | 211.49 |
| MW6-45 | MW6-45 | 224 | 234 | 12/1/2010 | 301.84 | 86.63 | 215.21 |
| MW6-45 | MW6-45 | 224 | 234 | 7/11/2011 | 301.84 | 77.90 | 223.94 |
| MW6-45 | MW6-45 | 224 | 234 | 1/3/2012 | 301.84 | 64.92 | 236.92 |
| MW6-45 | MW6-45 | 224 | 234 | 7/24/2012 | 301.84 | 74.90 | 226.94 |
| MW6-45 | MW6-45 | 224 | 234 | 2/25/2013[B] | 301.84 | ** | ** |
| MW6-46 | MW6-46 | 147 | 162 | 4/3/2002 | 301.76 | 49.67 | 252.09 |
| MW6-46 | MW6-46 | 147 | 162 | 2/13/2003 | 301.76 | 56.02 | 245.74 |
| MW6-46 | MW6-46 | 147 | 162 | 6/24/2003 | 301.76 | 58.03 | 243.73 |
| MW6-46 | MW6-46 | 147 | 162 | 10/20/2003 | 301.76 | 58.97 | 242.79 |
| MW6-46 | MW6-46 | 147 | 162 | 6/28/2005 | 301.76 | 48.99 | 252.77 |
| MW6-46 | MW6-46 | 147 | 162 | 12/5/2005 | 301.76 | 44.72 | 257.04 |
| MW6-46 | MW6-46 | 147 | 162 | 6/29/2006 | 301.76 | 40.15 | 261.61 |
| MW6-46 | MW6-46 | 147 | 162 | 2/1/2007 | 301.76 | 41.10 | 260.66 |
| MW6-46 | MW6-46 | 147 | 162 | 6/12/2007 | 301.76 | 44.61 | 257.15 |
| MW6-46 | MW6-46 | 147 | 162 | 1/17/2008 | 301.76 | 49.67 | 252.09 |
| MW6-46 | MW6-46 | 147 | 162 | 9/4/2008 | 301.76 | 55.46 | 246.30 |
| MW6-46 | MW6-46 | 147 | 162 | 1/5/2011[F] | 301.76 | 60.78 | 240.98 |
| MW6-46 | MW6-46 | 147 | 162 | 7/11/2011 | 301.76 | 53.32 | 248.44 |
| MW6-46 | MW6-46 | 147 | 162 | 1/3/2012 | 301.76 | 48.00 | 253.76 |
| MW6-46 | MW6-46 | 147 | 162 | 7/24/2012 | 301.76 | 51.03 | 250.73 |
| MW6-46 | MW6-46 | 147 | 162 | 2/25/2013 | 301.76 | 53.50 | 248.26 |
| MW6-46 | MW6-46 | 147 | 162 | 8/21/2013 | 301.76 | 60.43 | 241.33 |
| MW6-46 | MW6-46 | 147 | 162 | 3/13/2014 | 301.76 | 63.50 | 238.26 |
| MW6-46 | MW6-46 | 147 | 162 | 8/26/2014 | 301.76 | 44.23 | 257.53 |
| MW6-51 | MW6-51 | 1063 | 1078 | 4/9/2002 | 309.22 | 73.30 | 235.92 |
| MW6-51 | MW6-51 | 1063 | 1078 | 2/13/2003 | 309.22 | 82.36 | 226.86 |
| MW6-51 | MW6-51 | 1063 | 1078 | 6/24/2003 | 309.22 | 84.67 | 224.55 |
| MW6-51 | MW6-51 | 1063 | 1078 | 10/20/2003 | 309.22 | 86.66 | 222.56 |
| MW6-51 | MW6-51 | 1063 | 1078 | 6/27/2005 | 309.22 | 80.72 | 228.50 |
| MW6-51 | MW6-51 | 1063 | 1078 | 12/5/2005 | 309.22 | 71.79 | 237.43 |
| MW6-51 | MW6-51 | 1063 | 1078 | 6/29/2006 | 309.22 | 65.07 | 244.15 |
| MW6-51 | MW6-51 | 1063 | 1078 | 2/1/2007 | 309.22 | 65.30 | 243.92 |
| MW6-51 | MW6-51 | 1063 | 1078 | 6/12/2007 | 309.22 | 68.58 | 240.64 |
| MW6-51 | MW6-51 | 1063 | 1078 | 1/17/2008 | 309.22 | 78.86 | 230.36 |
| MW6-51 | MW6-51 | 1063 | 1078 | 9/4/2008 | 309.22 | 86.00 | 223.22 |
| MW6-51 | MW6-51 | 1063 | 1078 | 12/1/2010 | 309.22 | 94.00 | 215.22 |
| MW6-51 | MW6-51 | 1063 | 1078 | 7/11/2011 | 309.22 | 81.91 | 227.31 |
| MW6-51 | MW6-51 | 1063 | 1078 | 1/3/2012 | 309.22 | 76.02 | 233.20 |
| MW6-51 | MW6-51 | 1063 | 1078 | 7/24/2012 | 309.22 | 75.89 | 233.33 |
| MW6-51 | MW6-51 | 1063 | 1078 | 2/25/2013 | 309.22 | 81.56 | 227.66 |
| MW6-51 | MW6-51 | 1063 | 1078 | 8/19/2013 | 309.22 | 86.82 | 222.40 |
| MW6-51 | MW6-51 | 1063 | 1087 | 3/13/2014 | 309.22 | 94.01 | 215.21 |
| MW6-51 | MW6-51 | 1063 | 1087 | 8/26/2014 | 309.22 | 99.18 | 210.04 |
| MW6-52 | MW6-52 | 876 | 896 | 4/9/2002 | 309.36 | 58.02 | 251.34 |
| MW6-52 | MW6-52 | 876 | 896 | 2/13/2003 | 309.36 | 66.56 | 242.80 |
| MW6-52 | MW6-52 | 876 | 896 | 6/24/2003 | 309.36 | 67.38 | 241.98 |
| MW6-52 | MW6-52 | 876 | 896 | 10/20/2003 | 309.36 | 69.24 | 240.12 |
| MW6-52 | MW6-52 | 876 | 896 | 6/27/2005 | 309.36 | 65.84 | 243.52 |
| MW6-52 | MW6-52 | 876 | 896 | 12/5/2005 | 309.36 | 60.22 | 249.14 |
| MW6-52 | MW6-52 | 876 | 896 | 6/29/2006 | 309.36 | 54.02 | 255.34 |
| MW6-52 | MW6-52 | 876 | 896 | 2/1/2007 | 309.36 | 53.45 | 255.91 |
| MW6-52 | MW6-52 | 876 | 896 | 6/12/2007 | 309.36 | 55.53 | 253.83 |
| MW6-52 | MW6-52 | 876 | 896 | 1/17/2008 | 309.36 | 64.27 | 245.09 |
| MW6-52 | MW6-52 | 876 | 896 | 9/4/2008 | 309.36 | 70.47 | 238.89 |
| MW6-52 | MW6-52 | 876 | 896 | 12/1/2010 | 309.36 | 77.43 | 231.93 |
| MW6-52 | MW6-52 | 876 | 896 | 7/11/2011 | 309.36 | 68.46 | 240.90 |
| MW6-52 | MW6-52 | 876 | 896 | 1/3/2012 | 309.36 | 63.48 | 245.88 |
| MW6-52 | MW6-52 | 876 | 896 | 7/24/2012 | 309.36 | 62.81 | 246.55 |
| MW6-52 | MW6-52 | 876 | 896 | 2/25/2013 | 309.36 | 65.81 | 243.55 |
| MW6-52 | MW6-52 | 876 | 896 | 8/19/2013 | 309.36 | 70.03 | 239.33 |
| MW6-52 | MW6-52 | 876 | 896 | 3/13/2014 | 309.36 | 76.31 | 233.05 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-52 | MW6-52 | 876 | 896 | 8/26/2014 | 309.36 | 80.95 | 228.41 |
| MW6-53 | MW6-53 | 578 | 598 | 4/8/2002 | 309.44 | 69.90 | 239.54 |
| MW6-53 | MW6-53 | 578 | 598 | 2/13/2003 | 309.44 | 79.30 | 230.14 |
| MW6-53 | MW6-53 | 578 | 598 | 6/24/2003 | 309.44 | 80.29 | 229.15 |
| MW6-53 | MW6-53 | 578 | 598 | 10/20/2003 | 309.44 | 81.71 | 227.73 |
| MW6-53 | MW6-53 | 578 | 598 | 6/27/2005 | 309.44 | 68.84 | 240.60 |
| MW6-53 | MW6-53 | 578 | 598 | 12/5/2005 | 309.44 | 65.43 | 244.01 |
| MW6-53 | MW6-53 | 578 | 598 | 6/29/2006 | 309.44 | 57.97 | 251.47 |
| MW6-53 | MW6-53 | 578 | 598 | 2/1/2007 | 309.44 | 62.12 | 247.32 |
| MW6-53 | MW6-53 | 578 | 598 | 6/12/2007 | 309.44 | 66.95 | 242.49 |
| MW6-53 | MW6-53 | 578 | 598 | 1/17/2008 | 309.44 | 77.87 | 231.57 |
| MW6-53 | MW6-53 | 578 | 598 | 9/4/2008 | 309.44 | 84.02 | 225.42 |
| MW6-53 | MW6-53 | 578 | 598 | 12/1/2010 | 309.44 | 87.03 | 222.41 |
| MW6-53 | MW6-53 | 578 | 598 | 7/11/2011 | 309.44 | 72.89 | 236.55 |
| MW6-53 | MW6-53 | 578 | 598 | 1/3/2012 | 309.44 | 68.20 | 241.24 |
| MW6-53 | MW6-53 | 578 | 598 | 7/24/2012 | 309.44 | 71.39 | 238.05 |
| MW6-53 | MW6-53 | 578 | 598 | 2/25/2013 | 309.44 | 76.46 | 232.98 |
| MW6-53 | MW6-53 | 578 | 598 | 8/19/2013 | 309.44 | 83.70 | 225.74 |
| MW6-53 | MW6-53 | 578 | 598 | 3/13/2014 | 309.44 | 89.35 | 220.09 |
| MW6-53 | MW6-53 | 578 | 598 | 8/26/2014 | 309.44 | 94.81 | 214.63 |
| MW6-54 | MW6-54 | 324 | 344 | 4/10/2002 | 309.37 | 123.02 | 186.35 |
| MW6-54 | MW6-54 | 324 | 344 | 12/5/2002 | 309.37 | 131.00 | 178.37 |
| MW6-54 | MW6-54 | 324 | 344 | 2/13/2003 | 309.37 | 119.29 | 190.08 |
| MW6-54 | MW6-54 | 324 | 344 | 6/24/2003 | 309.37 | 130.53 | 178.84 |
| MW6-54 | MW6-54 | 324 | 344 | 10/20/2003 | 309.37 | 128.36 | 181.01 |
| MW6-54 | MW6-54 | 324 | 344 | 6/27/2005 | 309.37 | 107.97 | 201.40 |
| MW6-54 | MW6-54 | 324 | 344 | 12/5/2005 | 309.37 | 103.14 | 206.23 |
| MW6-54 | MW6-54 | 324 | 344 | 6/29/2006 | 309.37 | 100.56 | 208.81 |
| MW6-54 | MW6-54 | 324 | 344 | 2/1/2007 | 309.37 | 102.67 | 206.70 |
| MW6-54 | MW6-54 | 324 | 344 | 6/12/2007 | 309.37 | 150.88 | 158.49 |
| MW6-54 | MW6-54 | 324 | 344 | 1/17/2008 | 309.37 | 126.66 | 182.71 |
| MW6-54 | MW6-54 | 324 | 344 | 9/4/2008 | 309.37 | 147.61 | 161.76 |
| MW6-54 | MW6-54 | 324 | 344 | 12/1/2010 | 309.37 | 124.92 | 184.45 |
| MW6-54 | MW6-54 | 324 | 344 | 7/11/2011 | 309.37 | 114.73 | 194.64 |
| MW6-54 | MW6-54 | 324 | 344 | 1/3/2012 | 309.37 | 95.27 | 214.10 |
| MW6-54 | MW6-54 | 324 | 344 | 7/24/2012 | 309.37 | 116.34 | 193.03 |
| MW6-54 | MW6-54 | 324 | 344 | 2/25/2013 | 309.37 | 109.22 | 200.15 |
| MW6-54 | MW6-54 | 324 | 344 | 8/19/2013 | 309.37 | 155.24 | 154.13 |
| MW6-54 | MW6-54 | 324 | 344 | 3/13/2014 | 309.37 | 131.46 | 177.91 |
| MW6-54 | MW6-54 | 324 | 344 | 8/26/2014 | 309.37 | 160.57 | 148.80 |
| MW6-55 | MW6-55 | 250 | 265 | 4/10/2002 | 309.37 | 122.97 | 186.40 |
| MW6-55 | MW6-55 | 250 | 265 | 2/13/2003 | 309.37 | 113.29 | 196.08 |
| MW6-55 | MW6-55 | 250 | 265 | 6/24/2003 | 309.37 | 131.49 | 177.88 |
| MW6-55 | MW6-55 | 250 | 265 | 10/20/2003 | 309.37 | 128.57 | 180.80 |
| MW6-55 | MW6-55 | 250 | 265 | 6/27/2005 | 309.37 | 113.25 | 196.12 |
| MW6-55 | MW6-55 | 250 | 265 | 12/5/2005 | 309.37 | 104.59 | 204.78 |
| MW6-55 | MW6-55 | 250 | 265 | 6/29/2006 | 309.37 | 106.70 | 202.67 |
| MW6-55 | MW6-55 | 250 | 265 | 2/1/2007 | 309.37 | 102.42 | 206.95 |
| MW6-55 | MW6-55 | 250 | 265 | 6/12/2007 | 309.37 | 123.03 | 186.34 |
| MW6-55 | MW6-55 | 250 | 265 | 1/17/2008 | 309.37 | 73.28 | 236.09 |
| MW6-55 | MW6-55 | 250 | 265 | 9/4/2008 | 309.37 | 140.18 | 169.19 |
| MW6-55 | MW6-55 | 250 | 265 | 12/1/2010 | 309.37 | 120.97 | 188.40 |
| MW6-55 | MW6-55 | 250 | 265 | 7/11/2011 | 309.37 | 112.92 | 196.45 |
| MW6-55 | MW6-55 | 250 | 265 | 1/3/2012 | 309.37 | 90.89 | 218.48 |
| MW6-55 | MW6-55 | 250 | 265 | 7/24/2012 | 309.37 | 107.86 | 201.51 |
| MW6-55 | MW6-55 | 250 | 265 | 2/25/2013 | 309.37 | 103.44 | 205.93 |
| MW6-55 | MW6-55 | 250 | 265 | 8/19/2013 | 309.37 | 135.86 | 173.51 |
| MW6-55 | MW6-55 | 250 | 265 | 3/13/2014 | 309.37 | 123.61 | 185.76 |
| MW6-55 | MW6-55 | 250 | 265 | 8/26/2014 | 309.37 | 62.12 | 247.25 |
| MW6-56 | MW6-56 | 120 | 130 | 2/13/2003 | 309.51 | 67.94 | 241.57 |
| MW6-56 | MW6-56 | 120 | 130 | 6/24/2003 | 309.51 | 70.11 | 239.40 |
| MW6-56 | MW6-56 | 120 | 130 | 10/20/2003 | 309.51 | 71.20 | 238.31 |
| MW6-56 | MW6-56 | 120 | 130 | 6/27/2005 | 309.51 | 61.71 | 247.80 |
| MW6-56 | MW6-56 | 120 | 130 | 12/5/2005 | 309.51 | 56.75 | 252.76 |
| MW6-56 | MW6-56 | 120 | 130 | 6/29/2006 | 309.51 | 51.59 | 257.92 |
| MW6-56 | MW6-56 | 120 | 130 | 2/1/2007 | 309.51 | 52.20 | 257.31 |
| MW6-56 | MW6-56 | 120 | 130 | 6/12/2007 | 309.51 | 55.42 | 254.09 |
| MW6-56 | MW6-56 | 120 | 130 | 1/17/2008 | 309.51 | 60.74 | 248.77 |
| MW6-56 | MW6-56 | 120 | 130 | 9/4/2008 | 309.51 | 66.62 | 242.89 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-56 | MW6-56 | 120 | 130 | 12/1/2010 | 309.51 | 75.23 | 234.28 |
| MW6-56 | MW6-56 | 120 | 130 | 7/11/2011 | 309.51 | 65.57 | 243.94 |
| MW6-56 | MW6-56 | 120 | 130 | 1/3/2012 | 309.51 | 59.90 | 249.61 |
| MW6-56 | MW6-56 | 120 | 130 | 7/24/2012 | 309.51 | 62.43 | 247.08 |
| MW6-56 | MW6-56 | 120 | 130 | 2/25/2013 | 309.51 | 65.43 | 244.08 |
| MW6-56 | MW6-56 | 120 | 130 | 8/19/2013 | 309.51 | 71.63 | 237.88 |
| MW6-56 | MW6-56 | 120 | 130 | 3/13/2014 | 309.51 | 75.30 | 234.21 |
| MW6-56 | MW6-56 | 120 | 130 | 8/26/2014 | 309.51 | 81.10 | 228.41 |
| MW6-61 | MW6-61 | 446 | 456 | 2/13/2003 | 327.87 | 72.39 | 255.48 |
| MW6-61 | MW6-61 | 446 | 456 | 6/24/2003 | 327.87 | 75.32 | 252.55 |
| MW6-61 | MW6-61 | 446 | 456 | 10/20/2003 | 327.87 | 75.70 | 252.17 |
| MW6-61 | MW6-61 | 446 | 456 | 6/28/2005[E] | 327.87 | not measured | not measured |
| MW6-61 | MW6-61 | 446 | 456 | 12/5/2005 | 327.87 | 60.37 | 267.50 |
| MW6-61 | MW6-61 | 446 | 456 | 6/29/2006 | 327.87 | 56.33 | 271.54 |
| MW6-61 | MW6-61 | 446 | 456 | 2/1/2007 | 327.87 | 58.17 | 269.70 |
| MW6-61 | MW6-61 | 446 | 456 | 6/12/2007 | 327.87 | 42.92 | 284.95 |
| MW6-61 | MW6-61 | 446 | 456 | 1/17/2008 | 327.87 | 74.35 | 253.52 |
| MW6-61 | MW6-61 | 446 | 456 | 9/4/2008 | 327.87 | 84.29 | 243.58 |
| MW6-61 | MW6-61 | 446 | 456 | 12/1/2010 | 327.87 | 77.28 | 250.59 |
| MW6-61 | MW6-61 | 446 | 456 | 7/11/2011 | 327.87 | 62.12 | 265.75 |
| MW6-61 | MW6-61 | 446 | 456 | 1/3/2012 | 327.87 | 56.16 | 271.71 |
| MW6-61 | MW6-61 | 446 | 456 | 7/24/2012 | 327.87 | 44.17 | 283.70 |
| MW6-61 | MW6-61 | 446 | 456 | 2/25/2013[B] | 327.87 | not measured | not measured |
| MW6-62 | MW6-62 | 310 | 325 | 2/13/2003 | 326.20 | 39.82 | 286.38 |
| MW6-62 | MW6-62 | 310 | 325 | 6/24/2003 | 326.20 | 49.65 | 276.55 |
| MW6-62 | MW6-62 | 310 | 323 | 10/20/2003 | 326.20 | 50.22 | 275.98 |
| MW6-62 | MW6-62 | 310 | 323 | 6/28/2005 | 326.20 | 42.06 | 284.14 |
| MW6-62 | MW6-62 | 310 | 323 | 12/5/2005 | 326.20 | 39.24 | 286.96 |
| MW6-62 | MW6-62 | 310 | 323 | 6/29/2006 | 326.20 | 37.88 | 288.32 |
| MW6-62 | MW6-62 | 310 | 323 | 2/1/2007 | 326.20 | 38.00 | 288.20 |
| MW6-62 | MW6-62 | 310 | 323 | 6/12/2007 | 326.20 | 32.97 | 293.23 |
| MW6-62 | MW6-62 | 310 | 323 | 1/17/2008 | 326.20 | 43.56 | 282.64 |
| MW6-62 | MW6-62 | 310 | 323 | 9/4/2008 | 326.20 | 51.95 | 274.25 |
| MW6-62 | MW6-62 | 310 | 323 | 12/1/2010 | 326.20 | 50.40 | 275.80 |
| MW6-62 | MW6-62 | 310 | 323 | 7/11/2011 | 326.20 | 44.51 | 281.69 |
| MW6-62 | MW6-62 | 310 | 323 | 1/3/2012 | 326.20 | 38.98 | 287.22 |
| MW6-62 | MW6-62 | 310 | 323 | 7/24/2012 | 326.20 | 36.35 | 289.85 |
| MW6-62 | MW6-62 | 310 | 323 | 2/25/2013[B] | 326.20 | not measured | not measured |
| MW6-63 | MW6-63 | 197 | 212 | 2/13/2003 | 326.77 | 37.85 | 288.92 |
| MW6-63 | MW6-63 | 197 | 212 | 6/24/2003 | 326.77 | 38.41 | 288.36 |
| MW6-63 | MW6-63 | 197 | 212 | 10/20/2003 | 326.77 | 39.36 | 287.41 |
| MW6-63 | MW6-63 | 197 | 212 | 6/28/2005[E] | 326.77 | not measured | not measured |
| MW6-63 | MW6-63 | 197 | 212 | 12/5/2005 | 326.77 | 30.38 | 296.39 |
| MW6-63 | MW6-63 | 197 | 212 | 6/29/2006 | 326.77 | 29.85 | 296.92 |
| MW6-63 | MW6-63 | 197 | 212 | 2/1/2007 | 326.77 | 29.58 | 297.19 |
| MW6-63 | MW6-63 | 197 | 212 | 6/12/2007 | 326.77 | 77.47 | 249.30 |
| MW6-63 | MW6-63 | 197 | 212 | 1/17/2008 | 326.77 | 33.14 | 293.63 |
| MW6-63 | MW6-63 | 197 | 212 | 9/4/2008 | 326.77 | 38.82 | 287.95 |
| MW6-63 | MW6-63 | 197 | 212 | 12/1/2010 | 326.77 | 41.79 | 284.98 |
| MW6-63 | MW6-63 | 197 | 212 | 7/11/2011 | 326.77 | 36.60 | 290.17 |
| MW6-63 | MW6-63 | 197 | 212 | 1/3/2012 | 326.77 | 33.61 | 293.16 |
| MW6-63 | MW6-63 | 197 | 212 | 7/24/2012 | 326.77 | 23.12 | 303.65 |
| MW6-63 | MW6-63 | 197 | 212 | 2/25/2013[B] | 326.77 | not measured | not measured |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 2/13/2003 | 327.14 | 22.20 | 304.94 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 6/24/2003 | 327.14 | 22.39 | 304.75 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 10/20/2003 | 327.14 | 22.84 | 304.30 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 6/28/2005 | 327.14 | 21.88 | 305.26 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 12/5/2005 | 327.14 | 21.98 | 305.16 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 6/29/2006 | 327.14 | 21.79 | 305.35 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 2/1/2007 | 327.14 | 22.05 | 305.09 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 6/12/2007 | 327.14 | 22.10 | 305.04 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 1/17/2008 | 327.14 | 23.21 | 303.93 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 9/4/2008 | 327.14 | 22.67 | 304.47 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 12/1/2010 | 327.14 | 23.06 | 304.08 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 7/11/2011 | 327.14 | 22.35 | 304.79 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 1/3/2012 | 327.14 | 22.26 | 304.88 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 7/24/2012 | 327.14 | 64.77 | 262.37 |
| MW6-64 | MW6-64 | 17.4 | 37.4 | 2/25/2013[B] | 327.14 | not measured | not measured |
| MW6-65 | MW6-65 | 97 | 112 | 12/5/2005 | 326.75 | 27.46 | 299.29 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-65 | MW6-65 | 97 | 112 | 6/29/2006 | 326.75 | 26.37 | 300.38 |
| MW6-65 | MW6-65 | 97 | 112 | 2/1/2007 | 326.75 | 26.44 | 300.31 |
| MW6-65 | MW6-65 | 97 | 112 | 6/12/2007 | 326.75 | 27.44 | 299.31 |
| MW6-65 | MW6-65 | 97 | 112 | 1/17/2008 | 326.75 | 29.13 | 297.62 |
| MW6-65 | MW6-65 | 97 | 112 | 9/4/2008 | 326.75 | 29.77 | 296.98 |
| MW6-65 | MW6-65 | 97 | 112 | 12/1/2010 | 326.75 | 32.22 | 294.53 |
| MW6-65 | MW6-65 | 97 | 112 | 7/11/2011 | 326.75 | 29.43 | 297.32 |
| MW6-65 | MW6-65 | 97 | 112 | 1/3/2012 | 326.75 | 28.97 | 297.78 |
| MW6-65 | MW6-65 | 97 | 112 | 7/24/2012 | 326.75 | 29.21 | 297.54 |
| MW6-65 | MW6-65 | 97 | 112 | 2/25/2013[B] | 326.75 | not measured | not measured |
| MW6-71 | MW6-71 | 210 | 230 | 2/13/2003 | 345.71 | 20.73 | 324.98 |
| MW6-71 | MW6-71 | 210 | 230 | 10/27/2003 | 345.71 | 21.55 | 324.16 |
| MW6-71 | MW6-71 | 210 | 230 | 6/28/2005 | 345.71 | 19.97 | 325.74 |
| MW6-71 | MW6-71 | 210 | 230 | 6/29/2006 | 345.71 | 20.04 | 325.67 |
| MW6-71 | MW6-71 | 210 | 230 | 2/1/2007 | 345.71 | 17.73 | 327.98 |
| MW6-71 | MW6-71 | 210 | 230 | 6/12/2007 | 345.71 | 22.39 | 323.32 |
| MW6-71 | MW6-71 | 210 | 230 | 1/17/2008 | 345.71 | 19.53 | 326.18 |
| MW6-71 | MW6-71 | 210 | 230 | 9/4/2008 | 345.71 | 24.42 | 321.29 |
| MW6-71 | MW6-71 | 210 | 230 | 7/11/2011B | 345.71 | not measured | not measured |
| MW6-81 | MW6-81 | 103 | 118 | 2/13/2003 | 378.26 | 19.90 | 358.36 |
| MW6-81 | MW6-81 | 103 | 118 | 6/24/2003 | 378.26 | 19.40 | 358.86 |
| MW6-81 | MW6-81 | 103 | 118 | 10/20/2003 | 378.26 | 20.35 | 357.91 |
| MW6-81 | MW6-81 | 103 | 118 | 6/27/2005 | 378.26 | 20.70 | 357.56 |
| MW6-81 | MW6-81 | 103 | 118 | 12/5/2005 | 378.26 | 18.20 | 360.06 |
| MW6-81 | MW6-81 | 103 | 118 | 6/29/2006 | 378.26 | 22.42 | 355.84 |
| MW6-81 | MW6-81 | 103 | 118 | 2/1/2007 | 378.26 | 19.77 | 358.49 |
| MW6-81 | MW6-81 | 103 | 118 | 6/12/2007 | 378.26 | 23.62 | 354.64 |
| MW6-81 | MW6-81 | 103 | 118 | 1/17/2008 | 378.26 | 20.29 | 357.97 |
| MW6-81 | MW6-81 | 103 | 118 | 9/4/2008 | 378.26 | 23.79 | 354.47 |
| MW6-81 | MW6-81 | 103 | 118 | 7/11/2011[B] | 378.26 | not measured | not measured |
| MW6-82 | MW6-82 | 16 | 26 | 2/13/2003 | 377.57 | 16.52 | 361.05 |
| MW6-82 | MW6-82 | 16 | 26 | 6/24/2003 | 377.57 | 16.40 | 361.17 |
| MW6-82 | MW6-82 | 16 | 26 | 10/20/2003 | 377.57 | 16.63 | 360.94 |
| MW6-82 | MW6-82 | 16 | 26 | 6/27/2005 | 377.57 | 15.83 | 361.74 |
| MW6-82 | MW6-82 | 16 | 26 | 12/5/2005 | 377.57 | 15.88 | 361.69 |
| MW6-82 | MW6-82 | 16 | 26 | 6/29/2006 | 377.57 | 16.16 | 361.41 |
| MW6-82 | MW6-82 | 16 | 26 | 2/1/2007 | 377.57 | 16.32 | 361.25 |
| MW6-82 | MW6-82 | 16 | 26 | 6/12/2007 | 377.57 | 16.65 | 360.92 |
| MW6-82 | MW6-82 | 16 | 26 | 1/17/2008 | 377.57 | 16.58 | 360.99 |
| MW6-82 | MW6-82 | 16 | 26 | 9/4/2008 | 377.57 | 16.98 | 360.59 |
| MW6-82 | MW6-82 | 16 | 26 | 7/11/2011[B] | 377.57 | not measured | not measured |
| **Multiport Wells** | | | | | | | |
| MP21-1 | MP-21-01 | 530 | 540 | 8/21/2003 | 302.12 | n/a[M] | 141.75 |
| MP21-1 | MP-21-01 | 530 | 540 | 10/21/2003 | 302.12 | n/a[M] | 158.97 |
| MP21-1 | MP-21-01 | 530 | 540 | 11/6/2003 | 302.12 | n/a[M] | 161.07 |
| MP21-1 | MP-21-01 | 530 | 540 | 6/28/2005 | 302.12 | n/a[M] | 177.22 |
| MP21-1 | MP-21-01 | 530 | 540 | 12/7/2005 | 302.12 | n/a[M] | 184.33 |
| MP21-1 | MP-21-01 | 530 | 540 | 7/5/2006 | 302.12 | n/a[M] | 178.74 |
| MP21-1 | MP-21-01 | 530 | 540 | 2/1/2007 | 302.12 | n/a[M] | 191.37 |
| MP21-1 | MP-21-01 | 530 | 540 | 6/14/2007 | 302.12 | n/a[M] | 127.65 |
| MP21-1 | MP-21-01 | 530 | 540 | 1/17/2008 | 302.12 | n/a[M] | 165.65 |
| MP21-1 | MP-21-01 | 530 | 540 | 9/3/2008 | 302.12 | n/a[M] | 145.81 |
| MP21-1 | MP-21-01 | 530 | 540 | 12/17/2010 | 302.12 | n/a[M] | 197.16 |
| MP21-1 | MP-21-01 | 530 | 540 | 7/13/2011 | 302.12 | n/a[M] | 182.47 |
| MP21-1 | MP-21-01 | 530 | 540 | 1/4/2012 | 302.12 | n/a[M] | 207.00 |
| MP21-1 | MP-21-01 | 530 | 540 | 7/31/2012 | 302.12 | n/a[M] | 193.66 |
| MP21-1 | MP-21-01 | 530 | 540 | 2/5/2013 | 302.12 | n/a[M] | 201.34 |
| MP21-1 | MP-21-01 | 530 | 540 | 2/26/2013 | 302.12 | n/a[M] | 197.72 |
| MP21-1 | MP-21-01 | 530 | 540 | 8/19/2013 | 302.12 | n/a[M] | 136.40 |
| MP21-1 | MP-21-01 | 530 | 540 | 3/14/2014 | 302.12 | n/a[M] | 168.95 |
| MP21-1 | MP-21-01 | 530 | 540 | 8/7/2014 | 302.12 | n/a[M] | 133.96 |
| MP21-1 | MP-21-01 | 530 | 540 | 8/26/2014 | 302.12 | n/a[M] | 136.66 |
| MP21-2 | MP-21-02 | 435 | 445 | 8/21/2003 | 302.12 | n/a[M] | 143.59 |
| MP21-2 | MP-21-02 | 435 | 445 | 10/21/2003 | 302.12 | n/a[M] | 162.67 |
| MP21-2 | MP-21-02 | 435 | 445 | 11/6/2003 | 302.12 | n/a[M] | 161.26 |
| MP21-2 | MP-21-02 | 435 | 445 | 6/28/2005 | 302.12 | n/a[M] | 174.09 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MP21-2 | MP-21-02 | 435 | 445 | 12/7/2005 | 302.12 | n/a[M] | 185.42 |
| MP21-2 | MP-21-02 | 435 | 445 | 7/5/2006 | 302.12 | n/a[M] | 178.17 |
| MP21-2 | MP-21-02 | 435 | 445 | 2/1/2007 | 302.12 | n/a[M] | 190.49 |
| MP21-2 | MP-21-02 | 435 | 445 | 6/14/2007 | 302.12 | n/a[M] | 163.25 |
| MP21-2 | MP-21-02 | 435 | 445 | 1/17/2008 | 302.12 | n/a[M] | 193.67 |
| MP21-2 | MP-21-02 | 435 | 445 | 9/3/1938 | 302.12 | n/a[M] | 149.03 |
| MP21-2 | MP-21-02 | 435 | 445 | 12/17/2010 | 302.12 | n/a[M] | 199.56 |
| MP21-2 | MP-21-02 | 435 | 445 | 7/13/2011 | 302.12 | n/a[M] | 184.84 |
| MP21-2 | MP-21-02 | 435 | 445 | 1/4/2012 | 302.12 | n/a[M] | 209.71 |
| MP21-2 | MP-21-02 | 435 | 445 | 7/31/2012 | 302.12 | n/a[M] | 200.23 |
| MP21-2 | MP-21-02 | 435 | 445 | 2/5/2013 | 302.12 | n/a[M] | 205.31 |
| MP21-2 | MP-21-02 | 435 | 445 | 2/26/2013 | 302.12 | n/a[M] | 201.57 |
| MP21-2 | MP-21-02 | 435 | 445 | 8/19/2013 | 302.12 | n/a[M] | 159.49 |
| MP21-2 | MP-21-02 | 435 | 445 | 3/14/2014 | 302.12 | n/a[M] | 210.92 |
| MP21-2 | MP-21-02 | 435 | 445 | 8/7/2014 | 302.12 | n/a[M] | 145.33 |
| MP21-2 | MP-21-02 | 435 | 445 | 8/26/2014 | 302.12 | n/a[M] | 146.16 |
| MP21-3 | MP-21-03 | 365 | 375 | 8/21/2003 | 302.12 | n/a[M] | 180.48 |
| MP21-3 | MP-21-03 | 365 | 375 | 10/21/2003 | 302.12 | n/a[M] | 184.95 |
| MP21-3 | MP-21-03 | 365 | 375 | 11/6/2003 | 302.12 | n/a[M] | 190.87 |
| MP21-3 | MP-21-03 | 365 | 375 | 6/28/2005 | 302.12 | n/a[M] | 211.96 |
| MP21-3 | MP-21-03 | 365 | 375 | 12/7/2005 | 302.12 | n/a[M] | 215.77 |
| MP21-3 | MP-21-03 | 365 | 375 | 7/5/2006 | 302.12 | n/a[M] | 219.13 |
| MP21-3 | MP-21-03 | 365 | 375 | 2/1/2007 | 302.12 | n/a[M] | 215.44 |
| MP21-3 | MP-21-03 | 365 | 375 | 6/14/2007 | 302.12 | n/a[M] | 202.03 |
| MP21-3 | MP-21-03 | 365 | 375 | 1/17/2008 | 302.12 | n/a[M] | 203.92 |
| MP21-3 | MP-21-03 | 365 | 375 | 9/3/2008 | 302.12 | n/a[M] | 185.21 |
| MP21-3 | MP-21-03 | 365 | 375 | 12/17/2010 | 302.12 | n/a[M] | 202.17 |
| MP21-3 | MP-21-03 | 365 | 375 | 7/13/2011 | 302.12 | n/a[M] | 200.79 |
| MP21-3 | MP-21-03 | 365 | 375 | 1/4/2012 | 302.12 | n/a[M] | 216.45 |
| MP21-3 | MP-21-03 | 365 | 375 | 7/31/2012 | 302.12 | n/a[M] | 204.60 |
| MP21-3 | MP-21-03 | 365 | 375 | 2/5/2013 | 302.12 | n/a[M] | 206.79 |
| MP21-3 | MP-21-03 | 365 | 375 | 2/26/2013 | 302.12 | n/a[M] | 204.35 |
| MP21-3 | MP-21-03 | 365 | 375 | 8/19/2013 | 302.12 | n/a[M] | 175.65 |
| MP21-3 | MP-21-03 | 365 | 375 | 3/14/2014 | 302.12 | n/a[M] | 176.50 |
| MP21-3 | MP-21-03 | 365 | 375 | 8/7/2014 | 302.12 | n/a[M] | 161.11 |
| MP21-3 | MP-21-03 | 365 | 375 | 8/26/2014 | 302.12 | n/a[M] | 161.85 |
| MP21-4 | MP-21-04 | 320 | 330 | 8/21/2003 | 302.12 | n/a[M] | 175.86 |
| MP21-4 | MP-21-04 | 320 | 330 | 10/21/2003 | 302.12 | n/a[M] | 184.14 |
| MP21-4 | MP-21-04 | 320 | 330 | 11/6/2003 | 302.12 | n/a[M] | 194.62 |
| MP21-4 | MP-21-04 | 320 | 330 | 6/28/2005 | 302.12 | n/a[M] | 203.02 |
| MP21-4 | MP-21-04 | 320 | 330 | 12/7/2005 | 302.12 | n/a[M] | 209.50 |
| MP21-4 | MP-21-04 | 320 | 330 | 7/5/2006 | 302.12 | n/a[M] | 208.83 |
| MP21-4 | MP-21-04 | 320 | 330 | 2/1/2007 | 302.12 | n/a[M] | 214.46 |
| MP21-4 | MP-21-04 | 320 | 330 | 6/14/2007 | 302.12 | n/a[M] | 197.22 |
| MP21-4 | MP-21-04 | 320 | 330 | 1/17/2008 | 302.12 | n/a[M] | 207.81 |
| MP21-4 | MP-21-04 | 320 | 330 | 9/3/2008 | 302.12 | n/a[M] | 181.28 |
| MP21-4 | MP-21-04 | 320 | 330 | 12/17/2010 | 302.12 | n/a[M] | 205.88 |
| MP21-4 | MP-21-04 | 320 | 330 | 7/13/2011 | 302.12 | n/a[M] | 197.78 |
| MP21-4 | MP-21-04 | 320 | 330 | 1/4/2012 | 302.12 | n/a[M] | 218.18 |
| MP21-4 | MP-21-04 | 320 | 330 | 7/31/2012 | 302.12 | n/a[M] | 207.73 |
| MP21-4 | MP-21-04 | 320 | 330 | 2/5/2013 | 302.12 | n/a[M] | 210.13 |
| MP21-4 | MP-21-04 | 320 | 330 | 2/26/2013 | 302.12 | n/a[M] | 207.36 |
| MP21-4 | MP-21-04 | 320 | 330 | 8/19/2013 | 302.12 | n/a[M] | 178.80 |
| MP21-4 | MP-21-04 | 320 | 330 | 3/14/2014 | 302.12 | n/a[M] | 182.81 |
| MP21-4 | MP-21-04 | 320 | 330 | 8/7/2014 | 302.12 | n/a[M] | 165.60 |
| MP21-4 | MP-21-04 | 320 | 330 | 8/26/2014 | 302.12 | n/a[M] | 166.53 |
| MP21-5 | MP-21-05 | 245 | 255 | 8/21/2003 | 302.12 | n/a[M] | 218.82 |
| MP21-5 | MP-21-05 | 245 | 255 | 10/21/2003 | 302.12 | n/a[M] | 217.80 |
| MP21-5 | MP-21-05 | 245 | 255 | 11/6/2003 | 302.12 | n/a[M] | 221.09 |
| MP21-5 | MP-21-05 | 245 | 255 | 6/28/2005 | 302.12 | n/a[M] | 237.06 |
| MP21-5 | MP-21-05 | 245 | 255 | 12/7/2005 | 302.12 | n/a[M] | 241.04 |
| MP21-5 | MP-21-05 | 245 | 255 | 7/5/2006 | 302.12 | n/a[M] | 247.41 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MP21-5 | MP-21-05 | 245 | 255 | 2/1/2007 | 302.12 | n/a[M] | 244.08 |
| MP21-5 | MP-21-05 | 245 | 255 | 6/14/2007 | 302.12 | n/a[M] | 237.41 |
| MP21-5 | MP-21-05 | 245 | 255 | 1/17/2008 | 302.12 | n/a[M] | 230.67 |
| MP21-5 | MP-21-05 | 245 | 255 | 9/3/2008 | 302.12 | n/a[M] | 223.22 |
| MP21-5 | MP-21-05 | 245 | 255 | 12/17/2010 | 302.12 | n/a[M] | 220.78 |
| MP21-5 | MP-21-05 | 245 | 255 | 7/13/2011 | 302.12 | n/a[M] | 231.46 |
| MP21-5 | MP-21-05 | 245 | 255 | 1/4/2012 | 302.12 | n/a[M] | 239.71 |
| MP21-5 | MP-21-05 | 245 | 255 | 7/31/2012 | 302.12 | n/a[M] | 231.97 |
| MP21-5 | MP-21-05 | 245 | 255 | 2/5/2013 | 302.12 | n/a[M] | 229.88 |
| MP21-5 | MP-21-05 | 245 | 255 | 2/26/2013 | 302.12 | n/a[M] | 229.14 |
| MP21-5 | MP-21-05 | 245 | 255 | 8/19/2013 | 302.12 | n/a[M] | 218.80 |
| MP21-5 | MP-21-05 | 245 | 255 | 3/14/2014 | 302.12 | n/a[M] | 215.36 |
| MP21-5 | MP-21-05 | 245 | 255 | 8/7/2014 | 302.12 | n/a[M] | 208.79 |
| MP21-5 | MP-21-05 | 245 | 255 | 8/26/2014 | 302.12 | n/a[M] | 207.94 |
| MP21-6 | MP-21-06 | 150 | 160 | 8/21/2003 | 302.12 | n/a[M] | 226.10 |
| MP21-6 | MP-21-06 | 150 | 160 | 10/21/2003 | 302.12 | n/a[M] | 224.40 |
| MP21-6 | MP-21-06 | 150 | 160 | 11/6/2003 | 302.12 | n/a[M] | 226.02 |
| MP21-6 | MP-21-06 | 150 | 160 | 6/28/2005 | 302.12 | n/a[M] | 235.53 |
| MP21-6 | MP-21-06 | 150 | 160 | 12/7/2005 | 302.12 | n/a[M] | 241.22 |
| MP21-6 | MP-21-06 | 150 | 160 | 7/5/2006 | 302.12 | n/a[M] | 245.01 |
| MP21-6 | MP-21-06 | 150 | 160 | 2/1/2007 | 302.12 | n/a[M] | 248.00 |
| MP21-6 | MP-21-06 | 150 | 160 | 6/14/2007 | 302.12 | n/a[M] | 244.24 |
| MP21-6 | MP-21-06 | 150 | 160 | 1/17/2008 | 302.12 | n/a[M] | 237.09 |
| MP21-6 | MP-21-06 | 150 | 160 | 9/3/2008 | 302.12 | n/a[M] | 230.74 |
| MP21-6 | MP-21-06 | 150 | 160 | 12/17/2010 | 302.12 | n/a[M] | 221.91 |
| MP21-6 | MP-21-06 | 150 | 160 | 7/13/2011 | 302.12 | n/a[M] | 232.31 |
| MP21-6 | MP-21-06 | 150 | 160 | 1/4/2012 | 302.12 | n/a[M] | 239.18 |
| MP21-6 | MP-21-06 | 150 | 160 | 7/31/2012 | 302.12 | n/a[M] | 236.96 |
| MP21-6 | MP-21-06 | 150 | 160 | 2/5/2013 | 302.12 | n/a[M] | 233.86 |
| MP21-6 | MP-21-06 | 150 | 160 | 2/26/2013 | 302.12 | n/a[M] | 233.45 |
| MP21-6 | MP-21-06 | 150 | 160 | 8/19/2013 | 302.12 | n/a[M] | 227.54 |
| MP21-6 | MP-21-06 | 150 | 160 | 3/14/2014 | 302.12 | n/a[M] | 222.47 |
| MP21-6 | MP-21-06 | 150 | 160 | 8/7/2014 | 302.12 | n/a[M] | 217.55 |
| MP21-6 | MP-21-06 | 150 | 160 | 8/26/2014 | 302.12 | n/a[M] | 216.75 |
| MP20-1 | MP-20-01 | 434 | 444 | 4/26/2002 | 309.25[H] | n/a[M] | 194.14 |
| MP20-1 | MP-20-01 | 434 | 444 | 12/5/2002 | 309.25[H] | n/a[M] | 187.29 |
| MP20-1 | MP-20-01 | 434 | 444 | 2/14/2003 | 309.25[H] | n/a[M] | 192.78 |
| MP20-1 | MP-20-01 | 434 | 444 | 10/21/2003 | 309.25[H] | n/a[M] | 182.83 |
| MP20-1 | MP-20-01 | 434 | 444 | 11/6/2003 | 309.25[H] | n/a[M] | 190.28 |
| MP20-1 | MP-20-01 | 434 | 444 | 6/29/2005 | 309.25[H] | n/a[M] | 210.15 |
| MP20-1 | MP-20-01 | 434 | 444 | 12/8/2005 | 309.25[H] | n/a[M] | 214.38 |
| MP20-1 | MP-20-01 | 434 | 444 | 7/3/2006 | 309.25[H] | n/a[M] | 219.00 |
| MP20-1 | MP-20-01 | 434 | 444 | 2/2/2007 | 309.25[H] | n/a[M] | 214.99 |
| MP20-1 | MP-20-01 | 434 | 444 | 6/13/2007 | 309.25[H] | n/a[M] | 202.79 |
| MP20-1 | MP-20-01 | 434 | 444 | 1/17/2008 | 309.25[H] | n/a[M] | 203.11 |
| MP20-1 | MP-20-01 | 434 | 444 | 9/3/2008 | 309.25[H] | n/a[M] | 185.42 |
| MP20-1 | MP-20-01 | 434 | 444 | 12/20/2010 | 309.25[H] | n/a[M] | 202.42 |
| MP20-1 | MP-20-01 | 434 | 444 | 7/12/2011 | 309.25[H] | n/a[M] | 197.74 |
| MP20-1 | MP-20-01 | 434 | 444 | 1/5/2012 | 309.25[H] | n/a[M] | 215.91 |
| MP20-1 | MP-20-01 | 434 | 444 | 7/30/2012 | 309.25[H] | n/a[M] | 204.82 |
| MP20-1 | MP-20-01 | 434 | 444 | 2/4/2013 | 309.25[H] | n/a[M] | 206.76 |
| MP20-1 | MP-20-01 | 434 | 444 | 2/26/2013 | 309.25[H] | n/a[M] | 201.68 |
| MP20-1 | MP-20-01 | 434 | 444 | 8/20/2013 | 309.25[H] | n/a[M] | 173.44 |
| MP20-1 | MP-20-01 | 434 | 444 | 3/13/2014 | 309.25[H] | n/a[M] | 176.05 |
| MP20-1 | MP-20-01 | 434 | 444 | 8/6/2014 | 309.25[H] | n/a[M] | 160.20 |
| MP20-1 | MP-20-01 | 434 | 444 | 8/26/2014 | 309.25[H] | n/a[M] | 161.70 |
| MP20-2 | MP-20-02 | 336 | 346 | 4/26/2002 | 309.25[H] | n/a[M] | 207.80 |
| MP20-2 | MP-20-02 | 336 | 346 | 12/5/2002 | 309.25[H] | n/a[M] | 201.21 |
| MP20-2 | MP-20-02 | 336 | 346 | 2/14/2003 | 309.25[H] | n/a[M] | 205.48 |
| MP20-2 | MP-20-02 | 336 | 346 | 10/21/2003 | 309.25[H] | n/a[M] | 198.37 |
| MP20-2 | MP-20-02 | 336 | 346 | 11/6/2003 | 309.25[H] | n/a[M] | 201.01 |
| MP20-2 | MP-20-02 | 336 | 346 | 6/29/2005 | 309.25[H] | n/a[M] | 218.39 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MP20-2 | MP-20-02 | 336 | 346 | 12/8/2005 | 309.25[H] | n/a[M] | 224.77 |
| MP20-2 | MP-20-02 | 336 | 346 | 7/3/2006 | 309.25[H] | n/a[M] | 230.35 |
| MP20-2 | MP-20-02 | 336 | 346 | 2/2/2007 | 309.25[H] | n/a[M] | 227.77 |
| MP20-2 | MP-20-02 | 336 | 346 | 6/13/2007 | 309.25[H] | n/a[M] | 216.74 |
| MP20-2 | MP-20-02 | 336 | 346 | 1/17/2008 | 309.25[H] | n/a[M] | 214.25 |
| MP20-2 | MP-20-02 | 336 | 346 | 9/3/2008 | 309.25[H] | n/a[M] | 199.97 |
| MP20-2 | MP-20-02 | 336 | 346 | 12/17/2010 | 309.25[H] | n/a[M] | 207.69 |
| MP20-2 | MP-20-02 | 336 | 346 | 7/12/2011 | 309.25[H] | n/a[M] | 211.36 |
| MP20-2 | MP-20-02 | 336 | 346 | 1/5/2012 | 309.25[H] | n/a[M] | 224.22 |
| MP20-2 | MP-20-02 | 336 | 346 | 7/30/2012 | 309.25[H] | n/a[M] | 215.72 |
| MP20-2 | MP-20-02 | 336 | 346 | 2/4/2013 | 309.25[H] | n/a[M] | 214.78 |
| MP20-2 | MP-20-02 | 336 | 346 | 2/26/2013 | 309.25[H] | n/a[M] | 212.61 |
| MP20-2 | MP-20-02 | 336 | 346 | 8/20/2013 | 309.25[H] | n/a[M] | 194.11 |
| MP20-2 | MP-20-02 | 336 | 346 | 3/13/2014 | 309.25[H] | n/a[M] | 193.09 |
| MP20-2 | MP-20-02 | 336 | 346 | 8/6/2014 | 309.25[H] | n/a[M] | 181.83 |
| MP20-2 | MP-20-02 | 336 | 346 | 8/26/2014 | 309.25[H] | n/a[M] | 181.74 |
| MP20-3 | MP-20-03 | 288 | 298 | 4/26/2002 | 309.25[H] | n/a[M] | 222.60 |
| MP20-3 | MP-20-03 | 288 | 298 | 12/5/2002 | 309.25[H] | n/a[M] | 215.80 |
| MP20-3 | MP-20-03 | 288 | 298 | 2/14/2003 | 309.25[H] | n/a[M] | 214.90 |
| MP20-3 | MP-20-03 | 288 | 298 | 10/21/2003 | 309.25[H] | n/a[M] | 210.88 |
| MP20-3 | MP-20-03 | 288 | 298 | 11/6/2003 | 309.25[H] | n/a[M] | 214.24 |
| MP20-3 | MP-20-03 | 288 | 298 | 6/29/2005 | 309.25[H] | n/a[M] | 230.62 |
| MP20-3 | MP-20-03 | 288 | 298 | 12/8/2005 | 309.25[H] | n/a[M] | 235.77 |
| MP20-3 | MP-20-03 | 288 | 298 | 7/3/2006 | 309.25[H] | n/a[M] | 242.59 |
| MP20-3 | MP-20-03 | 288 | 298 | 2/2/2007 | 309.25[H] | n/a[M] | 238.13 |
| MP20-3 | MP-20-03 | 288 | 298 | 6/13/2007 | 309.25[H] | n/a[M] | 231.37 |
| MP20-3 | MP-20-03 | 288 | 298 | 1/17/2008 | 309.25[H] | n/a[M] | 223.39 |
| MP20-3 | MP-20-03 | 288 | 298 | 9/3/2008 | 309.25[H] | n/a[M] | 215.82 |
| MP20-3 | MP-20-03 | 288 | 298 | 12/20/2010 | 309.25[H] | n/a[M] | 214.14 |
| MP20-3 | MP-20-03 | 288 | 298 | 7/12/2011 | 309.25[H] | n/a[M] | 225.56 |
| MP20-3 | MP-20-03 | 288 | 298 | 1/5/2012 | 309.25[H] | n/a[M] | 232.70 |
| MP20-3 | MP-20-03 | 288 | 298 | 7/30/2012 | 309.25[H] | n/a[M] | 225.16 |
| MP20-3 | MP-20-03 | 288 | 298 | 2/4/2013 | 309.25[H] | n/a[M] | 222.47 |
| MP20-3 | MP-20-03 | 288 | 298 | 2/26/2013 | 309.25[H] | n/a[M] | 221.27 |
| MP20-3 | MP-20-03 | 288 | 298 | 8/20/2013 | 309.25[H] | n/a[M] | 210.40 |
| MP20-3 | MP-20-03 | 288 | 298 | 3/13/2014 | 309.25[H] | n/a[M] | 206.94 |
| MP20-3 | MP-20-03 | 288 | 298 | 8/6/2014 | 309.25[H] | n/a[M] | 200.16 |
| MP20-3 | MP-20-03 | 288 | 298 | 8/26/2014 | 309.25[H] | n/a[M] | 199.33 |
| MP20-4 | MP-20-04 | 194 | 204 | 4/26/2002 | 309.25[H] | n/a[M] | 231.35 |
| MP20-4 | MP-20-04 | 194 | 204 | 12/5/2002 | 309.25[H] | n/a[M] | 224.30 |
| MP20-4 | MP-20-04 | 194 | 204 | 2/14/2003 | 309.25[H] | n/a[M] | 222.40 |
| MP20-4 | MP-20-04 | 194 | 204 | 10/21/2003 | 309.25[H] | n/a[M] | 218.28 |
| MP20-4 | MP-20-04 | 194 | 204 | 11/6/2003 | 309.25[H] | n/a[M] | 220.21 |
| MP20-4 | MP-20-04 | 194 | 204 | 6/29/2005 | 309.25[H] | n/a[M] | 231.07 |
| MP20-4 | MP-20-04 | 194 | 204 | 12/8/2005 | 309.25[H] | n/a[M] | 238.27 |
| MP20-4 | MP-20-04 | 194 | 204 | 7/3/2006 | 309.25[H] | n/a[M] | 245.64 |
| MP20-4 | MP-20-04 | 194 | 204 | 2/2/2007 | 309.25[H] | n/a[M] | 243.46 |
| MP20-4 | MP-20-04 | 194 | 204 | 6/13/2007 | 309.25[H] | n/a[M] | 239.00 |
| MP20-4 | MP-20-04 | 194 | 204 | 1/17/2008 | 309.25[H] | n/a[M] | 230.79 |
| MP20-4 | MP-20-04 | 194 | 204 | 9/3/2008 | 309.25[H] | n/a[M] | 224.19 |
| MP20-4 | MP-20-04 | 194 | 204 | 12/20/2010 | 309.25[H] | n/a[M] | 217.02 |
| MP20-4 | MP-20-04 | 194 | 204 | 7/12/2011 | 309.25[H] | n/a[M] | 228.78 |
| MP20-4 | MP-20-04 | 194 | 204 | 1/5/2012 | 309.25[H] | n/a[M] | 234.87 |
| MP20-4 | MP-20-04 | 194 | 204 | 7/30/2012 | 309.25[H] | n/a[M] | 231.21 |
| MP20-4 | MP-20-04 | 194 | 204 | 2/4/2013 | 309.25[H] | n/a[M] | 227.63 |
| MP20-4 | MP-20-04 | 194 | 204 | 2/26/2013 | 309.25[H] | n/a[M] | 227.15 |
| MP20-4 | MP-20-04 | 194 | 204 | 8/20/2013 | 309.25[H] | n/a[M] | 220.06 |
| MP20-4 | MP-20-04 | 194 | 204 | 3/13/2014 | 309.25[H] | n/a[M] | 215.24 |
| MP20-4 | MP-20-04 | 194 | 204 | 8/6/2014 | 309.25[H] | n/a[M] | 209.91 |
| MP20-4 | MP-20-04 | 194 | 204 | 8/26/2014 | 309.25[H] | n/a[M] | 209.01 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 4/26/2002 | 309.25[H] | n/a[M] | 235.73 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 12/5/2002 | 309.25[H] | n/a[M] | 229.33 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 2/14/2003 | 309.25[H] | n/a[M] | 226.91 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 10/21/2003 | 309.25[H] | n/a[M] | 224.05 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 11/6/2003 | 309.25[H] | n/a[M] | 225.47 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 6/29/2005 | 309.25[H] | n/a[M] | 223.98 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 12/8/2005 | 309.25[H] | n/a[M] | 231.72 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 7/3/2006 | 309.25[H] | n/a[M] | 240.71 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 2/2/2007 | 309.25[H] | n/a[M] | 243.50 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 6/13/2007 | 309.25[H] | n/a[M] | 241.88 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 1/17/2008 | 309.25[H] | n/a[M] | 235.84 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 9/3/2008 | 309.25[H] | n/a[M] | 229.26 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 12/20/2010 | 309.25[H] | n/a[M] | 225.62 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 7/12/2011 | 309.25[H] | n/a[M] | 225.62 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 1/5/2012 | 309.25[H] | n/a[M] | 227.81 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 7/30/2012 | 309.25[H] | n/a[M] | 231.94 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 2/4/2013 | 309.25[H] | n/a[M] | 229.36 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 2/26/2013 | 309.25[H] | n/a[M] | 228.96 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 8/20/2013 | 309.25[H] | n/a[M] | 225.67 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 3/13/2014 | 309.25[H] | n/a[M] | 225.30 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 8/6/2014 | 309.25[H] | n/a[M] | 225.34 |
| MP20-5 | MP-20-05 | 75.5 | 85.5 | 8/26/2014 | 309.25[H] | n/a[M] | 225.23 |
| MW6-1-1 | EPAMW6-1-1 | 110 | 120 | 2/14/2003[A] | 303.26 | n/a[M] | 200.57 |
| MW6-1-1 | EPAMW6-1-1 | 110 | 120 | 7/31/2012 | 303.26 | n/a[M] | 207.49 |
| MW6-1-1 | EPAMW6-1-1 | 110 | 120 | 2/4/2013 | 303.26 | n/a[M] | 206.55 |
| MW6-1-1 | EPAMW6-1-1 | 110 | 120 | 2/26/2013 | 303.26 | n/a[M] | 205.51 |
| MW6-1-1 | EPAMW6-1-1 | 110 | 120 | 8/21/2013 | 303.26 | n/a[M] | 192.38 |
| MW6-1-1 | EPAMW6-1-1 | 110 | 120 | 3/12/2014 | 303.26 | n/a[M] | 192.17 |
| MW6-1-1 | EPAMW6-1-1 | 110 | 120 | 8/8/2014 | 303.26 | n/a[M] | 187.56 |
| MW6-1-1 | EPAMW6-1-1 | 110 | 120 | 8/26/2014 | 303.26 | n/a[M] | 187.35 |
| MW6-1-2 | EPAMW6-1-2 | 148 | 158 | 2/14/2003[A] | 303.26 | n/a[M] | 200.20 |
| MW6-1-2 | EPAMW6-1-2 | 148 | 158 | 7/31/2010 | 303.26 | n/a[M] | 207.14 |
| MW6-1-2 | EPAMW6-1-2 | 148 | 158 | 2/4/2013 | 303.26 | n/a[M] | 206.29 |
| MW6-1-2 | EPAMW6-1-2 | 148 | 158 | 2/26/2013 | 303.26 | n/a[M] | 205.32 |
| MW6-1-2 | EPAMW6-1-2 | 148 | 158 | 8/21/2013 | 303.26 | n/a[M] | 192.08 |
| MW6-1-2 | EPAMW6-1-2 | 148 | 158 | 3/12/2014 | 303.26 | n/a[M] | 191.94 |
| MW6-1-2 | EPAMW6-1-2 | 148 | 158 | 8/8/2014 | 303.26 | n/a[M] | 182.48 |
| MW6-1-2 | EPAMW6-1-2 | 148 | 158 | 8/26/2014 | 303.26 | n/a[M] | 181.47 |
| MW6-1-3 | EPAMW6-1-3 | 208 | 212 | 2/14/2003[A] | 303.26 | n/a[M] | 198.22 |
| MW6-1-3 | EPAMW6-1-3 | 208 | 212 | 7/31/2012 | 303.26 | n/a[M] | 205.16 |
| MW6-1-3 | EPAMW6-1-3 | 208 | 212 | 2/4/2013 | 303.26 | n/a[M] | 205.00 |
| MW6-1-3 | EPAMW6-1-3 | 208 | 212 | 2/26/2013 | 303.26 | n/a[M] | 203.85 |
| MW6-1-3 | EPAMW6-1-3 | 208 | 212 | 8/21/2013 | 303.26 | n/a[M] | 187.49 |
| MW6-1-3 | EPAMW6-1-3 | 208 | 212 | 3/12/2014 | 303.26 | n/a[M] | 188.72 |
| MW6-1-3 | EPAMW6-1-3 | 208 | 212 | 8/8/2014 | 303.26 | n/a[M] | 170.84 |
| MW6-1-3 | EPAMW6-1-3 | 208 | 212 | 8/26/2014 | 303.26 | n/a[M] | 169.64 |
| MW6-1-4 | EPAMW6-1-4 | 278 | 288 | 2/14/2003[A] | 303.26 | n/a[M] | 193.53 |
| MW6-1-4 | EPAMW6-1-4 | 278 | 288 | 7/31/2012 | 303.26 | n/a[M] | 201.63 |
| MW6-1-4 | EPAMW6-1-4 | 278 | 288 | 2/4/2013 | 303.26 | n/a[M] | 202.53 |
| MW6-1-4 | EPAMW6-1-4 | 278 | 288 | 2/26/2013 | 303.26 | n/a[M] | 201.03 |
| MW6-1-4 | EPAMW6-1-4 | 278 | 288 | 8/21/2013 | 303.26 | n/a[M] | 180.31 |
| MW6-1-4 | EPAMW6-1-4 | 278 | 288 | 3/12/2014 | 303.26 | n/a[M] | 184.53 |
| MW6-1-4 | EPAMW6-1-4 | 278 | 288 | 8/8/2014 | 303.26 | n/a[M] | 168.41 |
| MW6-1-4 | EPAMW6-1-4 | 278 | 288 | 8/26/2014 | 303.26 | n/a[M] | 167.19 |
| MW6-1-5 | EPAMW6-1-5 | 354 | 364 | 2/14/2003[A] | 303.26 | n/a[M] | 193.16 |
| MW6-1-5 | EPAMW6-1-5 | 354 | 364 | 7/31/2012 | 303.26 | n/a[M] | 201.47 |
| MW6-1-5 | EPAMW6-1-5 | 354 | 364 | 2/4/2013 | 303.26 | n/a[M] | 202.44 |
| MW6-1-5 | EPAMW6-1-5 | 354 | 364 | 2/26/2013 | 303.26 | n/a[M] | 200.89 |
| MW6-1-5 | EPAMW6-1-5 | 354 | 364 | 8/21/2013 | 303.26 | n/a[M] | 180.01 |
| MW6-1-5 | EPAMW6-1-5 | 354 | 364 | 3/12/2014 | 303.26 | n/a[M] | 184.37 |
| MW6-1-5 | EPAMW6-1-5 | 354 | 364 | 8/8/2014 | 303.26 | n/a[M] | 168.57 |
| MW6-1-5 | EPAMW6-1-5 | 354 | 364 | 8/26/2014 | 303.26 | n/a[M] | 167.30 |
| MW6-1-6 | EPAMW6-1-6 | 470 | 480 | 2/14/2003[A] | 303.26 | n/a[M] | 187.22 |
| MW6-1-6 | EPAMW6-1-6 | 470 | 480 | 7/31/2012 | 303.26 | n/a[M] | 200.04 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-1-6 | EPAMW6-1-6 | 470 | 480 | 2/4/2013 | 303.26 | n/a[M] | 200.87 |
| MW6-1-6 | EPAMW6-1-6 | 470 | 480 | 2/26/2013 | 303.26 | n/a[M] | 199.23 |
| MW6-1-6 | EPAMW6-1-6 | 470 | 480 | 8/21/2013 | 303.26 | n/a[M] | 177.55 |
| MW6-1-6 | EPAMW6-1-6 | 470 | 480 | 3/12/2014 | 303.26 | n/a[M] | 181.70 |
| MW6-1-6 | EPAMW6-1-6 | 470 | 480 | 8/8/2014 | 303.26 | n/a[M] | 167.03 |
| MW6-1-6 | EPAMW6-1-6 | 470 | 480 | 8/26/2014 | 303.26 | n/a[M] | 165.74 |
| MW6-1-7 | EPAMW6-1-7 | 594 | 604 | 2/14/2003[A] | 303.26 | n/a[M] | 187.09 |
| MW6-1-7 | EPAMW6-1-7 | 594 | 604 | 7/31/2012 | 303.26 | n/a[M] | 200.52 |
| MW6-1-7 | EPAMW6-1-7 | 594 | 604 | 2/4/2013 | 303.26 | n/a[M] | 202.90 |
| MW6-1-7 | EPAMW6-1-7 | 594 | 604 | 2/26/2013 | 303.26 | n/a[M] | 201.19 |
| MW6-1-7 | EPAMW6-1-7 | 594 | 604 | 8/21/2013 | 303.26 | n/a[M] | 174.61 |
| MW6-1-7 | EPAMW6-1-7 | 594 | 604 | 3/12/2014 | 303.26 | n/a[M] | 183.56 |
| MW6-1-7 | EPAMW6-1-7 | 594 | 604 | 8/8/2014 | 303.26 | n/a[M] | 165.59 |
| MW6-1-7 | EPAMW6-1-7 | 594 | 604 | 8/26/2014 | 303.26 | n/a[M] | 163.95 |
| MW6-1-8 | EPAMW6-1-8 | 679 | 689 | 2/14/2003[A] | 303.26 | n/a[M] | 186.67 |
| MW6-1-8 | EPAMW6-1-8 | 679 | 689 | 7/31/2012 | 303.26 | n/a[M] | 200.49 |
| MW6-1-8 | EPAMW6-1-8 | 679 | 689 | 2/4/2013 | 303.26 | n/a[M] | 202.95 |
| MW6-1-8 | EPAMW6-1-8 | 679 | 689 | 2/26/2013 | 303.26 | n/a[M] | 201.13 |
| MW6-1-8 | EPAMW6-1-8 | 679 | 689 | 8/21/2013 | 303.26 | n/a[M] | 173.70 |
| MW6-1-8 | EPAMW6-1-8 | 679 | 689 | 3/12/2014 | 303.26 | n/a[M] | 183.16 |
| MW6-1-8 | EPAMW6-1-8 | 679 | 689 | 8/8/2014 | 303.26 | n/a[M] | 164.45 |
| MW6-1-8 | EPAMW6-1-8 | 679 | 689 | 8/26/2014 | 303.26 | n/a[M] | 163.11 |
| MW6-1-9 | EPAMW6-1-9 | 790 | 800 | 2/14/2003[A] | 303.26 | n/a[M] | 189.07 |
| MW6-1-9 | EPAMW6-1-9 | 790 | 800 | 7/31/2012 | 303.26 | n/a[M] | 203.26 |
| MW6-1-9 | EPAMW6-1-9 | 790 | 800 | 2/4/2013 | 303.26 | n/a[M] | 204.44 |
| MW6-1-9 | EPAMW6-1-9 | 790 | 800 | 2/26/2013 | 303.26 | n/a[M] | 203.01 |
| MW6-1-9 | EPAMW6-1-9 | 790 | 800 | 8/21/2013 | 303.26 | n/a[M] | 181.78 |
| MW6-1-9 | EPAMW6-1-9 | 790 | 800 | 3/12/2014 | 303.26 | n/a[M] | 186.23 |
| MW6-1-9 | EPAMW6-1-9 | 790 | 800 | 8/8/2014 | 303.26 | n/a[M] | 171.33 |
| MW6-1-9 | EPAMW6-1-9 | 790 | 800 | 8/26/2014 | 303.26 | n/a[M] | 170.20 |
| **Single Completion Wells** | | | | | | | |
| MW7-1A | MW6-09i | 350 | 370 | 11/22/2002 | 309.06 | 103.04 | 206.02 |
| MW7-1A | MW6-09i | 350 | 370 | 2/13/2003 | 309.06 | 102.66 | 206.40 |
| MW7-1A | MW6-09i | 350 | 370 | 6/24/2003 | 309.06 | 105.33 | 203.73 |
| MW7-1A | MW6-09i | 350 | 370 | 10/20/2003 | 309.06 | 104.95 | 204.11 |
| MW7-1A | MW6-09i | 350 | 370 | 6/28/2005 | 309.06 | 80.06 | 229.00 |
| MW7-1A | MW6-09i | 350 | 370 | 12/5/2005 | 309.06 | 77.77 | 231.29 |
| MW7-1A | MW6-09i | 350 | 370 | 6/29/2006 | 309.06 | 71.20 | 237.86 |
| MW7-1A | MW6-09i | 350 | 370 | 2/1/2007 | 309.06 | 78.62 | 230.44 |
| MW7-1A | MW6-09i | 350 | 370 | 6/12/2007 | 309.06 | 85.92 | 223.14 |
| MW7-1A | MW6-09i | 350 | 370 | 1/17/2008 | 309.06 | 96.71 | 212.35 |
| MW7-1A | MW6-09i | 350 | 370 | 9/4/2008 | 309.06 | 103.92 | 205.14 |
| MW7-1A | MW6-09i | 350 | 370 | 12/1/2010 | 309.06 | 105.40 | 203.66 |
| MW7-1A | MW6-09i | 350 | 370 | 7/11/2011 | 309.06 | 87.84 | 221.22 |
| MW7-1A | MW6-09i | 350 | 370 | 1/3/2012 | 309.06 | 82.32 | 226.74 |
| MW7-1A | MW6-09i | 350 | 370 | 7/27/2012 | 309.06 | 93.31 | 215.75 |
| MW7-1A | MW6-09i | 350 | 370 | 2/25/2013 | 309.06 | 96.91 | 212.15 |
| MW7-1A | MW6-09i | 350 | 370 | 8/19/2013 | 309.06 | 109.80 | 199.26 |
| MW7-1A | MW6-09i | 350 | 370 | 3/13/2014 | 309.06 | 111.75 | 197.31 |
| MW7-1A | MW6-09i | 350 | 370 | 8/26/2014 | 309.06 | 121.58 | 187.48 |
| MW7-1B | MW6-9UI2 | 380 | 420 | 8/19/2013 | 309.15 | 109.81 | 199.34 |
| MW7-1B | MW6-9UI2 | 380 | 420 | 3/13/2014 | 309.15 | 111.98 | 197.17 |
| MW7-1B | MW6-9UI2 | 380 | 420 | 8/26/2014 | 309.15 | 121.71 | 187.44 |
| MW7-1C | MW6-9LI | 435 | 450 | 8/19/2013 | 309.23 | 110.51 | 198.72 |
| MW7-1C | MW6-9LI | 435 | 450 | 3/13/2014 | 309.23 | 112.41 | 196.82 |
| MW7-1C | MW6-9LI | 435 | 450 | 8/26/2014 | 309.23 | 122.36 | 186.87 |
| MW6-10d | MW6-10d | 539 | 554 | 11/23/2002 | 319.76[H] | 126.35 | 191.58 |
| MW6-10d | MW6-10d | 539 | 554 | 2/13/2003 | 319.76[H] | 122.03 | 197.73 |
| MW6-10d | MW6-10d | 539 | 554 | 6/25/2003 | 319.76[H] | 128.50 | 191.26 |
| MW6-10d | MW6-10d | 539 | 554 | 10/20/2003 | 319.76[H] | 125.67 | 194.09 |
| MW6-10d | MW6-10d | 539 | 554 | 6/27/2005 | 319.76[H] | 99.41 | 220.35 |
| MW6-10d | MW6-10d | 539 | 554 | 12/5/2005 | 319.76[H] | 96.85 | 222.91 |
| MW6-10d | MW6-10d | 539 | 554 | 6/29/2006 | 319.76[H] | 94.21 | 225.55 |
| MW6-10d | MW6-10d | 539 | 554 | 2/1/2007 | 319.76[H] | 102.40 | 217.36 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-10d | MW6-10d | 539 | 554 | 6/12/2007 | 319.76[H] | 113.53 | 206.23 |
| MW6-10d | MW6-10d | 539 | 554 | 2/7/2008 | 319.76[H] | 113.36 | 206.40 |
| MW6-10d | MW6-10d | 539 | 554 | 9/4/2008 | 319.76[H] | 131.66 | 188.10 |
| MW6-10d | MW6-10d | 539 | 554 | 12/1/2010 | 319.76[H] | 120.77 | 198.99 |
| MW6-10d | MW6-10d | 539 | 554 | 7/11/2011 | 319.76[H] | 110.31 | 209.45 |
| MW6-10d | MW6-10d | 539 | 554 | 1/3/2012 | 319.76[H] | 98.58 | 221.18 |
| MW6-10d | MW6-10d | 539 | 554 | 7/27/2012 | 319.76[H] | 116.40 | 203.36 |
| MW6-10d | MW6-10d | 539 | 554 | 2/25/2013 | 319.76[H] | 114.45 | 205.31 |
| MW6-10d | MW6-10d | 539 | 554 | 8/19/2013 | 319.76[H] | 137.93 | 181.83 |
| MW6-10d | MW6-10d | 539 | 554 | 3/13/2014 | 319.76[H] | 135.10 | 184.66 |
| MW6-10d | MW6-10d | 539 | 554 | 8/26/2014 | 319.76[H] | 148.61 | 171.15 |
| MW6-10i | MW6-10i | 336 | 356 | 11/21/2002 | 318.61[H] | 109.22 | 209.39 |
| MW6-10i | MW6-10i | 336 | 356 | 2/13/2003 | 318.61[H] | 109.56 | 209.05 |
| MW6-10i | MW6-10i | 336 | 356 | 6/24/2003 | 318.61[H] | 112.12 | 206.49 |
| MW6-10i | MW6-10i | 336 | 356 | 10/20/2003 | 318.61[H] | 11.49 | 307.12 |
| MW6-10i | MW6-10i | 336 | 356 | 6/27/2005 | 318.61[H] | 87.11 | 231.50 |
| MW6-10i | MW6-10i | 336 | 356 | 12/5/2005 | 318.61[H] | 84.48 | 234.13 |
| MW6-10i | MW6-10i | 336 | 356 | 6/29/2006 | 318.61[H] | 77.62 | 240.99 |
| MW6-10i | MW6-10i | 336 | 356 | 2/1/2007 | 318.61[H] | 85.00 | 233.61 |
| MW6-10i | MW6-10i | 336 | 356 | 6/12/2007 | 318.61[H] | 92.28 | 226.33 |
| MW6-10i | MW6-10i | 336 | 356 | 2/7/2008 | 318.61[H] | 102.79 | 215.82 |
| MW6-10i | MW6-10i | 336 | 356 | 9/4/2008 | 318.61[H] | 110.35 | 208.26 |
| MW6-10i | MW6-10i | 336 | 356 | 12/1/2010 | 318.61[H] | 112.05 | 206.56 |
| MW6-10i | MW6-10i | 336 | 356 | 7/11/2011 | 318.61[H] | 94.52 | 224.09 |
| MW6-10i | MW6-10i | 336 | 356 | 1/3/2012 | 318.61[H] | 88.33 | 230.28 |
| MW6-10i | MW6-10i | 336 | 356 | 7/27/2012 | 318.61[H] | 98.50 | 220.11 |
| MW6-10i | MW6-10i | 336 | 356 | 2/25/2013 | 318.61[H] | 103.06 | 215.55 |
| MW6-10i | MW6-10i | 336 | 356 | 8/19/2013 | 318.61[H] | 114.81 | 203.80 |
| MW6-10i | MW6-10i | 336 | 356 | 3/13/2014 | 318.61[H] | 118.22 | 200.39 |
| MW6-10i | MW6-10i | 336 | 356 | 8/26/2014 | 318.61[H] | 127.23 | 191.38 |
| MW6-12i | MW6-12i | 260 | 275 | 10/14/2002 | 316.77 | 124.30 | 192.47 |
| MW6-12i | MW6-12i | 260 | 275 | 2/13/2003 | 316.77 | 113.92 | 202.85 |
| MW6-12i | MW6-12i | 260 | 275 | 6/25/2003 | 316.77 | 121.80 | 194.97 |
| MW6-12i | MW6-12i | 260 | 275 | 10/20/2003 | 316.77 | 119.49 | 197.28 |
| MW6-12i | MW6-12i | 260 | 275 | 6/28/2005 | 316.77 | 99.02 | 217.75 |
| MW6-12i | MW6-12i | 260 | 275 | 12/5/2005 | 316.77 | 95.21 | 221.56 |
| MW6-12i | MW6-12i | 260 | 275 | 6/29/2006 | 316.77 | 91.64 | 225.13 |
| MW6-12i | MW6-12i | 260 | 275 | 2/1/2007 | 316.77 | 95.19 | 221.58 |
| MW6-12i | MW6-12i | 260 | 275 | 6/12/2007 | 316.77 | 108.48 | 208.29 |
| MW6-12i | MW6-12i | 260 | 275 | 1/17/2008 | 316.77 | 106.00 | 210.77 |
| MW6-12i | MW6-12i | 260 | 275 | 9/4/2008 | 316.77 | 125.16 | 191.61 |
| MW6-12i | MW6-12i | 260 | 275 | 12/1/2010 | 316.77 | 117.38 | 199.39 |
| MW6-12i | MW6-12i | 260 | 275 | 7/11/2011 | 316.77 | 106.27 | 210.50 |
| MW6-12i | MW6-12i | 260 | 275 | 1/3/2012 | 316.77 | 91.96 | 224.81 |
| MW6-12i | MW6-12i | 260 | 275 | 7/27/2012 | 316.77 | 106.55 | 210.22 |
| MW6-12i | MW6-12i | 260 | 275 | 2/25/2013 | 316.77 | 106.03 | 210.74 |
| MW6-12i | MW6-12i | 260 | 275 | 8/19/2013[E] | 316.77 | not measured | not measured |
| MW6-12i | MW6-12i | 260 | 275 | 3/13/2014 | 316.77 | 123.35 | 193.42 |
| MW6-12i | MW6-12i | 260 | 275 | 8/26/2014 | 316.77 | 141.33 | 175.44 |
| MW6-13i | MW6-13i | 246 | 261 | 12/6/2002 | 311.68 | 121.35 | 190.33 |
| MW6-13i | MW6-13i | 246 | 261 | 2/13/2003 | 311.68 | 110.79 | 200.89 |
| MW6-13i | MW6-13i | 246 | 261 | 6/24/2003 | 311.68 | 121.82 | 189.86 |
| MW6-13i | MW6-13i | 246 | 261 | 10/20/2003 | 311.68 | 119.64 | 192.04 |
| MW6-13i | MW6-13i | 246 | 261 | 6/28/2005 | 311.68 | 101.81 | 209.87 |
| MW6-13i | MW6-13i | 246 | 261 | 12/5/2005 | 311.68 | 95.49 | 216.19 |
| MW6-13i | MW6-13i | 246 | 261 | 6/29/2006 | 311.68 | 94.88 | 216.80 |
| MW6-13i | MW6-13i | 246 | 261 | 2/1/2007 | 311.68 | 94.46 | 217.22 |
| MW6-13i | MW6-13i | 246 | 261 | 6/12/2007 | 311.68 | 108.90 | 202.78 |
| MW6-13i | MW6-13i | 246 | 261 | 2/7/2008 | 311.68 | 98.77 | 212.91 |
| MW6-13i | MW6-13i | 246 | 261 | 9/4/2008 | 311.68 | 125.44 | 186.24 |
| MW6-13i | MW6-13i | 246 | 261 | 12/1/2010 | 311.68 | 115.34 | 196.34 |
| MW6-13i | MW6-13i | 246 | 261 | 7/11/2011 | 311.68 | 109.63 | 202.05 |
| MW6-13i | MW6-13i | 246 | 261 | 1/3/2012 | 311.68 | 91.72 | 219.96 |
| MW6-13i | MW6-13i | 246 | 261 | 7/27/2012 | 311.68 | 106.49 | 205.19 |
| MW6-13i | MW6-13i | 246 | 261 | 2/25/2013 | 311.68 | 103.40 | 208.28 |
| MW6-13i | MW6-13i | 246 | 261 | 8/19/2013 | 311.68 | 129.90 | 181.78 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW6-13i | MW6-13i | 246 | 261 | 3/13/2014 | 311.68 | 125.11 | 186.57 |
| MW6-13i | MW6-13i | 246 | 261 | 8/26/2014 | 311.68 | 141.69 | 169.99 |
| MW6-17i | MW6-17i | 212 | 232 | 2/24/2003 | 298.54 | 63.03 | 235.51 |
| MW6-17i | MW6-17i | 212 | 232 | 6/24/2003 | 298.54 | 54.94 | 243.60 |
| MW6-17i | MW6-17i | 212 | 232 | 10/20/2003 | 298.54 | 55.69 | 242.85 |
| MW6-17i | MW6-17i | 212 | 232 | 6/28/2005 | 298.54 | 44.29 | 254.25 |
| MW6-17i | MW6-17i | 212 | 232 | 12/5/2005 | 298.54 | 40.29 | 258.25 |
| MW6-17i | MW6-17i | 212 | 232 | 6/29/2006 | 298.54 | 35.96 | 262.58 |
| MW6-17i | MW6-17i | 212 | 232 | 2/1/2007 | 298.54 | 37.51 | 261.03 |
| MW6-17i | MW6-17i | 212 | 232 | 6/12/2007 | 298.54 | 41.62 | 256.92 |
| MW6-17i | MW6-17i | 212 | 232 | 1/17/2008 | 298.54 | 46.77 | 251.77 |
| MW6-17i | MW6-17i | 212 | 232 | 2/7/2008 | 298.54 | 46.54 | 252.00 |
| MW6-17i | MW6-17i | 212 | 232 | 9/4/2008 | 298.54 | 52.84 | 245.70 |
| MW6-17i | MW6-17i | 212 | 232 | 11/30/2010 | 298.54 | 58.97 | 239.57 |
| MW6-17i | MW6-17i | 212 | 232 | 7/11/2011 | 298.54 | 49.04 | 249.50 |
| MW6-17i | MW6-17i | 212 | 232 | 1/3/2012 | 298.54 | 43.63 | 254.91 |
| MW6-17i | MW6-17i | 212 | 232 | 2/25/2013 | 298.54 | 49.90 | 248.64 |
| MW6-17i | MW6-17i | 212 | 232 | 8/19/2013[B] | 298.54 | not measured | not measured |
| MW7-2A | MW6-22UI | 302 | 317 | 2/25/2013 | 308.52 | 88.75 | 219.77 |
| MW7-2A | MW6-22UI | 302 | 317 | 8/19/2013 | 308.52 | 101.61 | 206.91 |
| MW7-2A | MW6-22UI | 302 | 317 | 3/13/2014 | 308.52 | 105.38 | 203.14 |
| MW7-2A | MW6-22UI | 302 | 317 | 8/26/2014 | 308.52 | 113.00 | 195.52 |
| MW7-2B | MW6-22LI1 | 348 | 358 | 2/25/2013 | 308.36 | 96.60 | 211.76 |
| MW7-2B | MW6-22LI1 | 348 | 358 | 8/19/2013 | 308.36 | 117.44 | 190.92 |
| MW7-2B | MW6-22LI1 | 348 | 358 | 3/13/2014 | 308.36 | 120.58 | 187.78 |
| MW7-2B | MW6-22LI1 | 348 | 358 | 8/26/2014 | 308.36 | 130.09 | 178.27 |
| MW7-2C | MW6-22LI2 | 380 | 390 | 2/25/2013 | 308.52 | 111.83 | 196.69 |
| MW7-2C | MW6-22LI2 | 380 | 390 | 8/19/2013 | 308.52 | 153.67 | 154.85 |
| MW7-2C | MW6-22LI2 | 380 | 390 | 3/13/2014 | 308.52 | 152.07 | 156.45 |
| MW7-2C | MW6-22LI2 | 380 | 390 | 8/26/2014 | 308.52 | 162.51 | 146.01 |
| MW7-2D | MW6-22D | 452 | 462 | 2/25/2013 | 308.54 | 107.31 | 201.23 |
| MW7-2D | MW6-22D | 452 | 462 | 8/19/2013 | 308.54 | 138.26 | 170.28 |
| MW7-2D | MW6-22D | 452 | 462 | 3/13/2014 | 308.54 | 139.04 | 169.50 |
| MW7-2D | MW6-22D | 452 | 462 | 8/26/2014 | 308.54 | 151.15 | 157.39 |
| MW7-3A | MW6-23UI | 338 | 348 | 2/25/2013 | 305.73 | 91.14 | 214.59 |
| MW7-3A | MW6-23UI | 338 | 348 | 8/19/2013 | 305.73 | 103.91 | 201.82 |
| MW7-3A | MW6-23UI | 338 | 348 | 3/13/2014 | 305.73 | 106.53 | 199.20 |
| MW7-3A | MW6-23UI | 338 | 348 | 8/27/2014 | 305.73 | 115.32 | 190.41 |
| MW7-3B | MW6-23LI | 434 | 444 | 2/25/2013 | 304.57 | 100.95 | 203.62 |
| MW7-3B | MW6-23LI | 434 | 444 | 8/19/2013 | 304.57 | 133.99 | 170.58 |
| MW7-3B | MW6-23LI | 434 | 444 | 3/13/2014 | 304.57 | 121.20 | 183.37 |
| MW7-3B | MW6-23LI | 434 | 444 | 8/27/2014 | 304.57 | 131.96 | 172.61 |
| MW7-3C | MW6-23D | 490 | 500 | 2/25/2013 | 304.38 | 105.29 | 199.09 |
| MW7-3C | MW6-23D | 490 | 500 | 8/19/2013 | 304.38 | 142.02 | 162.36 |
| MW7-3C | MW6-23D | 490 | 500 | 3/13/2014 | 304.38 | 136.11 | 168.27 |
| MW7-3C | MW6-23D | 490 | 500 | 8/27/2014 | 304.38 | 151.73 | 152.65 |
| MW7-4A | MW6-24UI | 320 | 335 | 2/25/2013 | 313.29 | 98.26 | 215.03 |
| MW7-4A | MW6-24UI | 320 | 335 | 8/19/2013 | 313.29 | 110.79 | 202.50 |
| MW7-4A | MW6-24UI | 320 | 335 | 3/13/2014 | 313.29 | 113.79 | 199.50 |
| MW7-4A | MW6-24UI | 320 | 335 | 8/27/2014 | 313.29 | 122.62 | 190.67 |
| MW7-4B | MW6-24LI | 365 | 375 | 2/25/2013 | 313.62 | 98.53 | 215.09 |
| MW7-4B | MW6-24LI | 365 | 375 | 8/19/2013 | 313.62 | 110.99 | 202.63 |
| MW7-4B | MW6-24LI | 365 | 375 | 3/13/2014 | 313.62 | 113.91 | 199.71 |
| MW7-4B | MW6-24LI | 365 | 375 | 827/2014 | 313.62 | 122.85 | 190.77 |
| MW7-5A | MW6-25UI | 338 | 348 | 8/19/2013 | 312.05 | 110.47 | 201.58 |
| MW7-5A | MW6-25UI | 338 | 348 | 3/13/2014 | 312.05 | 112.54 | 199.51 |
| MW7-5A | MW6-25UI | 338 | 348 | 8/26/2014 | 312.05 | 121.65 | 190.40 |
| MW7-5B | MW6-25LI | 388 | 398 | 8/19/2013 | 311.98 | 109.80 | 202.18 |
| MW7-5B | MW6-25LI | 388 | 398 | 3/13/2014 | 311.98 | 112.53 | 199.45 |
| MW7-5B | MW6-25LI | 388 | 398 | 8/26/2014 | 311.98 | 121.82 | 190.16 |
| MW7-6 | MW6-26UI | 362 | 372 | 8/19/2013 | 320.88 | 118.07 | 202.81 |
| MW7-6 | MW6-26UI | 362 | 372 | 3/13/2014 | 320.88 | 121.30 | 199.58 |
| MW7-6 | MW6-26UI | 362 | 372 | 8/26/2014 | 320.88 | 130.43 | 190.45 |
| MW7-7A | MW6-27UI1 | 288 | 308 | 8/19/2013 | 311.74 | 108.85 | 202.89 |
| MW7-7A | MW6-27UI1 | 288 | 308 | 3/13/2014 | 311.74 | 111.61 | 200.13 |
| MW7-7A | MW6-27UI1 | 288 | 308 | 8/27/2014 | 311.74 | 120.50 | 191.24 |
| MW7-7B | MW6-27UI2 | 320 | 330 | 8/19/2013 | 311.77 | 108.86 | 202.91 |
| MW7-7B | MW6-27UI2 | 320 | 330 | 3/13/2014 | 311.77 | 111.73 | 200.04 |
| MW7-7B | MW6-27UI2 | 320 | 330 | 8/27/2014 | 311.77 | 120.64 | 191.13 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW7-7C | MW6-27LI1 | 347 | 362 | 8/19/2013 | 311.91 | 108.70 | 203.21 |
| MW7-7C | MW6-27LI1 | 347 | 362 | 3/13/2014 | 311.91 | 111.73 | 200.18 |
| MW7-7C | MW6-27LI1 | 347 | 362 | 8/27/2014 | 311.91 | 120.26 | 191.65 |
| MW7-7D | MW6-27LI2 | 377 | 387 | 8/19/2013 | 311.75 | 112.83 | 198.92 |
| MW7-7D | MW6-27LI2 | 377 | 387 | 3/13/2014 | 311.75 | 114.31 | 197.44 |
| MW7-7D | MW6-27LI2 | 377 | 387 | 8/27/2014 | 311.75 | 124.68 | 187.07 |
| MW7-7E | MW6-27D | 434 | 444 | 8/19/2013 | 312.11 | 156.07 | 156.04 |
| MW7-7E | MW6-27D | 434 | 444 | 3/13/2014 | 312.11 | 149.19 | 162.92 |
| MW7-7E | MW6-27D | 434 | 444 | 8/27/2014 | 312.11 | 165.16 | 146.95 |
| MW7-8A | MW6-28UI | 340 | 360 | 8/28/2013 | 301.16 | 102.15 | 199.01 |
| MW7-8A | MW6-28UI | 340 | 360 | 3/13/2014 | 301.16 | 103.26 | 197.90 |
| MW7-8A | MW6-28UI | 340 | 360 | 8/27/2014 | 301.16 | 112.83 | 188.33 |
| MW7-8B | MW6-28LI | 454 | 464 | 8/28/2013 | 301.18 | 103.93 | 197.25 |
| MW7-8B | MW6-28LI | 454 | 464 | 3/13/2014 | 301.18 | 104.60 | 196.58 |
| MW7-8B | MW6-28LI | 454 | 464 | 8/27/2014 | 301.18 | 114.74 | 186.44 |
| MW7-9A | MW6-29UI | 365 | 385 | 8/19/2013 | 330.12 | 127.12 | 203.00 |
| MW7-9A | MW6-29UI | 365 | 385 | 3/13/2014 | 330.12 | 130.42 | 199.70 |
| MW7-9A | MW6-29UI | 365 | 385 | 8/26/2014 | 330.12 | 139.61 | 190.51 |
| MW7-9B | MW6-29LI | 412 | 432 | 8/19/2013 | 330.11 | 127.21 | 202.90 |
| MW7-9B | MW6-29LI | 412 | 432 | 3/13/2014 | 330.11 | 130.42 | 199.69 |
| MW7-9B | MW6-29LI | 412 | 432 | 8/26/2014 | 330.11 | 139.87 | 190.24 |
| MW7-9C | MW6-29D | 475 | 490 | 8/19/2013 | 330.11 | 128.78 | 201.33 |
| MW7-9C | MW6-29D | 475 | 490 | 3/13/2014 | 330.11 | 131.03 | 199.08 |
| MW7-9C | MW6-29D | 475 | 490 | 8/26/2014 | 330.11 | 141.15 | 188.96 |
| MW7-10 | PMW-6 | 258 | 278 | 3/13/2014 | 321.35 | 113.95 | 207.40 |
| MW7-10 | PMW-6 | 258 | 278 | 8/26/2014 | 321.35 | 122.28 | 199.07 |
| MW7-11A | PMW-7A | 390 | 410 | 3/13/2014 | 296.43 | 103.50 | 192.93 |
| MW7-11A | PMW-7A | 390 | 410 | 8/27/2014 | 296.43 | 114.86 | 181.57 |
| MW7-11B | PMW-7B | 460 | 470 | 3/13/2014 | 296.36 | 103.94 | 192.42 |
| MW7-11B | PMW-7B | 460 | 470 | 8/27/2014 | 296.36 | 114.53 | 181.83 |
| MW7-12A | PMW-8A | 390 | 410 | 3/13/2014 | 300.06 | 107.04 | 193.02 |
| MW7-12A | PMW-8A | 390 | 410 | 8/27/2014 | 300.06 | 117.67 | 182.39 |
| MW7-12P1 | PMW-8A Piezo 1 | 295 | 305 | 3/13/2014[G] | 300.03 | not measured | not measured |
| MW7-12P1 | PMW-8A Piezo 1 | 295 | 305 | 8/27/2014[G] | 300.03 | not measured | not measured |
| MW7-12P2 | PMW-8A Piezo 2 | 332 | 337 | 3/13/2014 | 300.03 | 105.55 | 194.48 |
| MW7-12P2 | PMW-8A Piezo 2 | 332 | 337 | 8/27/2014 | 300.03 | 115.95 | 184.08 |
| MW7-12B | PMW-8B | 460 | 470 | 3/13/2014 | 300.06 | 107.14 | 192.92 |
| MW7-12B | PMW-8B | 460 | 470 | 8/27/2014 | 300.06 | 117.69 | 182.37 |
| MW7-13A | PMW-5A | 303 | 313 | 8/26/2014 | 317.25 | 122.84 | 194.41 |
| MW7-13B | PMW-5B | 323 | 333 | 8/26/2014 | 316.98 | 122.46 | 194.52 |
| MW7-14A | PMW-2A | 270 | 285 | 8/26/2014 | 312.31 | 117.88 | 194.43 |
| MW7-14B | PMW-2B | 306 | 316 | 8/26/2014 | 312.37 | 116.62 | 195.75 |
| MW7-14C | PMW-2C | 354 | 364 | 8/26/2014 | 312.26 | 128.86 | 183.40 |
| MW7-14P1 | PMW-2A Piezo 1 | 295 | 296 | 8/26/2014 | 312.45 | 115.66 | 196.65 |
| MW7-14P2 | PMW-2B Piezo 1 | 210 | 215 | 8/26/2014 | 312.45 | 105.70 | 206.67 |
| MW7-15A | MW6-16i | 304 | 314 | 12/24/2002 | 295.18 | 79.81 bgs | 213.57 |
| MW7-15A | MW6-16i | 304 | 314 | 2/13/2003 | 295.18 | 80.56 | 214.62 |
| MW7-15A | MW6-16i | 304 | 314 | 6/24/2003 | 295.18 | 83.35 | 211.83 |
| MW7-15A | MW6-16i | 304 | 314 | 10/20/2003 | 295.18 | 83.53 | 211.65 |
| MW7-15A | MW6-16i | 304 | 314 | 6/27/2005 | 295.18 | 63.05 | 232.13 |
| MW7-15A | MW6-16i | 304 | 314 | 12/5/2005 | 295.18 | 59.91 | 235.27 |
| MW7-15A | MW6-16i | 304 | 314 | 6/29/2006 | 295.18 | 53.95 | 241.23 |
| MW7-15A | MW6-16i | 304 | 314 | 2/1/2007 | 295.18 | 59.00 | 236.18 |
| MW7-15A | MW6-16i | 304 | 314 | 6/12/2007 | 295.18 | 65.77 | 229.41 |
| MW7-15A | MW6-16i | 304 | 314 | 1/17/2008 | 295.18 | 74.36 | 220.82 |
| MW7-15A | MW6-16i | 304 | 314 | 9/4/2008 | 295.18 | 81.67 | 213.51 |
| MW7-15A | MW6-16i | 304 | 314 | 12/1/2010 | 295.18 | 84.62 | 210.56 |
| MW7-15A | MW6-16i | 304 | 314 | 7/11/2011 | 295.18 | 70.25 | 224.93 |
| MW7-15A | MW6-16i | 304 | 314 | 1/3/2012 | 295.18 | 64.00 | 231.18 |
| MW7-15A | MW6-16i | 304 | 314 | 7/27/2012 | 295.18 | 72.83 | 222.35 |
| MW7-15A | MW6-16i | 304 | 314 | 2/25/2013 | 295.18 | 75.85 | 219.33 |
| MW7-15A | MW6-16i | 304 | 314 | 8/19/2013 | 295.18 | 87.50 | 207.68 |
| MW7-15A | MW6-16i | 304 | 314 | 3/13/2014 | 295.18 | 89.61 | 205.57 |
| MW7-15A | MW6-16i | 304 | 314 | 8/27/2014 | 295.23 | 98.50 | 196.73 |
| MW7-15B | "UZ well adjacent to MW6-16i" | 332 | 342 | 8/27/2014 | 295.17 | 97.03 | 198.14 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MW7-15C | "LIZ1 proposed well adjacent to MW6-16i" | 402 | 412 | 8/27/2014 | 295.24 | 110.72 | 184.52 |
| **Other Wells** | | | | | | | |
| EPA-MW6-13 | EPA-MW6-13 | 173 | 183 | 7/11/2011[C] | 314.63 | 86.34 | 228.29 |
| S11A | S11A | 190 | 220 | 3/19/2014[C] | 311.73 | 93.43 | 218.30 |
| S11A | S11A | 190 | 220 | 8/26/2014[C] | 311.73 | 99.91 | 211.82 |
| **Extraction Wells** | | | | | | | |
| IZ-East | IZ-East | 288[D] | 385 | 2/1/2007 | 310.48 | 77.99 | 232.49 |
| IZ-East | IZ-East | 288[D] | 385 | 6/12/2007 | 310.48 | 85.95 | 224.53 |
| IZ-East | IZ-East | 288[D] | 385 | 1/17/2008 | 310.48 | 94.08 | 216.40 |
| IZ-East | IZ-East | 288[D] | 385 | 9/4/2008 | 310.48 | 102.37 | 208.11 |
| IZ-East | IZ-East | 288[D] | 385 | 12/1/2010 | 310.48 | 100.23 | 210.25 |
| IZ-East | IZ-East | 288[D] | 385 | 7/11/2011 | 310.48 | 84.86 | 225.62 |
| IZ-East | IZ-East | 288[D] | 385 | 1/3/2012 | 307.33[J] | 77.82 | 229.51 |
| IZ-East | IZ-East | 288[D] | 385 | 7/24/2012 | 307.33[J] | 87.98 | 219.35 |
| IZ-East | IZ-East | 288[D] | 385 | 2/25/2013 | 307.33[J] | 91.29 | 216.04 |
| IZ-East | IZ-East | 288[D] | 385 | 8/19/2013 | 307.33[J] | 103.86 | 203.47 |
| IZ-East (UIZ) | IZ-East (UIZ) | 288 | 310 | 3/13/2014[K] | 306.91 | 105.59 | 201.32 |
| IZ-East (LIZ1) | IZ-East (LIZ1) | 324 | 342 | 3/13/2014 | 306.91 | 106.7 | 200.21 |
| IZ-East (LIZ2) | IZ-East (LIZ2) | 375 | 385 | 3/13/2014 | 307.08 | 109.23 | 197.85 |
| IZ-East (UIZ) | IZ-East (UIZ) | 288 | 310 | 8/26/2014[L] | 306.91 | not measured | not measured |
| IZ-East (LIZ1) | IZ-East (LIZ1) | 324 | 342 | 8/26/2014 | 306.91 | 116.42 | 190.49 |
| IZ-East (LIZ2) | IZ-East (LIZ2) | 375 | 385 | 8/26/2014 | 307.08 | 115.50 | 191.58 |
| IZ-1 | IZ-1 | 278[D] | 368 | 3/6/2007[E] | 304.93 | 92.47 | 212.46 |
| IZ-1 | IZ-1 | 278[D] | 368 | 7/23/2007[E] | 301.98[I] | 106.43 | 195.55 |
| IZ-1 | IZ-1 | 278[D] | 368 | 1/15/2008[E] | 301.98 | 94.35 | 207.63 |
| IZ-1 | IZ-1 | 278[D] | 368 | 9/4/2008 | 301.98 | 122.27[I] | 181.01 |
| IZ-1 | IZ-1 | 278[D] | 368 | 12/1/2010 | 301.98 | 106.23 | 195.75 |
| IZ-1 | IZ-1 | 278[D] | 368 | 7/11/2011 | 301.98 | 101.11 | 200.87 |
| IZ-1 | IZ-1 | 278[D] | 368 | 1/3/2012 | 301.98 | 82.25 | 219.73 |
| IZ-1 | IZ-1 | 278[D] | 368 | 7/24/2012 | 302.95[J] | 99.86 | 203.06 |
| IZ-1 | IZ-1 | 278[D] | 368 | 2/25/2013 | 302.95[J] | 95.89 | 207.03 |
| IZ-1 | IZ-1 | 278[D] | 368 | 8/21/2013 | 302.95[J] | 124.35 | 178.57 |
| IZ-1 | IZ-1 | 278[D] | 368 | 3/13/2014 | 302.95[J] | 110.75 | 192.17 |
| IZ-1 | IZ-1 | 278[D] | 368 | 8/26/2014 | 302.95[J] | 136.34 | 166.58 |
| IZ-2 | IZ-2 | 305[D] | 385 | 2/1/2007 | 300.99 | 86.30 | 214.69 |
| IZ-2 | IZ-2 | 305[D] | 385 | 6/12/2007 | 300.99 | 101.09 | 199.90 |
| IZ-2 | IZ-2 | 305[D] | 385 | 1/9/2008 | 300.99 | 93.02 | 207.97 |
| IZ-2 | IZ-2 | 305[D] | 385 | 9/4/2008 | 300.99 | 118.69 | 182.30 |
| IZ-2 | IZ-2 | 305[D] | 385 | 12/1/2010 | 300.99 | 102.40 | 198.59 |
| IZ-2 | IZ-2 | 305[D] | 385 | 7/11/2011 | 300.99 | 99.10 | 201.89 |
| IZ-2 | IZ-2 | 305[D] | 385 | 1/3/2012 | 300.99 | 78.70 | 222.29 |
| IZ-2 | IZ-2 | 305[D] | 385 | 7/24/2012 | 297.51[J] | 95.18 | 202.33 |
| IZ-2 | IZ-2 | 305[D] | 385 | 2/25/2013 | 297.51[J] | 90.71 | 206.80 |
| IZ-2 | IZ-2 | 305[D] | 385 | 8/19/2013 | 297.51[J] | 119.93 | 177.58 |
| IZ-2 | IZ-2 | 305[D] | 385 | 3/18/2014 | 297.51[J] | 121.39 | 176.12 |
| IZ-2 | IZ-2 | 305[D] | 385 | 8/26/2014 | 297.51[J] | 131.63 | 165.88 |
| MZ-1 | MZ-1 | 180[D] | 220 | 2/1/2007 | 304.99 | 57.83 | 247.16 |
| MZ-1 | MZ-1 | 180[D] | 220 | 7/20/2007[E] | 301.99[I] | 62.02 | 239.97 |
| MZ-1 | MZ-1 | 180[D] | 220 | 1/15/2008[E] | 301.99 | 66.92 | 235.07 |
| MZ-1 | MZ-1 | 180[D] | 220 | 8/28/2008[E] | 301.99 | 76.61 | 223.12 |
| MZ-1 | MZ-1 | 180[D] | 220 | 12/1/2010[E] | 301.99 | not measured | not measured |
| MZ-1 | MZ-1 | 180[D] | 220 | 7/11/2011 | 301.99 | 66.84 | 235.15 |
| MZ-1 | MZ-1 | 180[D] | 220 | 1/3/2012 | 301.99 | 60.50 | 241.49 |
| MZ-1 | MZ-1 | 180[D] | 220 | 7/24/2012 | 303.25[J] | 67.31 | 235.94 |
| MZ-1 | MZ-1 | 180[D] | 220 | 2/25/2013 | 303.25[J] | 70.15 | 233.10 |

**Table 2-1**
**Piezometric Head Data Summary**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Revised Well Designations | Prior Well Designation | Screened Interval (ft bgs) Top | Screened Interval (ft bgs) Bottom | Measurement Date | Top of Casing Elevation (NAVD88) (ft msl) | Depth to Water (ft btoc) | Water Elevation (ft msl) |
|---|---|---|---|---|---|---|---|
| MZ-1 | MZ-1 | 180[D] | 220 | 8/21/2013 | 303.25[J] | 77.89 | 225.36 |
| MZ-1 | MZ-1 | 180[D] | 220 | 3/13/2014 | 303.25[J] | 81.52 | 221.73 |
| MZ-1 | MZ-1 | 180[D] | 220 | 8/26/2014 | 303.25[J] | 87.88 | 215.37 |
| MZ-2 | MZ-2 | 230 | 255 | 2/1/2007 | 301.20 | 56.94 | 244.26 |
| MZ-2 | MZ-2 | 230 | 255 | 6/12/2006 | 301.20 | 62.73 | 238.47 |
| MZ-2 | MZ-2 | 230 | 255 | 1/17/2008 | 301.20 | 57.19 | 244.01 |
| MZ-2 | MZ-2 | 230 | 255 | 9/4/2008 | 301.20 | 77.15 | 224.05 |
| MZ-2 | MZ-2 | 230 | 255 | 12/1/2010 | 301.20 | 76.13 | 225.07 |
| MZ-2 | MZ-2 | 230 | 255 | 7/11/2011 | 301.20 | 64.71 | 236.49 |
| MZ-2 | MZ-2 | 230 | 255 | 1/3/2012 | 301.20 | 57.62 | 243.58 |
| MZ-2 | MZ-2 | 230 | 255 | 7/24/2012 | 297.60[J] | 66.17 | 231.43 |
| MZ-2 | MZ-2 | 230 | 255 | 2/25/2013 | 297.60[J] | 68.81 | 228.79 |
| MZ-2 | MZ-2 | 230 | 255 | 8/19/2013 | 297.60[J] | 79.46 | 218.14 |
| MZ-2 | MZ-2 | 230 | 255 | 3/18/2014 | 297.60[J] | 90.89 | 206.71 |
| MZ-2 | MZ-2 | 230 | 255 | 8/26/2014 | 297.60[J] | 89.74 | 207.86 |
| MZ-3 | MZ-3 | 268 | 308 | 1/17/2008 | 294.69 | 59.07 | 235.62 |
| MZ-3 | MZ-3 | 268 | 308 | 2/7/2008 | 294.69 | 66.38 | 228.31 |
| MZ-3 | MZ-3 | 268 | 308 | 9/4/2008 | 294.69 | 74.86[I] | 221.46 |
| MZ-3 | MZ-3 | 268 | 308 | 12/1/2010 | 294.69 | 79.45 | 215.24 |
| MZ-3 | MZ-3 | 268 | 308 | 7/11/2011 | 294.69 | 66.81 | 227.88 |
| MZ-3 | MZ-3 | 268 | 308 | 1/3/2012 | 294.69 | 60.14 | 234.55 |
| MZ-3 | MZ-3 | 268 | 308 | 7/24/2012 | 296.32[J] | 67.86 | 228.46 |
| MZ-3 | MZ-3 | 268 | 308 | 2/25/2013 | 296.32[J] | 70.50 | 225.82 |
| MZ-3 | MZ-3 | 268 | 308 | 8/19/2013 | 296.32[J] | 81.52 | 214.80 |
| MZ-3 | MZ-3 | 268 | 308 | 3/18/2014 | 296.32[J] | 87.44 | 208.88 |
| MZ-3 | MZ-3 | 268 | 308 | 8/26/2014 | 296.32[J] | 92.13 | 204.19 |

Notes:
ft bgs - feet below ground surface
ft msl - feet above Mean Sea Level
ft btoc - feet below top of casing or sounding tube (extraction wells)
NAVD88 - North American Vertical Datum of 1988

[A] - Wells have not been measured since 2003 as they are not critical to design of IZ Remedy. Monitoring of well MW6-1 resumed in July 2012.

[B] - Water level measurements were assigned to United Technologies Corporation as part of the Mid-Valley Monitoring Program or the Shallow Zone (SZ)-North remedy since the date of the listed monitoring event.

[C] - Well EPA-MW6-13 is part of the SZ-North remedy and was only measured in 2011. S11A is part of the SZ-North remedy however is being monitored with the wells for the IZ remedy.

[D] - Wells consist of multiple screen as follows: IZ-East (288-310, 324-342, 375-385), IZ-1 (278-308, 348-368), IZ-2 (305-330, 375-385) and MZ-1 (180-200, 210-220). The annular space between the well screens is filled with gravel pack in all wells except between the second and bottom most screens in IZ-East.

[E] - Wells could not be located accessed at the same time as the other wells gauged during this event. In some cases, the well was measured later during sampling and the water level data on that day was reported.

[F] - MW6-46 was initially measured at 132.90 feet btoc on 12/1/2010; however, these data are anomalous with previous data and for the surrounding wells at the time of this event. The well was re-measured prior to purging on 1/5/2011 and these data were reported.

[G] - Piezometer PMW-8A Piezo 1 was measured both during the Early 2014 Monitoring Event and 2014 Annual Comprehensive event in August 2014. This piezometer has been very difficult to develop and the inaccurate gauging is likely the result of poor development.

[H] - MP-20, MW6-10i, MW6-10d were resurveyed in NAVD88 by Bush & Associates on 4/9/2013. The reported top of casing elevations were modified accordingly for all historical monitoring events based on the new survey elevations.

[I] - Wells were resurveyed after final well boxes were installed in July 2007. Revised survey elevations are noted.

[J] - The extraction wells were resurveyed on August 7, 2014, by Bush & Associates. The reported top of casing elevations were modified accordingly based on the new survey elevations for gauging events from March 2012 to the present when the sounding tubes were cut for installation of the permanent well pump and water level transducer.

[K] - Extraction well IZ-East contained packers that separated the three screened intervals. Water levels were collected from each zone. Water level data from the LIZ1 screened interval was collected suing a transducer. The reference point for the transducer was the top of the 10" well casing. The reference point for the LIZ2 screen was a pipe that extends 2 inches above the top of the 10" casing.

[L] - Not measured due to oversight in the field.

[M] - Designated wells are Westbay multiport wells where groundwater elevation is calculated using fluid pressure readings measured in each port.

# Section 3
# Data Validation and Findings

This section summarizes the procedures and findings for validation of analytical data from the groundwater monitoring event. A copy of the laboratory reports listing the results for all analytes is included as Appendix F.

## 3.1 Data Validation Methodology and Reporting

Data validation was performed on the analytical results by Conestoga-Rovers & Associates (CRA) under a direct contract with Northrop Grumman. Guidance documents used for the data validation include the following:

- USEPA Contract Laboratory Program; National Functional Guidelines for Superfund Organic Methods Data Review, USEPA 540-R-14-002, August 2014,
- USEPA Contract Laboratory Program; National Functional Guidelines for Inorganic Superfund Data Review, USEPA 540-R-013-001, August 2014.

All data were evaluated for COC forms, blank data, duplicate data, recovery data for surrogate spikes, laboratory control samples, and matrix spike samples. Level 4 data packages were requested from the laboratory for 10 percent of the samples (five samples including MW7-9A, MW7-9AN (equipment blank), MW7-9B, MW7-9BK (field duplicate), and MW7-9C). As discussed in the data validation memorandum (presented in Appendix G), the Level 4 data were evaluated following procedures outlined in the aforementioned guidance documents and included calibration criteria and recalculations of the raw data.

Once the data validation step was completed, the database was updated to add the data validation flags and/or other modifications. All data presented in tables and figures are the validated data.

## 3.2 Data Validation Findings

The overall quality of the data were assessed as usable, based on the data validation. However, the following data were qualified:

- 1,2-Dibromoethane, DBCP, and/or TPH compounds in five samples were qualified as estimated due to missed holding time of 1 day.
- Several VOCs, including tert butyl alcohol, were rejected due to initial calibration nonconformances. Additional VOCs and nitrosamines were qualified as estimated due to initial calibration nonconformances. None of these rejected compounds are compounds of concern for this project.
- Results, including NDMA, and compounds from the VOCs and SVOCs, and TPH analyses, were qualified as estimated due to outlying continuing calibration or outlying Laboratory Control Samples/LCS Duplicates (LCS/LCSD) results.
- Several SVOCs in four samples (MW7-1A, MW6-1-5, MW7-11A, and MW7-12B) were rejected due to low surrogate recovery. Additional SVOC analytes were estimated due to outlying

surrogate recoveries. Three samples were rejected (MW7-2D, MW7-7D, and MW7-13B) because acanaphthylene, and anthacene, were rejected due to matrix spike/matrix spike duplicate (MS/MSD) issues. None of these rejected compounds are compounds of concern for this project.

- Copper, Nickel, and/or N-nitrosomorpholine results in three field duplicate pairs were estimated due to field duplicate imprecision.
- Several analytes, including NDMA, metals, TPH, nitrate and nitrosamines, were qualified as nondetect due to method blank contamination and reported at the laboratory reporting limit. The qualifications due to method blank contamination did not raise the reporting limits of the compounds. The reporting limits remained below the regulatory limits.
- Several compounds in one trip blank on 9/3/2014 were detected and the associated samples were qualified as nondetect due to trip blank contamination. The qualification only raised the reporting limit in two results, and neither reporting limit was raised above the regulatory limit.
- Metals, nitrosamines, TDS, TPH, chloride, nitrate and nitrite were detected in equipment blank samples. No VOCs or SVOCs were detected in equipment blank samples. These equipment blank qualifications did not result in any reporting limits elevated above regulatory limits.
- The laboratory did not analyze the 524.2 SIM compounds for sample MW6-55 within the holding time. The sample was collected on August 11, 2014 and was not analyzed until October 2, 2014. Based on discussions with the laboratory and the data validator, the 524.2 SIM data was not reported by the laboratory, as it would be rejected. Instead, the 524.2 SIM compounds for sample MW6-55 were reported from the full scan 524.2 analysis, with higher reporting limits. For project objectives, it was determined that having higher reporting limits would be more useful than having rejected results.

No systematic laboratory errors or significant data biases were observed based on this data validation.

In summary, approximately 7 percent of the total data from wells and field duplicates collected for the Annual 2014 event were rejected due to initial calibration, MS/MSD, and surrogate recovery nonconformance. Approximately 16 percent of the total data collected was qualified as estimated, either from the laboratory as detect results that were above the method detection limit, but below the laboratory reporting limit or due to data validation.

## 3.3 Data Storage

Laboratory data packages are presented in Appendix F; the data validation memorandum is provided in Appendix G. The project database, developed on the EQuIS relational database management system, is managed by CRA. The EQuIS database includes all analytical results, with laboratory and validation qualifiers. PDF copies of the laboratory reports and COCs are provided as Appendix F and are stored in the CDM Smith project files.

## 3.4 Data Quality Assessment and QA/QC Data

This section provides an assessment of the data quality in terms of the data quality parameters (*i.e.*, precision, accuracy, representativeness, comparability, and completeness).

## Precision

Precision is a measure of mutual agreement among individual measurements of the same property, usually under prescribed similar conditions. Precision is best expressed in terms of the standard deviation around the mean or relative percent difference (RPD) between two samples. The RPD between field duplicate samples, MS/MSD samples, and LCS/LCSD samples were evaluated and indicate that precision was met and is acceptable for project requirements. The RPD evaluation is presented in the data validation reports in Appendix G.

## Accuracy

Accuracy is the degree of conformity of a measurement (X, or an average of measurements of the same parameter), with an excepted reference or true value (T), usually expressed as the difference between the two values, X-T, or the difference as a percentage of the reference or true value, 100 (X-T)/T, and sometimes expressed as a ratio, (X/T) 100 (equal to percent recovery).

Accuracy is a measure of the bias in a system. Internal laboratory QA/QC samples (MS/MSD recoveries, LCS/LCSD recoveries, surrogate recoveries and internal standards) were evaluated during data validation and indicate that, overall, accuracy was met for this sampling event. An evaluation of the QA/QC sample recoveries is presented in the data validation reports in Appendix G.

## Representativeness

Representativeness is the degree to which data accurately and precisely represent the true value of a characteristic of a population, parameter variations at a sampling point, a process condition, or an environmental condition, that is intended to be characterized. Representativeness of reported results depends upon a number of considerations including, but not limited to, proper monitoring design, selection of appropriate field methodology, proper sample preparation, preservation and handling, selection and execution of appropriate analytical methodology, and proper sample identification and reporting of results, all of which was met for this sampling event. Representativeness was also met by equipment blanks and duplicates which are used to assess field and transport sample contamination and method variation.

## Completeness

Completeness is a measure of the amount of valid data expressed as a percentage obtained from a measurement system and compared to the amount that was expected to be obtained under normal conditions. For this project, the completeness parameter was met through data validation. As discussed previously, only one sample result was rejected, indicating over that over 99 percent of the data were valid. The result that was rejected was not a contaminant of concern for the project and does not represent a significant impact on the data usability. Additionally, all data were reviewed for this project, as discussed in the data validation memorandum in Appendix G.

## Comparability

Comparability is the confidence with which one data set can be compared to another. Comparability for this project is based on using similar sampling methodology, analytical methodology, and units of reported data for all the data collected and from the different sampling events. Data comparability was ensured by use of consistent methods and consistent units.

# Section 4
# Results and Discussion

This section summarizes the results of the 2014 Annual and Early 2014 Semi-Annual Events.

## 4.1 Groundwater Elevation Data

Groundwater elevation data collected during this and previous monitoring events are provided in Table 2-1. Groundwater elevations are presented in feet above mean sea level (ft msl) based on the North American Vertical Datum of 1988 (NAVD 88). Groundwater elevations in the IZ wells measured during the Early 2014 Semi-Annual Event ranged from 156.45 ft msl in well MW7-2C (screened within the LIZ2) to 238.26 in well MW6-46 (screened within the UIZ). Groundwater elevations in the IZ wells measured during the 2014 Annual Event ranged from 136.66 ft msl in MP21-1 (screened within the DZ) to 257.53 ft msl in well MW6-46 (screened within the UIZ).

Well MW6-55 and piezometer MW7-12P1 water level readings were determined to be inaccurate because the measured groundwater elevations were inconsistent with nearby wells and previous measurements. MW7-12P1 is a 1-inch piezometer screened in the SZ. It was installed in January 2014 and two attempts to fully develop this well have been made. It appears that drilling fluid is remaining in the well casing and is difficult to remove from a 1-inch well.

### 4.1.1 Hydrographs

Hydrographs were prepared for all PVOU wells where groundwater elevations were measured in 2014. The hydrographs are presented in Appendix H. Hydrographs of wells in the same well cluster or a single Westbay well are included on a single plot. Hydrographs for each of the IZ Remedy extraction wells are included on a single plot. The hydrographs for monitoring points completed at different depths at a well cluster or a Westbay well generally show sinusoidal, roughly parallel trends, which indicate the effects of pumping and infiltration through precipitation and recharge. In general, the hydrographs show that the largest changes in piezometric head between measurement dates are observed in the wells that are screened in the DZ, which is the hydrostratigraphic unit most affected by local area production well pumping.

The hydrographs indicate that piezometric head levels in August 2014 are at the lowest point since 2002. Pieozometric head levels in all zones have been decreasing since January 2012. The hydrographs for the Main San Gabriel Basin Key Well indicate a similar trend. The Key Well is used by the Main San Gabriel Basin Watermaster to evaluate conditions in the Basin. The hydrograph for the Key Well indicates that groundwater levels in the Basin are at the lowest point since 1997.

### 4.1.2 Precipitation

Total annual rainfall, mean annual rainfall, and cumulative departure from mean annual rainfall for the 1961 through 2014 time period are presented on Figure 4-1. The source of the rainfall data is the Covina 387B gauging station in Covina, California. The mean annual rainfall from 1961 to 2014 was approximately18 inches. The total rainfall in 2014 was approximately 6 inches, significantly lower than the mean average rainfall for the 1961 to 2014 time period.

### 4.1.2 Piezometric Head Contour Maps and Hydraulic Gradients

Piezometric head contour maps for depth to water measurements gathered during the Early 2014 Semi-Annual Event are presented on Figures 4-2 (UIZ), 4-3 (LIZ1) and 4-4 (LIZ2). Piezometric head contour maps for depth to water measurements gathered during 2014 Annual Event are presented in Figures 4-5 (UIZ), 4-6 (LIZ1), 4-7 (LIZ2), and 4-8 (DZ). The maps are based on contours of piezometric head created in Surfer software using kriging interpolation methods, and were adjusted based on professional judgment at the active production wells to reflect an assumed cone of depression around each of the active San Gabriel and Suburban production wells (B7C, B11B, and 147-W3).

#### 4.1.2.1 Horizontal Gradients

The piezometric head contours presented on Figures 4-2 and 4-5 indicate the same general direction of groundwater flow in the UIZ in March and August 2014. The groundwater flow direction is towards the northwest, changing to west-northwesterly in the area north and west of the active production wells. Depressions in the piezometric surface are inferred, centered on active production wells B7C, B11B, and 147-W3. The magnitude and direction of the horizontal gradient in the UIZ as calculated from measurements at selected wells gauged in August 2014 are shown on Figure 4-9. The horizontal gradient is steepest in the southern area of the MOV, and less steep in the area to the northwest of the production wells.

The piezometric head contours presented on Figures 4-3 and 4-6 indicate the same groundwater flow direction in the LIZ1 in March and August 2014. The groundwater flow direction is towards the northwest in the vicinity of the former Benchmark site, changing to a radial flow towards production well B7C in the area north of Puente Creek. A large shallow depression in the piezometric surface, centered on production well B7C is indicated. Smaller depressions in the piezometric surface are inferred in the vicinity of production wells B11B and 147-W3. West of the production wells, the groundwater flow direction is west to northwest. The magnitude and direction of the horizontal gradient in the LIZ as calculated from measurements at selected wells gauged in August 2014 are shown on Figure 4-10. The horizontal hydraulic gradient is steepest in the southern area of the MOV.

The piezometric head contours presented on Figures 4-4 and 4-7 indicate the same groundwater flow direction in the LIZ2 in March and August 2014. The groundwater flow direction is towards the northwest in the area south of Puente Creek. The contours indicate a large cone of depression centered on production well B7C with smaller cone of depressions inferred at production wells B11B and 147-W3. The magnitude and direction of the horizontal gradient in the LIZ2 as calculated from measurements at selected wells in August 2014 are shown on Figure 4-11. The horizontal gradient is steepest on the east and west sides of the cone of depressions and in the southern area of the MOV.

#### 4.1.2.2 Vertical Gradients

To evaluate the potential for vertical groundwater flow, the vertical hydraulic gradient was calculated at the Westbay wells and monitoring wells completed at multiple depths within well clusters. The wells used in this evaluation are completed within the SZ, UIZ, LIZ1, LIZ2, and DZ. The vertical gradient was calculated by dividing the difference in piezometric head at two monitoring points by the distance between the mid-point of each well screen interval. Table 4-1 presents the vertical gradients calculated for each well pair. The vertical gradients are shown for the last three groundwater level gauging events (August 2013, March 2014, and August 2014). Vertical gradients vary at different locations across the site and are influenced locally by distance from active production wells, and the pumping rate and duration of pumping at each of the production wells. The following observations regarding the vertical gradient during the Early 2014 Semi-Annual and 2014 Annual Events are noted.

During the Early 2014 Semi-Annual and 2014 Annual Events, in general there was a downward vertical gradient was present between the SZ, UIZ, LIZ, and DZ, with the following exceptions:

- An upward vertical gradient from the LIZ1 to the UIZ was observed at MW7-4, MW7-7, MW7-13, and MW7-14.
- An upward vertical gradient from the DZ to the LIZ2 was observed at MP-21 and MW6-1 in March 2014 and at MW7-2 in March and August 2014.
- An upward vertical gradient within the DZ was observed at MW6-1, MW6-3, MW6-4, and MW6-5.

The highest magnitude vertical gradients were observed at the MW7-2 cluster and Westbay well MP21, which are located approximately 400 and 1,700 feet from active production well B7C, respectively. The vertical gradient at the MW7-2 cluster ranged from a downward gradient of -0.353 to -0.397 between the UIZ and LIZ1, a downward gradient of -0.979 to -1.008 between the LIZ1 and LIZ2, and an upward gradient of 0.181 to 0.158 from the DZ to the LIZ2.

The vertical gradients calculated in Tables 4-1 and 4-2 indicate a consistent vertical gradient direction for each well pair in between August 2013 and August 2014, but of differing magnitudes. The data in Tables 4-1 and 4-2 indicate that the vertical gradients are typically highest during the summer and lowest in the winter. The vertical gradients also indicate similar magnitude vertical gradients in between August 2013 and August 2014.

## 4.2 Groundwater Quality Data

This section presents the groundwater quality data for the past two sampling events. Laboratory reports for the 2014 Annual Event are presented in Appendix F.

A summary of the analytical results for 2014 Annual Event and previous groundwater monitoring events are included in Tables 4-3 through 4-9. Detections for TICs for the 2014 Annual Event are included in Table 4-10.

### 4.2.1 Summary of Detected Constituents

Tables 4-10 and 4-11 present summary statistics of detected constituents including the number of detects, range of reporting limits, range of detected concentrations, location of maximum concentrations, screening level/regulatory limit, number of samples exceeding regulatory limit, percentage of wells exceeding regulatory limit, and the well with the highest concentration for the 2014 Annual and Early 2014 Semi-Annual Events, respectively.

The key constituents for the IZ Remedy are PCE, TCE, 1,1-DCE, and 1,4-dioxane. These contaminants are discussed below. In general, the detected contaminants remained generally consistent from the Early 2014 Semi-Annual Event. Isoconcentration contour maps for these contaminants are presented on Figures 4-12 through 4-16 and 4-17 through 4-21 for the UIZ and LIZ. Isoconcentration contour maps were also presented for 1,1-DCA. This compound was recently identified by USEPA as a potential contaminant of concern for the PVOU. The isoconcentration contour maps for the UIZ and LIZ were prepared to review these data (Figures 4-15 and 4-21).

The extraction wells were not sampled as part of 2014 Annual Event. IZ-East was sampled in March, May, July, and September 2014 as part of IZ-East Well Modification and Performance Monitoring (CDM

Smith, 2014c). The most recent data available for the extraction wells are included in the isoconcentration contour plots. Data for 2014 Annual Event from the SZ-South and SZ- North Remedies were also used in the isoconcentration contour plots. If a well was not sampled during the 2014 Annual Event, the most recent data available were used and the date the data were collected is indicated.

#### 4.2.1.1 Organic Compounds

In general, the organic compounds detected during the 2014 Annual Event remained consistent from the Early 2014 Semi-Annual Event with the following exceptions:

- PCE and TCE in well MP20-3 decreased from 46 micrograms per liter (µg/L) in February 2014 to 28 µg/L in August 2014 and from 47µg/L in February 2014 to 29 µg/L in August 2014, respectively.
- Well MW6-10i showed an increase in 1,1-DCE and TCE of 7.2 µg/L and 13 µg/L, respectively, in February 2014 to 31 µg/L for both compounds in August 2014.
- Increases in 1,1-DCE and TCE in wells MW7-7B and MW7-7C were also observed between February and August 2014, while decreases were observed in well MW7-1B for 1,1-DCE and TCE. Trends are further discussed in Section 4.2.4.2, as part of the statistical trend analysis.
- Of the newly installed wells that were sampled for the first time in July 2014, the highest VOC concentrations were detected at MW7-14B. 1,1-DCE was detected in well MW7-14B at a concentration of 96 µg/L. PCE, TCE, 1,1-DCA, and 1,4-dioxane were also detected in well MW7-14B at concentrations of 26, 46, 10, and 21 µg/L, respectively.

PCE or TCE were detected in 43 of the 58 wells sampled and exceeded maximum contaminant levels (MCLs) in approximately 50 percent of the wells that had detections. 1,1-DCE was also detected in 43 of the 58 wells sampled and exceeded the MCL in 15 of the 45 of the wells that had detections.

In August 2014, 1,4-dioxane was detected in 28 of the 58 wells sampled and exceeded the Notification Level (NL) in 19 of the 28 wells with detections, with a maximum concentration of 21 µg/L detected in well MW7-14B, which was sampled for the first time in July. Historically, the highest concentrations of 1,4-dioxane have been observed at extraction well IZ-East.

NDMA was detected in 25 out of 58 wells sampled during the 2014 Annual Event. NDMA did not exceed the NL of 0.01 ug/L in any of the 25 samples that had NDMA detections during the 2014 Annual Event. The maximum concentration of NDMA during the 2014 Annual Event was 0.010 µg/L at well MW7-9B. Several nitrosamine compounds were also analyzed for the first time during the 2014 Annual Event, including: carbophenothion, metolachlor, simazine, and thiobencarb; the nitrosamine compounds N-nitrosomethylethylamine, N-nitrosodiethylamine, N-nitrosomorpholine, N-nitrosodi-n-butylamine, and N-nitrosopyrrolidine. Concentrations of these compounds are presented in Table 4-6. The maximum detection of nitrosamine compounds (with the exception of NDMA), was N-nitrosomorpholine at a concentration of 23 nanograms per liter (ng/L) in well MW7-6.

No SVOCs were detected above the regulatory limits in the Early 2014 Semi-Annual and 2014 Annual Event (Table 4-3). Several SVOCs were detected for the first time during the Early 2014 Semi-Annual Event, including benzo(a)pyrene, carbophenothion, metolachlor, simazine, and thiobencarb. The maximum concentration of these SVOCs was 0.2 µg/L in MW7-9A for benzo(a)pyrene and

carbophenothion. During the 2014 Annual Event, only atrazine was detected above the reporting limit, at a maximum concentration of 0.53 µg/L in well MW7-7B.

TPH was detected in 28 of the 31 wells sampled during the Early 2014 Semi-Annual Event and in 19 of the 36 wells sampled during the 2014 Annual Event, with a maximum concentration of 3.2 milligrams per liter (mg/L) of TPH quantified as kerosene in well MW7-7C (Table 4-8).

1,2,3-TCP was detected in 11 out of 51 wells sampled during the Early 2014 Semi-Annual Event and in 14 out of 58 wells sampled during the 2014 Annual Event. 1,2,3-TCP exceeded the NL (0.007 µg/L) in all of the wells with detections. The maximum detected result during the 2014 Annual Event was 0.052 µg/L in well MW7-10.

Diisopropyl ether and 1,1,2,2-tetrachloroethane were detected for the first time during the Early 2014 Semi-Annual Event and therefore were added to the VOC table (Table 4-2). Styrene was detected in one well for the first time during the 2014 Annual Event and therefore was added to the VOC table. Of these three new compounds, 1,1,2,2-tetrachloroethane had the highest concentration 0.80 µg/L, in IZ-East-LIZ 2, which was sampled in March 2014 as part of the IZ East Performance Monitoring (CDM Smith, 2014d). These compounds were not detected during the 2014 Annual Event.

#### 4.2.1.2 Inorganic Constituents

Analytical results for TDS, and inorganic constituents of concern, including perchlorate, and hexavalent chromium, are presented in Table 4-4. Perchlorate was detected in the 47 of 51 wells sampled during the Early 2014 Semi-Annual Event and 53 of the 58 wells sampled during the 2014 Annual Event. Perchlorate exceeded the California MCL in 16 of the 53 wells that had detections during the 2014 Annual Event. Perchlorate concentrations were generally consistent with the previous monitoring event. However, in well MW7-12A, the perchlorate concentrations increased from below laboratory detection limit in February 2014 (when the well was first sampled) to 9.7 µg/L in August 2014. TDS was detected at concentrations ranging between 200 and 1,200 mg/L the Early 2014 Semi-Annual and 2014 Annual Events. Hexavalent chromium was detected in 35 of the 56 samples analyzed during the 2014 Annual Event and only two samples exceeded the MCL of 10 µg/L. Hexavalent chromium was detected in 35 of the 56 samples analyzed during the Early 2014 Semi-Annual Event and no concentrations exceeded MCLs.

Analytical results for nitrate and nitrite are presented in Table 4-5. Nitrate was detected in the majority of the wells sampled. Nitrate exceeded the MCL in 2 of the 27 wells that had detections during the Early 2014 Semi-Annual Event and in 6 of the 54 locations that had detections in the 2014 Annual Event. The highest nitrate concentration from the monitoring events was 110 mg/L in well MW6-1-6.

Table 4-7 summarizes the analytical results for dissolved metals; no metals were detected above regulatory limits and detected concentrations are consistent with previous sampling events.

### 4.2.2 Summary of Non-Detected Contaminants

During the Early 2014 Semi-Annual Event, SVOC detections were limited to atrazine, benzo(a)pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene, bis(2-ethylhexyl)phthalate, caffeine, carbonphenothion, bibenz(a,h)anthracene, indeno(1,2,3-cd)pyrene, metolachlor, naphthalene, simazine, and thiobencarb in a limited number of wells.

During the 2014 Annual Event, atrazine was the only SVOC out of the EPA Method 8270 list that was detected.

Of the 89 VOC compounds that were analyzed, 51 compounds were not detected during the Early 2014 Semi-Annual Event and 54 of these were not detected in any wells in the 2014 Annual Event. A table summarizing the compounds that were not detected during these two events is included as Table 4-12.

### 4.2.3 Contaminant Distributions

Figures 4-11 through 4-20 present isoconcentration contours for PCE, TCE, 1,1-DCE,1,4-dioxane, and 1,1-DCA in the UIZ and LIZ. The contours show 1x, 5x, and 10x the appropriate regulatory limit, either MCL or NL. Figures 4-12 through 4-16 depict the isoconcentration contours for the five compounds for the UIZ and Figures 4-17 through 4-21 present the isoconcentration contours for the LIZ. Figure 4-22 shows the detections of PCE, TCE, 1,1-DCE, 1,4-dioxane, and 1,1-DCA in the DZ.

Composite plume maps for the UIZ and LIZ have also been prepared. Figures 4-23 and 4-24 present the composite plume in each zone. These figures present data for the key contaminants (PCE, TCE, 1,1-DCE, and 1,4-dioxane). The contours represent the maximum lateral extent of the area where one or more of these key contaminants exceed the multiple of the regulatory limit.

VOC contaminants are widely distributed within the UIZ. PCE, TCE, and 1,4-dioxane are present throughout the UIZ at concentrations exceeding MCLs or NLs, whereas higher concentrations of 1,1-DCE and 1,4-dioxane, and the more elevated levels of TCE and PCE are found downgradient of the former Benchmark site between Valley Boulevard and Nelson Avenue, as well as between MP20-3 and IZ-East. Elevated concentrations of PCE (10x MCL) are also found near the intersection of Proctor Avenue and S. 9$^{th}$ Avenue, extending downgradient to the vicinity of the MW7-8 well cluster. 1,1-DCA is present at concentrations exceeding 1x MCL between MP20 and IZ-East.

In the LIZ, contamination is more discontinuous and detections tend to be more isolated. An area of elevated VOC concentrations including PCE, TCE, 1,1-DCE,1,4-dioxane, and 1,1-DCA is present, approximately centered on the MW7-14 cluster and IZ-East. Another area with PCE and TCE at concentrations exceeding 1x MCL is present from the former Benchmark site, extending downgradient to the vicinity of MP21. PCE, TCE, 1,1-DCE, and 1,4-dioxane at concentrations exceeding 1x MCL is also present at MW7-8B.

PCE, TCE, 1,1-DCE, 1,4-dioxane, and 1,1-DCA concentrations in the DZ are shown in Figure 4-22. PCE at greater than 1x MCL was detected at DZ monitoring well MW6-62, a location upgradient of the former Benchmark site. Key contaminants have not been detected at any other locations in DZ at concentrations exceeding the MCL.

### 4.2.4 Temporal Changes in Contaminant Concentrations

This section discusses the observed temporal trends in contaminant concentrations. Time-series plots were prepared for the key contaminants (PCE, TCE, 1,4-dioxane, and 1,1-DCE) to visually display the temporal trends in contaminant concentrations. In addition, formal statistical trend analysis was conducted to quantify the temporal trends and identify statistically significant changes in contaminant concentrations at individual monitoring wells.

#### 4.2.4.1 Time-Series Plots for Contaminant Concentrations

Time-series plots, presented in Appendix I, show contaminant concentrations versus time for the range of available data for TCE, PCE, 1,1-DCE, and 1,4-dioxane. A graph was prepared for each well that was sampled during the 2014 Annual Event. Non-detect results are presented at the detection limit in the plots and the non-detect values are indicated by an open symbol to differentiate between detected and non-detected results. Concentration trends are discussed in the following section.

#### 4.2.4.2 Trend Analysis

Trend analysis was conducted on the wells sampled during the 2014 Annual Event monitoring event to determine whether the data indicate an increase or decrease in concentrations over time. Trend analysis was performed using the Mann-Kendall method (M-K test), and is summarized in Table 4-13.

Details of the M-K method are provided in Gilbert (1987; Section 16.4), with the seminal references being Mann (1945) and Kendall (1975). The M-K method is a nonparametric method, meaning that it does not require any assumptions about the distribution of the data. Briefly, the method determines the number of concentration "increases" and "decreases" with time for all possible data pairs. Theoretically, the number of increases and decreases will be the same under a "no trend" condition. When the number of increases (decreases) exceeds the number of decreases (increases) an increasing (decreasing) trend is favored. The M-K method then calculates whether the favored trend is statistically significant at a defined confidence level.

In this study, an "INC" (increasing) or "DEC" (decreasing) designation in Table 4-13 means that the favored trend is statistically significant at a 95 percent confidence level, whereas an "NS" (not significant) designation means either no trend (increases equal decreases) or that the favored trend is not statistically significant at a 95 percent confidence level.

The power of the M-K method to identify whether a favored trend is statistically significant depends on the sample size. As the sample size decreases, the power decreases. In this study, a minimum sample size of ten was selected to provide adequate power. An "NA" (insufficient data) designation in Table 4-13 means that the sample size was less than ten and therefore the M-K method was not applied. The sample size was determined as the number of unique (non-tying) concentrations (detects and nondetects).

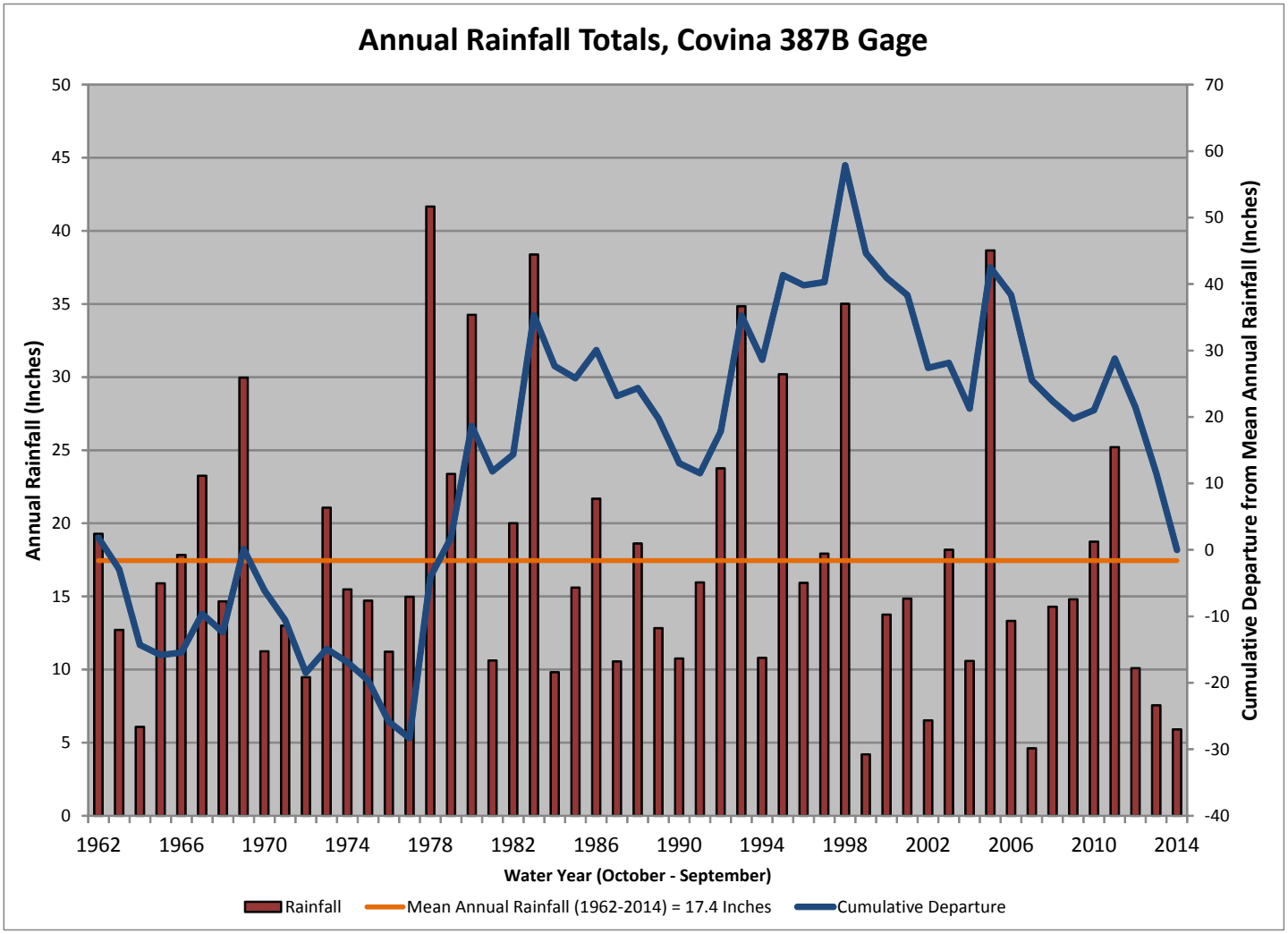
One of the strengths of using the M-K test to assess environmental data is its ability to handle non-detects. Although the numeric concentrations are not known for ND results, they may be ranked as having lower values than detected results. To prevent a change in detection limits over time being identified as indicative of a trend, for the purposes of this study any NDs were treated as being tied (*i.e.*, having the same concentration) and below the detected values.

Other data preprocessing included the inclusion of estimated ("J" qualified) data at the estimated value, the use of a single average value for field duplicate samples; and removal of laboratory replicates and sample splits. Directions for carrying out the M-K test are available in Section 17.3.2 of USEPA (2009). Trend tests were performed using a proprietary Excel add-in prepared and validated by CRA. The details of the trend analysis are presented in Appendix J.

Figures 4-25 through 4-28 illustrate the spatial temporal trend analysis results for PCE, TCE, 1,1-DCE, and 1,4-dioxane in the UIZ and LIZ for the wells sampled as part of the 2014 Annual Event. In the trend analysis, six wells indicate an increasing trend for at least one compound and 14 wells have a decreasing trend for at least one compound. The majority of the results show no significant trend.

Additionally, the newly-installed wells have only been sampled a few times and, therefore, insufficient data are available for the trend analysis.

Out of the six wells that had increasing trends in concentrations, only MW6-10i showed an increasing trend for several compounds including PCE, TCE, 1,1-DCE, 1,4-dioxane, 1,1-DCA. MP20-03 continued to show an increasing trend for 1,4-dioxane. Increasing trends were observed for perchlorate, TDS, and nitrate in only a few wells, including wells MW6-46 and MW6-56 for perchlorate and wells MW6-34 and MW6-46 for TDS and MW6-13i for nitrate. Decreasing trends were observed for PCE at 4 wells, TCE at 5 wells, 1,1-DCE at 6 wells and 1,4-dioxane at 1 well.




Note: Annual rainfall data from rain gauge 387B - Covina City Yard.

File: GWMR_Fig_Covina.mxd Date: 10/31/2014

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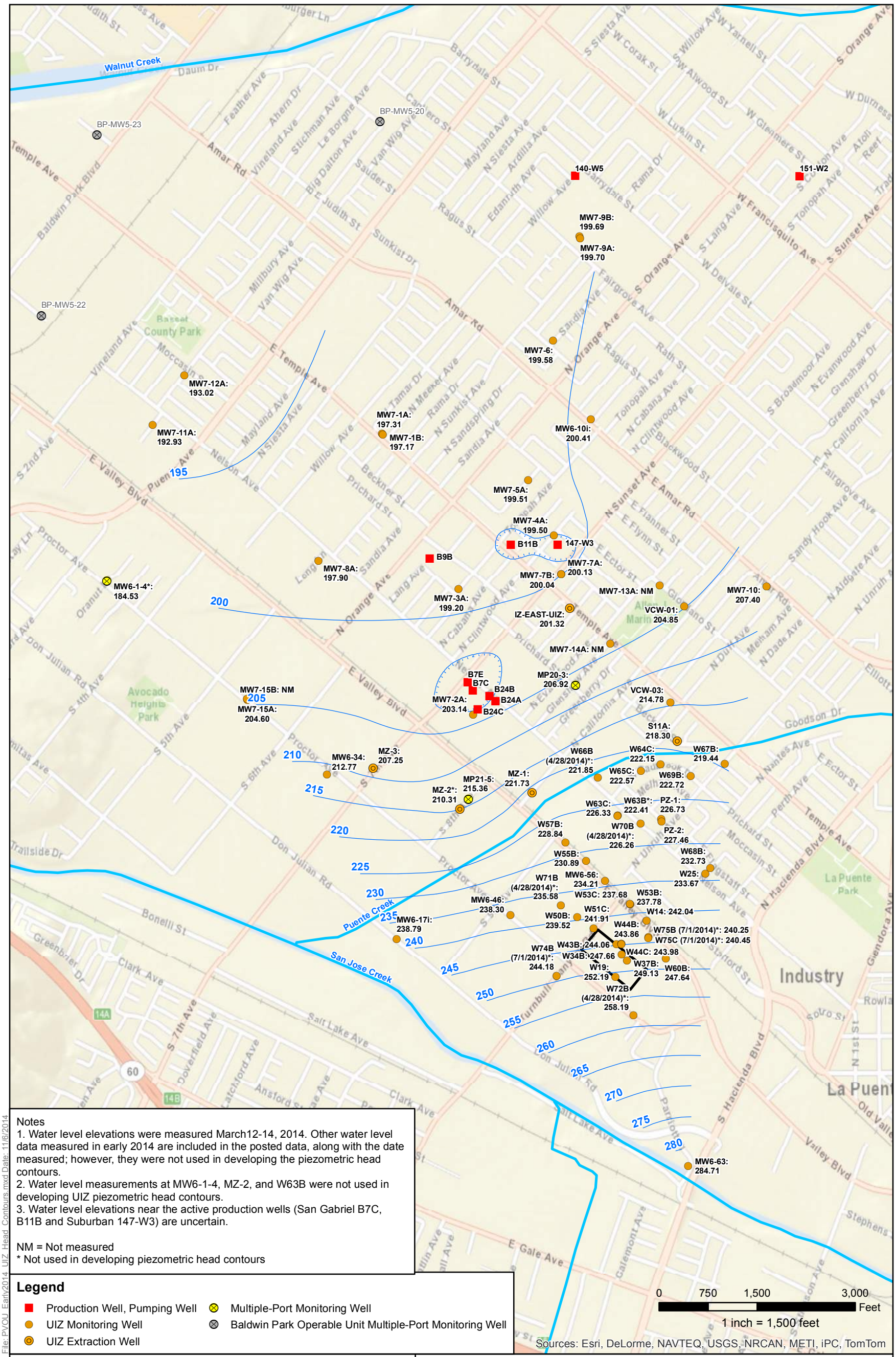
**Figure 4-1**
**Annual Rainfall Totals**

Puente Valley Operable Unit

11/7/2014




Notes
1. Water level elevations were measured March12-14, 2014. Other water level data measured in early 2014 are included in the posted data, along with the date measured; however, they were not used in developing the piezometric head contours.
2. Water level measurements at MW6-1-4, MZ-2, and W63B were not used in developing UIZ piezometric head contours.
3. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- UIZ Piezometric Head Contours (ft NAVD 88) Dashed lines are approximate
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

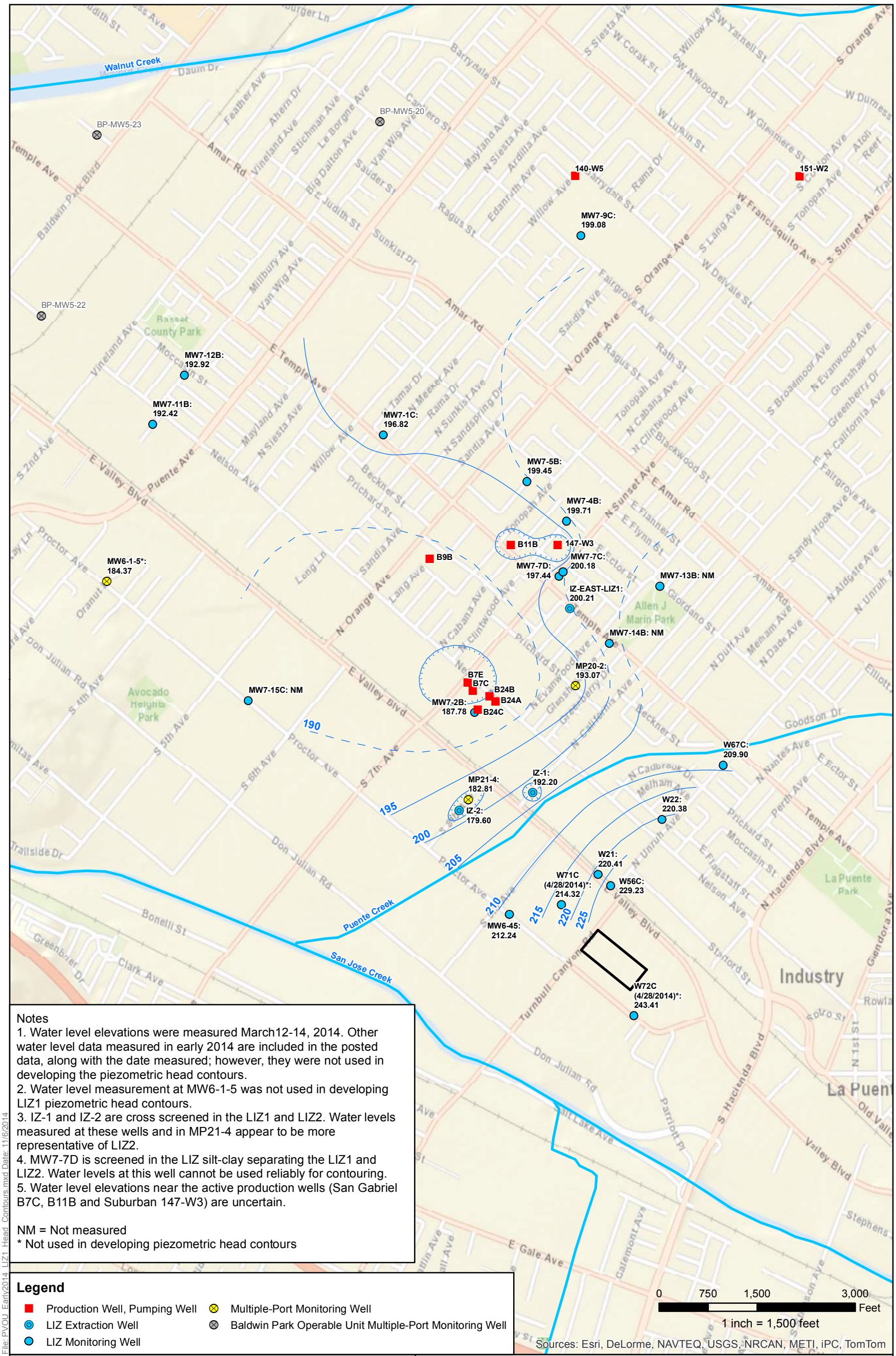
**Figure 4-2**
**Piezometric Head Contours**
**Upper Intermediate Zone (UIZ)**
**Early 2014 Semi-Annual Monitoring Event**

Puente Valley Operable Unit

11/6/2014

N

File: PVOU_Early2014_UIZ_Head Contours.mxd Date: 11/6/2014




Notes
1. Water level elevations were measured March12-14, 2014. Other water level data measured in early 2014 are included in the posted data, along with the date measured; however, they were not used in developing the piezometric head contours.
2. Water level measurement at MW6-1-5 was not used in developing LIZ1 piezometric head contours.
3. IZ-1 and IZ-2 are cross screened in the LIZ1 and LIZ2. Water levels measured at these wells and in MP21-4 appear to be more representative of LIZ2.
4. MW7-7D is screened in the LIZ silt-clay separating the LIZ1 and LIZ2. Water levels at this well cannot be used reliably for contouring.
5. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- LIZ1 Piezometric Head Contours (ft NAVD 88) Dashed lines are approximate
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

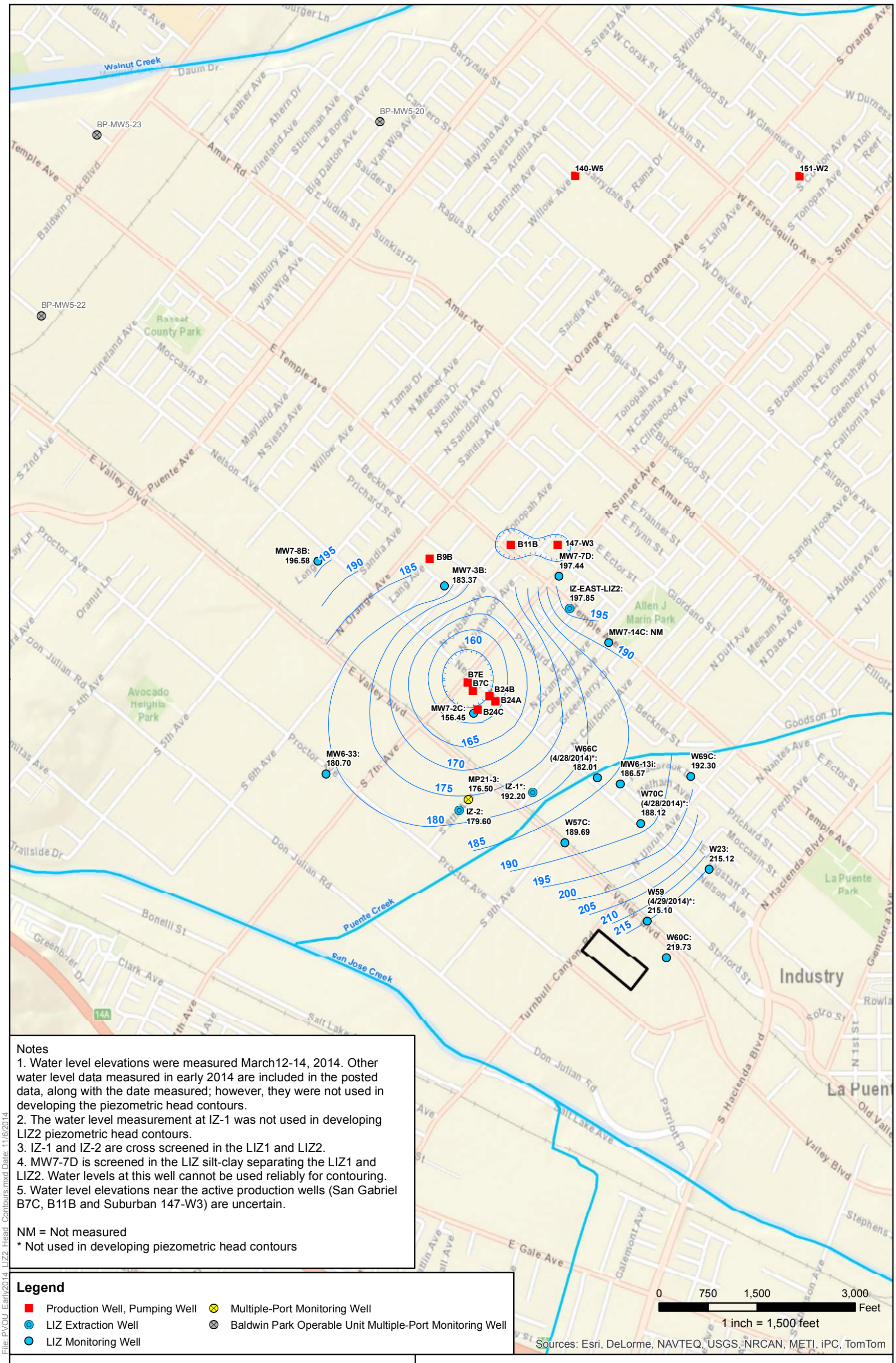
CDM Smith

**Figure 4-3**
**Piezometric Head Contours**
**Lower Intermediate Zone (LIZ1)**
**Early 2014 Semi-Annual Monitoring Event**

Puente Valley Operable Unit
11/6/2014

N

File: PVOU_Early2014_LIZ1_Head_Contours.mxd Date: 11/6/2014




Notes
1. Water level elevations were measured March12-14, 2014. Other water level data measured in early 2014 are included in the posted data, along with the date measured; however, they were not used in developing the piezometric head contours.
2. The water level measurement at IZ-1 was not used in developing LIZ2 piezometric head contours.
3. IZ-1 and IZ-2 are cross screened in the LIZ1 and LIZ2.
4. MW7-7D is screened in the LIZ silt-clay separating the LIZ1 and LIZ2. Water levels at this well cannot be used reliably for contouring.
5. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- LIZ2 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

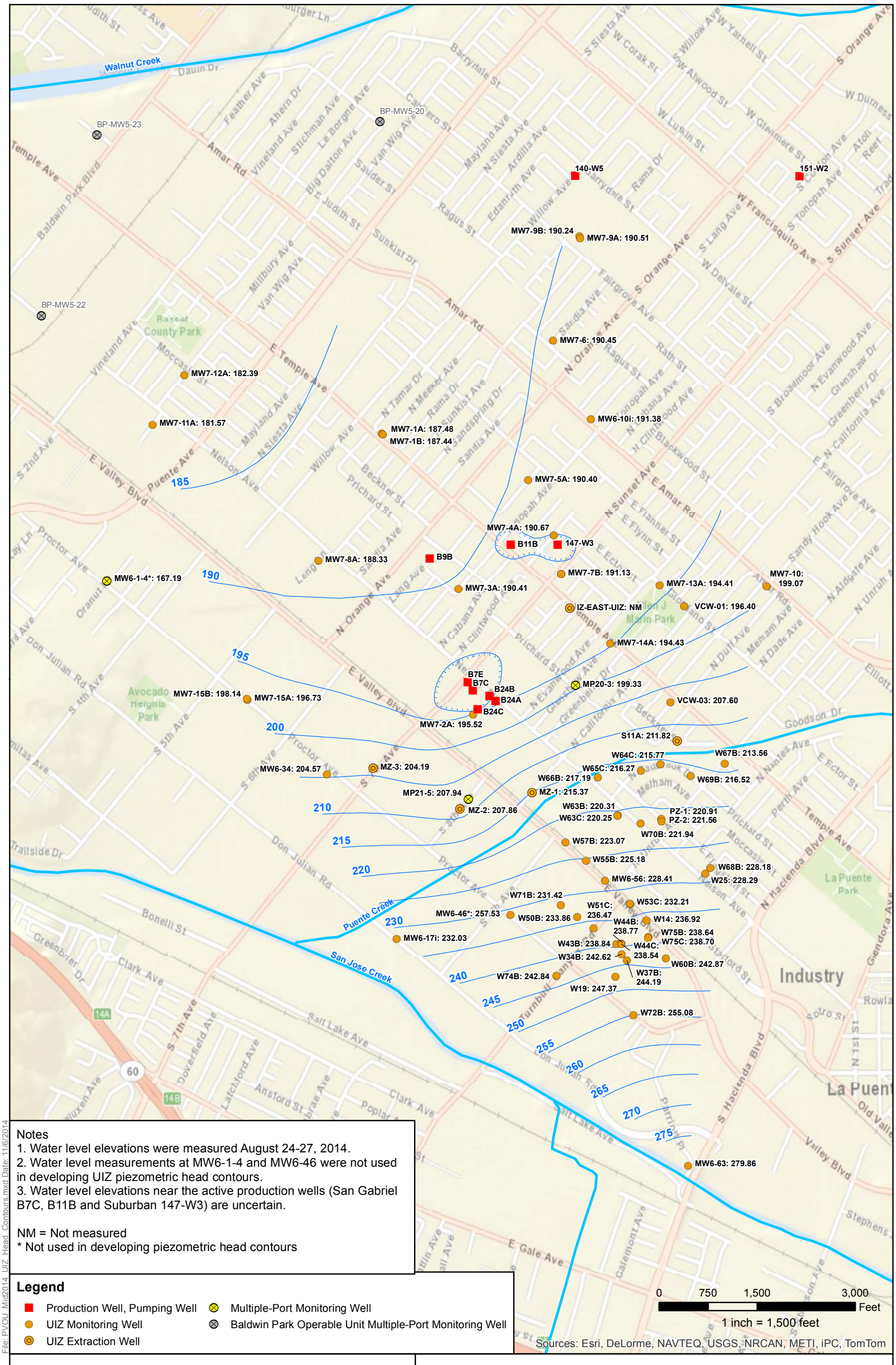
**Figure 4-4**
**Piezometric Head Contours**
**Lower Intermediate Zone (LIZ2)**
**Early 2014 Semi-Annual Monitoring Event**

Puente Valley Operable Unit

11/6/2014

N

File: PVOU_Early2014_LIZ2_Head_Contours.mxd Date: 11/6/2014




Notes
1. Water level elevations were measured August 24-27, 2014.
2. Water level measurements at MW6-1-4 and MW6-46 were not used in developing UIZ piezometric head contours.
3. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- UIZ Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek

CDM Smith

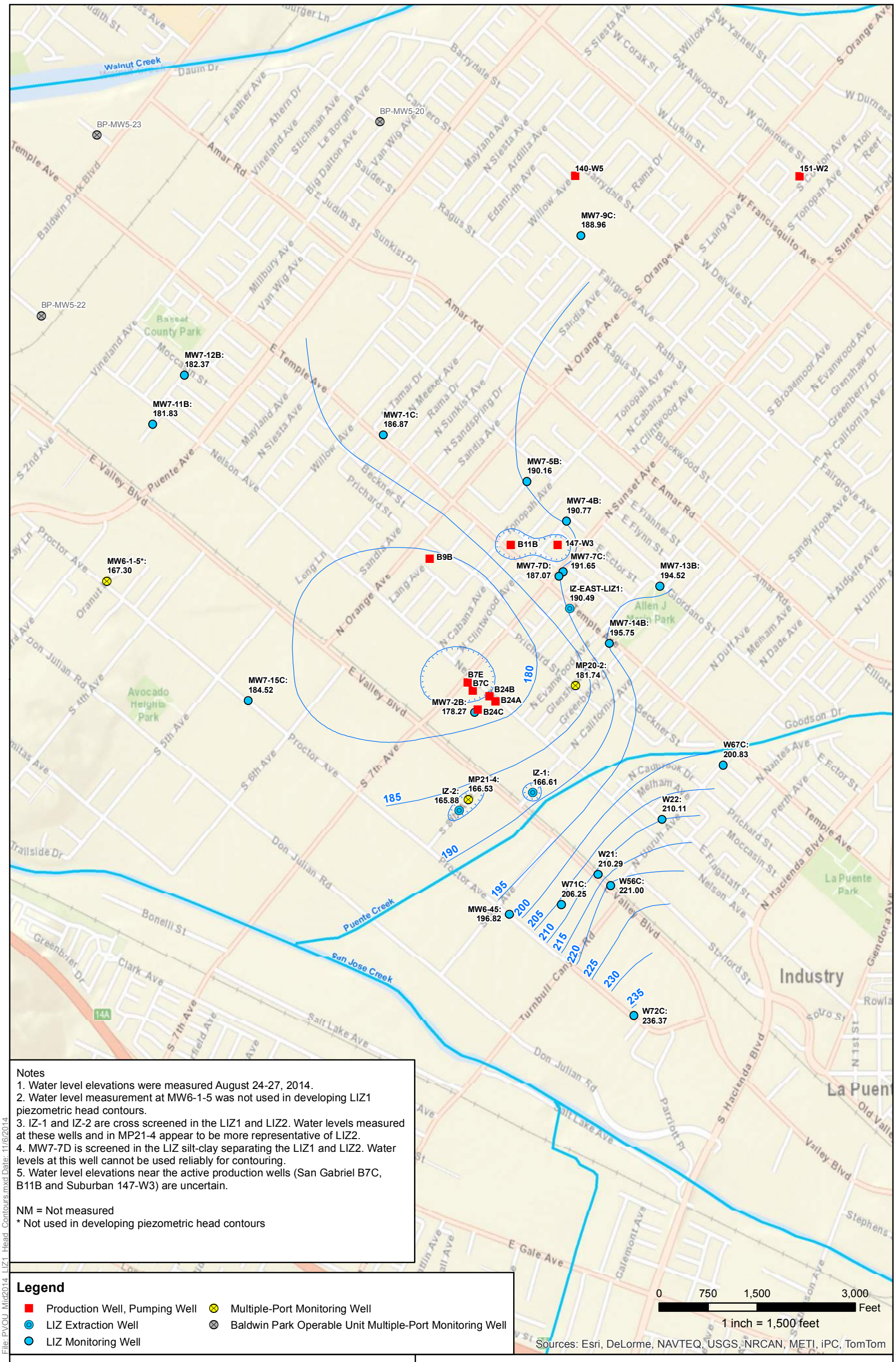
**Figure 4-5**
**Piezometric Head Contours**
**Upper Intermediate Zone (UIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/6/2014

N

File: PVOU_Mid2014_UIZ_Head_Contours.mxd Date: 11/6/2014




Notes
1. Water level elevations were measured August 24-27, 2014.
2. Water level measurement at MW6-1-5 was not used in developing LIZ1 piezometric head contours.
3. IZ-1 and IZ-2 are cross screened in the LIZ1 and LIZ2. Water levels measured at these wells and in MP21-4 appear to be more representative of LIZ2.
4. MW7-7D is screened in the LIZ silt-clay separating the LIZ1 and LIZ2. Water levels at this well cannot be used reliably for contouring.
5. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

- LIZ1 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek

CDM Smith

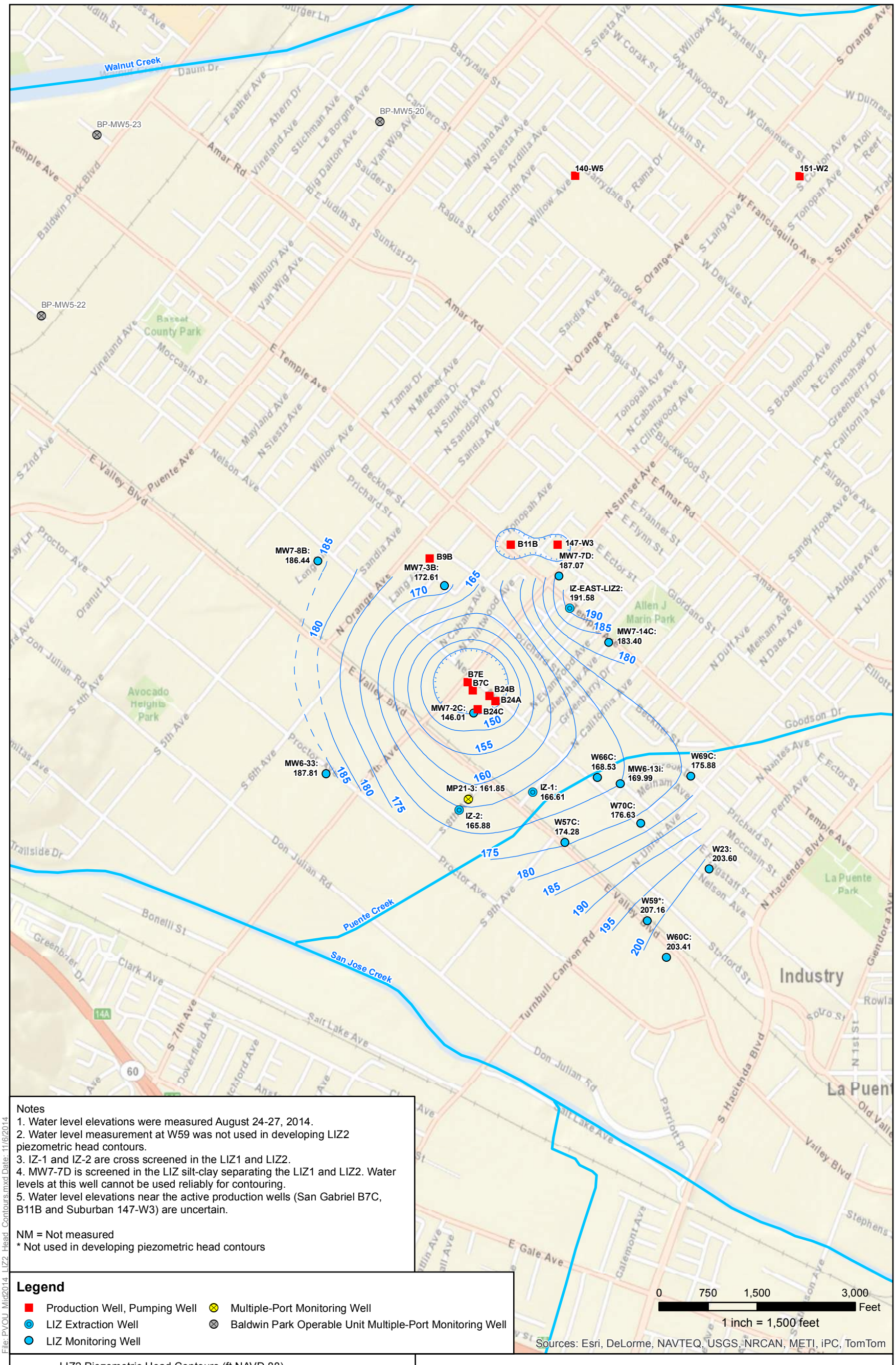
**Figure 4-6**
**Piezometric Head Contours**
**Lower Intermediate Zone (LIZ1)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/6/2014

N

File: PVOU_Mid2014_LIZ1_Head_Contours.mxd Date: 11/6/2014




Notes
1. Water level elevations were measured August 24-27, 2014.
2. Water level measurement at W59 was not used in developing LIZ2 piezometric head contours.
3. IZ-1 and IZ-2 are cross screened in the LIZ1 and LIZ2.
4. MW7-7D is screened in the LIZ silt-clay separating the LIZ1 and LIZ2. Water levels at this well cannot be used reliably for contouring.
5. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

0 750 1,500 3,000 Feet
1 inch = 1,500 feet

Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, iPC, TomTom

- LIZ2 Piezometric Head Contours (ft NAVD 88) Dashed lines are approximate
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek

CDM Smith

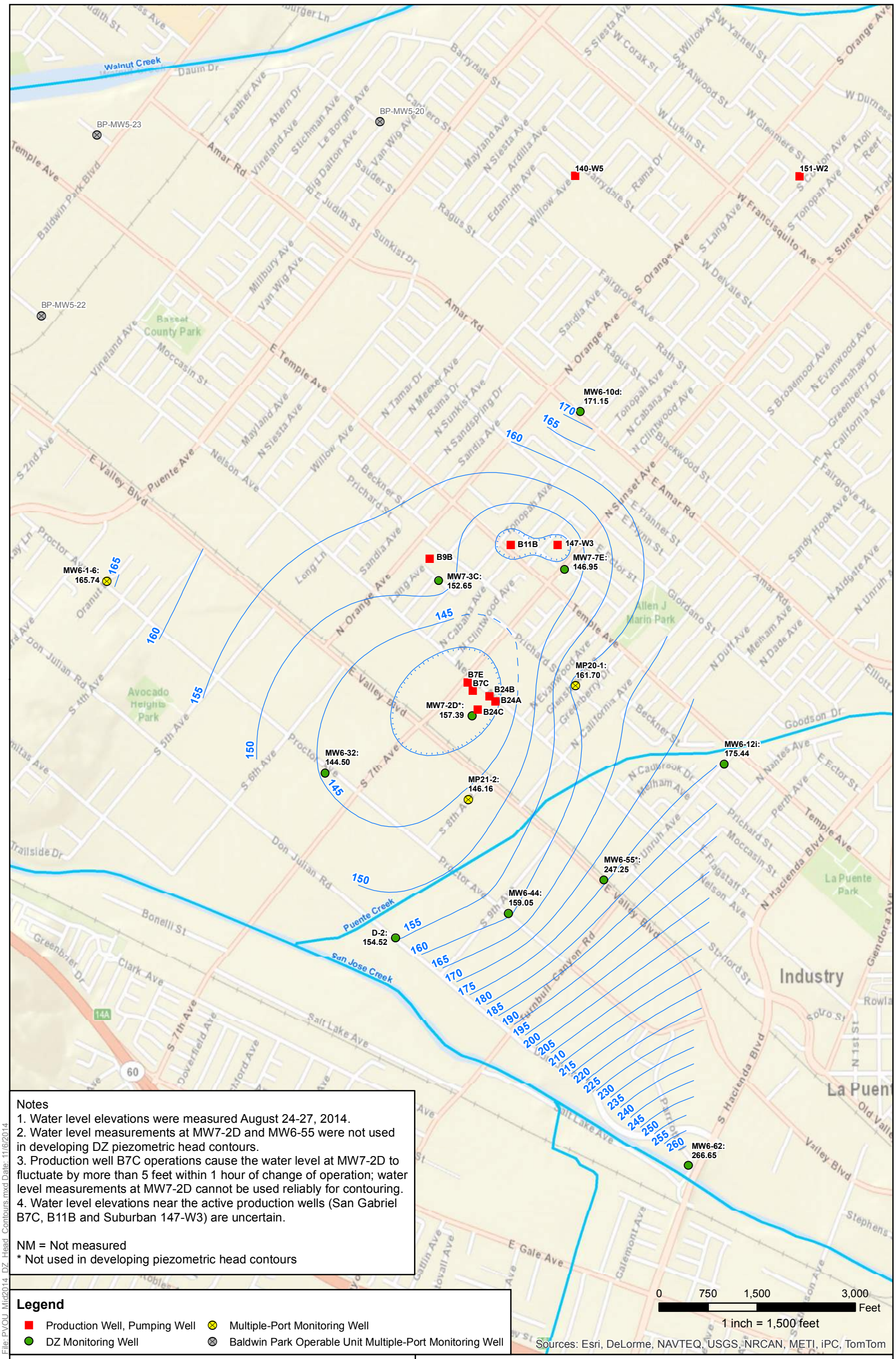
**Figure 4-7**
**Piezometric Head Contours**
**Lower Intermediate Zone (LIZ2)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/6/2014

N

File: PVOU_Mid2014_LIZ2_Head_Contours.mxd Date: 11/6/2014




Notes
1. Water level elevations were measured August 24-27, 2014.
2. Water level measurements at MW7-2D and MW6-55 were not used in developing DZ piezometric head contours.
3. Production well B7C operations cause the water level at MW7-2D to fluctuate by more than 5 feet within 1 hour of change of operation; water level measurements at MW7-2D cannot be used reliably for contouring.
4. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- DZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- DZ Piezometric Head Contours (ft NAVD 88) Dashed lines are approximate
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek

CDM Smith

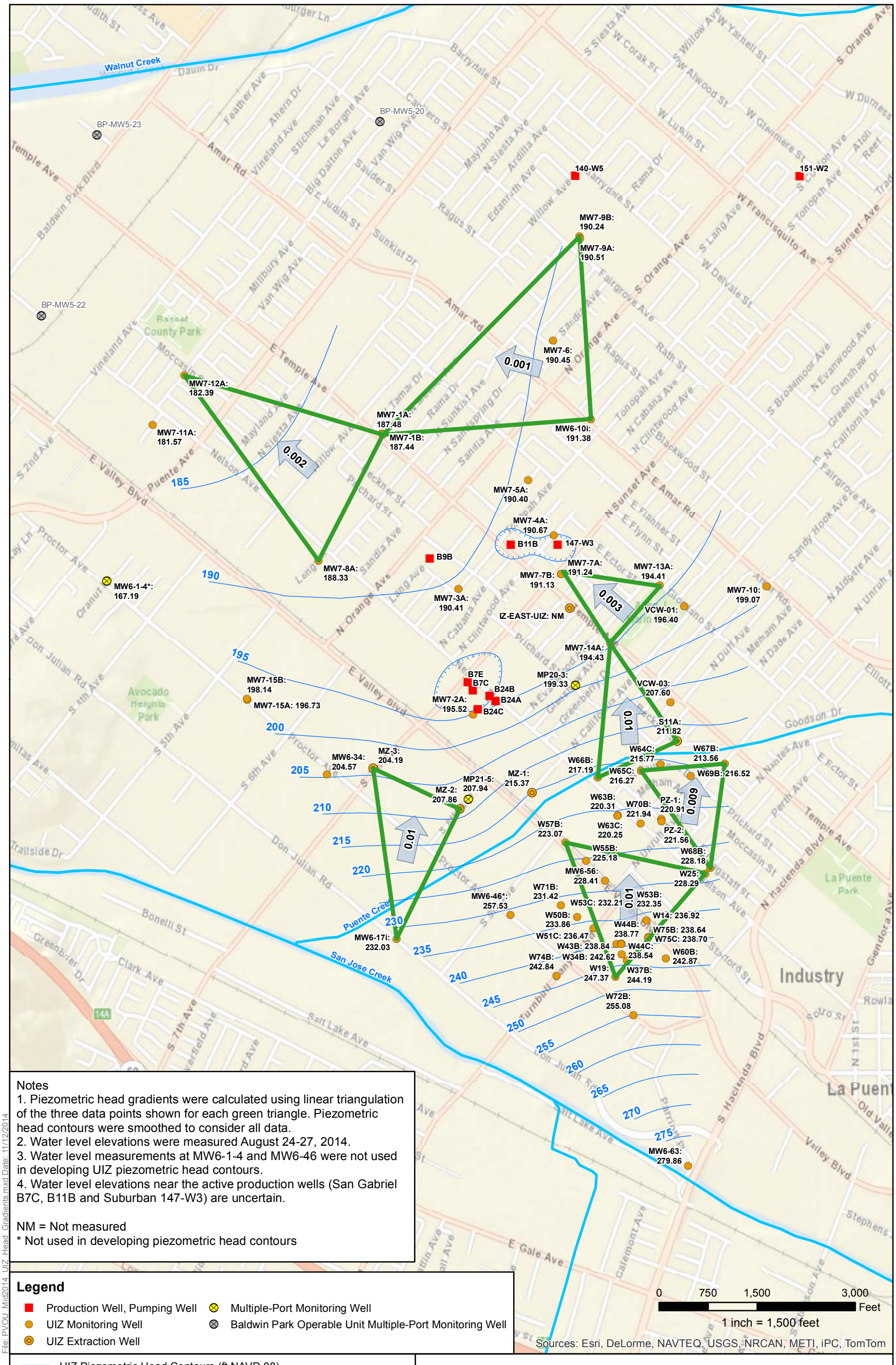
**Figure 4-8**
**Piezometric Head Contours**
**Deep Zone (DZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/6/2014

N

File: PVOU_Mid2014_DZ_Head_Contours.mxd Date: 11/6/2014




Notes
1. Piezometric head gradients were calculated using linear triangulation of the three data points shown for each green triangle. Piezometric head contours were smoothed to consider all data.
2. Water level elevations were measured August 24-27, 2014.
3. Water level measurements at MW6-1-4 and MW6-46 were not used in developing UIZ piezometric head contours.
4. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- UIZ Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Estimated groundwater flow direction and gradient
- Wells used to calculate posted gradients

CDM Smith

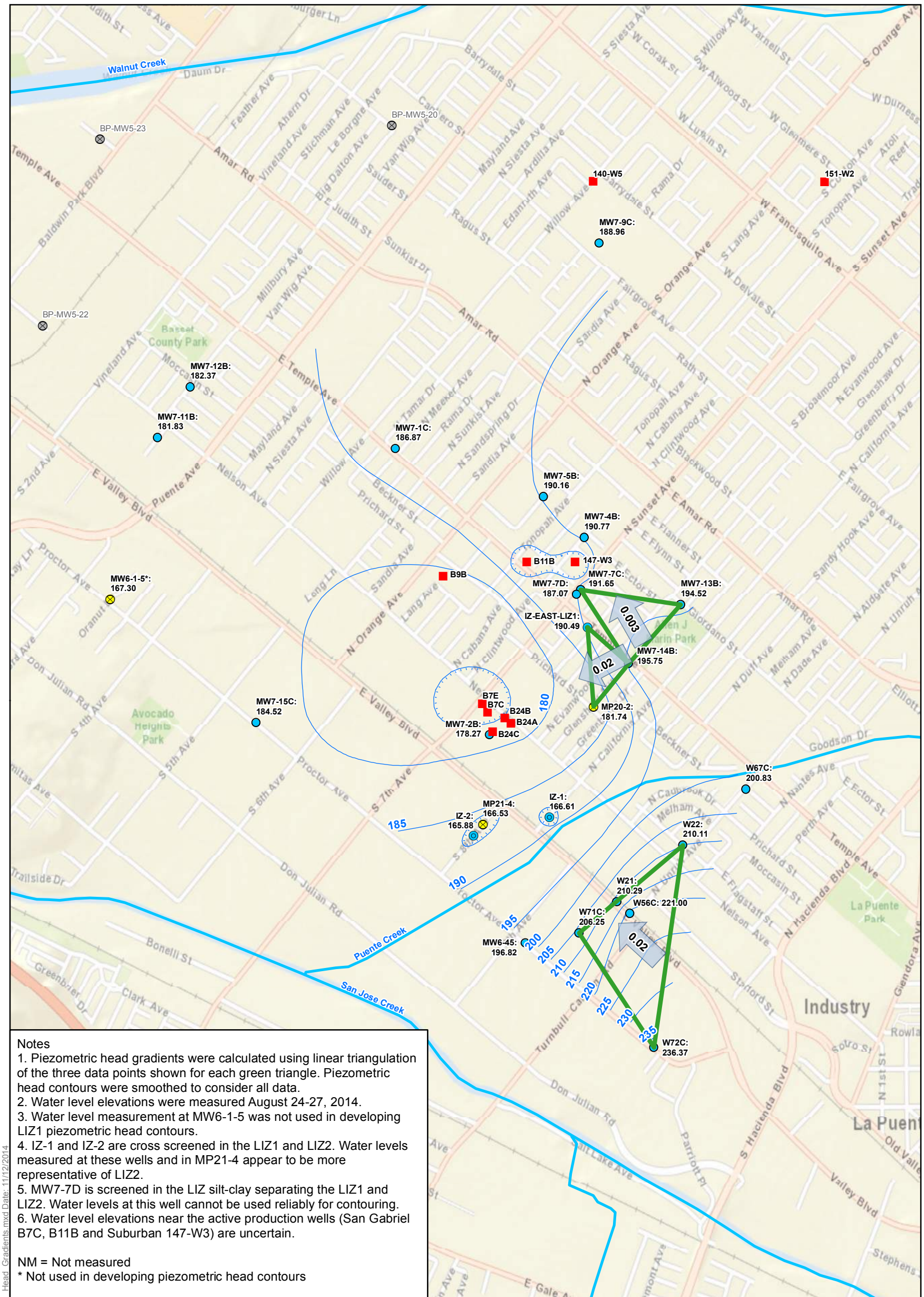
**Figure 4-9**
**Piezometric Head Contours and Gradients**
**Upper Intermediate Zone (UIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/12/2014

N

File: PVOU_Mid2014_UIZ_Head_Gradients.mxd Date: 11/12/2014




Notes
1. Piezometric head gradients were calculated using linear triangulation of the three data points shown for each green triangle. Piezometric head contours were smoothed to consider all data.
2. Water level elevations were measured August 24-27, 2014.
3. Water level measurement at MW6-1-5 was not used in developing LIZ1 piezometric head contours.
4. IZ-1 and IZ-2 are cross screened in the LIZ1 and LIZ2. Water levels measured at these wells and in MP21-4 appear to be more representative of LIZ2.
5. MW7-7D is screened in the LIZ silt-clay separating the LIZ1 and LIZ2. Water levels at this well cannot be used reliably for contouring.
6. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- LIZ1 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Estimated groundwater flow direction and gradient
- Wells used to calculate posted gradients

CDM Smith

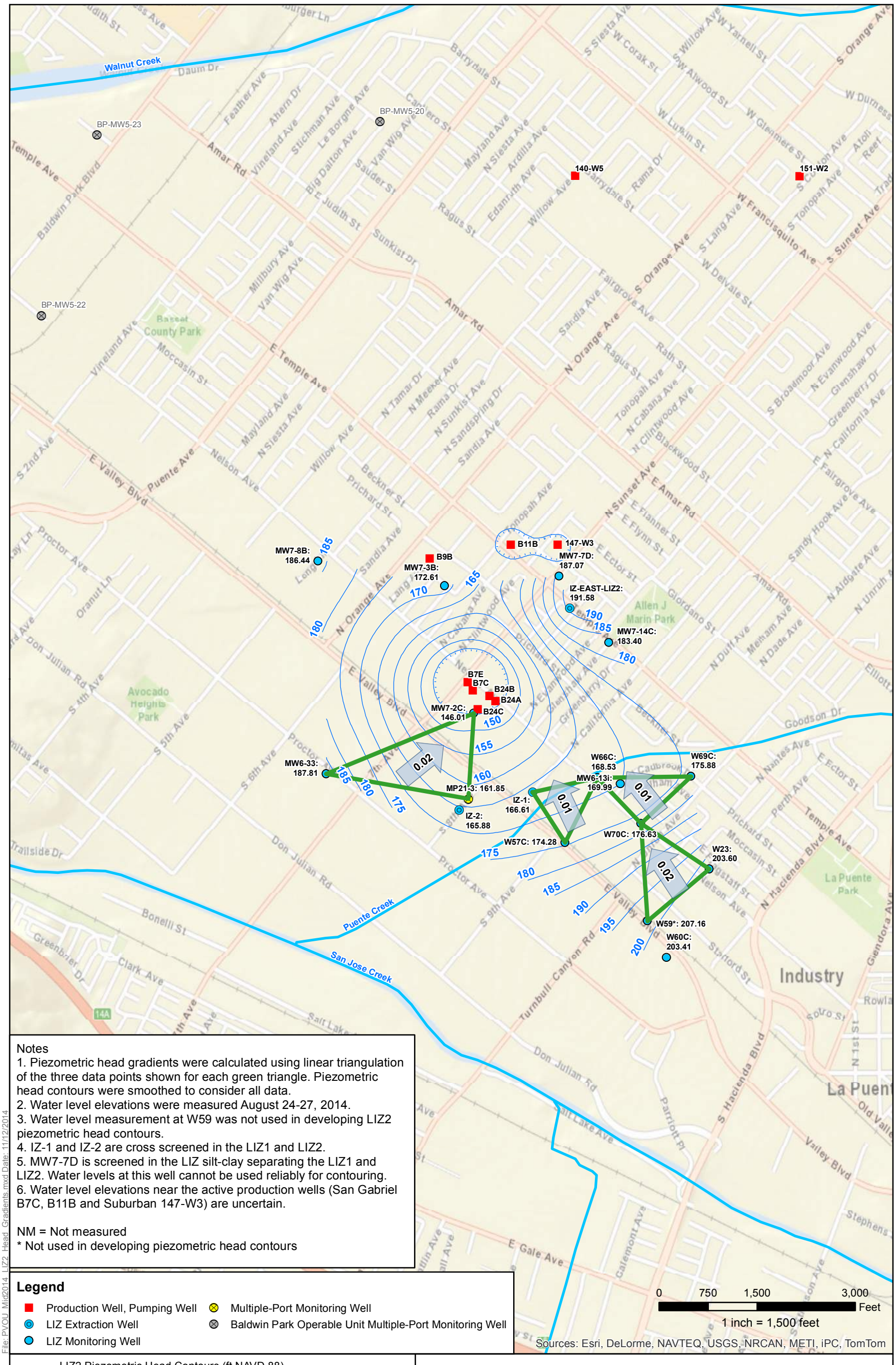
**Figure 4-10**
**Piezometric Head Contours and Gradients**
**Lower Intermediate Zone (LIZ1)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/12/2014

N

File: PVOU_Mid2014_LIZ1_Head_Gradients.mxd Date: 11/12/2014




Notes
1. Piezometric head gradients were calculated using linear triangulation of the three data points shown for each green triangle. Piezometric head contours were smoothed to consider all data.
2. Water level elevations were measured August 24-27, 2014.
3. Water level measurement at W59 was not used in developing LIZ2 piezometric head contours.
4. IZ-1 and IZ-2 are cross screened in the LIZ1 and LIZ2.
5. MW7-7D is screened in the LIZ silt-clay separating the LIZ1 and LIZ2. Water levels at this well cannot be used reliably for contouring.
6. Water level elevations near the active production wells (San Gabriel B7C, B11B and Suburban 147-W3) are uncertain.

NM = Not measured
* Not used in developing piezometric head contours

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- LIZ2 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Estimated groundwater flow direction and gradient
- Wells used to calculate posted gradients

CDM Smith

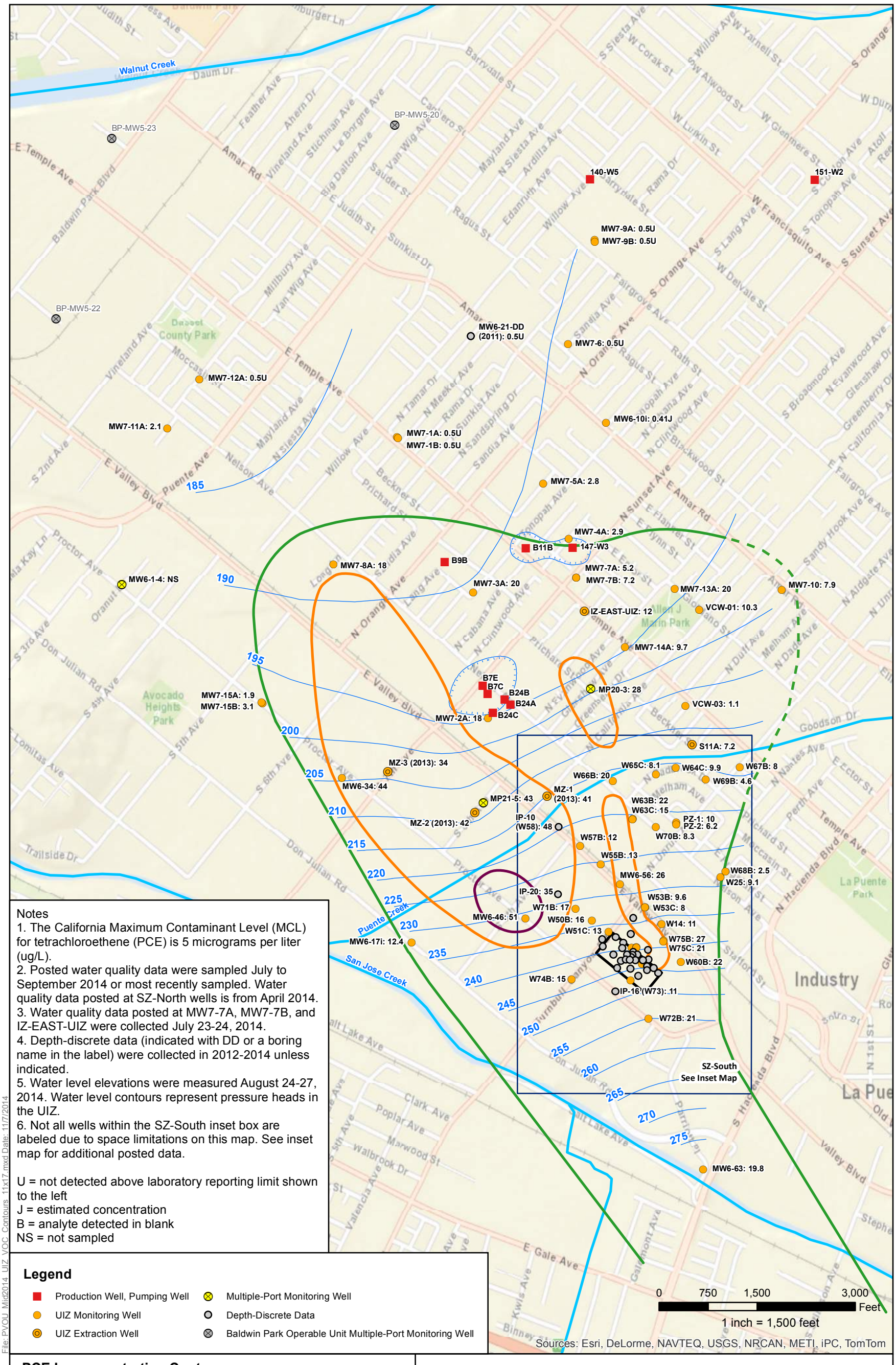
**Figure 4-11**
**Piezometric Head Contours and Gradients**
**Lower Intermediate Zone (LIZ2)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/12/2014

N

File: PVOU_Mid2014_LIZ2_Head_Gradients.mxd Date: 11/12/2014




Notes
1. The California Maximum Contaminant Level (MCL) for tetrachloroethene (PCE) is 5 micrograms per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7A, MW7-7B, and IZ-EAST-UIZ were collected July 23-24, 2014.
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated.
5. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the UIZ.
6. Not all wells within the SZ-South inset box are labeled due to space limitations on this map. See inset map for additional posted data.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**PCE Isoconcentration Contours**

- 1x MCL, 5 ug/L
- 5x MCL, 25 ug/L
- 10x MCL, 50 ug/L
- 20x MCL, 100 ug/L
- 100x MCL, 500 ug/L
- 200x MCL, 1,000 ug/L

Dashed lines are approximate

- UIZ Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

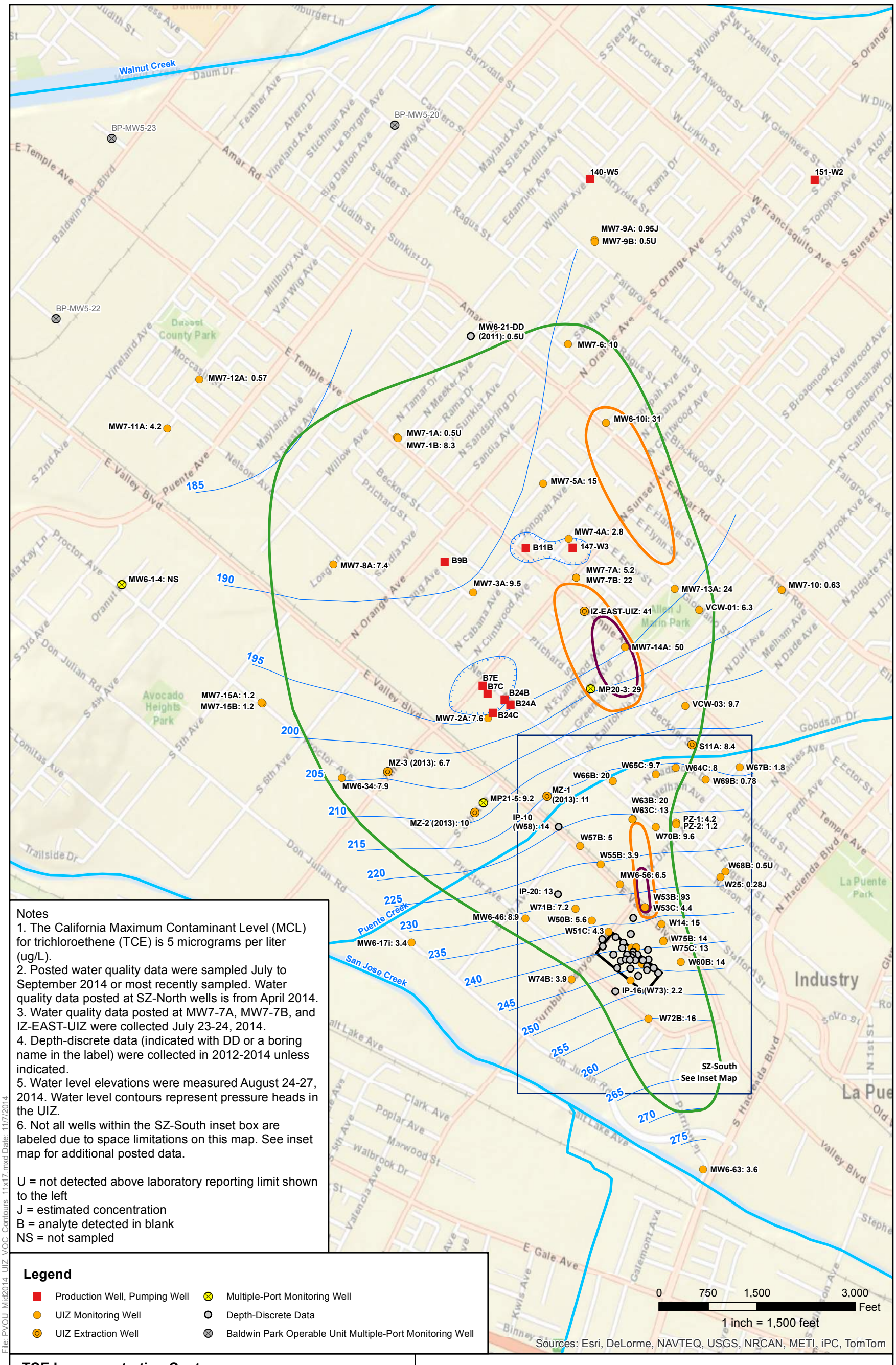
# Figure 4-12
# PCE Isoconcentration Contours
# Upper Intermediate Zone (UIZ)
# 2014 Annual Comprehensive Event

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_UIZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The California Maximum Contaminant Level (MCL) for trichloroethene (TCE) is 5 micrograms per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7A, MW7-7B, and IZ-EAST-UIZ were collected July 23-24, 2014.
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated.
5. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the UIZ.
6. Not all wells within the SZ-South inset box are labeled due to space limitations on this map. See inset map for additional posted data.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**TCE Isoconcentration Contours**

- 1x MCL, 5 ug/L
- 5x MCL, 25 ug/L
- 10x MCL, 50 ug/L
- 20x MCL, 100 ug/L
- 100x MCL, 500 ug/L
- 200x MCL, 1,000 ug/L

- UIZ Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

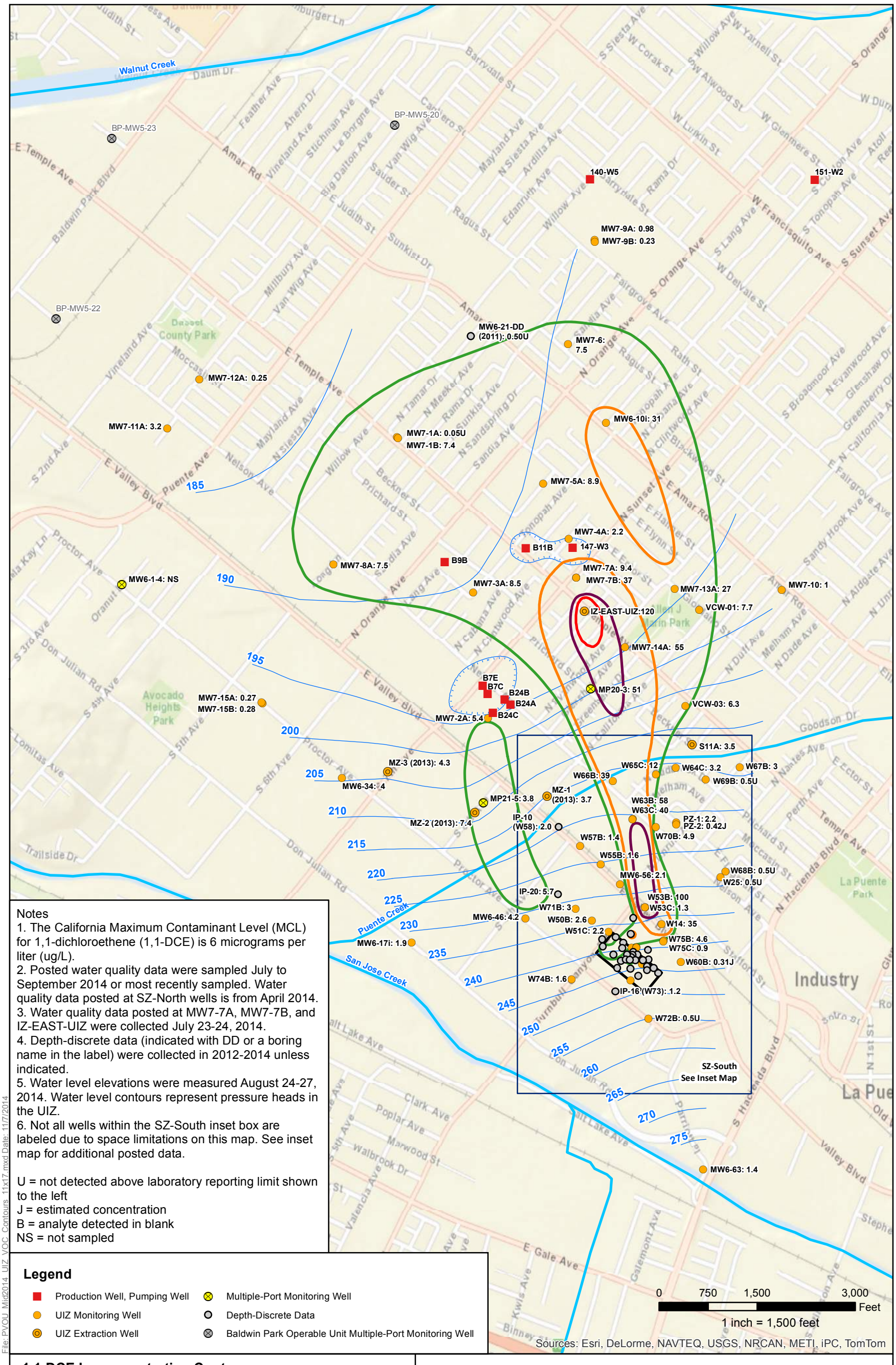
# Figure 4-13
# TCE Isoconcentration Contours
# Upper Intermediate Zone (UIZ)
# 2014 Annual Comprehensive Event

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_UIZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The California Maximum Contaminant Level (MCL) for 1,1-dichloroethene (1,1-DCE) is 6 micrograms per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7A, MW7-7B, and IZ-EAST-UIZ were collected July 23-24, 2014.
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated.
5. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the UIZ.
6. Not all wells within the SZ-South inset box are labeled due to space limitations on this map. See inset map for additional posted data.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**1,1-DCE Isoconcentration Contours**

- 1x MCL, 6 ug/L
- 5x MCL, 30 ug/L
- 10x MCL, 60 ug/L
- 20x MCL, 120 ug/L
- 100x MCL, 600 ug/L
- 200x MCL, 1,200 ug/L

- UIZ Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek and Walnut Creek
- Former TRW Benchmark Technology Facility

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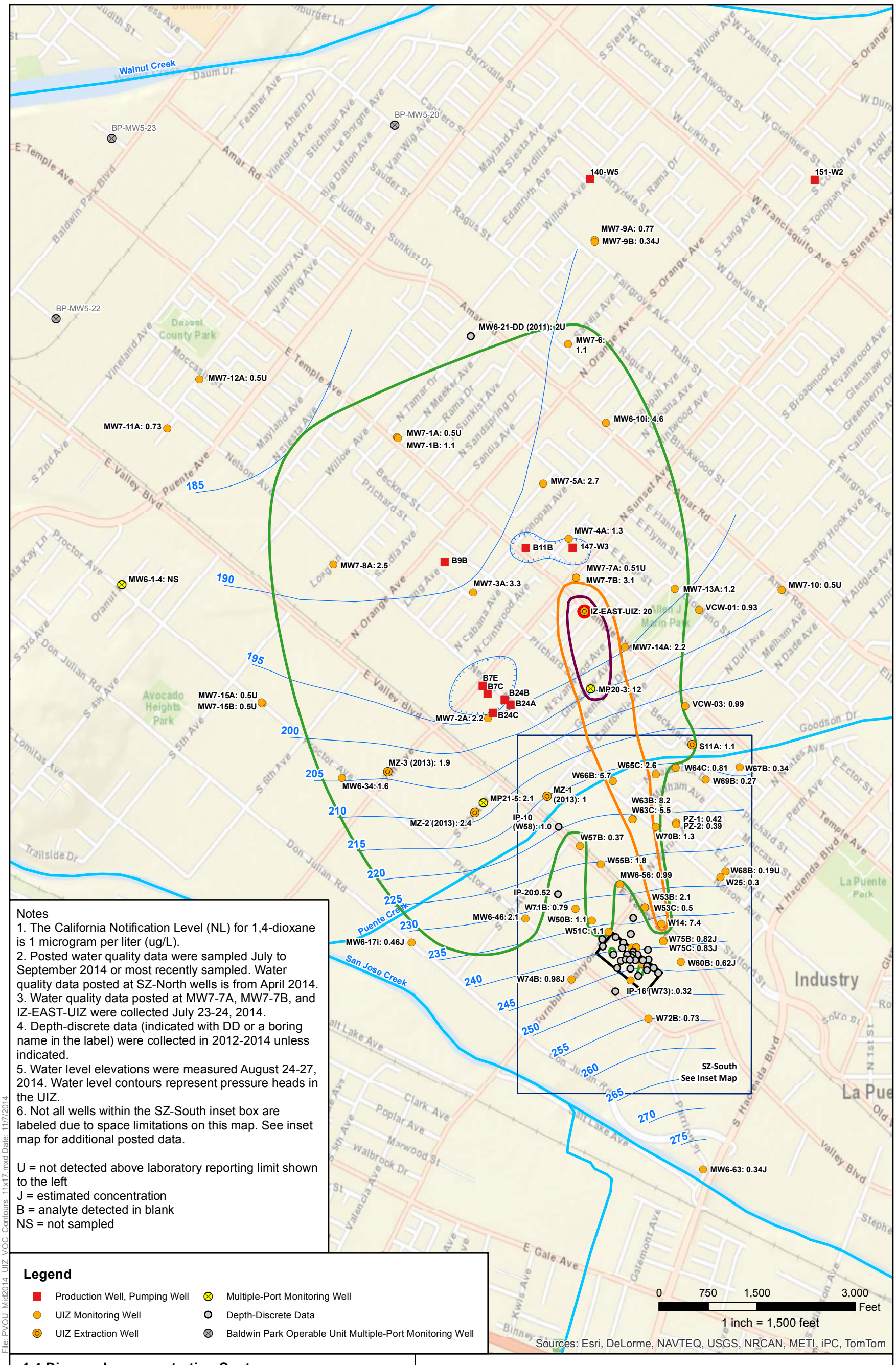
**Figure 4-14**
**1,1-DCE Isoconcentration Contours**
**Upper Intermediate Zone (UIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_UIZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The California Notification Level (NL) for 1,4-dioxane is 1 microgram per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7A, MW7-7B, and IZ-EAST-UIZ were collected July 23-24, 2014.
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated.
5. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the UIZ.
6. Not all wells within the SZ-South inset box are labeled due to space limitations on this map. See inset map for additional posted data.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**1,4-Dioxane Isoconcentration Contours**

- 1x NL, 1 ug/L
- 5x NL, 5 ug/L
- 10x NL, 10 ug/L
- 20x NL, 20 ug/L
- 100x NL, 100 ug/L
- 200x NL, 200 ug/L

- UIZ Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

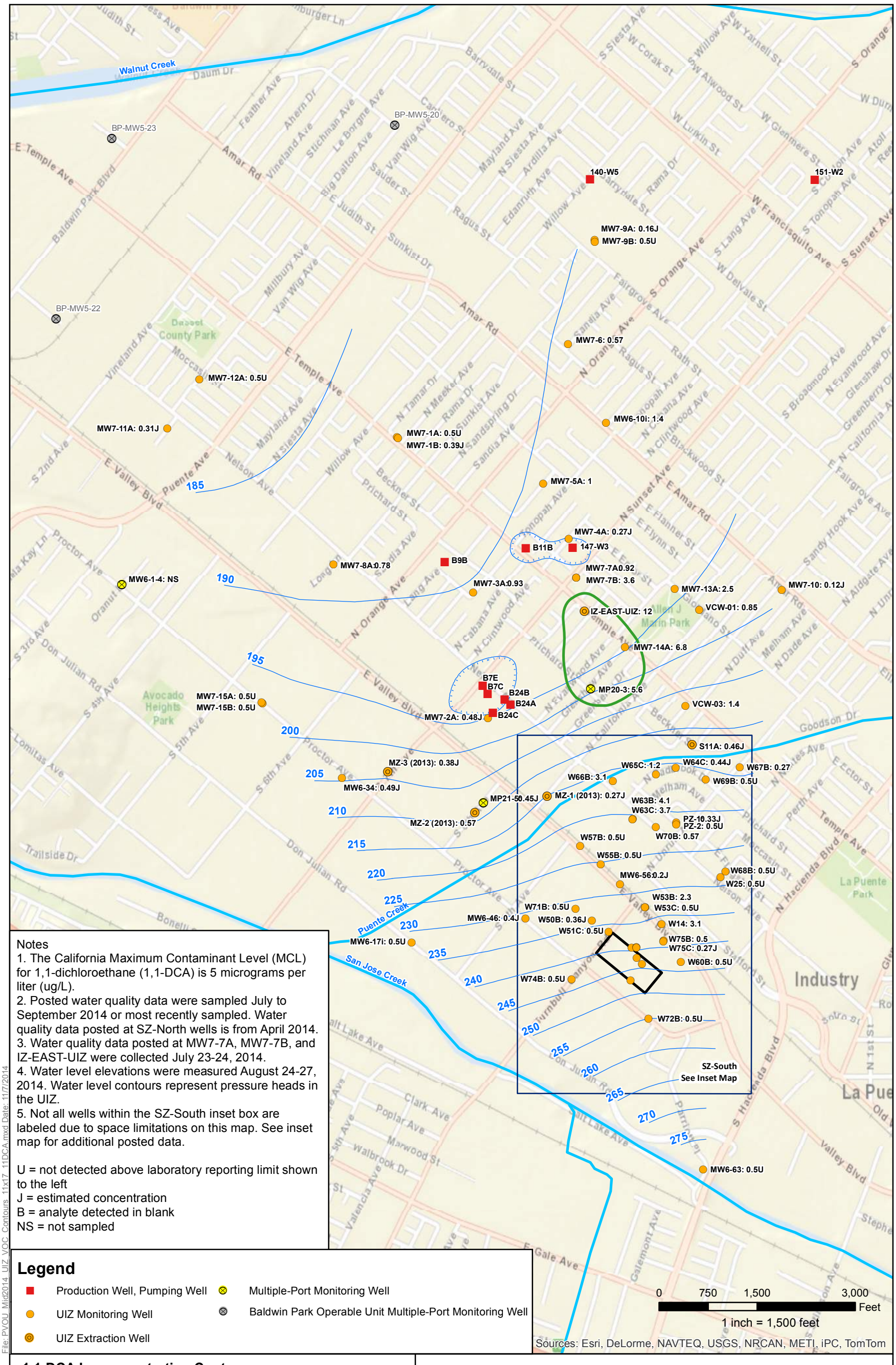
# Figure 4-15
# 1,4-Dioxane Isoconcentration Contours
# Upper Intermediate Zone (UIZ)
# 2014 Annual Comprehensive Event

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_UIZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The California Maximum Contaminant Level (MCL) for 1,1-dichloroethane (1,1-DCA) is 5 micrograms per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7A, MW7-7B, and IZ-EAST-UIZ were collected July 23-24, 2014.
4. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the UIZ.
5. Not all wells within the SZ-South inset box are labeled due to space limitations on this map. See inset map for additional posted data.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

0 750 1,500 3,000 Feet
1 inch = 1,500 feet

Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, iPC, TomTom

**1,1-DCA Isoconcentration Contours**

- 1x MCL, 5 ug/L
- 5x MCL, 25 ug/L
- 10x MCL, 50 ug/L
- 20x MCL, 100 ug/L
- 100x MCL, 500 ug/L
- 200x MCL, 1,000 ug/L

- UIZ Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

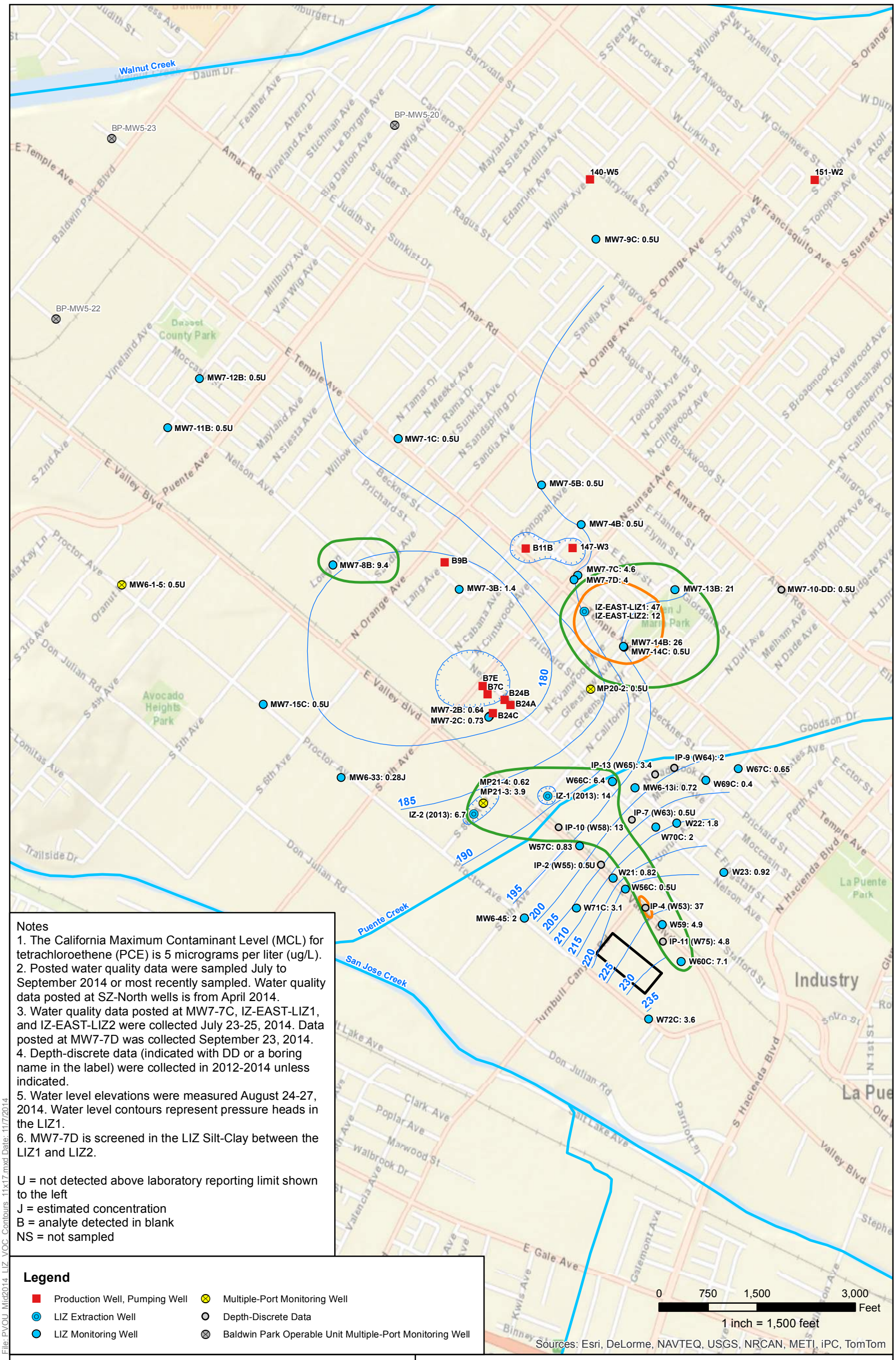
**Figure 4-16**
**1,1-DCA Isoconcentration Contours**
**Upper Intermediate Zone (UIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_UIZ_VOC_Contours_11x17_11DCA.mxd Date: 11/7/2014




Notes
1. The California Maximum Contaminant Level (MCL) for tetrachloroethene (PCE) is 5 micrograms per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7C, IZ-EAST-LIZ1, and IZ-EAST-LIZ2 were collected July 23-25, 2014. Data posted at MW7-7D was collected September 23, 2014.
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated.
5. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the LIZ1.
6. MW7-7D is screened in the LIZ Silt-Clay between the LIZ1 and LIZ2.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**PCE Isoconcentration Contours**

- 1x MCL, 5 ug/L
- 5x MCL, 25 ug/L
- 10x MCL, 50 ug/L
- 20x MCL, 100 ug/L
- 100x MCL, 500 ug/L
- 200x MCL, 1,000 ug/L
- LIZ1 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

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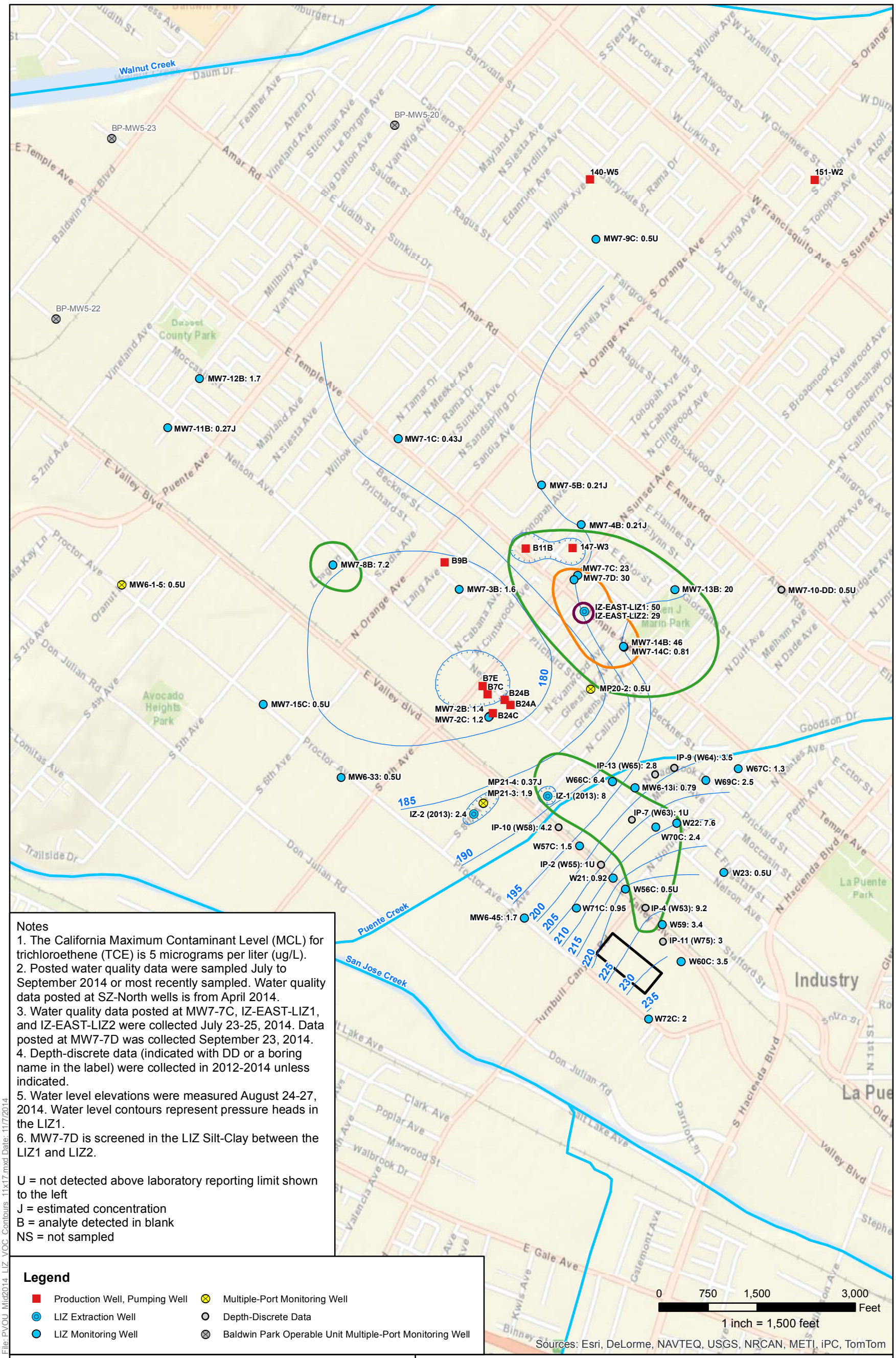
**Figure 4-17**
**PCE Isoconcentration Contours**
**Lower Intermediate Zone (LIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_LIZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The California Maximum Contaminant Level (MCL) for trichloroethene (TCE) is 5 micrograms per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7C, IZ-EAST-LIZ1, and IZ-EAST-LIZ2 were collected July 23-25, 2014. Data posted at MW7-7D was collected September 23, 2014.
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated.
5. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the LIZ1.
6. MW7-7D is screened in the LIZ Silt-Clay between the LIZ1 and LIZ2.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**TCE Isoconcentration Contours**

- 1x MCL, 5 ug/L
- 5x MCL, 25 ug/L
- 10x MCL, 50 ug/L
- 20x MCL, 100 ug/L
- 100x MCL, 500 ug/L
- 200x MCL, 1,000 ug/L
- LIZ1 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

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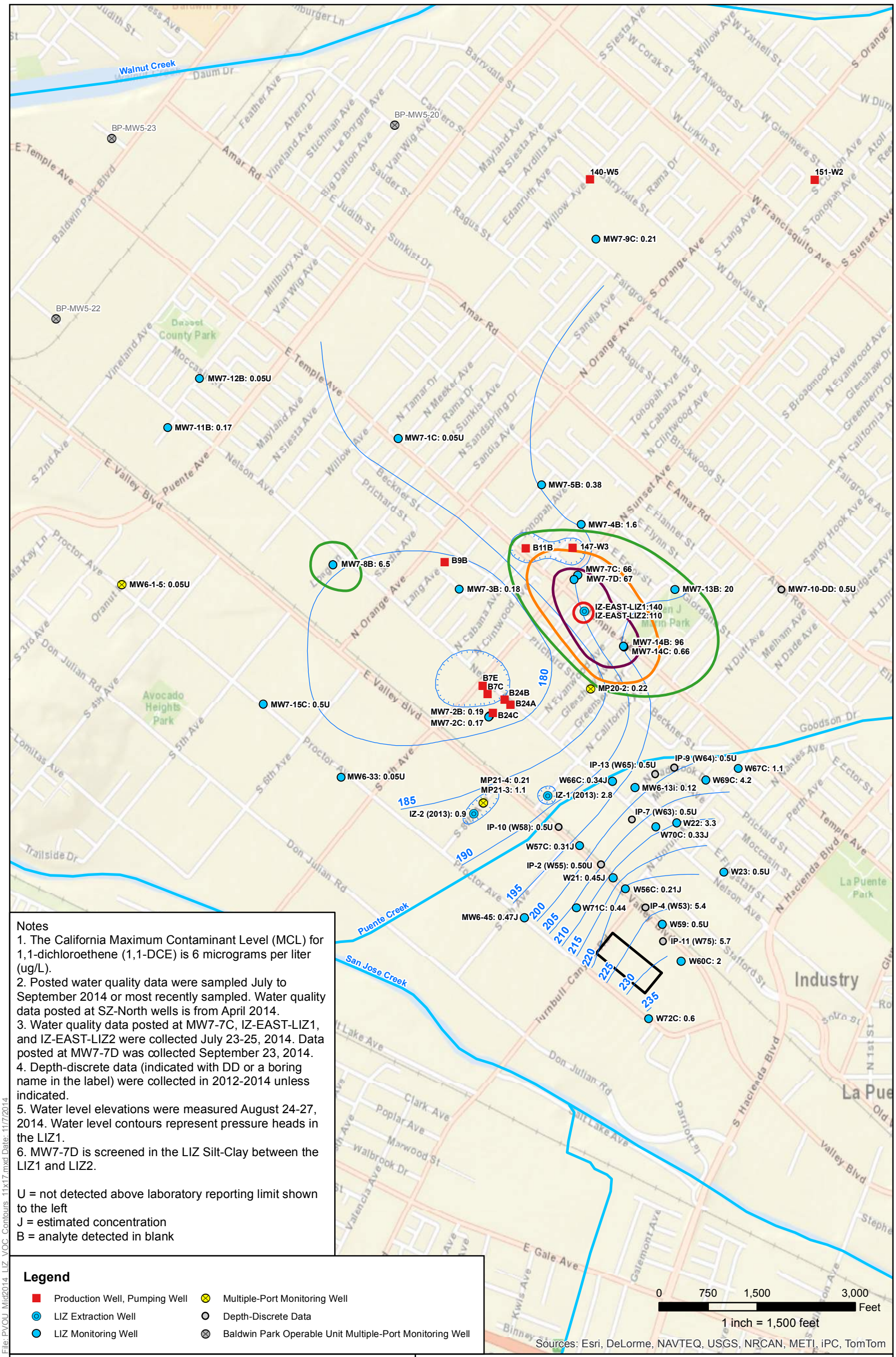
**Figure 4-18**
**TCE Isoconcentration Contours**
**Lower Intermediate Zone (LIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_LIZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The California Maximum Contaminant Level (MCL) for 1,1-dichloroethene (1,1-DCE) is 6 micrograms per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7C, IZ-EAST-LIZ1, and IZ-EAST-LIZ2 were collected July 23-25, 2014. Data posted at MW7-7D was collected September 23, 2014.
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated.
5. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the LIZ1.
6. MW7-7D is screened in the LIZ Silt-Clay between the LIZ1 and LIZ2.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**1,1-DCE Isoconcentration Contours**

- 1x MCL, 6 ug/L
- 5x MCL, 30 ug/L
- 10x MCL, 60 ug/L
- 20x MCL, 120 ug/L
- 100x MCL, 600 ug/L
- 200x MCL, 1,200 ug/L
- LIZ1 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

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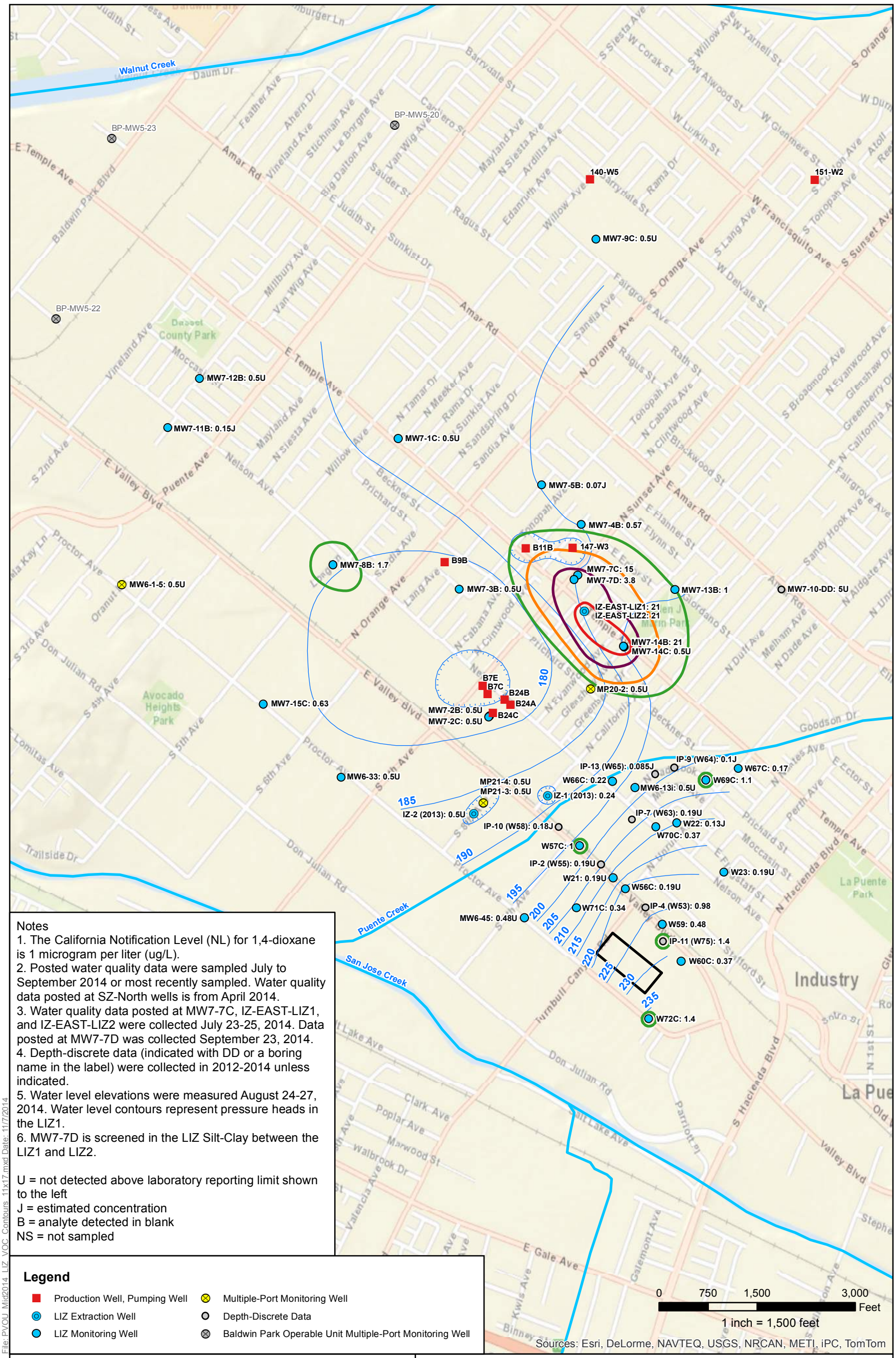
**Figure 4-19**
**1,1-DCE Isoconcentration Contours**
**Lower Intermediate Zone (LIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_LIZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The California Notification Level (NL) for 1,4-dioxane is 1 microgram per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7C, IZ-EAST-LIZ1, and IZ-EAST-LIZ2 were collected July 23-25, 2014. Data posted at MW7-7D was collected September 23, 2014.
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated.
5. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the LIZ1.
6. MW7-7D is screened in the LIZ Silt-Clay between the LIZ1 and LIZ2.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**1,4-Dioxane Isoconcentration Contours**

- 1x NL, 1 ug/L
- 5x NL, 5 ug/L
- 10x NL, 10 ug/L
- 20x NL, 20 ug/L
- 100x NL, 100 ug/L
- 200x NL, 200 ug/L
- LIZ1 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

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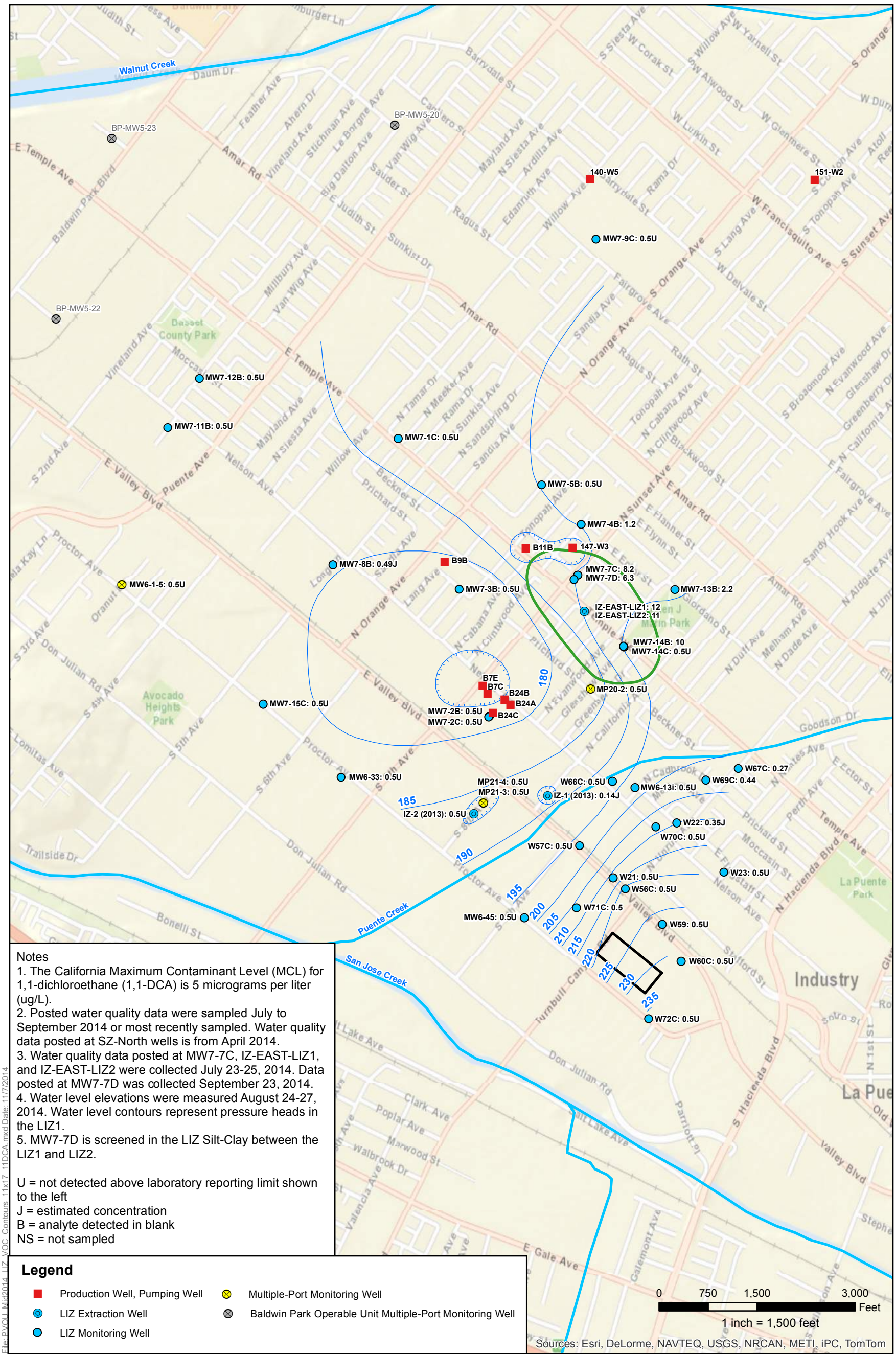
**Figure 4-20**
**1,4-Dioxane Isoconcentration Contours**
**Lower Intermediate Zone (LIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_LIZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The California Maximum Contaminant Level (MCL) for 1,1-dichloroethane (1,1-DCA) is 5 micrograms per liter (ug/L).
2. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
3. Water quality data posted at MW7-7C, IZ-EAST-LIZ1, and IZ-EAST-LIZ2 were collected July 23-25, 2014. Data posted at MW7-7D was collected September 23, 2014.
4. Water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the LIZ1.
5. MW7-7D is screened in the LIZ Silt-Clay between the LIZ1 and LIZ2.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration
B = analyte detected in blank
NS = not sampled

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**1,1-DCA Isoconcentration Contours**

- 1x MCL, 5 ug/L
- 5x MCL, 25 ug/L
- 10x MCL, 50 ug/L
- 20x MCL, 100 ug/L
- 100x MCL, 500 ug/L
- 200x MCL, 1,000 ug/L
- LIZ1 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

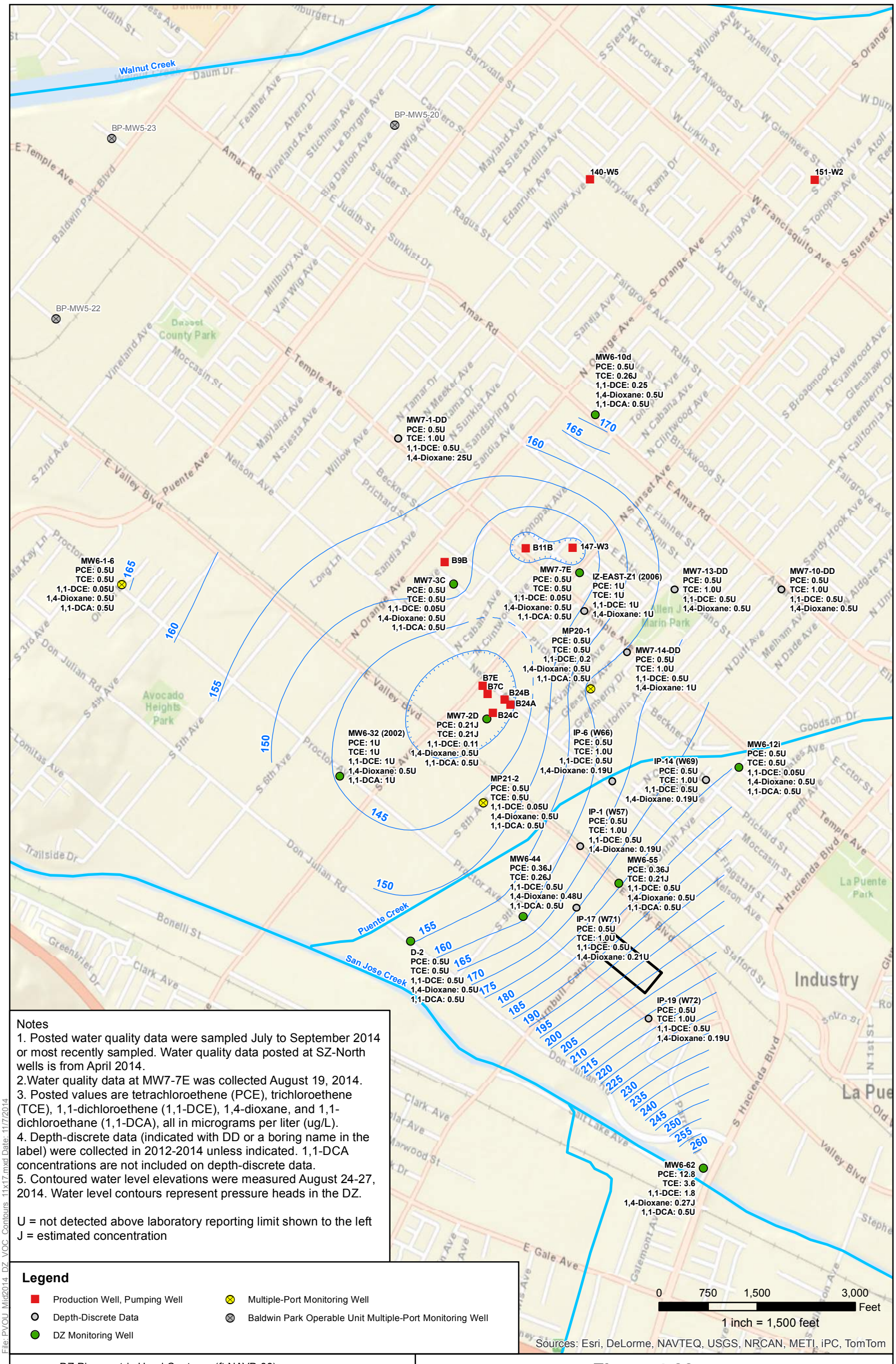
**Figure 4-21**
**1,1-DCA Isoconcentration Contours**
**Lower Intermediate Zone (LIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_LIZ_VOC_Contours_11x17_11DCA.mxd Date: 11/7/2014




Notes
1. Posted water quality data were sampled July to September 2014 or most recently sampled. Water quality data posted at SZ-North wells is from April 2014.
2.Water quality data at MW7-7E was collected August 19, 2014.
3. Posted values are tetrachloroethene (PCE), trichloroethene (TCE), 1,1-dichloroethene (1,1-DCE), 1,4-dioxane, and 1,1-dichloroethane (1,1-DCA), all in micrograms per liter (ug/L).
4. Depth-discrete data (indicated with DD or a boring name in the label) were collected in 2012-2014 unless indicated. 1,1-DCA concentrations are not included on depth-discrete data.
5. Contoured water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the DZ.

U = not detected above laboratory reporting limit shown to the left
J = estimated concentration

**Legend**

- Production Well, Pumping Well
- Depth-Discrete Data
- DZ Monitoring Well
- Multiple-Port Monitoring Well
- Baldwin Park Operable Unit Multiple-Port Monitoring Well
- DZ Piezometric Head Contours (ft NAVD 88) Dashed lines are approximate
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek, and Walnut Creek
- Former TRW Benchmark Technology Facility

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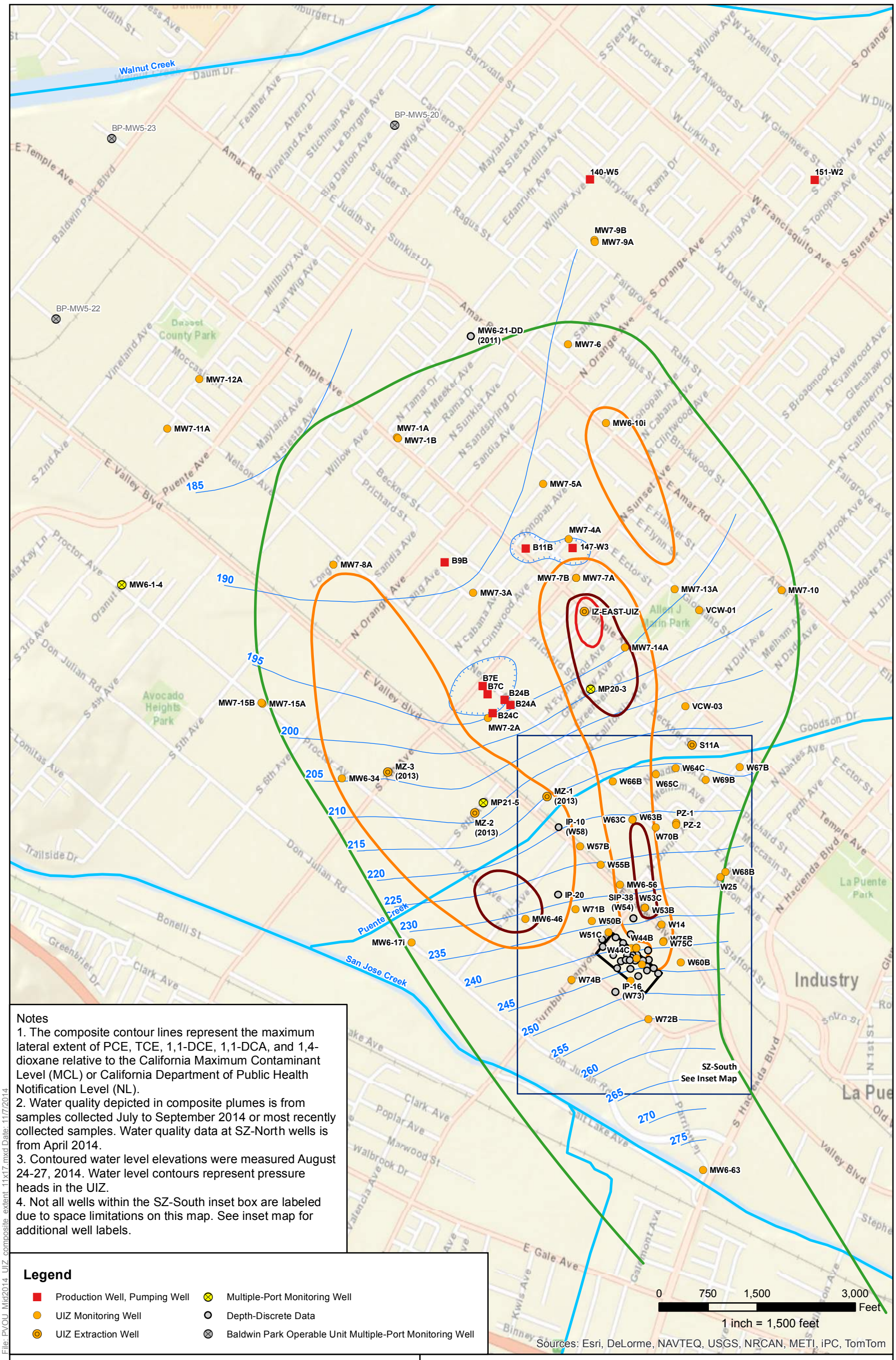
**Figure 4-22**
**Selected VOCs and 1,4-Dioxane Concentrations in Groundwater Deep Zone (DZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_DZ_VOC_Contours_11x17.mxd Date: 11/7/2014




Notes
1. The composite contour lines represent the maximum lateral extent of PCE, TCE, 1,1-DCE, 1,1-DCA, and 1,4-dioxane relative to the California Maximum Contaminant Level (MCL) or California Department of Public Health Notification Level (NL).
2. Water quality depicted in composite plumes is from samples collected July to September 2014 or most recently collected samples. Water quality data at SZ-North wells is from April 2014.
3. Contoured water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the UIZ.
4. Not all wells within the SZ-South inset box are labeled due to space limitations on this map. See inset map for additional well labels.

**Legend**

- Production Well, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**Composite Extent**

- 1x MCL or NL
- 5x MCL or NL
- 10x MCL or NL
- 20x MCL or NL
- 100x MCL or NL
- 200x MCL or NL
- UIZ Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

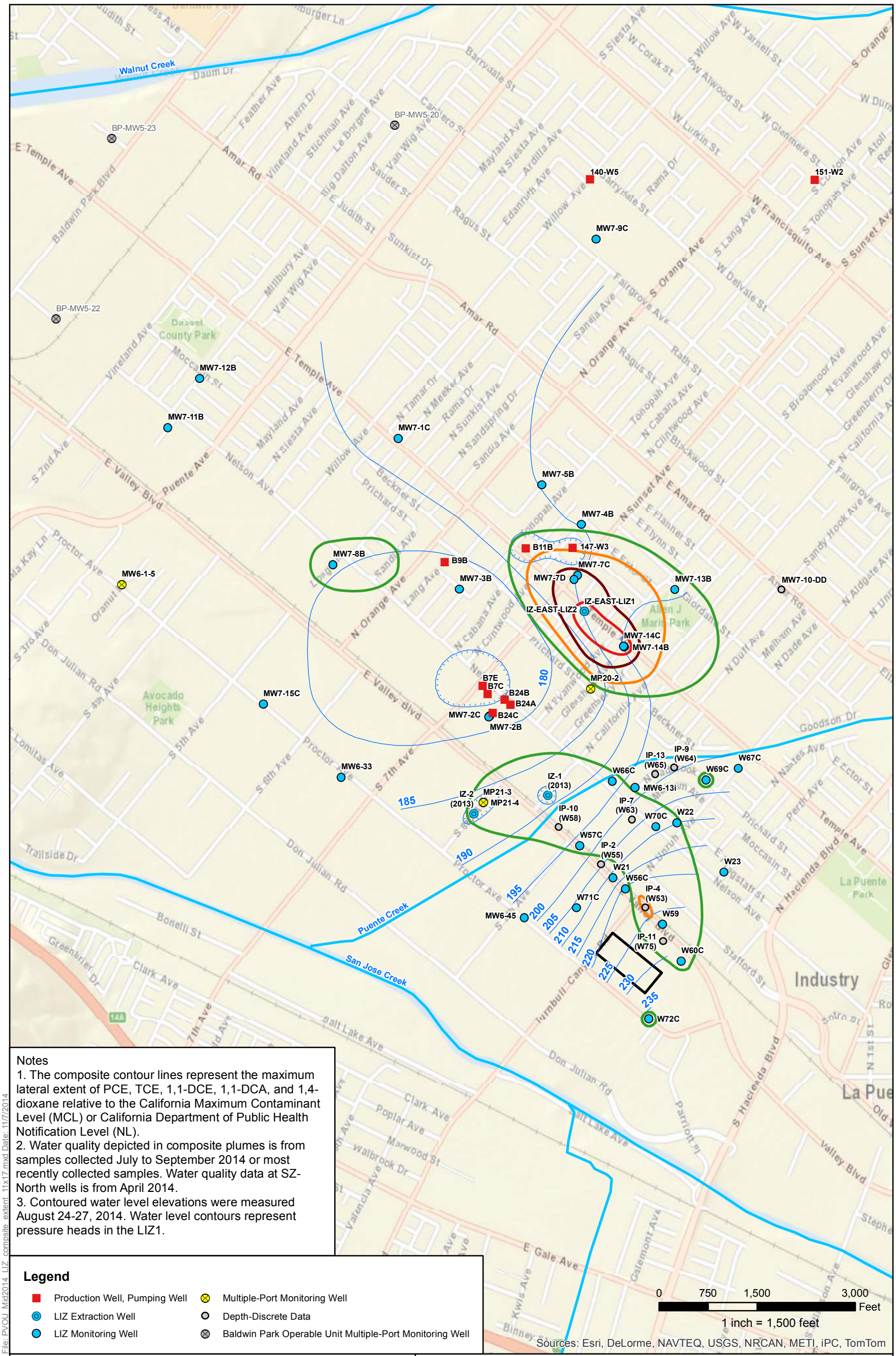
# Figure 4-23
# Composite Plume
# Upper Intermediate Zone (UIZ)
# 2014 Annual Comprehensive Event

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_UIZ_composite_extent_11x17.mxd Date: 11/7/2014




Notes
1. The composite contour lines represent the maximum lateral extent of PCE, TCE, 1,1-DCE, 1,1-DCA, and 1,4-dioxane relative to the California Maximum Contaminant Level (MCL) or California Department of Public Health Notification Level (NL).
2. Water quality depicted in composite plumes is from samples collected July to September 2014 or most recently collected samples. Water quality data at SZ-North wells is from April 2014.
3. Contoured water level elevations were measured August 24-27, 2014. Water level contours represent pressure heads in the LIZ1.

**Legend**

- Production Well, Pumping Well
- LIZ Extraction Well
- LIZ Monitoring Well
- Multiple-Port Monitoring Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

**Composite Extent**

- 1x MCL or NL
- 5x MCL or NL
- 10x MCL or NL
- 20x MCL or NL
- 100x MCL or NL
- 200x MCL or NL
- LIZ1 Piezometric Head Contours (ft NAVD 88)
- Closely spaced piezometric head contours
- Puente Creek, San Jose Creek and Walnut Creek
- Former TRW Benchmark Technology Facility

CDM Smith

**Figure 4-24**
**Composite Plume**
**Lower Intermediate Zone (LIZ)**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N

File: PVOU_Mid2014_LIZ_composite_extent_11x17.mxd Date: 11/7/2014

Notes
1. The plume depictions represent the maximum lateral extent of PCE, TCE, 1,1-DCE, 1,1-DCA, and 1,4-dioxane relative to the California Maximum Contaminant Level (MCL) or California Department of Public Health Notification Level (NL).
2. No groundwater quality samples collected in the Deep Zone (DZ) exceeded the MCL or NL for PCE, TCE, 1,1-DCE, 1,1-DCA, and 1,4-dioxane.
3. Water quality data used to develop the lateral extent contours is from samples collected July to September 2014 or most recently collected samples. Water quality data at SZ-North wells is from April 2014.

**Legend**

- Production Well, Pumping Well
- Inactive Production Well
- SZ-North Extraction Well
- SZ-North Monitoring Well
- SZ-South Extraction Well
- SZ-South Monitoring Well
- SZ-South Soil Boring
- SZ-South Piezometer
- UIZ Monitoring Well
- UIZ Extraction Well
- LIZ Extraction Well
- LIZ Monitoring Well
- DZ Monitoring Well
- Multiple-Port Monitoring Well
- Other Facility Well
- Depth-Discrete Data
- Baldwin Park Operable Unit Multiple-Port Monitoring Well

- UIZ Lateral Extent of Composite Plume
- LIZ Lateral Extent of Composite Plume
- SZ Lateral Extent of Composite Plume
- Puente Creek, San Jose Creek and Walnut Creek
- Former TRW Benchmark Technology Facility

0 750 1,500 3,000 Feet
1 inch = 1,500 feet

Sources: Esri, DeLorme, NAVTEQ, USGS, NRCAN, METI, iPC, TomTom

File: PVOU_Mid2014_lateral_extent_allZones.mxd Date: 11/7/2014

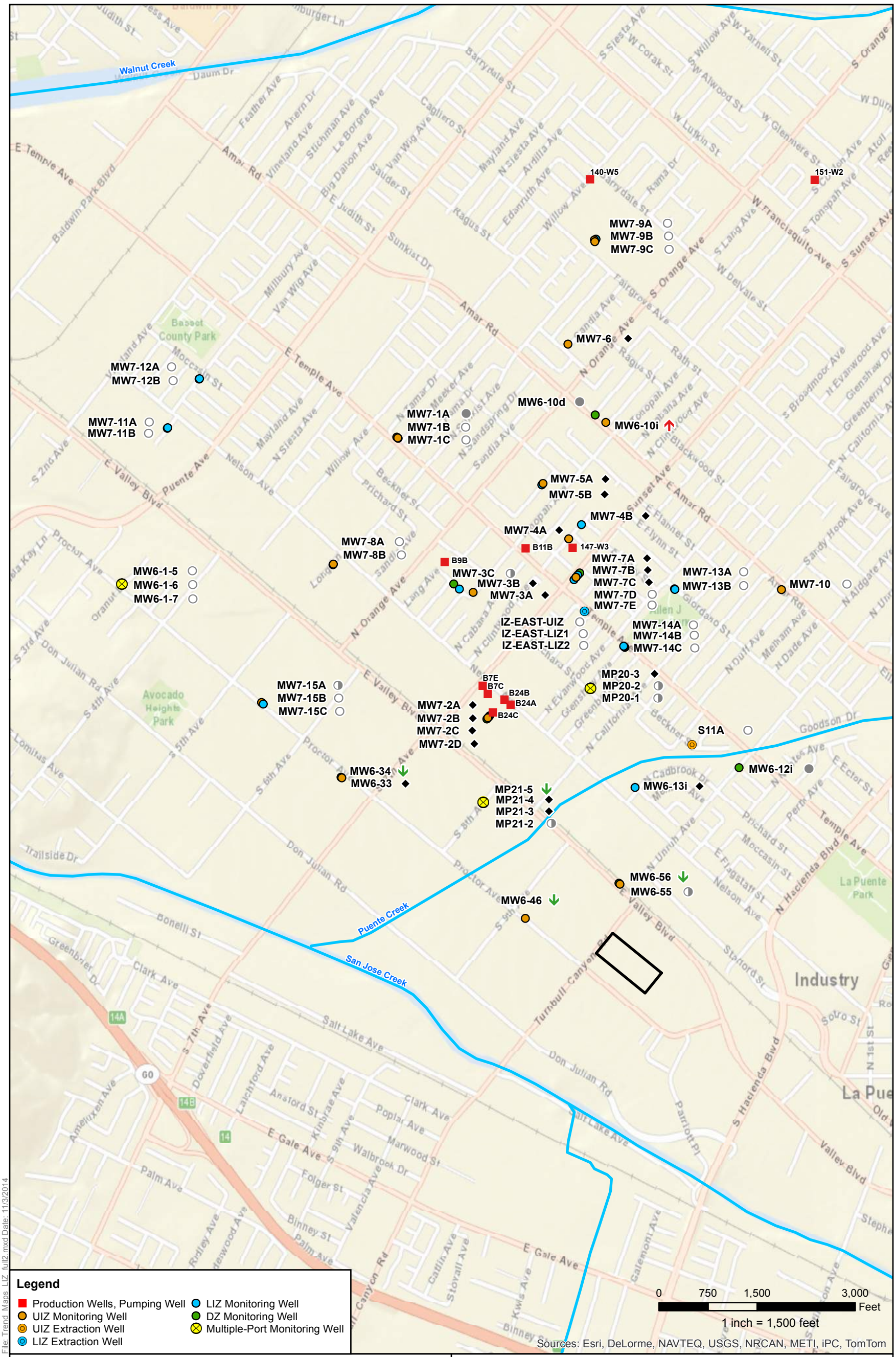
CDM Smith

**Figure 4-25**
**Lateral Extent of Composite Plume**
**2014 Annual Comprehensive Event**

Puente Valley Operable Unit

11/7/2014

N




**Legend**

- Production Wells, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- LIZ Extraction Well
- LIZ Monitoring Well
- DZ Monitoring Well
- Multiple-Port Monitoring Well

Puente Creek, San Jose Creek, and Walnut Creek

Former TRW Benchmark Technology Facility

**Mann-Kendall Trend Analysis**

- Increasing Trend
- Decreasing Trend
- No Significant Trend
- Data Insufficient to Test for Trend
- 100% ND (No Detections Available)
- >50% ND (Less than half of the data are detections)

CDM Smith

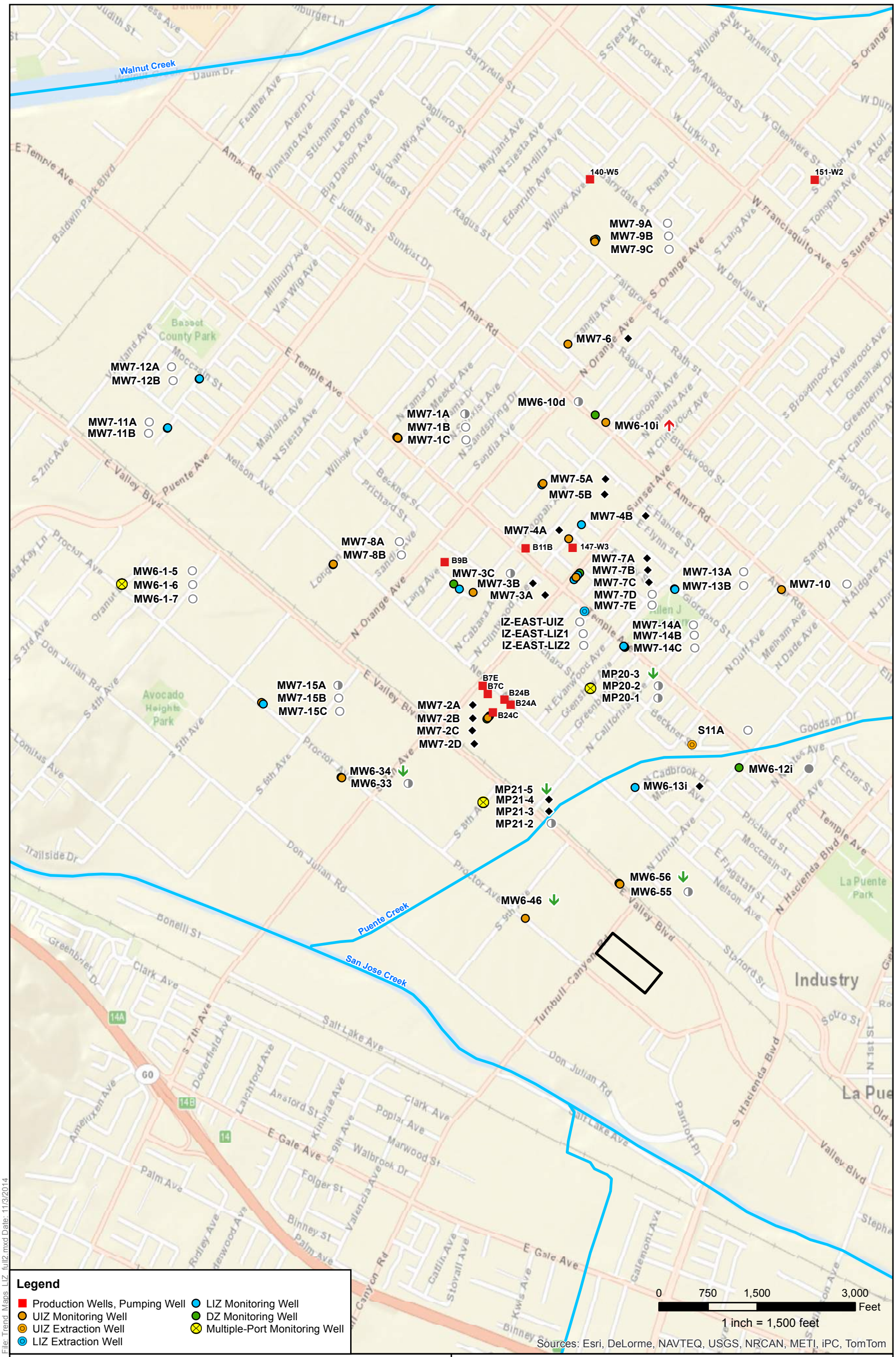
# Figure 4-26
# PCE Temporal Trend Distribution
# Intermediate Zone
# 2014 Annual Comprehensive Event

Puente Valley Operable Unit

11/3/2014

N

File: Trend_Maps_LIZ_full2.mxd Date: 11/3/2014




**Legend**

- Production Wells, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- LIZ Extraction Well
- LIZ Monitoring Well
- DZ Monitoring Well
- Multiple-Port Monitoring Well

Puente Creek, San Jose Creek, and Walnut Creek

Former TRW Benchmark Technology Facility

**Mann-Kendall Trend Analysis**

- Increasing Trend
- Decreasing Trend
- No Significant Trend
- Data Insufficient to Test for Trend
- 100% ND (No Detections Available)
- >50% ND (Less than half of the data are detections)

CDM Smith

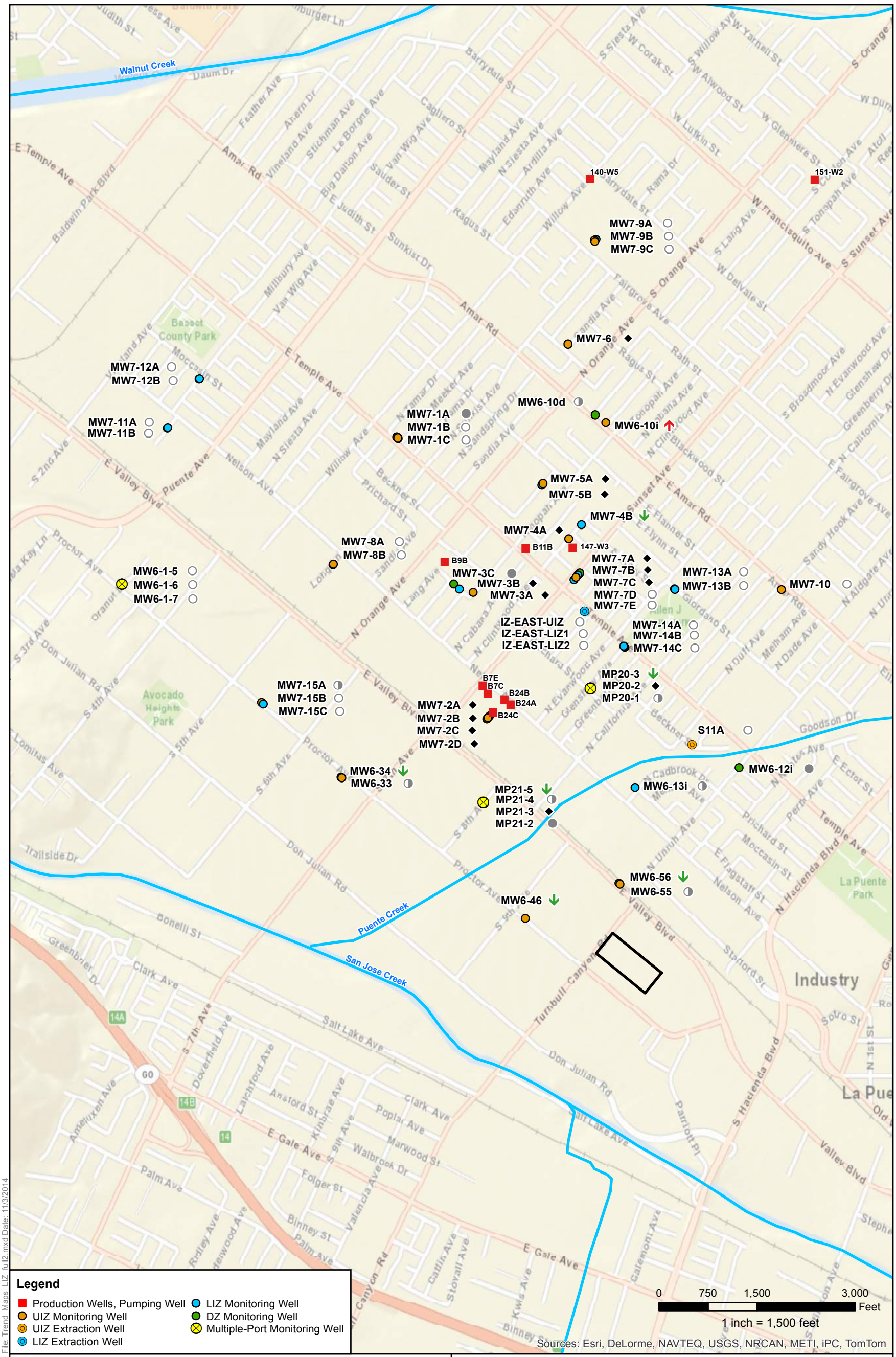
# Figure 4-27
# TCE Temporal Trend Distribution
# Intermediate Zone
# 2014 Annual Comprehensive Event

Puente Valley Operable Unit

11/3/2014

N

File: Trend_Maps_LIZ_full2.mxd Date: 11/3/2014




**Legend**

- Production Wells, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- LIZ Extraction Well
- LIZ Monitoring Well
- DZ Monitoring Well
- Multiple-Port Monitoring Well

Puente Creek, San Jose Creek, and Walnut Creek

Former TRW Benchmark Technology Facility

**Mann-Kendall Trend Analysis**

- Increasing Trend
- Decreasing Trend
- No Significant Trend
- Data Insufficient to Test for Trend
- 100% ND (No Detections Available)
- >50% ND (Less than half of the data are detections)

CDM Smith

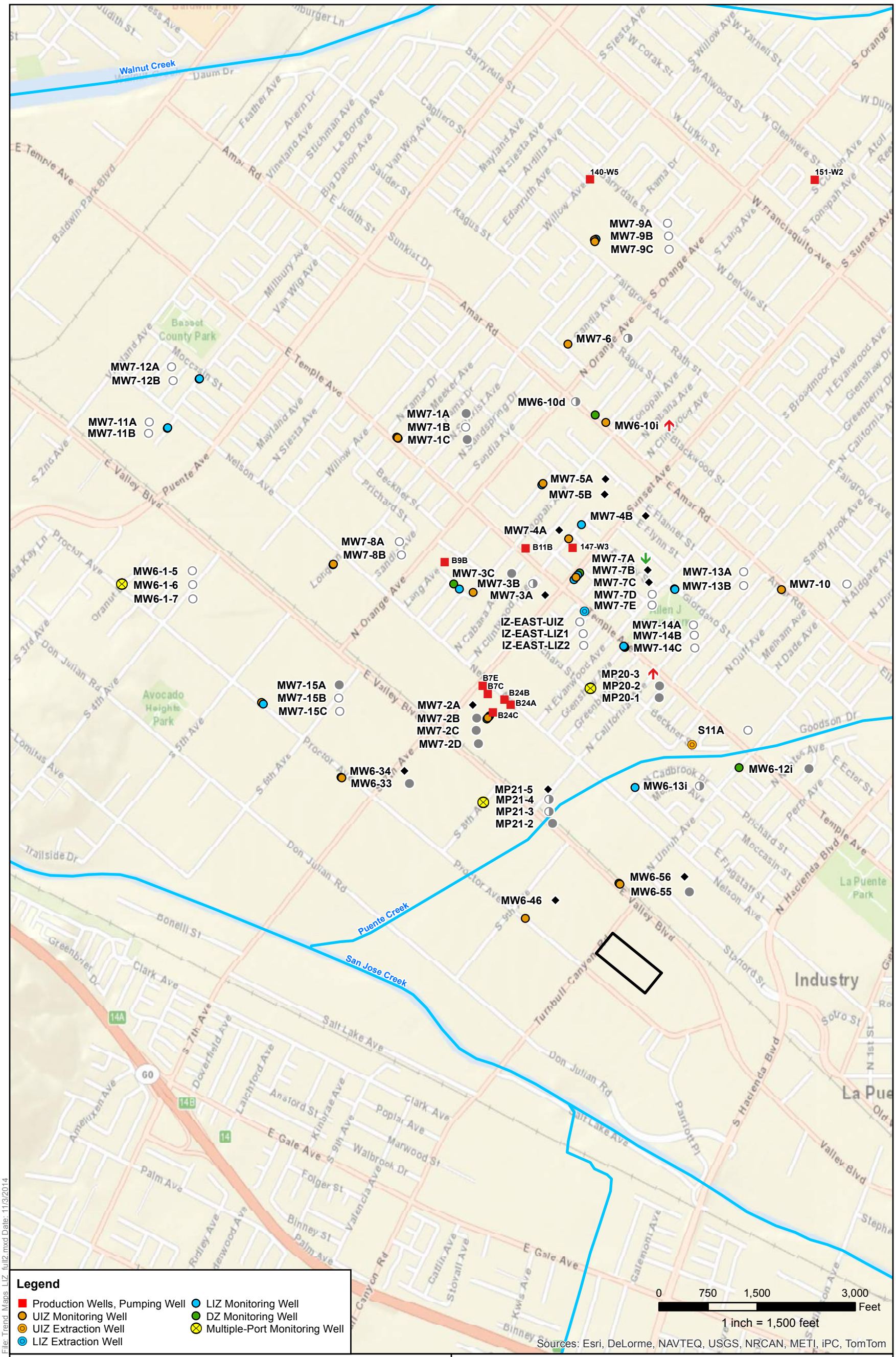
# Figure 4-28
# 1,1-DCE Temporal Trend Distribution
# Intermediate Zone
# 2014 Annual Comprehensive Event

Puente Valley Operable Unit

11/3/2014

N

File: Trend_Maps_LIZ_full2.mxd Date: 11/3/2014




**Legend**

- Production Wells, Pumping Well
- UIZ Monitoring Well
- UIZ Extraction Well
- LIZ Extraction Well
- LIZ Monitoring Well
- DZ Monitoring Well
- Multiple-Port Monitoring Well

Puente Creek, San Jose Creek, and Walnut Creek

Former TRW Benchmark Technology Facility

**Mann-Kendall Trend Analysis**

- Increasing Trend
- Decreasing Trend
- No Significant Trend
- Data Insufficient to Test for Trend
- 100% ND (No Detections Available)
- >50% ND (Less than half of the data are detections)

CDM Smith

# Figure 4-29
# 1,4-Dioxane Temporal Trend Distribution
# Intermediate Zone
# 2014 Annual Comprehensive Event

Puente Valley Operable Unit

11/3/2014

N

File: Trend_Maps_LIZ_full2.mxd Date: 11/3/2014

# Table 4-1
## Summary of Vertical Gradients
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| | | | Screen Location | | | Water Level Elevation | | | | Vertical Gradient[1] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Well Name | Other Well Names Previously Used | Hydro-stratigraphic Unit | Top Screen (ft bgs) | Bottom Screen (ft bgs) | Mid-Point of Well Screen | August 2013 (ft msl) | March 2014 (ft msl) | August 2014 (ft msl) | Well Pair | August 2013 | March 2014 | August 2014 |
| MW6-31 | EPAMW6-31 | DZ | 1068 | 1083 | 1075.5 | 167.58 | 181.33 | 164.06 | MW6-31-MW6-32 | 0.041 | 0.014 | 0.055 |
| MW6-32 | EPAW6-32 | DZ | 717 | 727 | 722 | 153.16 | 176.53 | 144.50 | MW6-32-MW6-33 | -0.098 | -0.017 | -0.179 |
| MW6-33 | EPAMW6-33 | LIZ2 | 475 | 485 | 480 | 176.83 | 180.70 | 187.81 | MW6-33-MW6-34 | -0.220 | -0.183 | -0.096 |
| MW6-34 | EPAMW6-34 | UIZ | 300 | 310 | 305 | 215.26 | 212.77 | 204.57 | | | | |
| MW6-41 | MW6-41 | DZ | 1107 | 1122 | 1114.5 | 214.91 | 208.65 | 201.67 | MW6-41-MW6-42 | 0.105 | 0.055 | 0.088 |
| MW6-42 | MW6-42 | DZ | 660 | 680 | 670 | 168.06 | 184.42 | 162.76 | MW6-42-MW6-43 | 0.062 | 0.024 | 0.055 |
| MW6-43 | MW6-43 | DZ | 424 | 434 | 429 | 153.06 | 178.52 | 149.62 | MW6-43-MW6-46 | -0.322 | -0.218 | -0.393 |
| MW6-46 | MW6-46 | UIZ | 147 | 162 | 154.5 | 241.33 | 238.26 | 257.53 | | | | |
| MW6-51 | MW6-51 | DZ | 1063 | 1078 | 1070.5 | 222.40 | 215.21 | 210.04 | MW6-51-MW6-52 | -0.092 | -0.097 | -0.100 |
| MW6-52 | MW6-52 | DZ | 876 | 896 | 886 | 239.33 | 233.05 | 228.41 | MW6-52-MW6-53 | 0.046 | 0.043 | 0.046 |
| MW6-53 | MW6-53 | DZ | 578 | 598 | 588 | 225.74 | 220.09 | 214.63 | MW6-53-MW6-54 | 0.282 | 0.166 | 0.259 |
| MW6-54 | MW6-54 | DZ | 324 | 344 | 334 | 154.13 | 177.91 | 148.80 | MW6-54-MW6-55 | -0.253 | -0.103 | N/A |
| MW6-55 | MW6-55 | DZ | 250 | 265 | 257.5 | 173.51 | 185.76 | NR | MW6-55-MW6-56 | -0.486 | -0.366 | N/A |
| MW6-56 | MW6-56 | UIZ | 120 | 130 | 125 | 237.88 | 234.21 | 228.41 | | | | |
| MP20-1 | MP20-01 | DZ | 434 | 444 | 439 | 173.44 | 176.05 | 161.70 | MP20-1-MP20-2 | -0.211 | -0.174 | -0.204 |
| MP20-2 | MP20-02 | LIZ1 | 336 | 346 | 341 | 194.11 | 193.09 | 181.74 | MP20-2-MP20-3 | -0.339 | -0.289 | -0.366 |
| MP20-3 | MP20-03 | UIZ | 288 | 298 | 293 | 210.40 | 206.94 | 199.33 | MP20-3-MP20-4 | -0.103 | -0.088 | -0.103 |
| MP20-4 | MP20-04 | SZ2 | 194 | 204 | 199 | 220.06 | 215.24 | 209.01 | MP20-4-MP20-5 | -0.049 | -0.088 | -0.142 |
| MP20-5 | MP20-05 | SZ1 | 75.5 | 85.5 | 84.76 | 225.67 | 225.30 | 225.23 | | | | |
| MP21-1 | MP21-01 | DZ | 530 | 540 | 535 | 136.40 | 168.95 | 136.66 | MP21-1-MP21-2 | -0.243 | -0.442 | -0.100 |
| MP21-2 | MP21-02 | DZ | 435 | 445 | 440 | 159.49 | 210.92 | 146.16 | MP21-2-MP21-3 | -0.231 | 0.492 | -0.224 |
| MP21-3 | MP21-03 | LIZ2 | 365 | 375 | 370 | 175.65 | 176.50 | 161.85 | MP21-3-MP21-4 | -0.070 | -0.140 | -0.104 |
| MP21-4 | MP21-04 | LIZ1 | 320 | 330 | 325 | 178.80 | 182.81 | 166.53 | MP21-4-MP21-5 | -0.533 | -0.434 | -0.552 |
| MP21-5 | MP21-05 | UIZ | 245 | 255 | 250 | 218.80 | 215.36 | 207.94 | MP21-5-MP21-6 | -0.092 | -0.075 | -0.093 |
| MP21-6 | MP21-06 | SZ1 | 150 | 160 | 155 | 227.54 | 222.47 | 216.75 | | | | |
| MW6-1-9 | EPAMW61-9 | DZ | 790 | 800 | 795 | 181.78 | 186.23 | 170.20 | MW6-1-9-MW6-1-8 | 0.073 | 0.028 | 0.064 |
| MW6-1-8 | EPAMW61-8 | DZ | 679 | 689 | 684 | 173.70 | 183.16 | 163.11 | MW6-1-8-MW6-1-7 | -0.011 | -0.005 | -0.010 |
| MW6-1-7 | EPAMW61-7 | DZ | 594 | 604 | 599 | 174.61 | 183.56 | 163.95 | MW6-1-7-MW6-1-6 | -0.024 | 0.015 | -0.014 |
| MW6-1-6 | EPAMW61-6 | LIZ2 | 470 | 480 | 475 | 177.55 | 181.70 | 165.74 | MW6-1-6-MW6-1-5 | -0.021 | -0.023 | -0.013 |
| MW6-1-5 | EPAMW61-5 | UIZ | 354 | 364 | 359 | 180.01 | 184.37 | 167.30 | MW6-1-5-MW6-1-4 | -0.004 | -0.002 | 0.001 |
| MW6-1-4 | EPAMW61-4 | SZ2 | 278 | 288 | 283 | 180.31 | 184.53 | 167.19 | MW6-1-4-MW6-1-3 | -0.098 | -0.057 | -0.034 |
| MW6-1-3 | EPAMW61-3 | SZ1 | 208 | 212 | 210 | 187.49 | 188.72 | 169.64 | MW6-1-3-MW6-1-2 | -0.081 | -0.056 | -0.208 |
| MW6-1-2 | EPAMW61-2 | SZ1 | 148 | 158 | 153 | 192.08 | 191.94 | 181.47 | MW6-1-2-MW6-1-1 | -0.009 | -0.007 | -0.168 |
| MW6-1-1 | EPAMW61-1 | SZ1 | 110 | 120 | 117.95 | 192.38 | 192.17 | 187.35 | | | | |
| MW7-1C | MW6-9Li | LIZ1 | 435 | 450 | 442.5 | 198.72 | 196.82 | 186.87 | MW7-1C-MW7-1B | -0.015 | -0.008 | -0.013 |
| MW7-1B | MW6-9Ui2 | UIZ | 380 | 420 | 400 | 199.34 | 197.17 | 187.44 | MW7-1B-MW7-1A | 0.002 | -0.004 | -0.001 |
| MW7-1A | MW6-09i | UIZ | 350 | 370 | 360 | 199.26 | 197.31 | 187.48 | | | | |
| MW6-10d | MW6-10d | DZ | 539 | 554 | 546.5 | 181.83 | 184.66 | 171.15 | MW6-10d-MW6-10i | -0.110 | -0.078 | -0.101 |
| MW6-10i | MW6-10i | UIZ | 336 | 356 | 346 | 203.80 | 200.39 | 191.38 | | | | |
| MW7-2D | MW6-22D | DZ | 452 | 462 | 457 | 170.28 | 169.50 | 157.39 | MW7-2D-MW7-2C | 0.214 | 0.181 | 0.158 |
| MW7-2C | MW6-22Li2 | LIZ2 | 380 | 390 | 385 | 154.85 | 156.45 | 146.01 | MW7-2C-MW7-2B | -1.127 | -0.979 | -1.008 |
| MW7-2B | MW6-22Li1 | LIZ1 | 348 | 358 | 353 | 190.92 | 187.78 | 178.27 | MW7-2B-MW7-2A | -0.368 | -0.353 | -0.397 |
| MW7-2A | MW6-22Ui | UIZ | 302 | 317 | 309.5 | 206.91 | 203.14 | 195.52 | | | | |
| MW7-3C | MW6-23D | DZ | 490 | 500 | 495 | 162.36 | 168.27 | 152.65 | MW7-3C-MW7-3B | -0.147 | -0.270 | -0.356 |
| MW7-3B | MW6-23Li | LIZ2 | 434 | 444 | 439 | 170.58 | 183.37 | 172.61 | MW7-3B-MW7-3A | -0.325 | -0.165 | -0.185 |
| MW7-3A | MW6-23Ui | UIZ | 338 | 348 | 343 | 201.82 | 199.20 | 190.41 | | | | |
| MW7-4B | MW6-24Li | LIZ1 | 365 | 375 | 370 | 202.63 | 199.71 | 190.77 | MW7-4B-MW7-4A | 0.003 | 0.005 | 0.002 |
| MW7-4A | MW6-24Ui | UIZ | 320 | 335 | 327.5 | 202.50 | 199.50 | 190.67 | | | | |

# Table 4-1
## Summary of Vertical Gradients
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| | | | Screen Location | | | Water Level Elevation | | | | Vertical Gradient[1] | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Well Name | Other Well Names Previously Used | Hydro-stratigraphic Unit | Top Screen (ft bgs) | Bottom Screen (ft bgs) | Mid-Point of Well Screen | August 2013 (ft msl) | March 2014 (ft msl) | August 2014 (ft msl) | Well Pair | August 2013 | March 2014 | August 2014 |
| MW7-5B | MW6-25Li | LIZ1 | 388 | 398 | 393 | NI | 199.45 | 190.16 | MW7-5B-MW7-5A | N/A | -0.001 | -0.005 |
| MW7-5A | MW6-25Ui | UIZ | 338 | 348 | 343 | NI | 199.51 | 190.40 | | | | |
| MW7-7E | MW6-27D | DZ | 434 | 444 | 439 | 156.04 | 162.92 | 146.95 | MW7-7E-MW7-7D | -0.752 | -0.606 | -0.704 |
| MW7-7D | MW6-27Li2 | Aquitard between LIZ1 and LIZ2 | 377 | 387 | 382 | 198.92 | 197.44 | 187.07 | MW7-7D-MW7-7C | -0.156 | -0.100 | -0.167 |
| MW7-7C | MW6-27Li1 | LIZ1 | 347 | 362 | 354.5 | 203.21 | 200.18 | 191.65 | MW7-7C-MW7-7B | 0.010 | 0.005 | 0.018 |
| MW7-7B | MW6-27Ui2 | UIZ | 320 | 330 | 325 | 202.91 | 200.04 | 191.13 | MW7-7B-MW7-7A | n/a | -0.003 | -0.004 |
| MW7-7A | MW6-27Ui1 | UIZ | 288 | 308 | 298 | NI | 200.13 | 191.24 | | | | |
| MW7-8B | MW6-28Li | LIZ2 | 454 | 464 | 459 | 197.25 | 196.58 | 186.44 | MW7-8B-MW7-8A | -0.016 | -0.012 | -0.017 |
| MW7-8A | MW6-28Ui | UIZ | 340 | 360 | 350 | 199.01 | 197.90 | 188.33 | | | | |
| MW7-9C | MW6-29D | LIZ1 | 475 | 490 | 482.5 | 201.33 | 199.08 | 188.96 | MW7-9C-MW7-9B | -0.026 | -0.010 | -0.021 |
| MW7-9B | MW6-29Li | UIZ | 412 | 432 | 422 | 202.90 | 199.69 | 190.24 | MW7-9B-MW7-9A | -0.002 | 0.000 | -0.006 |
| MW7-9A | MW6-29UI | UIZ | 365 | 385 | 375 | 203.00 | 199.70 | 190.51 | | | | |
| MW7-11B | PMW-7B | LIZ1 | 460 | 470 | 465 | NI | 192.42 | 181.83 | MW7-11B-MW7-11A | N/A | -0.008 | 0.004 |
| MW7-11A | PMW-7A | UIZ | 390 | 410 | 400 | NI | 192.93 | 181.57 | | | | |
| MW7-12B | PMW-8B | LIZ1 | 460 | 470 | 465 | NI | 192.92 | 182.37 | MW7-12B-MW7-12A | N/A | -0.002 | 0.000 |
| MW7-12A | PMW-8A | UIZ | 390 | 410 | 400 | NI | 193.02 | 182.39 | | | | |
| MW7-12P2 | PMW-8A Piezo 2 | Aquitard between SZ and UIZ | 332 | 337 | 334.5 | NI | 194.48 | 184.08 | MW7-12P2-MW7-12P1 | N/A | N/A | N/A |
| MW7-12P1 | PMW-8A Piezo 1 | SZ2 | 295 | 305 | 300 | NI | NR | NR | | | | |
| MW7-13B | PMW-5B | LIZ1 | 323 | 333 | 328 | NI | NI | 194.52 | MW7-13B-MW7-13A | N/A | N/A | 0.006 |
| MW7-13A | PMW-5A | UIZ | 303 | 313 | 308 | NI | NI | 194.41 | | | | |
| MW7-14C | PMW-2C | LIZ2 | 354 | 364 | 359 | NI | NI | 183.40 | MW7-14C-MW7-14B | N/A | N/A | -0.257 |
| MW7-14B | PMW-2B | LIZ1 | 306 | 316 | 311 | NI | NI | 195.75 | MW7-14B-MW7-14A | N/A | N/A | 0.039 |
| MW7-14A | PMW-2A | UIZ | 270 | 285 | 277.5 | NI | NI | 194.43 | | | | |
| MW7-14P2 | PMW-2B Piezo 1 | Aquitard between the UIZ and LIZ1 | 295 | 296 | 295.5 | NI | NI | 206.67 | MW7-14P2-MW7-14P1 | N/A | N/A | 0.121 |
| MW7-14P1 | PMW-2A Piezo 1 | SZ2 | 210 | 215 | 212.5 | NI | NI | 196.65 | | | | |
| MW7-15C | "LIZ1 proposed well adjacent to MW6-16i" | LIZ1 | 402 | 412 | 407 | NI | NI | 184.52 | MW7-15C-MW7-15B | N/A | N/A | -0.195 |
| MW7-15B | "UZ well adjacent to MW6-16i" | UIZ | 332 | 342 | 337 | NI | NI | 198.14 | MW7-15B-MW7-15A | N/A | N/A | 0.050 |
| MW7-15A | MW6-16i | UIZ | 304 | 314 | 309 | 207.68 | 205.57 | 196.73 | | | | |
| IZ-1 | IZ-1 | LIZ1 and LIZ2 | 278 | 368 | 323 | 177.63 | 191.23 | 166.61 | IZ-1-MZ-1 | -0.378 | -0.238 | -0.396 |
| MZ-1 | MZ-1 | UIZ | 180 | 220 | 200 | 224.10 | 220.47 | 215.37 | | | | |
| IZ-2 | IZ-2 | LIZ1 and LIZ2 | 305 | 385 | 345 | 181.06 | 179.60 | 165.88 | IZ-2-MZ-2 | -0.397 | -0.300 | -0.410 |
| MZ-2 | MZ-2 | UIZ | 230 | 255 | 242.5 | 221.74 | 210.31 | 207.86 | | | | |

Notes:

NI = Not installed at the time of measurement.

NR = Not recorded. Well was either not measured or the water level measurement was determined to be incorrect. Vertical gradient could not be calculated.

N/A = Not applicable as either one of the well pairs was not yet installed or the water level not recorded.

[1] The vertical gradients were calculated by dividing the difference in piezometric head at two monitoring points by the distance between the piezometric head monitoring point. The monitoring point was to be the midpoint of the well screen for this calculation, if the screened interval for the well was below the water level. If the water level was across the screened interval, the midpoint between the bottom of the screen and the water level was used.

Water levels for wells MW6-44, MW6-45, MW6-61, MW6-62, MW6-65, MW6-17i are measured by United Technologies Corporation as part of the Shallow Zone-North remedy. These wells are no longer monitored as part of the Intermediate Zone remedy and are not included in the table.

Westbay wells were also measured in Early August 2014, as part of groundwater sampling. These water levels are not included in this table.

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA-MW6-13 | EPA-MW6-13 | 173 - 183 | 8/3/2011 | 524 | L | | **37** | **360** | 5.0 U | **750** | **9.8** | 5.0 U | **52** | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 2.2 J | 50 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 5.0 U | 10 U | 5.0 U | 5.0 U | 5.0 U |
| | | | 8/3/2011 | 8260 | L | | **43** | **370** | 1.0 U | **760** | **9.3** | 0.49 J | **45** | **1.7** | 0.50 U | 0.50 U | 1.0 U | 1.9 | 1.1 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| MW6-31 | EPAMW6-31 | 1068 - 1083 | 4/5/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-32 | EPAMW6-32 | 717 - 727 | 4/5/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-33 | EPAMW6-33 | 475 - 485 | 4/5/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 0.66 J | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/23/2003 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.56 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/23/2003 | 8260 | K | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/22/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/4/2006 | 8260 | | | 1.4 | 0.6 J | 1 U | 2 | 1 U | 1 U | 0.24 J | 1 U | 1 U | 1 U | 2 U | 1.1 | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/4/2006 | 8260 | K | | 1.5 | 0.59 J | 1 U | 2 | 1 U | 1 U | 0.23 J | 1 U | 1 U | 1 U | 2 U | 1.1 | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/26/2006 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/20/2006 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/28/2007 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/4/2011 | 8260 | | | 0.61 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/20/2011 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/20/2011 | 8260 | | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 10/8/2012 | 524 | | | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/1/2013 | 524 | | | 0.31 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/1/2013 | 524 | K | | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/29/2013 | 524 | | | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/14/2014 | 524 | | | 0.23 J | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/14/2014 | 524 | | | 0.28 J | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-34 | EPAMW6-34 | 300 - 310 | 4/4/2002 | 8260 | | | **40** | **11** | 1 U | **9.3** | 1.1 | 1 U | 0.6 J | 0.5 U | **0.76** | 0.5 U | 1 U | 0.46 J | 1.9 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 4/4/2002 | 8260 | L | | **43** | **11** | 1 U | 2.5 | 0.91 J | 1 U | 0.51 J | 0.5 U | **0.74** | 0.5 U | 1 U | 0.42 J | 2.2 | 1 U | 1 U | 0.61 | 1.9 | 0.37 J | 1.4 | 1 U | 0.2 J | 0.42 J |
| | | | 4/4/2002 | 8260 | K | | **42** | **11** | 1 U | 5.8 | 0.87 J | 1 U | 0.53 J | 0.5 U | **0.74** | 0.5 U | 1 U | 0.41 J | 2.2 | 1 U | 1 U | 0.78 | 3.5 | 0.48 J | 1.97 | 1 U | 1 U | 1 U |
| | | | 10/23/2003 | 8260 | | | **37** | **9.5** | 1 U | **8.2** | 0.98 J | 1 U | 0.65 J | 0.5 U | **0.7** | 0.5 U | 1 U | 0.45 J | 1.4 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/22/2005 | 8260 | | | **40** | **9.3** | 1 U | **11** | 0.84 J | 1 U | 0.8 J | 1 U | **0.64 J** | 1 U | 2 U | 0.36 J | 1.8 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/27/2005 | 8260 | | | **39** | **9.4** | 1 U | **11** | 0.82 J | 1 U | 0.9 J | 1 U | **0.74 J** | 1 U | 2 U | 0.4 J | 2.2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/27/2006 | 8260 | | | **38** | **7.8** | 1 U | **8.9** | 0.62 J | 1 U | 0.82 J | 1 U | **0.61 J** | 1 U | 2 U | 0.35 J | 1.7 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/21/2006 | 8260 | | | **37** | **8.2** | 1 U | **10** | 0.78 J | 1 U | 0.78 J | 1 U | **0.56 J** | 1 U | 2 U | 0.4 J | 1.8 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/27/2007 | 8260 | | | **36** | **7.8** | 1 U | **7** | 1 U | 1 U | 1 U | 0.5 U | **0.58** | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/5/2011 | 8260 | | | **29** | **5.6** | 1.0 U | 3.1 | 0.49 J | 1.0 U | 0.55 J | 0.50 U | **0.98** | 0.50 U | 1.0 U | 1.0 U | 1.3 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/21/2011 | 524 | | | **29** | **6.1** | 0.50 U | 5.7 | 0.64 | 0.50 U | 0.55 | 0.50 U | 0.47 J | 0.50 U | 0.50 U | 0.35 J | 1.3 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/21/2011 | 8260 | | | **28** | **5.6** | 1.0 U | 4.2 | 0.48 J | 1.0 U | 0.47 J | 0.50 U | **0.54** | 0.50 U | 1.0 U | 1.0 U | 1.3 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/21/2011 | 524 | K | | **30** | **6.4** | 0.50 U | 5.9 | 0.64 | 0.50 U | 0.59 | 0.50 U | 0.48 J | 0.50 U | 0.50 U | 0.35 J | 1.3 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/21/2011 | 8260 | K | | **27** | **5.5** | 1.0 U | 4.4 | 0.54 J | 1.0 U | 0.51 J | 0.50 U | **0.51** | 0.50 U | 1.0 U | 1.0 U | 1.4 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/11/2012 | 524 | | | **24** | **5.2** | 0.50 U | 4.6 | 0.51 | 0.50 U | 0.47 J | 0.50 U | 0.40 J | 0.50 U | 0.50 U | 0.31 J | 1.1 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/3/2012 | 524 | | | **30** | **5.8** | 0.50 U | 5.5 | 0.57 | 0.50 U | 0.48 J | 0.50 U | **0.63** | 0.50 U | 0.50 U | 0.50 U | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 1/23/2013 | 524 | | | **30** | **6.0** | 0.50 U | 5.7 | 0.61 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/28/2013 | 524 | | | **27** | **5.8** | 0.50 U | 5.6 | 0.61 | 0.50 U | 0.47 J | 0.50 U | **0.53** | 0.50 U | 0.50 U | 0.50 U | 1.7 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/28/2013 | 524 | K | | **28** | **5.9** | 0.50 U | 5.7 | 0.59 | 0.50 U | 0.48 J | 0.50 U | **0.51** | 0.50 U | 0.50 U | 0.50 U | 1.8 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/25/2014 | 524 | | | **31** | **5.4** | 0.50 U | 3.2 | 0.49 J | 0.50 U | 0.37 J | 0.050 U | 0.35 | 0.50 U | 0.50 U | 0.35 J | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/25/2014 | 524 | K | | **30** | **5.4** | 0.50 U | 3.6 | 0.49 J | 0.50 U | 0.37 J | 0.050 U | 0.38 | 0.50 U | 0.50 U | 0.33 J | 1.3 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/12/2014 | 524 | | | **44** | **7.9** | 0.50 U | 4.0 | 0.59 | 0.50 U | 0.49 J | 0.050 U | 0.41 | 0.50 U | 0.23 J | 0.26 J | 2.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-35 | EPAMW6-35 | 215 - 230 | 4/8/2002 | 8260 | | | 1.5 | 1 | 1 U | 0.63 J | 1 U | 1 U | 1 U | 0.5 U | 0.33 J | 0.5 U | 1 U | 2.7 | 1 U | 1 U | 1 U | 0.21 J | 0.73 J | 2.1 | 1.68 | 1 U | 0.19 J | 1.3 |
| MW6-41 | MW64-1 | 1107 - 1122 | 3/27/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/27/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/1/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/1/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/4/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/4/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/18/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/9/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/2/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/14/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/3/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-42 | MW64-2 | 660 - 680 | 2/3/1995 | 8021 | | | **49** | **16** | 2.2 | **15** | 4.6 | 0.39 U | 0.49 | 0.43 | 0.31 U | 0.36 U | 0.28 U | 0.42 | 0.49 | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 2/3/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 2/3/1995 | 8021 | | | 3.7 | 1.9 | 0.29 U | 0.41 U | 0.36 | 0.39 U | 0.33 U | 0.22 U | 0.31 U | 0.36 U | 0.28 U | 0.2 U | 0.42 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 2/3/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 2/4/1995 | 8021 | | | 0.61 U | 0.37 U | 0.29 U | 0.41 U | 0.19 U | 0.39 U | 0.33 U | 0.22 U | 0.31 U | 0.36 U | 0.28 U | 0.2 U | 0.42 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 2/4/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 3/29/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/29/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/1/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/1/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/3/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 8/3/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/17/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/8/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/3/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/15/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/3/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-43 | MW64-3 | 424 - 434 | 3/28/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | 0.25 | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/28/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/2/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/2/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/8/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/18/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/8/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/2/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/14/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/2/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-44 | MW64-4 | 322 - 332 | 3/29/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | 0.21 | 0.1 U | 0.22 U | 0.17 | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/29/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/2/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.3 | -- | -- | -- |
| | | | 5/2/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/8/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/17/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/8/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/2/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/14/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/2/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/5/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/22/2003 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/21/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/13/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/14/2006 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/21/2006 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/22/2007 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 7/19/2011 | 524 | | | 0.26 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/19/2011 | 8260 | | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/8/2012 | 524 | | | 0.20 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-45 | MW64-5 | 224 - 234 | 3/29/1995 | 8021 | | | **13** | **6.9** | 0.3 U | 4.6 | 2.7 | 0.09 U | 0.13 U | 0.17 | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.17 | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/29/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 3/29/1995 | 8021 | K | | **12** | **6.1** | 0.3 U | 4.5 | 2.6 | 0.09 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.12 | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/29/1995 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/2/1995 | 8021 | | | **8.2** | **5.2** | 0.3 U | 2 | 1.7 | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/2/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/2/1995 | 8021 | K | | **9.2** | **5.3** | 0.3 U | 2.4 | 2 | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/2/1995 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/8/1995 | 8021 | | | **5.4** | 2.1 | 0.53 U | 2.3 | 0.98 | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/17/1995 | 8021 | | | **9.2** | 4.3 | 0.53 U | 3 | 1.7 | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/9/1997 | 8260 | | | **6.4** | 2.9 | 1 U | 1.8 | 1.1 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 0.21 J | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/2/1998 | 8260 | | | 4.4 | 2 | 1 U | 1 | 0.85 | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/14/1998 | 8260 | | | 4.6 | 2.3 | 1 U | 1.1 | 0.85 J | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 5/29/2002 | 8260 | | | **5.6** | 2.2 | 1 U | 1 | 0.78 J | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 2.2 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/23/2002 | 8260 | | | 1.5 | 0.81 J | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U |
| | | | 10/22/2003 | 8260 | | | **6.1** | 2.6 | 1 U | 1.3 | 0.91 J | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/14/2005 | 8260 | | | **5.4** | 2.6 | 1 U | 1.7 | 0.73 J | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/20/2005 | 8260 | | | 3.7 | 1.6 | 1 U | 0.95 J | 0.48 J | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/22/2006 | 8260 | | | **5.2** | 2.4 | 1 U | 1.6 | 0.69 J | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/8/2007 | 8260 | | | 3.6 | 2 | 1 U | 1.1 | 0.56 J | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1.9 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/2/2007 | 8260 | | | 3.4 | 2 | 1 U | 1.1 | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/5/2011 | 524 | HS | | 2.0 | 1.3 | 0.50 U | 0.32 J | 0.34 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/5/2011 | 8260 | HS | | 1.7 | 1.6 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/8/2011 | 524 | HS | | 1.3 | 1.4 | 0.50 U | 0.45 J | 0.34 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2011 | 8260 | HS | | 1.8 | 1.6 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| MW6-46 | MW64-6 | 147 - 162 | 3/30/1995 | 8021 | | | **55** | **15** | 0.96 | **14** | 4.2 | 0.09 U | 0.36 | **0.63** | 0.1 U | 0.22 U | 0.11 | 0.99 | 0.6 | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 3/30/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/2/1995 | 8021 | | | **41** | **13** | 0.61 | **9.2** | 3.6 | 0.095 U | 0.15 | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.56 | 0.25 | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/2/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/8/1995 | 8021 | | | **56** | **12** | 0.53 U | **12** | 4 | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/18/1995 | 8021 | | | **42** | **14** | 0.75 | **11** | 4.7 | 0.49 U | 0.47 | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/8/1997 | 8260 | | | **60** | **14** | 0.4 J | **17** | 3.9 | 1 U | 0.83 J | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1.3 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/2/1998 | 8260 | | | **54** | **13** | 1 U | **13** | 3.9 | 0.5 U | 0.94 J | 1 U | 1 U | 2 U | 2 U | 0.3 J | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/14/1998 | 8260 | | | **56** | **14** | 1 U | **13** | 3.5 | 1 U | 0.98 J | 0.5 U | 0.5 U | 1 U | 1 U | 0.31 J | 1.3 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/3/2002 | 8260 | | | **76** | **15** | 0.15 J | **12** | 3.4 | 1 U | 1.3 | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.42 J | 1.8 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 4/3/2002 | 8260 | K | | **75** | **15** | 0.16 J | **12** | 3.5 | 1 U | 1.2 | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.45 J | 1.9 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.33 J | 1 U | 1 U |
| | | | 10/22/2003 | 8260 | | | **57** | **13** | 1 U | **10** | 2.7 | 1 U | 1 | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.4 J | 2.1 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/22/2005 | 8260 | | | **72** | **15** | 1 U | **11** | 2.4 | 1 U | 0.92 J | 1 U | 1 U | 1 U | 2 U | 0.38 J | 1.8 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/12/2005 | 8260 | | | **66** | **12** | 1 U | **11** | 2.6 | 1 U | 0.99 J | 1 U | 1 U | 1 U | 2 U | 0.36 J | 1.8 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/14/2006 | 8260 | | | **79** | **13** | 1 U | **12** | 2.3 | 1 U | 0.94 J | 1 U | 1 U | 1 U | 2 U | 0.38 J | 2.2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/22/2006 | 8260 | | | **62** | **13** | 1 U | **11** | 2.2 | 1 U | 0.84 J | 1 U | 1 U | 1 U | 2 U | 0.42 J | 1.9 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/22/2007 | 8260 | | | **54** | **11** | 1 U | **9.5** | 1.9 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/5/2011 | 8260 | | | **42** | **8.8** | 1.0 U | 5.4 | 1.5 | 1.0 U | 0.44 J | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/19/2011 | 524 | | | **47** | **8.9** | 0.50 U | **6.4** | 1.5 | 0.50 U | 0.57 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.36 J | 1.1 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/19/2011 | 8260 | | | **41** | **9.3** | 1.0 U | 5.6 | 1.6 | 1.0 U | 0.47 J | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.35 J | 1.3 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/11/2012 | 524 | | | **37** | **8.7** | 0.50 U | 5.6 | 1.5 | 0.50 U | 0.48 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.32 J | 1.1 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2012 | 524 | | | **40** | **8.2** | 0.50 U | 5.4 | 1.4 | 0.50 U | 0.41 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2012 | 524 | K | | **39** | **8.1** | 0.50 U | 5.4 | 1.4 | 0.50 U | 0.41 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 1/31/2013 | 524 | | | **43** | **9.0** | 0.50 U | 5.4 | 1.5 | 0.50 U | 0.42 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/27/2013 | 524 | | | **36** | **8.1** | 0.50 U | 6.0 | 1.6 | 0.50 U | 0.45 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.4 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/13/2014 | 524 | | | **44** | **8.4** | 0.50 U | 4.7 | 1.2 | 0.50 U | 0.39 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.36 J | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/13/2014 | 524 | | | **46** | **8.3** | 0.50 U | 4.1 | 0.96 | 0.50 U | 0.40 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/13/2014 | 524 | K | | **51** | **8.9** | 0.50 U | 4.2 | 1.1 | 0.50 U | 0.37 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.17 J | 1.3 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-51 | MW6-51 | 1063 - 1078 | 3/6/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | **0.67** | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.39 | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/6/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/3/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/3/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/2/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/2/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/17/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/9/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/3/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/15/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/9/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.21 UJB | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-52 | MW6-52 | 876 - 896 | 12/7/1994 | 8021 | | | 2.3 | **470** | 1.6 | **75** | 1 | 0.43 U | **16** | **0.54** | 0.49 U | 0.22 U | 0.41 U | 0.66 | 0.54 U | -- | -- | 0.63 | 0.3 | 0.31 U | 0.49 | -- | -- | -- |
| | | | 12/7/1994 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 3/7/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | **0.66** | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.21 | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/7/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/4/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/4/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/2/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/2/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/17/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/9/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/9/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.19 UJB | 1 U | 1 U | 1 U | 0.15 J | 0.43 J |
| MW6-53 | MW6-53 | 578 - 598 | 3/8/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | **0.6** | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/3/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/3/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/1/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/1/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/17/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/10/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/15/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/8/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.13 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-54 | MW6-54 | 324 - 344 | 1/11/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | -- | -- | -- | -- |
| | | | 1/11/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1/14/1995 | 8021 | | | 0.082 U | 2.2 | 0.3 U | 0.2 U | 0.11 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | -- | -- | -- | -- |
| | | | 1/14/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 1/15/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | -- | -- | -- | -- |
| | | | 1/15/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 1/15/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | -- | -- | -- | -- |
| | | | 1/15/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 3/8/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | 0.33 | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/4/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/4/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/1/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/1/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/16/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.28 | 0.21 U | -- | -- | -- | -- |
| | | | 8/16/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/18/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/18/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/19/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/19/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/16/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/16/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/9/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/3/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/15/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/10/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 0.2 J | 1 U | 1 U | 1 U |
| | | | 12/5/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/24/2003 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/24/2003 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-55 | MW6-55 | 250 - 265 | 3/8/1995 | 8021 | | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | 0.21 | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 3/8/1995 | 8021 | K | | 0.08 U | 0.09 U | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | **0.54** | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/8/1995 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/4/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/4/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/1/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/1/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/10/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/10/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/10/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/10/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/11/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/11/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/13/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/13/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/17/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/10/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/15/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 4/10/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.15 J | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/23/2005 | 8260 | | | 0.33 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/23/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/27/2006 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/3/2007 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.48 J | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/3/2007 | 8260 | K | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2007 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 6/29/2007 | 8260 | K | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/11/2011 | 524 | | | 0.36 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/11/2011 | 8260 | | | 0.40 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/9/2012 | 524 | | | 0.47 J | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/6/2013 | 524 | | | 0.53 | 0.27 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/21/2013 | 524 | | | 0.45 J | 0.25 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/13/2014 | 524 | | | 0.41 J | 0.23 J | 0.50 U | 0.10 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/11/2014 | 524 | | | 0.36 J | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 UJ | 0.50 U | 0.50 U | 0.42 J | 0.50 UJ | 1.0 U | 0.50 UJ | 0.50 U | 0.50 U |
| MW6-56 | MW6-56 | 120 - 130 | 3/9/1995 | 8021 | | | **87** | **15** | 0.48 | **8.6** | **6.5** | 0.23 | 0.13 U | **0.68** | 0.1 U | 0.22 U | 0.08 U | 0.08 U | 1.2 | -- | -- | 0.17 U | 0.2 U | 0.15 U | 1.5 U | -- | -- | -- |
| | | | 3/9/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/4/1995 | 8021 | | | **41** | **18** | 0.46 | **7.9** | **6.7** | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.9 | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/4/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/1/1995 | 8021 | | | **45** | **13** | 0.53 U | **8.9** | **6.1** | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/1/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | | PCE | TCE | 1,1,1-TCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCA | 1,2-DCA | CTC | VC | CMT | CFM | TFM | 1,2,4-TCB | 1,2,3-TCB | BEN | TOL | EBN | TX | NAP | 1,3,5-TMB | 1,2,4-TMB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | MCL: | 5 | 5 | 200 | 6 | 6 | 10 | 5 | 0.5 | 0.5 | 0.5 | | | 150 | 5 | | 1 | 150 | 300 | 1750 | 17# | 330# | 330# |
| | | | 8/1/1995 | 8021 | K | | 44 | 13 | 0.53 U | 9.1 | 6.3 | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/1/1995 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/16/1995 | 8021 | | | 44 | 16 | 0.53 U | 9.6 | 6.4 | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 1.3 | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/16/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/9/1997 | 8260 | | | 53 | 16 | 1 U | 9.1 | 5.1 | 1 U | 0.31 J | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/3/1998 | 8260 | | | 43 | 13 | 1 U | 7.1 | 5.3 | 0.5 U | 0.38 J | 1 U | 1 U | 2 U | 2 U | 0.21 J | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/15/1998 | 8260 | | | 45 | 15 | 0.21 J | 9 | 5.2 | 1 U | 0.4 J | 0.5 U | 0.5 U | 1 U | 1 U | 0.24 J | 1.7 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 6/20/2005 | 8260 | | | 46 | 12 | 1 U | 11 | 3.2 | 1 U | 0.9 J | 1 U | 1 U | 1 U | 0.36 UJB | 1 U | 1.5 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/14/2005 | 8260 | | | 56 | 11 | 1 U | 8.9 | 3.3 | 1 U | 0.79 J | 1 U | 1 U | 1 U | 2 U | 0.3 J | 1.6 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/16/2006 | 8260 | | | 68 | 12 | 1 U | 10 | 3.1 | 1 U | 0.84 J | 1 U | 1 U | 1 U | 2 U | 0.35 J | 2.1 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/22/2006 | 8260 | | | 49 | 11 | 1 U | 7.7 | 2.9 | 1 U | 0.58 J | 1 U | 1 U | 1 U | 2 U | 0.33 J | 1.6 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/26/2007 | 8260 | | | 43 | 9.9 | 1 U | 7.3 | 2.4 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/6/2011 | 8260 | | | 22 | 5.4 | 1.0 U | 2.0 | 1.5 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 0.73 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/25/2011 | 524 | | | 25 | 6.1 | 0.50 U | 3.9 | 1.5 | 0.50 U | 0.40 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.29 J | 1.0 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/25/2011 | 8260 | | | 29 | 6.7 | 1.0 U | 3.0 | 1.3 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.3 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/12/2012 | 524 | | | 28 | 7.0 | 0.50 U | 3.4 | 1.6 | 0.50 U | 0.31 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.27 J | 0.96 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/6/2013 | 524 | | | 30 | 7.6 | 0.50 U | 3.7 | 1.6 | 0.50 U | 0.33 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/21/2013 | 524 | | | 25 | 6.7 | 0.50 U | 3.1 | 1.9 | 0.50 U | 0.25 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.6 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/13/2014 | 524 | | | 32 | 7.6 | 0.50 U | 2.5 | 2.0 | 0.50 U | 0.23 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.28 J | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/15/2014 | 524 | | | 26 | 6.5 | 0.50 U | 2.1 | 2.1 | 0.50 U | 0.20 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.25 J | 0.87 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-61 | MW6-61 | 446 - 456 | 12/13/1994 | 8021 | | | 0.61 U | 0.37 U | 0.29 U | 0.41 U | 0.19 U | 0.39 U | 0.33 U | 0.22 U | 0.31 U | 0.36 U | 0.28 U | 0.2 U | 0.42 U | -- | -- | 0.17 U | 0.18 | 0.14 U | 0.4 | -- | -- | -- |
| | | | 12/13/1994 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/5/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/5/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/7/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/7/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/19/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/19/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/10/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| MW6-62 | MW6-62 | 310 - 325 | 12/13/1994 | 8021 | | | 9.3 | 4.9 | 0.29 U | 0.64 | 0.19 U | 0.39 U | 0.33 U | 0.22 U | 1.3 | 0.36 U | 0.28 U | 0.22 | 0.42 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 12/13/1994 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/13/1994 | 8021 | K | | 7.8 | 4.2 | 0.29 U | 0.52 | 0.19 U | 0.39 U | 0.33 U | 0.22 U | 1.2 | 0.36 U | 0.28 U | 0.2 U | 0.42 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 12/13/1994 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/5/1995 | 8021 | | | 7.1 | 4.4 | 0.3 U | 0.77 | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.32 | 0.22 U | 0.075 U | 0.13 | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/5/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/5/1995 | 8021 | K | | 8.1 | 4.4 | 0.3 U | 0.73 | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.37 | 0.22 U | 0.075 U | 0.15 | 0.13 | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/5/1995 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/7/1995 | 8021 | | | 7.3 | 3.3 | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/7/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/24/1995 | 8021 | | | 8.4 | 5.2 | 0.53 U | 1.8 | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/24/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/25/1995 | 8021 | | | 7.7 | 4.9 | 0.53 U | 1.6 | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/25/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/27/1995 | 8021 | | | 6.1 | 4 | 0.53 U | 1.3 | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/27/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/19/1995 | 8021 | | | 5.6 | 4 | 0.53 U | 1.9 | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.8 | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/19/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/10/1997 | 8260 | | | 11 | 6 | 1 U | 1.9 | 0.25 J | 1 U | 1 U | 0.5 U | 1.6 | 1 U | 1 U | 0.43 J | 0.74 J | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/5/1998 | 8260 | | | 10 | 5.3 | 1 U | 1.8 | 0.25 J | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 0.4 J | 0.67 J | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | | | 11 | 6.2 | 1 U | 2.2 | 1 U | 1 U | 1 U | 0.5 U | 1.1 | 1 U | 1 U | 0.48 J | 0.72 J | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 10/28/2003 | 8260 | | | 14 | 5.1 | 1 U | 1.8 | 1 U | 1 U | 1 U | 0.5 U | 1.6 | 0.5 U | 1 U | 0.48 J | 0.51 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW6-63 | MW6-63 | 197 - 212 | 12/12/1994 | 8021 | | | 120 | 18 | 4.2 | 13 | 3.8 | 0.39 U | 1.9 | 0.36 | 0.31 U | 0.36 U | 0.28 U | 0.93 | 2.6 | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 12/12/1994 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/5/1995 | 8021 | | | 110 | 21 | 2.1 | 12 | 4 | 0.095 U | 1.5 | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 1.2 | 2.1 | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/5/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/7/1995 | 8021 | | | 100 | 18 | 1.9 | 14 | 4.2 | 0.49 U | 1.3 | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.45 | 3.2 | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/7/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/7/1995 | 8021 | K | | 98 | 17 | 1.7 | 13 | 3.9 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.43 | 3.2 | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/7/1995 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/30/1995 | 8021 | | | 200 | 23 | 2.7 U | 15 | 5.5 | 0.49 U | 3 | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 1.8 U | 3.1 | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/30/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/31/1995 | 8021 | | | 81 | 15 | 2.3 | 11 | 4.4 | 0.49 U | 1.9 | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 1.3 | 2.4 | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/31/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/19/1995 | 8021 | | | 86 | 18 | 1.8 | 12 | 3.9 | 0.49 U | 1.9 | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.59 | 3 | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/19/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/19/1995 | 8021 | K | | 81 | 17 | 1.8 | 11 | 3.7 | 0.49 U | 1.8 | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.55 | 2.9 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/19/1995 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | | PCE | TCE | 1,1,1-TCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCA | 1,2-DCA | CTC | VC | CMT | CFM | TFM | 1,2,4-TCB | 1,2,3-TCB | BEN | TOL | EBN | TX | NAP | 1,3,5-TMB | 1,2,4-TMB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | MCL: | 5 | 5 | 200 | 6 | 6 | 10 | 5 | 0.5 | 0.5 | 0.5 | | | 150 | 5 | | 1 | 150 | 300 | 1750 | 17# | 330# | 330# |
| | | | 7/10/1997 | 8260 | | | 91 | 19 | 1.1 | 11 | 2.4 | 1 U | 1.6 | 0.5 U | 0.5 U | 1 U | 1 U | 0.57 J | 3.4 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/10/1997 | 8260 | K | | 95 | 20 | 1 U | 11 | 2.4 | 1 U | 1.6 | 0.5 U | 0.5 U | 1 U | 1 U | 0.56 J | 3.3 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | | | 64 | 15 | 1 U | 8.4 | 2.1 | 0.5 U | 1.4 | 1 U | 1 U | 2 U | 2 U | 0.45 J | 2.2 | -- | -- | 1 U | 1.5 | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | K | | 67 | 15 | 1 U | 8.4 | 2.2 | 0.5 U | 1.4 | 1 U | 1 U | 2 U | 2 U | 0.46 J | 2.3 | -- | -- | 1 U | 1.6 | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | | | 65 | 18 | 0.67 J | 9.8 | 2.5 | 1 U | 1.5 | 0.5 U | 0.5 U | 1 U | 1 U | 0.53 J | 2.4 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | K | | 65 | 18 | 0.66 J | 9.9 | 2.6 | 1 U | 1.6 | 0.5 U | 0.5 U | 1 U | 1 U | 0.55 J | 2.4 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 10/21/2003 | 8260 | | | 38 | 11 | 1 U | 4.3 | 1.6 | 1 U | 0.42 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.34 J | 0.75 J | 1 U | 1 U | 0.5 U | 0.63 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/17/2005 | 8260 | | | 28 | 8.4 | 1 U | 4.2 | 1.6 | 1 U | 0.38 J | 1 U | 1 U | 1 U | 0.33 UJB | 0.31 J | 0.71 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/23/2005 | 8260 | | | 35 | 10 | 1 U | 3.7 | 1.2 | 1 U | 0.31 J | 1 U | 1 U | 1 U | 2 U | 1 U | 1.6 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/15/2006 | 8260 | | | 33 | 7.2 | 1 U | 3.6 | 1.5 | 1 U | 0.3 J | 1 U | 1 U | 1 U | 2 U | 0.32 J | 0.98 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/15/2006 | 8260 | K | | 33 | 7.2 | 1 U | 3.6 | 1.6 | 1 U | 0.3 J | 1 U | 1 U | 1 U | 2 U | 0.33 J | 0.99 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/2/2007 | 8260 | | | 30 | 7.7 | 1 U | 3.2 | 1.3 | 1 U | 0.26 J | 1 U | 1 U | 1 U | 2 U | 0.34 J | 0.89 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/2/2007 | 8260 | K | | 30 | 7.7 | 1 U | 3.2 | 1.3 | 1 U | 0.26 J | 1 U | 1 U | 1 U | 2 U | 0.33 J | 0.88 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/25/2007 | 8260 | | | 28 | 6.8 | 1 U | 2.6 | 1.2 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 7/25/2011 | 524 | | | 20 | 4.7 | 0.50 U | 2.0 | 0.93 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.29 J | 0.54 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/25/2011 | 8260 | | | 21 | 4.1 | 1.0 U | 1.2 | 0.66 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 0.63 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/25/2011 | 524 | K | | 20 | 4.3 | 0.50 U | 1.8 | 0.92 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.28 J | 0.50 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/25/2011 | 8260 | K | | 22 | 4.4 | 1.0 U | 1.2 | 0.70 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 0.60 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| MW6-64 | MW6-64 | 17.4 - 37.4 | 12/13/1994 | 8021 | | | 69 | 18 | 1.5 | 5 | 3.6 | 0.39 U | 0.33 U | 0.22 U | 0.31 U | 0.36 U | 0.28 U | 0.49 | 0.42 U | -- | -- | 0.17 U | 0.22 | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 12/13/1994 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/5/1995 | 8021 | | | 41 | 14 | 0.44 | 3.3 | 3.8 | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.66 | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/5/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/7/1995 | 8021 | | | 54 | 16 | 0.53 U | 6.5 | 4.9 | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/7/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/19/1995 | 8021 | | | 42 | 18 | 0.53 U | 6.9 | 5.2 | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/19/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/10/1997 | 8260 | | | 73 | 23 | 1 U | 7.2 | 4.6 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 0.35 J | 0.58 J | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | | | 59 | 20 | 1 U | 6.1 | 4.8 | 0.5 U | 0.2 J | 1 U | 1 U | 2 U | 2 U | 0.36 J | 0.46 J | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | | | 61 | 24 | 0.36 J | 7 | 6.1 | 1 U | 0.24 J | 0.5 U | 0.5 U | 1 U | 1 U | 0.48 J | 0.45 J | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| MW6-65 | MW6-65 | 97 - 112 | 8/17/1995 | 8021 | | | 44 | 18 | 0.3 U | 1.7 | 17 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 4.8 | 13 | -- | -- | -- | -- |
| | | | 8/17/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/20/1995 | 8021 | | | 51 | 22 | 0.53 U | 2 | 22 | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 1.8 | -- | -- | 0.21 | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/20/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/11/1997 | 8260 | | | 150 | 50 | 2 U | 2.5 | 32 | 2 U | 2 U | 1 U | 1 U | 1.6 J | 2 U | 2 U | 3.2 | -- | -- | 2 U | 2 U | 2 U | 2 U | -- | -- | -- |
| | | | 2/5/1998 | 8260 | | | 63 | 22 | 1 U | 1 | 29 | 0.25 J | 0.41 J | 1 U | 1 U | 0.83 J | 2 U | 1 U | 0.95 J | -- | -- | 0.37 J | 0.32 J | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | | | 170 | 40 | 1 U | 2 | 38 | 0.4 J | 0.44 J | 0.5 U | 0.5 U | 2.1 | 1 | 1 U | 4 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 6/24/2005 | 8260 | | | 76 | 25 | 1 U | 1.5 | 16 | 0.31 J | 0.28 J | 1 U | 1 U | 0.62 J | 2 U | 1 U | 1.4 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/14/2005 | 8260 | | | 96 | 25 | 1 U | 1.6 | 21 | 0.38 J | 0.29 J | 1 U | 1 U | 0.7 J | 2 U | 1 U | 1.6 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/16/2006 | 8260 | | | 80 | 25 | 1.7 U | 1.5 J | 18 | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 0.65 J | 3.3 U | 1.7 U | 1.6 J | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U |
| | | | 1/16/2007 | 8260 | | | 78 | 30 | 1 U | 1.4 | 19 | 0.38 J | 0.27 J | 1 U | 1 U | 0.72 J | 2 U | 1 U | 1.7 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/25/2007 | 8260 | | | 74 | 26 | 1 U | 1.5 | 17 | 1 U | 1 U | 0.5 U | 0.5 U | 0.71 | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/6/2011 | 8260 | | | 45 | 23 | 1.0 U | 0.63 J | 13 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 0.95 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/18/2011 | 524 | | | 44 | 18 | 0.50 U | 0.72 | 10 | 0.30 J | 0.50 U | 0.50 U | 0.50 U | 0.33 J | 0.50 U | 1.0 U | 0.78 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/18/2011 | 8260 | | | 27 | 15 | 1.0 U | 0.43 J | 8.4 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/12/2012 | 524 | | | 35 | 19 | 0.50 U | 0.56 | 10 | 0.23 J | 0.50 U | 0.50 U | 0.50 U | 0.27 J | 0.50 U | 1.0 U | 0.67 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/9/2012 | 524 | | | 43 | 24 | 0.50 U | 0.69 | 12 | 0.32 J | 0.13 J | 0.50 U | 0.50 U | 0.31 J | 0.50 U | 0.50 U | 0.73 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-71 | MW6-71 | 209 - 230 | 4/11/1995 | 8021 | | | 10 | 7.4 | 0.3 U | 0.2 U | 0.11 U | 0.09 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.12 | 0.08 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 4/11/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/16/1995 | 8021 | | | 7.4 | 6 | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/16/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/9/1995 | 8021 | | | 9.5 | 6.4 | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.53 | 0.21 U | -- | -- | -- | -- |
| | | | 8/9/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/18/1995 | 8021 | | | 11 | 8.2 | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.98 | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/18/1995 | 8021 | K | | 11 | 8.3 | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.86 | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/18/1995 | 8260 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/10/1997 | 8260 | | | 14 | 8.8 | 1 U | 0.32 J | 1 U | 1 U | 1 U | 0.5 U | 0.28 J | 1 U | 1 U | 0.24 J | 1 U | -- | -- | 1 U | 1.4 | 1 U | 1 U | -- | -- | -- |
| | | | 7/10/1997 | 8260 | K | | 13 | 8.1 | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.56 | 1 U | 1 U | 0.12 J | 1 U | -- | -- | 1 U | 0.94 J | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | | | 10 | 6.9 | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 0.23 J | 2 U | -- | -- | 1 U | 0.56 J | 1 U | 1 U | -- | -- | -- |
| | | | 2/4/1998 | 8260 | K | | 9.6 | 6.4 | 1 U | 0.11 J | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 0.22 J | 2 U | -- | -- | 1 U | 1.6 | 1 U | 1 U | -- | -- | -- |
| | | | 7/15/1998 | 8260 | | | 11 | 8 | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 0.26 J | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| MW6-81 | MW6-81 | 107 - 118 | 12/14/1994 | 8021 | | | 0.79 | 0.37 U | 0.29 U | 0.41 U | 0.19 U | 0.39 U | 0.33 U | 0.22 U | 0.31 U | 0.36 U | 0.28 U | 0.2 U | 0.42 U | -- | -- | 0.17 U | 0.24 | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 12/14/1994 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/8/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/8/1995 | 8021 | | | 0.082 U | 0.089 U | 0.3 U | 0.2 U | 0.11 U | 0.095 U | 0.13 U | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 0.082 U | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/9/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/9/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 10/18/1995 | 8021 | | | 0.68 U | 0.44 U | 0.53 U | 0.77 U | 0.86 U | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.36 U | 0.58 U | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/10/1997 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/5/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | K | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| MW6-82 | MW6-82 | 16 - 26 | 12/14/1994 | 8021 | | | **170** | **15** | 2.5 | 1.9 | 4.4 | 0.39 U | 0.38 | 0.22 U | 0.31 U | 0.36 U | 0.28 U | 1.6 | 8.5 | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 12/14/1994 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 5/8/1995 | 8021 | | | **160** | **31** | 0.3 U | 4.9 | **9.1** | 0.095 U | 0.38 | 0.16 U | 0.1 U | 0.22 U | 0.075 U | 2.4 | 0.1 U | -- | -- | 0.17 U | 0.13 U | 0.14 U | 0.22 U | -- | -- | -- |
| | | | 5/8/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/9/1995 | 8021 | | | **160** | **39** | 0.53 U | **6.5** | **7.9** | 0.49 U | 0.32 U | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.7 | 7.6 U | -- | -- | 1 U | 1.1 U | 0.21 U | -- | -- | -- | -- |
| | | | 8/9/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/18/1995 | 8021 | | | **88** | **35** | 0.91 | 4.4 | 6.8 U | 0.49 U | 0.8 | 0.51 U | 0.64 U | 0.59 U | 0.69 U | 0.81 | 5.6 | -- | -- | 0.2 U | 0.22 U | 0.21 U | 0.95 U | -- | -- | -- |
| | | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 7/10/1997 | 8260 | | | **130** | **22** | 6.6 | 5.6 | 4.9 | 1 U | 0.6 J | 0.5 U | 0.5 U | 1 U | 1 U | 0.45 J | 6.7 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 2/5/1998 | 8260 | | | **98** | **13** | 2.3 | 3.2 | 4.5 | 0.5 U | 0.44 J | 1 U | 1 U | 2 U | 2 U | 0.67 J | 6 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| | | | 7/16/1998 | 8260 | | | **92** | **57** | 4.6 | **8.2** | **6.1** | 1 U | 1.4 | 0.5 U | 0.5 U | 1 U | 1 U | 0.8 J | 3.7 | -- | -- | 1 U | 1 U | 1 U | 1 U | -- | -- | -- |
| MP20-1 | MP20-01 | 434 - 444 | 8/13/1999 | 8260 | | | **21** | **12** | 1 U | 2.4 | 4.6 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.72 J | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 0.34 J | 1 U | 1 U | 1 U |
| | | | 9/13/1999 | 8260 | | | **16** | **17** | 0.64 J | **23** | 4.4 | 1 U | 2.7 | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.39 J | 0.69 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.7 J | 1 U | 1 U |
| | | | 12/27/1999 | 8260 | | | 1.7 | 1.8 | 1 U | 2.8 | 0.39 J | 1 U | 0.29 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2000 | 8260 | | | 0.28 J | 0.16 J | 1 U | 0.16 J | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.11 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 4/26/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.2 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/6/2002 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 11/6/2003 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2005 | 8260 | | | 0.32 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/8/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/3/2006 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 2/2/2007 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/13/2007 | 8260 | | | 1 U | 1.2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 9/3/2008 | 524 | | | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 8/6/2014 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.20 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MP20-2 | MP20-02 | 336 - 346 | 8/13/1999 | 8260 | | | **31** | **33** | 1.4 | **51** | **8.1** | 1 U | **5.4** | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.62 J | 2.7 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 0.34 J | 1 U | 1 U | 1 U |
| | | | 9/13/1999 | 8260 | | | 0.35 J | 0.26 J | 1 U | 0.18 J | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/27/1999 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2000 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 4/26/2002 | 8260 | | | 0.17 J | 0.18 J | 1 U | 0.44 J | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.27 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/6/2002 | 8260 | | | 1 U | 0.26 J | 1 U | 0.42 J | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 11/6/2003 | 8260 | | | 1 U | 1 U | 1 U | 0.39 J | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.41 J | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/8/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/3/2006 | 8260 | | | 1 U | 1 U | 1 U | 0.4 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 2/2/2007 | 8260 | | | 1 U | 1 U | 1 U | 0.4 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/13/2007 | 8260 | | | 1 U | 1.2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 9/3/2008 | 524 | | | 0.5 U | 0.5 U | 0.5 U | 0.57 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 7/12/2011 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/12/2011 | 8260 | | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/30/2012 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.32 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/4/2013 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/20/2013 | 524 | | | 0.50 U | 0.32 J | 0.50 U | 0.65 | 0.13 J | 0.50 U | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/13/2014 | 524 | | | 0.21 J | 0.24 J | 0.50 U | 0.49 | 0.50 U | 0.50 U | 0.15 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/6/2014 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.22 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MP20-3 | MP20-03 | 288 - 298 | 8/13/1999 | 8260 | | | **58** | **72** | 4.2 | **150** | **14** | 1 U | **13** | **0.82** | 0.5 U | 0.5 U | 1 U | 0.6 J | 4 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 0.34 J | 1 U | 1 U | 1 U |
| | | | 9/13/1999 | 8260 | | | **27** | **40** | 2.2 | **58** | **9.3** | 0.25 J | **8.4** | **0.75** | 0.5 U | 0.5 U | 1 U | 0.36 J | 1.4 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/27/1999 | 8260 | | | **38** | **55** | 2.7 | **100** | **13** | 0.15 J | **12** | **0.86** | 0.5 U | 0.5 U | 1 U | 0.55 J | 2.1 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2000 | 8260 | | | **51** | **65** | 2.9 | **150** | **13** | 0.22 J | **14** | **0.93** | 0.5 U | 0.5 U | 1 U | 0.74 J | 5.2 | 1 U | 1 U | 0.11 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 4/26/2002 | 8260 | | | **48** | **61** | 1.7 | **130** | **12** | 0.29 J | **12** | **0.8** | 0.5 U | 0.5 U | 1 U | 0.77 J | 6 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 4/26/2002 | 8260 | K | | **22** | **34** | 0.68 J | **55** | **8.8** | 1 U | **8** | **0.63** | 0.5 U | 0.5 U | 1 U | 0.5 J | 3.1 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/6/2002 | 8260 | | | **60** | **70** | 2 | **100** | **13** | 0.51 J | **12** | **1** | 0.5 U | 0.5 U | 1 U | 0.83 J | 6.1 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.32 J |
| | | | 11/6/2003 | 8260 | | | **24** | **36** | 0.43 J | **66** | **10** | 1 U | **7.5** | **0.54** | 0.5 U | 0.5 U | 1 U | 0.48 J | 0.79 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2005 | 8260 | | | **34** | **32** | 0.39 J | **63** | **8.9** | 1 U | **5.8** | 0.43 J | 1 U | 1 U | 2 U | 0.37 J | 1.2 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2005 | 8260 | K | | **35** | **34** | 0.38 J | **67** | **9.1** | 1 U | **6** | 0.45 J | 1 U | 1 U | 2 U | 0.37 J | 1.2 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/8/2005 | 8260 | | | **44** | **45** | 2.5 U | **120** | **12** | 2.5 U | **8.9** | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | 2.7 J | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| | | | 12/8/2005 | 8260 | K | | **48** | **48** | 2.5 U | **140** | **12** | 2.5 U | **9.2** | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | 2.9 J | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| | | | 7/6/2006 | 8260 | | | **46** | **54** | 2.5 U | **130** | **9.8** | 2.5 U | **8.5** | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | 2.9 J | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| | | | 7/6/2006 | 8260 | K | | **46** | **54** | 2.5 U | **140** | **11** | 2.5 U | **8.5** | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | 2.7 J | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U | 2.5 U |
| | | | 2/2/2007 | 8260 | | | **47** | **53** | 1.7 U | **120** | **11** | 1.7 U | **9.3** | 1.7 U | 1.7 U | 1.7 U | 3.3 U | 0.59 J | 2.2 J | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U | 1.7 U |
| | | | 6/13/2007 | 8260 | | | **23** | **37** | 1 U | **74** | **10** | 1 U | **7.5** | **0.58 J** | 1 U | 2 U | 2 U | 0.51 J | 1.4 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 9/3/2008 | 524 | | | **55** | **61** | 0.5 U | **150** | **12** | 0.5 U | **9.2** | **0.56** | 0.5 U | 0.5 U | 0.5 U | 0.62 | 2.5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 12/20/2010 | 8260 | | | **50** | **41** | 1.0 U | **67** | **9.1** | 1.0 U | **5.8** | 0.43 J | 0.50 U | 0.50 U | 1.0 U | 0.42 J | 2.2 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | | PCE | TCE | 1,1,1-TCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCA | 1,2-DCA | CTC | VC | CMT | CFM | TFM | 1,2,4-TCB | 1,2,3-TCB | BEN | TOL | EBN | TX | NAP | 1,3,5-TMB | 1,2,4-TMB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | MCL: | 5 | 5 | 200 | 6 | 6 | 10 | 5 | 0.5 | 0.5 | 0.5 | | | 150 | 5 | | 1 | 150 | 300 | 1750 | 17# | 330# | 330# |
| | | | 12/20/2010 | 8260 | K | | 55 | 44 | 1.0 U | 76 | 9.5 | 1.0 U | 6.0 | 0.39 J | 0.50 U | 0.50 U | 1.0 U | 0.37 J | 2.8 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/12/2011 | 524 | | | 44 | 37 | 0.50 U | 94 | 7.6 | 0.21 J | 6.9 | 0.39 J | 0.50 U | 0.50 U | 0.50 U | 0.43 J | 2.4 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/12/2011 | 8260 | | | 50 | 40 | 1.0 U | 98 | 9.8 | 1.0 U | 6.9 | 0.39 J | 0.50 U | 0.50 U | 1.0 U | 0.51 J | 3.2 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/5/2012 | 524 | | | 20 | 23 | 0.50 U | 37 | 6.5 | 0.50 U | 4.5 | 0.41 J | 0.50 U | 0.50 U | 0.50 U | 0.41 J | 0.70 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/30/2012 | 524 | | | 23 | 23 | 0.50 U | 47 | 6.6 | 0.19 J | 4.8 | 0.38 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/4/2013 | 524 | | | 28 | 28 | 0.50 U | 47 | 7.5 | 0.50 U | 5.4 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.3 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/20/2013 | 524 | | | 24 | 28 | 0.50 U | 50 | 6.2 | 0.13 J | 4.7 | 0.42 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/13/2014 | 524 | | | 46 | 47 | 0.50 U | 81 | 10 | 0.20 J | 7.2 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.59 | 2.8 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/7/2014 | 524 | | | 28 | 29 | 0.50 U | 51 | 6.9 | 0.50 U | 5.6 | 0.47 | 0.050 U | 0.50 U | 0.50 U | 0.49 J | 1.3 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MP20-4 | MP20-04 | 194 - 204 | 8/13/1999 | 8260 | | | 9.2 | 9.6 | 1 U | 1.3 | 1.7 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.62 J | 1.8 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 0.34 J | 1 U | 1 U | 1 U |
| | | | 8/13/1999 | 8260 | K | | 10 | 11 | 1 U | 1.5 | 1.9 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.7 J | 1.8 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 0.34 J | 1 U | 1 U | 1 U |
| | | | 9/13/1999 | 8260 | | | 16 | 14 | 1 U | 2.1 | 3.1 | 1 U | 0.17 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.65 J | 0.78 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 9/13/1999 | 8260 | K | | 20 | 17 | 1 U | 2.6 | 3.1 | 1 U | 0.19 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.66 J | 1 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/27/1999 | 8260 | | | 17 | 15 | 1 U | 2.2 | 3.7 | 1 U | 0.18 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.55 J | 0.61 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/27/1999 | 8260 | K | | 25 | 19 | 1 U | 3.3 | 4 | 1 U | 0.21 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.61 J | 0.96 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2000 | 8260 | | | 22 | 16 | 1 U | 3.3 | 3.5 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.59 J | 1.6 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 4/27/2002 | 8260 | | | 23 | 15 | 1 U | 3.5 | 3.4 | 1 U | 0.22 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.48 J | 3.8 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/6/2002 | 8260 | | | 34 | 18 | 1 U | 4.3 | 4 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.58 J | 2.6 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 11/6/2003 | 8260 | | | 30 | 16 | 1 U | 4.7 | 4.4 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 J | 1.7 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2005 | 8260 | | | 19 | 9.7 | 1 U | 2.5 | 3.3 | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 0.43 J | 0.58 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/8/2005 | 8260 | | | 35 | 15 | 1 U | 5.9 | 4.4 | 1 U | 0.28 J | 1 U | 1 U | 1 U | 2 U | 0.58 J | 1.6 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/3/2006 | 8260 | | | 32 | 15 | 1 U | 5.4 | 4.2 | 1 U | 0.23 J | 1 U | 1 U | 1 U | 2 U | 0.66 J | 1.6 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 2/2/2007 | 8260 | | | 24 | 11 | 1 U | 4.9 | 3.9 | 1 U | 1.6 | 1 U | 1 U | 0.49 J | 2 U | 0.32 J | 1 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/13/2007 | 8260 | | | 13 | 9.2 | 1 U | 2.6 | 3.7 | 1 U | 0.63 J | 1 U | 1 U | 2 U | 2 U | 0.35 J | 0.63 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/14/2011 | 524 | | | 40 | 19 | 0.50 U | 7.9 | 4.4 | 0.50 U | 0.49 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.49 J | 1.5 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/14/2011 | 8260 | | | 43 | 20 | 1.0 U | 7.8 | 5.0 | 1.0 U | 0.42 J | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.45 J | 2.0 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/5/2012 | 524 | | | 18 | 9.9 | 0.50 U | 2.6 | 3.2 | 0.50 U | 0.25 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.39 J | 0.47 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/30/2012 | 524 | | | 24 | 12 | 0.50 U | 3.7 | 3.8 | 0.12 J | 0.34 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.80 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| MP20-5 | MP20-05 | 76 - 86 | 8/13/1999 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 0.34 J | 1 U | 1 U | 1 U |
| | | | 9/14/1999 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/27/1999 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/29/2000 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MP21-1 | MP21-01 | 530 - 540 | 8/21/2003 | 8260 | | | 31 | 7.1 | 1 U | 4.4 | 1.4 | 1 U | 0.48 J | 0.5 U | 0.5 U | 0.5 U | 0.48 J | 1 U | 0.53 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 11/5/2003 | 8260 | | | 2.2 | 0.44 J | 1 U | 0.32 J | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/28/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 0.64 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/7/2005 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/5/2006 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 2/1/2007 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/14/2007 | 8260 | | | 1 U | 1.2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MP21-2 | MP21-02 | 435 - 445 | 8/21/2003 | 8260 | | | 0.56 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.31 J | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 11/5/2003 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/28/2005 | 8260 | | | 0.68 J | 0.85 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/7/2005 | 8260 | | | 1.2 | 1.2 | 1 U | 1 U | 0.32 J | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/5/2006 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 2/1/2007 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/14/2007 | 8260 | | | 1 U | 1.2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/17/2010 | 8260 | | | 0.33 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/13/2011 | 8260 | | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/7/2014 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MP21-3 | MP21-03 | 365 - 375 | 8/21/2003 | 8260 | | | 33 | 7.5 | 1 U | 4.2 | 1.3 | 1 U | 0.43 J | 0.5 U | 0.5 U | 0.5 U | 0.51 J | 1 U | 0.67 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 11/5/2003 | 8260 | | | 12 | 2.8 | 1 U | 1.9 | 0.6 J | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/28/2005 | 8260 | | | 1.2 | 0.35 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/7/2005 | 8260 | | | 0.76 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/5/2006 | 8260 | | | 0.56 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 2/1/2007 | 8260 | | | 1.5 | 0.43 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/14/2007 | 8260 | | | 0.98 J | 1.2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/17/2010 | 8260 | | | 4.5 | 2.2 | 1.0 U | 0.54 J | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 524 | | | 2.0 | 0.99 | 0.50 U | 0.37 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/13/2011 | 8260 | | | 2.3 | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/4/2012 | 524 | | | 2.0 | 1.3 | 0.50 U | 0.27 J | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/31/2012 | 524 | | | 1.9 | 1.0 | 0.50 U | 0.25 J | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/5/2013 | 524 | | | 3.0 | 1.6 | 0.50 U | 0.46 J | 0.27 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/19/2013 | 524 | | | 2.2 | 1.4 | 0.50 U | 0.39 J | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/14/2014 | 524 | | | 7.2 | 2.9 | 0.50 U | 0.88 | 0.37 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.15 J | 0.24 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/7/2014 | 524 | | | 3.9 | 1.9 | 0.50 U | 1.1 | 0.29 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MP21-4 | MP21-04 | 320 - 330 | 8/21/2003 | 8260 | | | 7.3 | 2.1 | 1 U | 1.1 | 0.45 J | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.76 J | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 11/5/2003 | 8260 | | | 0.91 J | 0.41 J | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/28/2005 | 8260 | | | 1.2 | 0.56 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | | PCE | TCE | 1,1,1-TCA | 1,1-DCE | cis-1,2-DCE | trans-1,2-DCE | 1,1-DCA | 1,2-DCA | CTC | VC | CMT | CFM | TFM | 1,2,4-TCB | 1,2,3-TCB | BEN | TOL | EBN | TX | NAP | 1,3,5-TMB | 1,2,4-TMB |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | MCL: | 5 | 5 | 200 | 6 | 6 | 10 | 5 | 0.5 | 0.5 | 0.5 | | | 150 | 5 | | 1 | 150 | 300 | 1750 | 17# | 330# | 330# |
| | | | 12/7/2005 | 8260 | | | 2.1 | 0.9 J | 1 U | 0.5 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/5/2006 | 8260 | | | 2.4 | 0.97 J | 1 U | 0.59 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 2/1/2007 | 8260 | | | 0.91 J | 0.45 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/14/2007 | 8260 | | | 1 U | 1.2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/17/2010 | 8260 | | | 0.32 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 524 | | | 0.27 J | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/13/2011 | 8260 | | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/4/2012 | 524 | | | 0.23 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/31/2012 | 524 | | | 0.32 J | 0.20 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/5/2013 | 524 | | | 0.28 J | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/19/2013 | 524 | | | 0.27 J | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/14/2014 | 524 | | | 0.55 | 0.33 J | 0.50 U | 0.060 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/26/2014 | 524 | | | 0.62 | 0.37 J | 0.50 U | 0.21 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MP21-5 | MP21-05 | 245 - 255 | 8/21/2003 | 8260 | | | **74** | **16** | 1 U | **11** | 2.6 | 1 U | 1.2 | 0.5 U | 0.5 U | 0.5 U | 0.71 J | 0.54 J | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.75 UJB | 1 U | 1 U |
| | | | 11/5/2003 | 8260 | | | **58** | **12** | 1 U | **8.7** | 2.5 | 1 U | 1.2 | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.44 J | 0.91 J | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/28/2005 | 8260 | | | **42** | **10** | 1 U | **6.1** | 1.8 | 1 U | 0.89 J | 1 U | 1 U | 1 U | 2 U | 0.31 J | 0.58 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/7/2005 | 8260 | | | **30** | **7.2** | 1 U | 4.2 | 1.7 | 1 U | 0.62 J | 1 U | 1 U | 1 U | 2 U | 1 U | 0.47 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/6/2006 | 8260 | | | **38** | **9.2** | 1 U | 5.4 | 1.6 | 1 U | 0.73 J | 1 U | 1 U | 1 U | 2 U | 0.32 J | 0.59 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 2/1/2007 | 8260 | | | **29** | **7.4** | 1 U | 3.7 | 1.4 | 1 U | 0.59 J | 1 U | 1 U | 1 U | 2 U | 1 U | 0.43 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/14/2007 | 8260 | | | **22** | **6.9** | 1 U | 3.5 | 1.2 | 1 U | 0.61 J | 1 U | 1 U | 2 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/20/2010 | 8260 | | | **54** | **12** | 1.0 U | 5.0 | 1.4 | 1.0 U | 0.53 J | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.1 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/14/2011 | 524 | | | **40** | **9.3** | 0.50 U | 5.8 | 1.2 | 0.50 U | 0.63 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.35 J | 0.81 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/14/2011 | 8260 | | | **40** | **9.3** | 1.0 U | 5.7 | 1.5 | 1.0 U | 0.55 J | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.40 J | 1.1 | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/4/2012 | 524 | | | **19** | **5.3** | 0.50 U | 2.0 | 1.0 | 0.50 U | 0.33 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.28 J | 0.29 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/31/2012 | 524 | | | 0.50 UJ | 0.50 UJ | 0.50 U | 0.50 UJ | 0.50 UJ | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 UJ | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/31/2012 | 524 | K | | **38 J** | **8.5 J** | 0.50 U | 5.4 J | 1.3 J | 0.50 U | 0.45 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/5/2013 | 524 | | | **28** | **7.6** | 0.50 U | 3.3 | 1.3 | 0.50 U | 0.43 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.54 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/19/2013 | 524 | | | **20** | **5.5** | 0.50 U | 2.2 | 0.87 | 0.50 U | 0.28 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.41 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/14/2014 | 524 | | | **24** | **5.6** | 0.50 U | 2.8 | 0.86 | 0.50 U | 0.31 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.30 J | 0.42 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/26/2014 | 524 | | | **43** | **9.2** | 0.50 U | 3.8 | 1.2 | 0.50 U | 0.45 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.40 J | 0.81 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MP21-6 | MP21-06 | 150 - 160 | 8/21/2003 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.35 J | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 11/5/2003 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| MW-6-1-5 | EPAMW61-5 | 354 - 364 | 8/21/2013 | 524 | | | 0.30 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/12/2014 | 524 | | | 0.32 J | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2014 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW-6-1-6 | EPAMW61-6 | 470 - 480 | 8/21/2013 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.60 | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/12/2014 | 524 | | | 0.21 J | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2014 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.61 | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW-6-1-7 | EPAMW61-7 | 594 - 604 | 8/21/2013 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/12/2014 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2014 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.67 | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-10d | MW6-10d | 539 - 554 | 11/23/2002 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1.4 | 1.5 | 0.5 U | 1 U | 1 U | 1 U | 3.6 | 0.14 J | 1 U |
| | | | 10/27/2003 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/27/2005 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/21/2005 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/21/2005 | 8260 | L - K | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/23/2006 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 0.66 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/12/2007 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 47 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/19/2007 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 2.3 | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/26/2008 | 524 | L | | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 9.5 | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 12/20/2010 | 8260 | L | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 1.4 | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/8/2011 | 524 | HS | | 0.50 U | 0.40 J | 0.50 U | 0.51 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.4 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2011 | 8260 | HS | | 1.0 U | 0.43 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 4.8 | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 12/22/2011 | 524 | HS | | 0.50 U | 0.48 J | 0.50 U | 0.49 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 5.3 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/27/2012 | 524 | HS | | 0.50 U | 0.69 | 0.50 U | 0.68 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 5.3 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 1/25/2013 | 524 | HS | | 0.50 U | 0.77 | 0.50 U | 0.83 | 0.50 U | 0.50 U | 0.12 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 4.9 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/7/2013 | 524 | HS | | 0.50 U | 0.90 | 0.50 U | 0.93 | 0.50 U | 0.50 U | 0.12 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 3.6 | 0.50 U | 0.55 | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/24/2014 | 524 | HS | | 0.50 U | 0.81 | 0.50 U | 0.75 | 0.50 U | 0.50 U | 0.12 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 3.2 | 0.21 J | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/18/2014 | 524 | L | | 0.50 U | 0.26 J | 0.50 U | 0.25 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.4 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-10i | MW6-10i | 336 - 356 | 11/21/2002 | 8260 | L | | 1 U | 3.2 | 1 U | 0.83 J | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.41 J | 0.43 J | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U |
| | | | 10/24/2003 | 8260 | L | | 1 U | **7.5** | 1 U | 3.2 | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.57 J | 1 U | 1 U | 1 U | 0.5 UJ | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/24/2003 | 8260 | L - K | | 1 U | **7.5** | 1 U | 3.2 | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.32 J | 0.58 J | 1 U | 1 U | 1 U | **3.4 J** | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/27/2005 | 8260 | L | | 1 U | **9.3** | 1 U | 4.9 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 0.45 J | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/20/2005 | 8260 | L | | 1 U | 3.7 | 1 U | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/23/2006 | 8260 | L | | 1 U | 2.6 | 1 U | 1.6 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 0.59 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/11/2007 | 8260 | L | | 1 U | 3.4 | 1 U | 1.9 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 29 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/18/2007 | 8260 | L | | 1 U | **8.9** | 1 U | 5 | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 14 | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 7/18/2007 | 8260 | L - K | | 1 U | **9** | 1 U | 5.3 | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 13 | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/26/2008 | 524 | L | | 0.5 U | 5 | 0.5 U | 2.8 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | **1.3** | 12 | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/21/2010 | 8260 | L | | 1.1 | **35** | 1.0 U | **16** | 1.0 U | 1.0 U | 0.66 J | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.44 J | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 524 | L | | 0.87 | **38** | 0.50 U | **22** | 0.50 U | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 J | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/13/2011 | 8260 | L | | 1.0 | **37** | 1.0 U | **17** | 1.0 U | 1.0 U | 0.88 J | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.60 J | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 524 | HS | | 0.80 | **34** | 0.50 U | **20** | 0.50 U | 0.50 U | 0.77 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.39 J | 5.0 U | 0.50 U | 0.50 U | 0.22 J | 0.51 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/13/2011 | 8260 | HS | | 0.85 J | **32** | 1.0 U | **18** | 1.0 U | 1.0 U | 0.66 J | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.42 J | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.51 | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 12/22/2011 | 524 | HS | | 0.36 J | **18** | 0.50 U | **12** | 0.26 J | 0.50 U | 0.57 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.26 J | 5.0 U | 0.50 U | 0.50 U | 0.52 | 0.82 | 0.50 U | 0.21 J | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/27/2012 | 524 | HS | | 0.36 J | **12** | 0.50 U | **6.6** | 0.50 U | 0.50 U | 0.28 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.30 J | 0.84 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 1/25/2013 | 524 | HS | | 0.41 J | **15** | 0.50 U | **11** | 0.18 J | 0.50 U | 0.42 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.61 | 0.41 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/7/2013 | 524 | HS | | 0.65 | **27** | 0.50 U | **16** | 0.18 J | 0.50 U | 0.57 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.48 J | 0.93 | 0.58 | 1.1 | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/24/2014 | 524 | HS | | 1.6 | **13** | 0.50 U | **7.2** | 0.18 J | 0.50 U | 0.40 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.54 | 0.66 | 0.24 J | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/18/2014 | 524 | L | | 0.41 J | **31** | 0.50 U | **31** | 0.28 J | 0.50 U | 1.4 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.46 J | 0.26 J | 0.50 U | 0.50 U | 0.50 U | 0.35 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-12i | MW6-12i | 260 - 275 | 10/14/2002 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 0.35 J | 1 U | 1 U | 1 U | 1 U | 0.24 J | 0.16 J | 1 U | -- | 1 U | 1 U | 1 U |
| | | | 11/12/2002 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.27 J | 0.31 J | -- | 1 U | 1 U | 1 U |
| | | | 10/29/2003 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | **3** | 4.1 | 0.63 J | 2.6 | 1 U | 1 U | 0.43 J |
| | | | 6/15/2005 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 0.84 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/16/2005 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 0.6 J | 0.85 J | 0.33 J | 1.4 | 1 U | 1 U | 1 U |
| | | | 6/22/2006 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 0.44 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/22/2006 | 8260 | L - K | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 0.44 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/11/2007 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 0.58 J | 43 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/6/2007 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/8/2011 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2011 | 8260 | HS | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 12/22/2011 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/27/2012 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 1/25/2013 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/7/2013 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/24/2014 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/29/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-13i | MW6-13i | 246 - 261 | 12/6/2002 | 8260 | L | | 0.56 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.45 J | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/22/2003 | 8260 | L | | 0.85 J | 0.36 J | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.62 J | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/16/2005 | 8260 | L | | 0.85 J | 0.48 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.48 UJB | 0.51 J | 2 U | 1 U | 1 U | 1 U | 0.34 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/7/2006 | 8260 | L | | 1 | 0.5 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 0.58 J | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/10/2007 | 8260 | L | | 1.7 | 0.86 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 0.8 J | 2 U | 1 U | 1 U | 1 U | 14 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/5/2007 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 39 | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 12/21/2010 | 8260 | L | | 2.2 | 1.6 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.80 J | 0.35 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 524 | L | | 1.4 | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.66 J | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.29 J | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/13/2011 | 8260 | L | | 1.6 | 1.0 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.79 J | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/18/2011 | 524 | HS | | 1.7 | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.80 J | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.29 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/18/2011 | 8260 | HS | | 2.0 | 1.2 | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.79 J | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.39 J | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 1/3/2012 | 524 | HS | | 1.3 | 0.74 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.44 J | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.1 | 0.25 J | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/27/2012 | 524 | HS | | 1.6 | 0.99 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.21 J | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 1/25/2013 | 524 | HS | | 0.52 | 0.41 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/13/2013 | 524 | HS | | 1.2 | 0.85 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.19 J | 0.50 U | 0.50 U | 0.50 U | 0.80 | 0.50 U | 1.1 | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/24/2014 | 524 | HS | | 0.98 | 0.54 | 0.50 U | 0.060 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.28 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.67 | 0.23 J | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/29/2014 | 524 | L | | 0.72 | 0.79 | 0.50 U | 0.12 | 0.12 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.96 | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW6-17i | MW6-17i | 212 - 232 | 2/10/2003 | 8260 | | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 0.36 J | 1 U | 1 U |
| | | | 2/24/2003 | 8260 | | | **67** | **15** | 1 U | **6.8** | 1.4 | 1 U | 0.95 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.37 J | 1.2 | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/28/2003 | 8260 | L | | **55** | **14** | 1 U | **9.1** | 1.6 | 1 U | 0.99 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.39 J | 1.4 | 1 U | 1 U | **1.3** | 10 | 3.1 | 15 | 1.8 | 1.1 | 4.7 |
| | | | 10/28/2003 | 8260 | L - K | | **51** | **13** | 1 U | **8.5** | 1.4 | 1 U | 0.92 J | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.36 J | 1.4 | 1 U | 1 U | **1.2** | 9.6 | 2.9 | 14 | 1.1 | 0.93 J | 3.9 |
| | | | 6/14/2005 | 8260 | L | | **29** | **7.5** | 1 U | **7** | 0.82 J | 1 U | 0.71 J | 1 U | 1 U | 1 U | 2 U | 1 U | 1.3 J | 1 U | 1 U | 0.55 J | 1.7 | 1 U | 0.84 J | 1 U | 1 U | 1 U |
| | | | 12/19/2005 | 8260 | L | | **32** | **6.8** | 1 U | 5.8 | 0.99 J | 1 U | 0.6 J | 1 U | 1 U | 1 U | 2 U | 1 U | 1.1 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/20/2006 | 8260 | L | | **31** | **6.9** | 1 U | **6.7** | 1.2 | 1 U | 0.71 J | 1 U | 1 U | 1 U | 2 U | 1 U | 1.2 J | 1 U | 1 U | 0.38 J | 2 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/8/2007 | 8260 | L | | **33** | **8.4** | 1 U | **6.1** | 1.2 | 1 U | 0.69 J | 1 U | 1 U | 1 U | 2 U | 0.34 J | 1.3 J | 1 U | 1 U | 1 U | 1.8 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/18/2007 | 8260 | L | | **19** | **6.8** | 1 U | 5.5 | 1.1 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.66 | 7.3 | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/8/2011 | 524 | HS | | **14** | 3.9 | 0.50 U | 2.8 | 0.76 | 0.50 U | 0.34 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2011 | 8260 | HS | | **18** | 4.5 | 1.0 U | 2.2 | 0.74 J | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 12/22/2011 | 524 | HS | | **12** | 3.1 | 0.50 U | 1.6 | 0.53 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-1A | MW6-09i | 350 - 370 | 11/22/2002 | 8260 | L | | 1 U | 1.7 | 1 U | 1 U | 1 U | 1 U | 1 U | 0.22 J | 0.5 U | 0.5 U | 1 U | 0.19 J | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | -- | 1 U | 1 U | 1 U |
| | | | 11/22/2002 | 8260 | L - K | | 1 U | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 0.32 J | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/24/2003 | 8260 | L | | 1 U | 1.2 | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/16/2005 | 8260 | L | | 1 U | 0.73 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/16/2005 | 8260 | L - K | | 1 U | 0.78 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/15/2005 | 8260 | L | | 1 U | 0.42 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/22/2006 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/10/2007 | 8260 | L | | 1 U | 0.34 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 37 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/10/2007 | 8260 | L - K | | 1 U | 0.32 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 37 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/6/2007 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 68 | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/25/2008 | 524 | L | | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 59 | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 12/20/2010 | 8260 | L | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.62 | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 8/8/2011 | 524 | HS | | 0.50 U | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 6.6 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2011 | 8260 | HS | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 7.9 | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 12/22/2011 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 39 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/27/2012 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 17 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 1/25/2013 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 15 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/7/2013 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 16 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/26/2014 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 8.0 | 0.21 J | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/19/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.7 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-1B | MW6-09UI2 | 380 - 420 | 8/14/2013 | 524 | L | | 0.83 | **33** | 0.50 U | **18** | 0.19 J | 0.50 U | 0.74 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.29 J | 0.42 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.72 | 0.50 U | 0.50 U |
| | | | 2/11/2014 | 524 | L | | 3.7 | **25** | 0.50 U | **16** | 0.17 J | 0.50 U | 0.66 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.34 J | 0.33 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/20/2014 | 524 | L | | 0.50 U | **8.3** | 0.50 U | **7.4** | 0.12 J | 0.50 U | 0.39 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.57 | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-1C | MW6-09LI | 435 - 450 | 8/14/2013 | 524 | L | | 0.55 | 0.80 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.23 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.83 | 0.50 U | 0.50 U |
| | | | 2/11/2014 | 524 | L | | 4.5 | 1.2 | 0.50 U | 0.28 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/20/2014 | 524 | L | | 0.50 U | 0.43 J | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.13 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-2A | MW6-22UI | 302 - 317 | 1/24/2013 | 524 | | | **44** | **9.7** | 0.50 U | **6.7** | 1.5 | 0.50 U | 0.53 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.4 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/12/2013 | 524 | L | | **51** | **12** | 0.50 U | **7.4** | 1.8 | 0.50 U | 0.55 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.6 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/12/2013 | 524 | L - K | | **48** | **11** | 0.50 U | **7.1** | 1.7 | 0.50 U | 0.52 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.6 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/12/2014 | 524 | L | | **12** | **7.0** | 0.50 U | **6.6** | 1.6 | 0.50 U | 0.49 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.39 J | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.68 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/12/2014 | 524 | L - K | | **13** | **6.9** | 0.50 U | **6.7** | 1.5 | 0.50 U | 0.48 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.38 J | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.57 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/27/2014 | 524 | L | | **16** | **7.4** | 0.50 U | 5.4 | 1.4 | 0.50 U | 0.48 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.37 J | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/27/2014 | 524 | L - K | | **18** | **7.6** | 0.50 U | 5.4 | 1.4 | 0.50 U | 0.47 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.37 J | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-2B | MW6-22LI1 | 348 - 358 | 1/25/2013 | 524 | L | | 1.2 | 0.94 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/12/2013 | 524 | L | | 2.0 | 1.9 | 0.50 U | 0.25 J | 0.15 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.26 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/13/2014 | 524 | L | | 0.26 J | 0.55 | 0.50 U | 0.090 | 0.11 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.33 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/27/2014 | 524 | L | | 0.64 | 1.4 | 0.50 U | 0.19 | 0.11 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.19 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-2C | MW6-22LI2 | 380 - 390 | 1/24/2013 | 524 | | | 2.5 | 2.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/13/2013 | 524 | L | | 3.4 | **5.1** | 0.50 U | 1.0 | 0.87 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.90 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.73 | 0.50 U | 0.50 U |
| | | | 2/12/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.070 | 0.11 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.73 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/27/2014 | 524 | L | | 0.73 | 1.2 | 0.50 U | 0.17 | 0.19 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-2D | MW6-22D | 452 - 462 | 1/25/2013 | 524 | | | 0.56 | 0.97 | 0.50 U | 0.17 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/12/2013 | 524 | L | | 1.9 | 1.5 | 0.50 U | 0.71 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.54 | 0.80 | 0.50 U | 0.50 U |
| | | | 2/13/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.14 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.85 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/28/2014 | 524 | L | | 0.21 J | 0.21 J | 0.50 U | 0.11 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-3A | MW6-23UI | 338 - 348 | 4/19/2013 | 524 | | | **53** | **15** | 0.5 U | **10** | 2.1 | 0.5 U | 1.1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1.5 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 8/15/2013 | 524 | L | | **40** | **17** | 0.50 U | **11** | 2.5 | 0.50 U | 0.99 | 0.50 U | 0.50 U | 0.50 U | 0.11 J | 0.50 U | 2.4 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.72 | 0.50 U | 0.50 U |
| | | | 2/14/2014 | 524 | L | | **7.4** | **6.3** | 0.50 U | **7.4** | 2.1 | 0.50 U | 0.78 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.40 J | 0.48 J | 0.50 U | 0.50 U | 0.50 U | 0.72 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/26/2014 | 524 | L | | **20** | **9.5** | 0.50 U | **8.5** | 1.9 | 0.50 U | 0.93 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.44 J | 1.7 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-3B | MW6-23LI | 434 - 444 | 2/1/2013 | 524 | | | **23** | 3.2 | 0.50 U | 0.17 J | 0.52 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.39 J | 0.50 U | 0.50 U | 0.20 J | 12 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/16/2013 | 524 | L | | **6.1** | 3.6 | 0.50 U | 0.45 J | 0.48 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.32 J | 0.50 U | 0.49 J | 0.50 U | 0.50 U | 0.50 U | 0.86 | 0.50 U | 0.50 U | 0.79 | 0.50 U | 0.50 U |
| | | | 2/14/2014 | 524 | L | | 0.65 | 0.86 | 0.50 U | 0.13 | 0.29 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 2.0 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/26/2014 | 524 | L | | 1.4 | 1.6 | 0.50 U | 0.18 | 0.28 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.25 J | 0.50 U | 0.50 U | 0.50 U | 1.0 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-3C | MW6-23D | 490 - 500 | 1/31/2013 | 524 | | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 3.6 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/16/2013 | 524 | L | | 2.2 | 0.65 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.74 | 0.50 U | 0.50 U | 0.63 | 0.50 U | 0.50 U |
| | | | 2/21/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.91 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/26/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.67 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-4A | MW6-24UI | 320 - 335 | 2/11/2013 | 524 | L | | **10** | 1.7 | 0.50 U | 1.7 | 0.14 J | 0.50 U | 0.20 J | 0.17 J | 0.13 J | 0.50 U | 0.50 U | 2.1 | 0.20 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/9/2013 | 524 | L | | **8.9** | 1.7 | 0.50 U | 1.5 | 0.11 J | 0.50 U | 0.14 J | 0.13 J | 0.29 J | 0.50 U | 0.50 U | 2.8 | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/20/2014 | 524 | L | | 2.3 | 1.1 | 0.50 U | 1.5 | 0.14 J | 0.50 U | 0.19 J | 0.14 | 0.090 | 0.50 U | 0.50 U | 2.7 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/25/2014 | 524 | L | | 2.9 | 2.8 | 0.50 U | 2.2 | 0.20 J | 0.50 U | 0.27 J | 0.17 | 0.050 U | 0.50 U | 0.50 U | 2.8 | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-4B | MW6-24LI | 365 - 375 | 2/4/2013 | 524 | L | | **28** | **26** | 0.50 U | **26** | 2.6 | 0.16 J | 2.3 | 0.44 J | 0.13 J | 0.50 U | 0.50 U | 1.8 | 1.4 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/12/2013 | 524 | L | | **8.8** | **18** | 0.50 U | **18** | 1.9 | 0.11 J | 1.4 | 0.31 J | 0.50 U | 0.50 U | 0.50 U | 1.6 | 0.87 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.83 | 0.50 U | 0.50 U |
| | | | 2/21/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 1.8 | 0.48 J | 0.50 U | 1.1 | 0.30 | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.15 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/25/2014 | 524 | L | | 0.50 U | 0.21 J | 0.50 U | 1.6 | 0.49 J | 0.50 U | 1.2 | 0.25 | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-5A | MW6-25UI | 338 - 348 | 4/18/2013 | 524 | | | **8.7** | **16** | 0.5 U | **10** | 1.6 | 0.5 U | 0.98 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.12 J | 0.84 | 0.5 U | 0.5 U | 0.5 U | 0.38 J | 0.5 U | 0.5 U | 0.5 U | 0.4 J | 0.41 J |
| | | | 8/19/2013 | 524 | L | | 4.4 | **13** | 0.50 U | **10** | 1.5 | 0.50 U | 0.92 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.16 J | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/14/2014 | 524 | L | | **8.7** | **18** | 0.50 U | **13** | 2.4 | 0.50 U | 0.94 | 0.070 | 0.050 U | 0.50 U | 0.50 U | 0.72 | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/21/2014 | 524 | L | | 2.8 | **15** | 0.50 UJ | **8.9** | 2.5 | 0.50 U | 1.0 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.68 | 0.92 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-5B | MW6-25LI | 388 - 398 | 3/1/2013 | 524 | | | 0.42 J | 1.4 | 0.50 U | 0.28 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/19/2013 | 524 | L | | 1.1 | 0.40 J | 0.50 U | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/14/2014 | 524 | L | | 1.9 | 1.3 | 0.50 U | 0.49 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.11 | 0.50 U | 0.50 U | 0.97 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/21/2014 | 524 | L | | 0.50 U | 0.21 J | 0.50 UJ | 0.38 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-6 | MW6-26UI | 362 - 372 | 4/26/2013 | 524 | | | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 8/9/2013 | 524 | L | | 0.21 J | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/9/2013 | 524 | L - K | | 0.27 J | 0.34 J | 0.50 U | 0.27 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/17/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.080 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.4 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/17/2014 | 524 | L - K | | 0.50 U | 0.50 U | 0.50 U | 0.070 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.4 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/3/2014 | 524 | L | | 0.50 U | **10** | 0.50 U | **7.5** | 0.50 U | 0.50 U | 0.57 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/3/2014 | 524 | L - K | | 0.50 U | **9.4** | 0.50 U | **6.8** | 0.50 U | 0.50 U | 0.56 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-7A | MW6-27UI1 | 288 - 308 | 8/7/2013 | 524 | L | | **25** | **16** | 0.50 U | **22** | 1.7 | 0.13 J | 1.6 | 0.42 J | 0.20 J | 0.50 U | 0.50 U | 1.6 | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2/19/2014 | 524 | L | | **6.4** | 3.4 | 0.50 U | **8.5** | 0.61 | 0.50 U | 0.70 | 0.33 | 0.19 | 0.50 U | 0.50 U | 2.0 | 0.40 J | 0.50 U | 0.50 U | 0.50 U | 0.64 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/7/2014 | 524 | | | 4.1 | 2.9 | 0.50 | **6.3** | 0.43 | 0.50 | 0.54 | 0.050 | 0.050 | 0.50 | 0.50 | 1.8 | 0.38 | 0.50 | 0.50 | 0.50 | 0.16 | 0.38 | 1.0 | 0.50 | 0.50 | 0.50 |
| | | | 7/24/2014 | 524 | L | | **5.2** | **5.2** | 0.50 U | **9.4** | 0.80 | 0.50 U | 0.92 | 0.34 | 0.10 | 0.50 U | 0.50 U | 2.0 | 0.48 J | 0.50 U | 0.50 U | 0.50 U | 0.37 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/24/2014 | 524 | | | 2.6 | 1.9 | 0.50 U | 3.8 | 0.31 J | 0.50 U | 0.40 J | 0.23 | 0.11 | 0.50 U | 0.50 U | 1.4 | 0.29 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.33 J | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-7B | MW6-27UI2 | 320 - 330 | 8/7/2013 | 524 | L | | **34** | **44** | 0.50 U | **51** | 4.9 | 0.22 J | 3.7 | **0.54** | 0.13 J | 0.50 U | 0.50 U | 1.2 | 2.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/20/2014 | 524 | L | | 1.0 | 3.4 | 0.50 U | **13** | 3.6 | 0.50 U | 2.2 | 0.36 | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.20 J | 0.54 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/9/2014 | 524 | | | 3.9 | **8.2** | 0.50 | **22** | 4.3 | 0.14 | 2.9 | 0.050 | 0.050 | 0.50 | 0.50 | 0.17 | 0.50 | 0.50 | 0.50 | 0.28 | 0.75 | 0.41 | 1.0 | 0.50 | 0.50 | 0.50 |
| | | | 7/24/2014 | 524 | L | | **7.2** | **22** | 0.50 U | **37** | 4.2 | 0.15 J | 3.6 | 0.46 | 0.050 U | 0.50 U | 0.50 U | 1.8 | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.42 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/24/2014 | 524 | | | 3.3 | **9.1** | 0.50 U | **20** | 4.1 | 0.11 J | 2.6 | 0.38 | 0.050 U | 0.50 U | 0.50 U | 0.13 J | 0.50 U | 0.50 U | 0.50 U | 0.22 J | 0.69 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/24/2014 | 524 | K | | 3.3 | **9.2** | 0.50 U | **20** | 4.1 | 0.11 J | 2.6 | 0.37 | 0.050 U | 0.50 U | 0.50 U | 0.14 J | 0.50 U | 0.50 U | 0.50 U | 0.22 J | 0.70 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-7C | MW6-27LI1 | 347 - 362 | 8/8/2013 | 524 | L | | **47** | **50** | 0.50 U | **110** | **13** | 0.23 J | **9.5** | **0.55** | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 2.6 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/18/2014 | 524 | L | | 0.67 | 1.6 | 0.50 U | **21** | 3.4 | 0.50 U | **7.8** | 0.48 | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | **1.6** | 0.28 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/9/2014 | 524 | | | 1.7 | 4.5 | 0.50 | **29** | 3.6 | 0.50 | **7.8** | 0.050 | 0.050 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | **1.9** | 0.28 | 0.39 | 1.0 | 0.50 | 0.50 | 0.50 |
| | | | 7/25/2014 | 524 | L | | 4.6 | **23** | 0.50 U | **66** | **8.4** | 0.15 J | **8.2** | **0.54** | 0.050 U | 0.50 U | 0.50 U | 0.52 | 0.86 | 0.50 U | 0.50 U | 0.64 | 0.45 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/24/2014 | 524 | | | **9.2** | **39** | 0.50 U | **100** | **10** | 0.16 J | **8.5** | **0.58** | 0.050 U | 0.50 U | 0.50 U | 0.63 | 1.5 | 0.50 U | 0.50 U | 0.20 J | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-7D | MW6-27LI2 | 377 - 387 | 8/6/2013 | 524 | L | | **21** | **53** | 0.50 U | **130** | **8.5** | 0.11 J | **11** | **0.52** | 0.50 U | 0.50 U | 0.50 U | 0.17 J | 2.4 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/6/2013 | 524 | L - K | | **21** | **54** | 0.50 U | **130** | **8.5** | 0.13 J | **11** | **0.53** | 0.50 U | 0.50 U | 0.50 U | 0.17 J | 2.4 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/19/2014 | 524 | L | | 1.0 J | **7.6 J** | 0.50 U | **58** | 5.3 | 0.50 U | **7.8** | 0.41 | 0.050 U | 0.50 U | 0.50 U | 0.22 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.43 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/19/2014 | 524 | L - K | | 2.1 J | **20 J** | 0.50 U | **71** | 5.8 | 0.50 U | **7.7** | 0.42 | 0.050 U | 0.50 U | 0.50 U | 0.40 J | 0.89 | 0.50 U | 0.50 U | 0.50 U | 0.40 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/7/2014 | 524 | | | 1.4 | **16** | 0.50 | **62** | 4.3 | 0.50 | **6.5** | 0.050 | 0.050 | 0.50 | 0.50 | 0.34 | 0.74 | 0.50 | 0.50 | 0.50 | 0.50 | 0.37 | 1.0 | 0.50 | 0.50 | 0.50 |
| | | | 9/23/2014 | 524 | | | 4.0 | **30** | 0.50 U | **67** | 4.3 | 0.50 U | **6.3** | 0.33 | 0.050 U | 0.50 U | 0.50 U | 0.35 J | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-7E | MW6-27D | 434 - 444 | 8/5/2013 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/20/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.14 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.20 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/19/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-8A | MW6-28UI | 340 - 360 | 10/25/2013 | 524 | L | | **26** | **8.0** | 0.50 U | **7.8** | 1.1 | 0.50 U | 0.76 | 0.50 U | 0.25 J | 0.50 U | 0.50 U | 0.39 J | 1.5 | 0.50 U | 0.50 U | 0.50 U | 0.34 J | 0.52 | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/10/2014 | 524 | L | | **24** | **7.6** | 0.50 U | **8.9** | 0.97 | 0.50 U | 0.70 | 0.050 U | 0.34 | 0.50 U | 0.50 U | 0.50 U | 1.6 | 0.50 U | 0.50 U | 0.50 U | 0.17 J | 0.50 U | 1.0 U | 2.4 | 0.50 U | 0.50 U |
| | | | 9/3/2014 | 524 | L | | **18** | **7.4** | 0.50 U | **7.5** | 0.99 | 0.50 U | 0.78 | 0.050 U | 0.25 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-8B | MW6-28LI | 454 - 464 | 10/25/2013 | 524 | L | | **32** | **11** | 0.50 U | **9.1** | 1.3 | 0.50 U | 0.51 | 0.50 U | **0.54** | 0.50 U | 0.50 U | 0.45 J | 1.9 | 0.50 U | 0.50 U | 0.50 U | 0.34 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/10/2014 | 524 | L | | **21** | **9.0** | 0.50 U | **8.4** | 1.1 | 0.50 U | 0.47 J | 0.080 | **0.75** | 0.50 U | 0.50 U | 0.15 J | 1.8 | 0.50 U | 0.50 U | 0.50 U | 0.24 J | 0.50 U | 1.0 U | 2.9 | 0.50 U | 0.50 U |
| | | | 9/3/2014 | 524 | L | | **9.4** | **7.2** | 0.50 U | **6.5** | 1.0 | 0.50 U | 0.50 U | 0.050 U | 0.45 | 0.50 U | 0.50 U | 0.52 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-9A | MW6-29UI | 365 - 385 | 8/9/2013 | 524 | L | | 0.50 U | 2.6 | 0.50 U | 0.96 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.66 | 0.50 U | 0.50 U |
| | | | 2/17/2014 | 524 | L | | 0.50 U | 0.57 | 0.50 U | 0.54 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 7.4 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/14/2014 | 524 | L | | 0.50 U | 0.95 J | 0.50 U | 0.98 | 0.50 U | 0.50 U | 0.16 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 6.6 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-9B | MW6-29LI | 412 - 432 | 8/8/2013 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.66 | 0.50 U | 0.50 U |
| | | | 2/17/2014 | 524 | L | | 1.3 | 0.38 J | 0.50 U | 0.12 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/14/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.23 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/14/2014 | 524 | L - K | | 0.50 U | 0.50 U | 0.50 U | 0.21 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-9C | MW6-29D | 475 - 490 | 8/9/2013 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/17/2014 | 524 | L | | 1.4 | 0.55 | 0.50 U | 0.15 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.28 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/14/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.21 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 6.6 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-10 | PMW-6 | 258 - 278 | 11/15/2013 | 524 | | | 4.3 | 0.27 J | 0.50 U | 0.35 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.16 J | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.27 J | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/12/2014 | 524 | L | | **12** | 1.8 | 0.50 U | 1.3 | 0.50 U | 0.50 U | 0.50 U | 0.17 | 0.25 | 0.50 U | 0.50 U | 2.2 | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/12/2014 | 524 | L - K | | **12** | 1.8 | 0.50 U | 1.3 | 0.50 U | 0.50 U | 0.50 U | 0.15 | 0.25 | 0.50 U | 0.50 U | 2.2 | 0.21 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/2/2014 | 524 | L | | **7.5** | 0.61 | 0.50 U | 0.90 | 0.50 U | 0.50 U | 0.12 J | 0.15 | 0.17 | 0.50 U | 0.50 U | 2.5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/2/2014 | 524 | L - K | | **7.9** | 0.63 | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.12 J | 0.18 | 0.19 | 0.50 U | 0.50 U | 2.5 | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-11A | PMW-7A | 390 - 410 | 2/18/2014 | 524 | L | | 4.6 | **6.9** | 0.50 U | 3.9 | 0.35 J | 0.50 U | 0.24 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 | 0.39 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/22/2014 | 524 | L | | 2.1 | 4.2 | 0.50 U | 3.2 | 0.61 | 0.50 U | 0.31 J | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.46 J | 0.51 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-11B | PMW-7B | 460 - 470 | 3/10/2014 | 524 | L | | 1.2 | 1.5 | 0.50 U | 0.050 U | 0.12 J | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.28 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/22/2014 | 524 | L | | 0.50 U | 0.27 J | 0.50 U | 0.17 | 0.50 U | 0.50 U | 0.50 U | 0.19 | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-12A | PMW-8A | 390 - 410 | 2/13/2014 | 524 | L | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/5/2014 | 524 | L | | 0.50 U | 0.57 | 0.50 U | 0.25 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.13 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.83 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-12B | PMW-8B | 460 - 470 | 2/13/2014 | 524 | L | | 2.7 | 0.50 U | 0.50 U | 0.26 U | 0.50 U | 0.50 U | 0.50 U | 0.35 | 0.20 | 0.50 U | 0.50 U | 0.30 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.9 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/5/2014 | 524 | L | | 0.50 U | 1.7 | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.31 | 0.11 | 0.50 U | 0.50 U | 0.28 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 3.7 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-13A | PMW-5A | 303 - 313 | 3/28/2014 | 524 | L | | **20** | **21** | 0.50 U | **16** | 2.9 | 0.12 J | 2.2 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.90 | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/4/2014 | 524 | L | | **20** | **24** | 0.50 U | **27** | 3.5 | 0.14 J | 2.5 | **0.52** | 0.050 U | 0.50 U | 0.50 U | 1.1 | 1.7 | 0.50 U | 0.50 U | 0.50 U | 0.32 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-13B | PMW-5B | 323 - 333 | 3/26/2014 | 524 | L | | **20** | **20** | 0.50 U | **16** | 2.7 | 0.50 U | 2.0 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 1.0 | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.49 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/4/2014 | 524 | L | | **21** | **20** | 0.50 U | **20** | 2.9 | 0.14 J | 2.2 | 0.50 | 0.050 U | 0.50 U | 0.50 U | 1.2 | 1.6 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MW7-15A | MW6-16i | 304 - 314 | 12/24/2002 | 8260 | L | | 0.46 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/23/2003 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/13/2005 | 8260 | L | | 0.31 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/19/2005 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 6/20/2006 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/9/2007 | 8260 | L | | 0.85 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 27 | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/5/2007 | 8260 | L | | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 2.1 | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/25/2008 | 524 | L | | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 12/22/2010 | 8260 | L | | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.66 | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/8/2011 | 524 | L | | 0.88 | 0.35 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/8/2011 | 8260 | L | | 1.3 | 0.39 J | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U | 1.5 U | 1.0 U | 1.0 U | 1.0 U |
| | | | 12/22/2011 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 7/27/2012 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 2/8/2013 | 8260 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 UJ | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/7/2013 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/26/2014 | 524 | HS | | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/2/2014 | 524 | L | | 1.9 | 1.2 | 0.50 U | 0.27 | 0.50 U | 0.50 U | 0.50 U | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.19 J | 0.24 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| S11A | S11A | 190 - 220 | 3/19/2014 | 524 | L | | 7.2 | 9.5 | 0.50 U | 3.7 | 3.1 | 0.50 U | 0.52 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.74 | 0.31 J | 0.50 U | 0.50 U | 0.50 U | 0.15 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 8/28/2014 | 524 | L | | 7.2 | 8.4 | 0.50 U | 3.5 | 2.3 | 0.50 U | 0.46 J | 0.060 | 0.050 U | 0.50 U | 0.50 U | 0.75 | 0.28 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| IZ-1 | IZ-1 | 278 - 368 | 12/6/2006 | 8260 | | | 7 | 4.7 | 1 U | 1.3 | 1 | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 0.88 J | 1 U | 1 U | 1 U | 0.45 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 12/14/2006 | 8260 | | | 10 | 7.2 | 1 U | 1.8 | 1.4 | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 0.33 J | 1.4 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/23/2007 | 8260 | | | 11 | 8.9 | 1 U | 3.7 | 3 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/15/2008 | 524 | | | 16 | 9.8 | 0.5 U | 3.3 | 2.8 | 0.5 U | 0.18 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.47 J | 0.61 | 0.5 U | 0.5 U | 0.5 U | 0.023 JB | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 8/28/2008 | 524 | | | 19 | 12 | 0.5 U | 4.6 | 3.6 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.73 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 5/8/2012 | 524 | | | 11 | 7.4 | 0.50 U | 2.6 | 2.3 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/8/2012 | 524 | EP | | 9.4 | 6.9 | 0.50 U | 2.7 | 2.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/19/2013 | 524 | | | 14 | 8.0 | 0.50 U | 2.8 | 2.2 | 0.50 U | 0.14 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.40 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/19/2013 | 8260 | | | 11 | 7.2 | 0.50 U | 3.1 | 2.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.51 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| IZ-2 | IZ-2 | 305 - 385 | 10/9/2006 | 8260 | | | 1.8 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/13/2006 | 8260 | | | 0.4 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/12/2007 | 8260 | | | 2.4 | 1.5 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 2 U | 1 U | 2 U | 1 U | 1 U | 1 U | 0.69 J | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/24/2007 | 8260 | | | 2.2 | 1.2 | 1 U | 1 U | 1 U | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1.6 | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/9/2008 | 524 | | | 4.2 | 2.2 | 0.5 U | 0.6 | 0.26 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.2 J | 0.27 J | 0.5 U | 0.5 U | 0.5 U | 1.4 | 0.5 U | 1 U | 0.047 JB | 0.5 U | 0.5 U |
| | | | 9/2/2008 | 524 | | | 2.8 | 1.4 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 5/7/2012 | 524 | | | 3.2 | 2.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/7/2012 | 524 | EP | | 4.3 | 2.3 | 0.50 U | 0.63 | 0.42 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.23 J | 0.50 U | 0.50 U | 0.50 U | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/18/2013 | 524 | | | 6.7 | 2.4 | 0.50 U | 0.90 | 0.32 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.33 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/18/2013 | 8260 | | | 5.4 | 2.1 | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| IZ-East | IZ-East | 288 - 385 | 8/28/2006 | 8260 | | | 40 | 39 | 1 U | 68 | 5.5 | 1 U | 4.7 | 0.66 J | 1 U | 1 U | 2 U | 1.6 | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 10/2/2006 | 8260 | | | 34 | 33 | 1 U | 66 | 4.4 | 1 U | 4.5 | 0.59 J | 1 U | 1 U | 2 U | 1.7 | 1.7 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/26/2007 | 8260 | | | 39 | 45 | 0.23 J | 85 | 6.6 | 1 U | 5.7 | 0.54 J | 1 U | 1 U | 2 U | 1.4 | 1.7 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/26/2007 | 8260 | | | 38 | 50 | 1 U | 110 | 7.3 | 1 U | 7.3 | 0.58 | 0.5 U | 0.5 U | 10 U | 1.6 | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 7/26/2007 | 8260 | K | | 39 | 50 | 1 U | 110 | 7 | 1 U | 7.8 | 0.63 | 0.5 U | 0.5 U | 10 U | 1.6 | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/10/2008 | 524 | | | 46 | 68 | 0.5 U | 200 | 14 | 0.22 J | 16 | 0.5 U | 0.5 U | 0.13 J | 0.5 U | 0.73 | 2.7 | 0.5 U | 0.5 U | 0.082 J | 0.16 UB | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 1/10/2008 | 524 | K | | 43 | 69 | 0.61 | 200 | 14 | 0.24 J | 16 | 0.83 | 0.5 U | 0.11 J | 0.5 U | 0.73 | 2.4 | 0.5 U | 0.5 U | 0.076 J | 0.12 UB | 0.5 U | 1 U | 0.053 UB | 0.5 U | 0.5 U |
| | | | 8/29/2008 | 524 | | | 44 | 67 | 0.5 U | 210 | 12 | 0.62 | 15 | 0.73 | 0.5 U | 0.5 U | 0.5 U | 0.79 | 2.7 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 8/29/2008 | 524 | K | | 64 | 97 | 0.5 U | 300 | 13 | 0.7 | 16 | 0.78 | 0.5 U | 0.5 U | 0.5 U | 0.84 | 2.8 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 5/9/2012 | 524 | | | 37 | 47 | 0.50 U | 110 | 6.3 | 0.50 U | 6.8 | 0.46 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 2.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/9/2012 | 524 | S | | 34 | 44 | 0.50 U | 100 | 7.3 | 0.16 J | 7.1 | 0.47 J | 0.50 U | 0.50 U | 0.50 U | 0.92 | 1.9 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/9/2012 | 524 | EP | | 27 | 38 | 0.50 U | 120 | 5.8 | 0.50 U | 6.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/20/2013 | 524 | | | 39 | 47 | 0.50 U | 110 | 7.5 | 0.17 J | 8.2 | 0.47 J | 0.50 U | 0.50 U | 0.50 U | 0.98 U | 2.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/20/2013 | 8260 | | | 36 | 48 | 0.50 U | 150 | 8.4 | 0.50 U | 9.0 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 0.91 U | 2.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/20/2013 | 524 | S | | 36 | 46 | 0.50 U | 110 | 7.7 | 0.19 J | 8.3 | 0.50 | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 2.0 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| IZ-East LIZ1 | IZ-East LIZ1 | 324 - 342 | 3/7/2014 | 524 | L | | 43 | 45 | 0.12 J | 140 | 9.6 | 0.20 J | 11 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.69 | 3.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/8/2014 | 524 | | | 42 | 42 | 0.11 | 140 | 8.7 | 0.20 | 11 | 0.050 | 0.050 | 0.50 | 0.50 | 0.66 | 3.0 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 1.0 | 0.50 | 0.50 | 0.50 |
| | | | 7/24/2014 | 524 | | | 47 | 50 | 0.11 J | 140 | 11 | 0.20 J | 12 | 0.51 | 0.050 U | 0.50 U | 0.50 U | 0.83 | 2.9 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/23/2014 | 524 | | | 46 | 53 | 0.50 U | 140 | 9.2 | 0.20 J | 11 | 0.49 | 0.050 U | 0.50 U | 0.50 U | 0.64 | 3.8 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| IZ-East LIZ2 | IZ-East LIZ2 | 375 - 385 | 3/7/2014 | 524 | L | | 11 | 34 | 0.50 U | 120 | 9.1 | 0.18 J | 10 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.66 | 2.0 | 0.50 U | 0.50 U | 0.50 U | 0.48 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 3/7/2014 | 524 | L - K | | 10 | 34 | 0.50 U | 120 | 9.1 | 0.19 J | 10 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.68 | 2.0 | 0.50 U | 0.50 U | 0.50 U | 0.47 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/8/2014 | 524 | | | 5.8 | 12 | 0.50 | 100 | 7.8 | 0.12 | 9.9 | 0.050 | 0.050 | 0.24 | 0.50 | 0.34 | 0.37 | 0.50 | 0.50 | 0.50 | 0.25 | 0.37 | 1.0 | 0.50 | 0.50 | 0.50 |
| | | | 5/8/2014 | 524 | K | | 9.6 | 23 | 0.50 | 120 | 9.3 | 0.16 | 12 | 0.050 | 0.050 | 0.50 | 0.24 | 0.57 | 1.3 | 0.50 | 0.50 | 0.50 | 0.20 | 0.37 | 1.0 | 0.50 | 0.50 | 0.50 |
| | | | 7/23/2014 | 524 | | | 9.3 | 20 | 0.50 U | 110 | 9.2 | 0.12 J | 11 | 0.44 | 0.050 UJ | 0.50 U | 0.50 U | 0.58 | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.44 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 7/23/2014 | 524 | K | | 12 | 29 | 0.50 U | 100 | 9.4 | 0.13 J | 11 | 0.44 | 0.050 UJ | 0.50 U | 0.50 U | 0.67 | 1.8 | 0.50 U | 0.50 U | 0.50 U | 0.42 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/23/2014 | 524 | | | 1.9 | 4.0 | 0.50 U | 66 | 7.4 | 0.50 U | 9.1 | 0.53 | 0.050 U | 0.35 J | 0.50 U | 0.18 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| IZ-East UIZ | IZ-East UIZ | 288 - 310 | 3/7/2014 | 524 | L | | 12 | 36 | 0.50 U | 81 | 8.9 | 0.57 | 11 | 0.050 U | 0.050 U | 0.50 U | 0.50 U | 0.68 | 2.4 | 0.50 U | 0.50 U | 0.50 U | 1.2 | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/8/2014 | 524 | | | 19 | 43 | 0.50 | 130 | 9.2 | 0.23 | 11 | 0.050 | 0.050 | 0.50 | 0.50 | 0.69 | 2.5 | 0.50 | 0.50 | 0.50 | 0.50 | 0.50 | 1.0 | 0.50 | 0.50 | 0.50 |
| | | | 7/23/2014 | 524 | | | 12 | 41 | 0.50 U | 120 | 11 | 0.16 J | 12 | 0.56 | 0.050 UJ | 0.50 U | 0.50 U | 0.82 | 2.0 | 0.50 U | 0.50 U | 0.50 U | 0.39 J | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/23/2014 | 524 | | | 10 | 40 | 0.50 U | 130 | 9.3 | 0.18 J | 11 | 0.49 | 0.050 U | 0.50 U | 0.50 U | 0.65 | 3.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MZ-1 | MZ-1 | 180 - 220 | 12/20/2006 | 8260 | | | 52 | 13 | 1 U | 7.9 | 3.7 | 1 U | 0.46 J | 1 U | 1 U | 1 U | 2 U | 0.36 J | 1.4 J | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/20/2007 | 8260 | | | 38 | 11 | 1 U | 3.1 | 4.1 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/15/2008 | 524 | | | 43 | 14 | 0.5 U | 4.4 | 4.7 | 0.5 U | 0.33 J | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.41 J | 0.86 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 8/28/2008 | 524 | | | 41 | 15 | 0.5 U | 5.1 | 4.8 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1.1 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 5/8/2012 | 524 | | | 36 | 9.7 | 0.50 U | 3.3 | 2.5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/8/2012 | 524 | EP | | 33 | 9.3 | 0.50 U | 2.6 | 2.6 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/19/2013 | 524 | | | 41 | 11 | 0.50 U | 3.7 | 3.0 | 0.50 U | 0.27 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.83 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/19/2013 | 8260 | | | 36 | 10 | 0.50 U | 4.5 | 2.8 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.52 U | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MZ-2 | MZ-2 | 230 - 255 | 1/15/2007 | 8260 | | | 63 | 14 | 1 U | 11 | 2.2 | 1 U | 1.1 | 1 U | 1 U | 1 U | 2 U | 0.51 J | 2.4 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 1/19/2007 | 8260 | | | 61 | 14 | 1 U | 10 | 2.1 | 1 U | 0.93 J | 1 U | 1 U | 1 U | 2 U | 0.46 J | 2 | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U | 1 U |
| | | | 7/25/2007 | 8260 | | | 44 | 9.3 | 1 U | 7.3 | 1.9 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/9/2008 | 524 | | | 38 | 13 | 0.5 U | 9.9 | 2.1 | 0.5 U | 0.77 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.43 J | 1.6 | 0.5 U | 0.5 U | 0.016 J | 0.19 J | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 9/2/2008 | 524 | | | 52 | 11 | 0.5 U | 8.7 | 1.9 | 0.5 U | 0.62 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1.2 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well Name | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | PCE 5 | TCE 5 | 1,1,1-TCA 200 | 1,1-DCE 6 | cis-1,2-DCE 6 | trans-1,2-DCE 10 | 1,1-DCA 5 | 1,2-DCA 0.5 | CTC 0.5 | VC 0.5 | CMT | CFM | TFM 150 | 1,2,4-TCB 5 | 1,2,3-TCB | BEN 1 | TOL 150 | EBN 300 | TX 1750 | NAP 17# | 1,3,5-TMB 330# | 1,2,4-TMB 330# |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 5/7/2012 | 524 | | | **42 J** | **8.7 J** | 0.50 UJ | **6.8 J** | 1.2 J | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ |
| | | | 5/7/2012 | 524 | EP | | **41 J** | **9.1 J** | 0.50 UJ | **6.4 J** | 1.4 J | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.48 J | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ | 0.50 UJ |
| | | | 9/18/2013 | 524 | | | **42** | **10** | 0.50 U | **7.4** | 1.5 | 0.50 U | 0.57 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.3 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/18/2013 | 8260 | | | **44** | **9.1** | 0.50 U | **7.8** | 1.4 | 0.50 U | 0.54 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.5 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| MZ-3 | MZ-3 | 268 - 308 | 8/14/2007 | 8260 | | | **35** | **8.1** | 1 U | **7.4** | 1 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 8/17/2007 | 8260 | | | **28** | **8.1** | 1 U | 5.3 | 1 | 1 U | 1 U | 0.5 U | 0.5 U | 0.5 U | 10 U | 1 U | 10 U | 1 U | 1 U | 0.5 U | 1 U | 1 U | 2 U | 10 U | 1 U | 1 U |
| | | | 1/11/2008 | 524 | | | **38** | **9.5** | 0.5 U | **7.1** | 1.1 | 0.5 U | 0.87 | 0.5 U | 0.09 J | 0.5 U | 0.5 U | 0.39 J | 1.3 | 0.5 U | 0.5 U | 0.5 U | 0.15 JB | 0.5 U | 1 U | 0.13 J | 0.5 U | 0.5 U |
| | | | 8/27/2008 | 524 | | | **28** | **7.5** | 0.5 U | 4.5 | 0.89 | 0.5 U | 0.81 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.58 | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 0.5 U | 1 U | 0.5 U | 0.5 U | 0.5 U |
| | | | 5/4/2012 | 524 | | | **28** | **6.5** | 0.50 U | 4.4 | 0.70 | 0.50 U | 0.46 J | 0.50 U | 0.37 J | 0.50 U | 0.50 U | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/4/2012 | 524 | | | **28** | **6.3** | 0.50 U | 4.3 | 0.71 | 0.50 U | 0.45 J | 0.50 U | 0.35 J | 0.50 U | 0.50 U | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 5/4/2012 | 524 | EP | | **29** | **6.6** | 0.50 U | 4.1 | 0.84 | 0.50 U | 0.44 J | 0.50 U | 0.37 J | 0.50 U | 0.50 U | 0.50 U | 1.0 | 0.50 U | 0.50 U | 0.50 U | 0.31 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/17/2013 | 524 | | | **34** | **6.7** | 0.50 U | 4.3 | 0.68 | 0.50 U | 0.38 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.1 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/17/2013 | 8260 | | | **27** | **6.0** | 0.50 U | 4.6 | 0.65 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.2 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/17/2013 | 524 | K | | **26** | **5.6** | 0.50 U | 3.7 | 0.60 | 0.50 U | 0.37 J | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.85 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |
| | | | 9/17/2013 | 8260 | K | | **22** | **5.1** | 0.50 U | 4.0 | 0.60 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.98 | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 0.50 U | 1.0 U | 0.50 U | 0.50 U | 0.50 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA | ACT | MIBK | MTBE | 1,1,2,2-PCA | 1,2-DCB | 2-Butanone | Carbon disulfide | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 | Isopropyl alcohol | Methylene chloride | Styrene | TBA | trans-1,3-DCP | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 5 | | 120# | 13 | 1 | 600 | | 160# | | | | 1200 | | 5 | 100 | | 0.5@ | |
| EPA-MW6-13 | 173 - 183 | 8/3/2011 | 524 | L | | 2.4 J | 50 U | 50 U | 30 U | 5.0 U | 5.0 U | 50 U | 5.0 U | 5.0 U | 5.0 U | 30 U | 100 U | -- | 5.0 U | 5.0 U | 20 U | 5.0 U | 4.0 U |
| | | 8/3/2011 | 8260 | L | | 2.4 | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 0.79 J | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| EPAMW6-31 | 1068 - 1083 | 4/5/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| EPAMW6-32 | 717 - 727 | 4/5/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| EPAMW6-33 | 475 - 485 | 4/5/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 10/23/2003 | 8260 | | | 1 U | 4.8 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/23/2003 | 8260 | K | | 1 U | 5.5 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/22/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/4/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/4/2006 | 8260 | K | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/26/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/20/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/28/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/4/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 5.4 J | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/20/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 2.9 J | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/20/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 10/8/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 1.5 J | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| | | 2/1/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 3.3 J | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/1/2013 | 524 | K | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 1.2 J | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/29/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/14/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 1.1 J | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/14/2014 | 524 | | | 0.50 U | R | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| EPAMW6-34 | 300 - 310 | 4/4/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 4/4/2002 | 8260 | L | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 4/4/2002 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 10/23/2003 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/22/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/27/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 0.57 J | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/27/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/21/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 0.42 J | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/27/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/5/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/21/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 0.37 J | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/21/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/21/2011 | 524 | K | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 0.40 J | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/21/2011 | 8260 | K | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/11/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 0.31 J | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 8/3/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.34 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 1/23/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/28/2013 | 524 | | | 0.50 U | 2.0 J | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.48 J | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/28/2013 | 524 | K | | 0.50 U | 3.0 J | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.49 J | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/25/2014 | 524 | | | 0.50 U | 3.4 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.44 J | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 3/25/2014 | 524 | K | | 0.50 U | 3.8 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.41 J | 130 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/12/2014 | 524 | | | 0.50 U | 1.2 J | R | 0.30 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.62 J | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| EPAMW6-35 | 215 - 230 | 4/8/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| MW64-1 | 1107 - 1122 | 3/27/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.05 U | -- |
| | | 3/27/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/1/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.58 | -- | -- | 0.053 U | -- |
| | | 5/1/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/4/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/4/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/18/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/9/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/2/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/14/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/3/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| MW64-2 | 660 - 680 | 2/3/1995 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.25 U | -- | -- | 0.17 U | -- |
| | | 2/3/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 2/3/1995 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.25 U | -- | -- | 0.17 U | -- |
| | | 2/3/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 2/4/1995 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.25 U | -- | -- | 0.17 U | -- |
| | | 2/4/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/29/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.05 U | -- |
| | | 3/29/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/1/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.86 | -- | -- | 0.053 U | -- |
| | | 5/1/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/3/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA | ACT | MIBK | MTBE | 1,1,2,2-PCA | 1,2-DCB | 2-Butanone | Carbon disulfide | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 | Isopropyl alcohol | Methylene chloride | Styrene | TBA | trans-1,3-DCP | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 5 | | 120# | 13 | 1 | 600 | | 160# | | | | 1200 | | 5 | 100 | | 0.5@ | |
| | | 8/3/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/17/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/8/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/3/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/15/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/3/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| MW64-3 | 424 - 434 | 3/28/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1 B | -- | -- | 0.05 U | -- |
| | | 3/28/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/2/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/2/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/8/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/8/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/18/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/8/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/2/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/14/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/2/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| MW64-4 | 322 - 332 | 3/29/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.05 U | -- |
| | | 3/29/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/2/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/2/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/8/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/8/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/17/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/8/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/2/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/14/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/2/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/5/2002 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/22/2003 | 8260 | | | 1 U | 5 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/21/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/13/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/14/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/21/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/22/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 7/19/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/19/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 2.9 J | 1.0 U | 10 U | 0.50 U | -- |
| | | 8/8/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| MW64-5 | 224 - 234 | 3/29/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.05 U | -- |
| | | 3/29/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/29/1995 | 8021 | K | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.05 U | -- |
| | | 3/29/1995 | 8260 | K | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/2/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/2/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/2/1995 | 8021 | K | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/2/1995 | 8260 | K | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/8/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/8/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/17/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/9/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/2/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/14/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 5/29/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 0.31 UJB | 1 U | -- | 0.5 U | -- |
| | | 12/23/2002 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 10/22/2003 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/14/2005 | 8260 | | | 1 U | 4.7 J | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/20/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/22/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/8/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/2/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/5/2011 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 8/5/2011 | 8260 | HS | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 8/8/2011 | 524 | HS | | 0.50 U | 3.4 J | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 7.0 | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 8/8/2011 | 8260 | HS | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| MW64-6 | 147 - 162 | 3/30/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.3 B | -- | -- | 0.05 U | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA | ACT | MIBK | MTBE | 1,1,2,2-PCA | 1,2-DCB | 2-Butanone | Carbon disulfide | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 | Isopropyl alcohol | Methylene chloride | Styrene | TBA | trans-1,3-DCP | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 5 | | 120# | 13 | 1 | 600 | | 160# | | | | 1200 | | 5 | 100 | | 0.5@ | |
| | | 3/30/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/2/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2 | -- | -- | 0.053 U | -- |
| | | 5/2/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/8/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/8/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/18/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/8/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/2/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/14/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/3/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 4/3/2002 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 10/22/2003 | 8260 | | | 1 U | 5 J | 10 U | 0.35 J | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/22/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/12/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/14/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/22/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/22/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/5/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/19/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.21 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/19/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/11/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 8/8/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 8/8/2012 | 524 | K | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 1/31/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.20 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/27/2013 | 524 | | | 0.50 U | 10 | 5.0 U | 0.19 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/13/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/13/2014 | 524 | | | 0.50 U | R | R | 0.35 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 110 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/13/2014 | 524 | K | | 0.50 U | R | R | 0.32 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-51 | 1063 - 1078 | 3/6/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 B | -- | -- | 0.05 U | -- |
| | | 3/6/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/3/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/3/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/2/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.055 | -- |
| | | 8/2/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/17/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.6 B | -- | -- | 0.25 U | -- |
| | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/9/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/3/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/15/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/9/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| MW6-52 | 876 - 896 | 12/7/1994 | 8021 | | | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.5 B | -- | -- | 0.24 U | -- |
| | | 12/7/1994 | 8260 | | | -- | -- | -- | -- | 0.31 U | 0.31 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/7/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.74 B | -- | -- | 0.05 U | -- |
| | | 3/7/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/4/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/4/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/2/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/2/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/17/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.53 B | -- | -- | 0.25 U | -- |
| | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/9/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/9/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| MW6-53 | 578 - 598 | 3/8/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.73 B | -- | -- | 0.05 U | -- |
| | | 3/8/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/3/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/3/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/1/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/1/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/17/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.57 B | -- | -- | 0.25 U | -- |
| | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/15/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/8/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| MW6-54 | 324 - 344 | 1/11/1995 | 8021 | | | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | 1 U | -- | -- | -- | 5 U | -- | -- | 1 U | -- |
| | | 1/11/1995 | 8260 | | | -- | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA | ACT | MIBK | MTBE | 1,1,2,2-PCA | 1,2-DCB | 2-Butanone | Carbon disulfide | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 | Isopropyl alcohol | Methylene chloride | Styrene | TBA | trans-1,3-DCP | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 5 | | 120# | 13 | 1 | 600 | | 160# | | | | 1200 | | 5 | 100 | | 0.5@ | |
| | | 1/14/1995 | 8021 | | | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | 1 U | -- | -- | -- | 5 U | -- | -- | 1 U | -- |
| | | 1/14/1995 | 8260 | | | -- | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 1/15/1995 | 8021 | | | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | 1 U | -- | -- | -- | 5 U | -- | -- | 1 U | -- |
| | | 1/15/1995 | 8260 | | | -- | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 1/15/1995 | 8021 | | | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | 1 U | -- | -- | -- | 5 U | -- | -- | 1 U | -- |
| | | 1/15/1995 | 8260 | | | -- | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/8/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.57 B | -- | -- | 0.05 U | -- |
| | | 3/8/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/4/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/4/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/1/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/1/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/16/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.91 | -- | -- | 0.063 | -- |
| | | 8/16/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/18/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.88 | -- | -- | 0.053 U | -- |
| | | 8/18/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/19/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/19/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/16/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.51 B | -- | -- | 0.25 U | -- |
| | | 10/16/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/9/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/3/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/15/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/10/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/5/2002 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/24/2003 | 8260 | | | 1 U | 5.1 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 0.52 J | 1 U | -- | 0.5 U | -- |
| | | 10/24/2003 | 8260 | L | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 0.49 J | 1 U | -- | 0.5 U | -- |
| MW6-55 | 250 - 265 | 3/8/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.05 U | -- |
| | | 3/8/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 3/8/1995 | 8021 | K | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.79 B | -- | -- | 0.05 U | -- |
| | | 3/8/1995 | 8260 | K | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/4/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/4/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/1/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/1/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/10/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/10/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/10/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/10/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/11/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.1 | -- | -- | 0.053 U | -- |
| | | 8/11/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/13/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/13/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/17/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/17/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/15/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 4/10/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 6/23/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/23/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/27/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/3/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/3/2007 | 8260 | K | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/29/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2007 | 8260 | K | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/11/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 8/11/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 3.2 J | 1.0 U | 10 U | 0.50 U | -- |
| | | 8/9/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 UJ | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 2/6/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 UJ | 0.50 U | 0.50 U |
| | | 8/21/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/13/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 180 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/11/2014 | 524 | | | 0.50 U | 5.0 U | R | 2.0 UJ | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 UJ | 0.50 UJ | 2.0 U | 0.50 U | 0.50 U |
| MW6-56 | 120 - 130 | 3/9/1995 | 8021 | | | 0.12 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.05 U | -- |
| | | 3/9/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/4/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/4/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/1/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.066 U | -- |
| | | 8/1/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA 5 | ACT | MIBK 120# | MTBE 13 | 1,1,2,2-PCA 1 | 1,2-DCB 600 | 2-Butanone | Carbon disulfide 160# | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 1200 | Isopropyl alcohol | Methylene chloride 5 | Styrene 100 | TBA | trans-1,3-DCP 0.5@ | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 8/1/1995 | 8021 | K | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.066 U | -- |
| | | 8/1/1995 | 8260 | K | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/16/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.68 B | -- | -- | 0.25 U | -- |
| | | 10/16/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/9/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/3/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/15/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 6/20/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/14/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/16/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/22/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/26/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/6/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/25/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.9 | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/25/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/12/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 2/6/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.20 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 UJ | 0.50 U | 0.50 U |
| | | 8/21/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/13/2014 | 524 | | | 0.50 U | 3.5 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 110 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/15/2014 | 524 | | | 0.50 U | R | 5.0 U | 0.20 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-61 | 446 - 456 | 12/13/1994 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.25 U | -- | -- | 0.17 U | -- |
| | | 12/13/1994 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/5/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/5/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/7/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/7/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/19/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/19/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| MW6-62 | 310 - 325 | 12/13/1994 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.25 U | -- | -- | 0.17 U | -- |
| | | 12/13/1994 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 12/13/1994 | 8021 | K | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.73 B | -- | -- | 0.17 U | -- |
| | | 12/13/1994 | 8260 | K | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/5/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/5/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/5/1995 | 8021 | K | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.1 | -- | -- | 0.053 U | -- |
| | | 5/5/1995 | 8260 | K | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/7/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/7/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/24/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.78 | -- | -- | 0.053 U | -- |
| | | 8/24/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/25/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.54 | -- | -- | 0.053 U | -- |
| | | 8/25/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/27/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.49 | -- | -- | 0.053 U | -- |
| | | 8/27/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/19/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/19/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/5/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 10/28/2003 | 8260 | | | 1 U | 6.1 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| MW6-63 | 197 - 212 | 12/12/1994 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.29 B | -- | -- | 0.17 U | -- |
| | | 12/12/1994 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/5/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/5/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/7/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/7/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/7/1995 | 8021 | K | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.8 | -- | -- | 0.053 U | -- |
| | | 8/7/1995 | 8260 | K | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/30/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.1 B | -- | -- | 0.053 U | -- |
| | | 8/30/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/31/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.79 | -- | -- | 0.053 U | -- |
| | | 8/31/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/19/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 | -- | -- | 0.25 U | -- |
| | | 10/19/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/19/1995 | 8021 | K | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.5 | -- | -- | 0.25 U | -- |
| | | 10/19/1995 | 8260 | K | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA 5 | ACT | MIBK 120# | MTBE 13 | 1,1,2,2-PCA 1 | 1,2-DCB 600 | 2-Butanone | Carbon disulfide 160# | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 1200 | Isopropyl alcohol | Methylene chloride 5 | Styrene 100 | TBA | trans-1,3-DCP 0.5@ | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 7/10/1997 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | K | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 10/21/2003 | 8260 | | | 1 U | 7.6 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/17/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/23/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/15/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/15/2006 | 8260 | K | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/2/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/2/2007 | 8260 | K | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/25/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 7/25/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 3.8 J | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/25/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/25/2011 | 524 | K | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 3.8 J | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/25/2011 | 8260 | K | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| MW6-64 | 17.4 - 37.4 | 12/13/1994 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.25 U | -- | -- | 0.17 U | -- |
| | | 12/13/1994 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/5/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/5/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/7/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/7/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/19/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 | -- | -- | 1.3 U | -- |
| | | 10/19/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| MW6-65 | 97 - 112 | 8/17/1995 | 8021 | | | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | 1 U | -- | -- | -- | 5 U | -- | -- | 1 U | -- |
| | | 8/17/1995 | 8260 | | | -- | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/20/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 3.1 U | -- | -- | 0.25 U | -- |
| | | 10/20/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/11/1997 | 8260 | | | 2 U | -- | -- | -- | 2 U | 2 U | -- | -- | -- | -- | -- | -- | -- | 2 U | 2 U | -- | 2 U | -- |
| | | 2/5/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 6/24/2005 | 8260 | | | 1 U | 10 U | 5 U | 1.1 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/14/2005 | 8260 | | | 1 U | 10 U | 5 U | 0.99 J | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/16/2006 | 8260 | | | 1.7 U | 17 U | 8.3 U | 1.1 J | 1.7 U | 1.7 U | 8.3 U | 1.7 U | 1.7 U | 1.7 U | 3.3 U | 1.7 U | -- | 1.7 U | 1.7 U | 42 U | 1.7 U | -- |
| | | 1/16/2007 | 8260 | | | 1 U | 10 U | 5 U | 0.94 J | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/25/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/6/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 0.39 J | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/18/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.46 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/18/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 0.34 J | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/12/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.41 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 8/9/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.37 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 UJ | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 1.9 J | 0.50 U | -- |
| MW6-71 | 209 - 230 | 4/11/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.1 B | -- | -- | 0.05 U | -- |
| | | 4/11/1995 | 8260 | | | -- | -- | -- | -- | 0.08 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/16/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 U | -- | -- | 0.053 U | -- |
| | | 5/16/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/9/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/9/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/18/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/18/1995 | 8021 | K | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/18/1995 | 8260 | K | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 7/10/1997 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 2/4/1998 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/15/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| MW6-81 | 107 - 118 | 12/14/1994 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.25 B | -- | -- | 0.17 U | -- |
| | | 12/14/1994 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/8/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 U | -- | -- | 0.053 U | -- |
| | | 5/8/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/8/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5 U | -- | -- | 0.053 U | -- |
| | | 5/8/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/9/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/9/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA 5 | ACT | MIBK 120# | MTBE 13 | 1,1,2,2-PCA 1 | 1,2-DCB 600 | 2-Butanone | Carbon disulfide 160# | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 1200 | Isopropyl alcohol | Methylene chloride 5 | Styrene 100 | TBA | trans-1,3-DCP 0.5@ | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 10/18/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/5/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| MW6-82 | 16 - 26 | 12/14/1994 | 8021 | | | 0.24 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.28 B | -- | -- | 0.17 U | -- |
| | | 12/14/1994 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.41 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 5/8/1995 | 8021 | | | 0.1 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 U | -- | -- | 0.053 U | -- |
| | | 5/8/1995 | 8260 | | | -- | -- | -- | -- | 0.083 U | 0.08 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 8/9/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 U | -- | -- | 0.053 U | -- |
| | | 8/9/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 10/18/1995 | 8021 | | | 0.65 U | -- | -- | -- | -- | -- | -- | -- | -- | 0.6 U | -- | -- | -- | 0.46 U | -- | -- | 0.25 U | -- |
| | | 10/18/1995 | 8260 | | | -- | -- | -- | -- | 0.35 U | 0.4 U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | 7/10/1997 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| | | 2/5/1998 | 8260 | | | 1 U | -- | -- | 10 U | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 5 U | 1 U | -- | 1 U | -- |
| | | 7/16/1998 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | -- | -- | -- | -- | -- | 1 U | 1 U | -- | 1 U | -- |
| MP20-01 | 434 - 444 | 8/13/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 9/13/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/27/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2000 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 4/26/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/6/2002 | 8260 | | | 1 U | 4.5 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/6/2003 | 8260 | | | 1 U | 7.6 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/8/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/3/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 2/2/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/13/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 9/3/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 8/6/2014 | 524 | | | 0.50 U | 5.0 U | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| MP20-02 | 336 - 346 | 8/13/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 9/13/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/27/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2000 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 4/26/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/6/2002 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/6/2003 | 8260 | | | 1 U | 5.8 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/8/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/3/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 2/2/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/13/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 9/3/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 7/12/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/12/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/30/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 2/4/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/20/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.30 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/13/2014 | 524 | | | 0.50 U | 2.0 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/6/2014 | 524 | | | 0.50 U | 5.0 U | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| MP20-03 | 288 - 298 | 8/13/1999 | 8260 | | | 0.56 J | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 9/13/1999 | 8260 | | | 0.49 J | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/27/1999 | 8260 | | | 0.57 J | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2000 | 8260 | | | 0.52 J | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 4/26/2002 | 8260 | | | 0.45 J | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 4/26/2002 | 8260 | K | | 0.39 J | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/6/2002 | 8260 | | | 0.47 J | 10 U | 10 U | **15** | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/6/2003 | 8260 | | | 0.31 J | 5.7 J | 10 U | **14** | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2005 | 8260 | | | 0.46 J | 10 U | 5 U | 5 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/29/2005 | 8260 | K | | 0.47 J | 10 U | 5 U | 5 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/8/2005 | 8260 | | | 2.5 U | 25 U | 12 U | 8.1 | 2.5 U | 2.5 U | 12 U | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | -- | 2.5 U | 2.5 U | 62 U | 2.5 U | -- |
| | | 12/8/2005 | 8260 | K | | 2.5 U | 25 U | 12 U | 8.1 | 2.5 U | 2.5 U | 12 U | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | -- | 2.5 U | 2.5 U | 62 U | 2.5 U | -- |
| | | 7/6/2006 | 8260 | | | 2.5 U | 25 U | 12 U | 9.2 | 2.5 U | 2.5 U | 12 U | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | -- | 2.5 U | 2.5 U | 62 U | 2.5 U | -- |
| | | 7/6/2006 | 8260 | K | | 2.5 U | 25 U | 12 U | 9 | 2.5 U | 2.5 U | 12 U | 2.5 U | 2.5 U | 2.5 U | 5 U | 2.5 U | -- | 2.5 U | 2.5 U | 62 U | 2.5 U | -- |
| | | 2/2/2007 | 8260 | | | 1.7 U | 17 U | 8.3 U | 10 | 1.7 U | 1.7 U | 8.3 U | 1.7 U | 1.7 U | 1.7 U | 3.3 U | 1.7 U | -- | 1.7 U | 1.7 U | 42 U | 1.7 U | -- |
| | | 6/13/2007 | 8260 | | | 0.49 J | 10 U | 5 U | 11 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 9/3/2008 | 524 | | | 0.5 U | 10 U | 5 U | 7.3 | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 12/20/2010 | 8260 | | | 0.33 J | 10 U | 10 U | 0.34 J | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA 5 | ACT | MIBK 120# | MTBE 13 | 1,1,2,2-PCA 1 | 1,2-DCB 600 | 2-Butanone | Carbon disulfide 160# | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 1200 | Isopropyl alcohol | Methylene chloride 5 | Styrene 100 | TBA | trans-1,3-DCP 0.5@ | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12/20/2010 | 8260 | K | | 0.36 J | 10 U | 10 U | 0.36 J | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/12/2011 | 524 | | | 0.43 J | 5.0 U | 5.0 U | 0.48 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 0.50 J | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/12/2011 | 8260 | | | 0.46 J | 10 U | 10 U | 0.45 J | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 0.57 J | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/5/2012 | 524 | | | 0.39 J | 5.0 U | 5.0 U | 0.34 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/30/2012 | 524 | | | 0.44 J | 5.0 U | 5.0 U | 0.46 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.31 J | 200 U | 0.50 U | 0.50 U | 1.2 J | 0.50 U | -- |
| | | 2/4/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/20/2013 | 524 | | | 0.51 | 5.0 U | 5.0 U | 0.89 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/13/2014 | 524 | | | 0.46 J | R | 5.0 U | 1.1 J | 0.37 | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.40 J | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.59 |
| | | 8/7/2014 | 524 | | | 0.50 | 5.0 U | R | 1.3 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| MP20-04 | 194 - 204 | 8/13/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/13/1999 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 9/13/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 9/13/1999 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/27/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/27/1999 | 8260 | K | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2000 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 4/27/2002 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/6/2002 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/6/2003 | 8260 | | | 1 U | 5.5 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/8/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/3/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 2/2/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/13/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/14/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 0.37 J | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/14/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/5/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/30/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 0.92 J | 0.50 U | -- |
| MP20-05 | 76 - 86 | 8/13/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 9/14/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/27/1999 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 6/29/2000 | 8260 | | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| MP21-01 | 530 - 540 | 8/21/2003 | 8260 | | | 1 U | 23 | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/5/2003 | 8260 | | | 1 U | 7.9 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/28/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/7/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/5/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 0.46 J | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 6.8 J | 1 U | -- |
| | | 2/1/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/14/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| MP21-02 | 435 - 445 | 8/21/2003 | 8260 | | | 1 U | 18 | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/5/2003 | 8260 | | | 1 U | 6.5 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/28/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/7/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/5/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 2/1/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/14/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/17/2010 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/13/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/13/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 8/7/2014 | 524 | | | 0.50 U | 5.0 U | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| MP21-03 | 365 - 375 | 8/21/2003 | 8260 | | | 1 U | 10 | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/5/2003 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/28/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/7/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/5/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 2/1/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/14/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/17/2010 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/13/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/13/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/4/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.54 | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/31/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 2/5/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 UJ | 0.50 U | 0.50 U |
| | | 8/19/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/14/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/7/2014 | 524 | | | 0.50 U | 5.0 U | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| MP21-04 | 320 - 330 | 8/21/2003 | 8260 | | | 1 U | 16 | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/5/2003 | 8260 | | | 1 U | 6.7 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/28/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA 5 | ACT | MIBK 120# | MTBE 13 | 1,1,2,2-PCA 1 | 1,2-DCB 600 | 2-Butanone | Carbon disulfide 160# | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 1200 | Isopropyl alcohol | Methylene chloride 5 | Styrene 100 | TBA | trans-1,3-DCP 0.5@ | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12/7/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/5/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 2/1/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/14/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/17/2010 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/13/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/13/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/4/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/31/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 2/5/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 UJ | 0.50 U | 0.50 U |
| | | 8/19/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/14/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/26/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MP21-05 | 245 - 255 | 8/21/2003 | 8260 | | | 1 U | 23 | 10 U | 0.36 J | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/5/2003 | 8260 | | | 1 U | 10 | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/28/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/7/2005 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/6/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 2/1/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/14/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1.2 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/20/2010 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/14/2011 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/14/2011 | 8260 | | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/4/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/31/2012 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 4.7 J | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 7/31/2012 | 524 | K | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 UJ | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 2/5/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.21 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 UJ | 0.50 U | 0.50 U |
| | | 8/19/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.19 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/14/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 100 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/26/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MP21-06 | 150 - 160 | 8/21/2003 | 8260 | | | 1 U | 15 | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 11/5/2003 | 8260 | | | 1 U | 11 | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| EPAMW61-5 | 354 - 364 | 8/21/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/12/2014 | 524 | | | 0.50 U | 4.3 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/8/2014 | 524 | | | 0.50 U | 5.0 U | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| EPAMW61-6 | 470 - 480 | 8/21/2013 | 524 | | | 0.50 U | 1.8 J | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.26 J | -- | 0.50 U | 0.50 U |
| | | 3/12/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 160 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/8/2014 | 524 | | | 0.50 U | 5.0 U | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| EPAMW61-7 | 594 - 604 | 8/21/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.24 J | -- | 0.50 U | 0.50 U |
| | | 3/12/2014 | 524 | | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/8/2014 | 524 | | | 0.50 U | 5.0 U | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.65 | 2.0 U | 0.50 U | 0.50 U |
| MW6-10d | 539 - 554 | 11/23/2002 | 8260 | L | | 1 U | 10 U | 10 U | 1 U | 1 U | 0.29 J | 10 U | -- | 1 U | 1 U | -- | -- | -- | 0.75 UJB | 1 U | -- | 0.5 U | -- |
| | | 10/27/2003 | 8260 | L | | 1 U | 4.5 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/27/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/21/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/21/2005 | 8260 | L - K | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/23/2006 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/12/2007 | 8260 | L | | 1 U | 2.4 J | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/19/2007 | 8260 | L | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/26/2008 | 524 | L | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 12/20/2010 | 8260 | L | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 8/8/2011 | 524 | HS | | 0.50 U | 4.9 J | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 8.1 | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 8/8/2011 | 8260 | HS | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 12/22/2011 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/27/2012 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 1.5 J | 0.50 U | -- |
| | | 1/25/2013 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/7/2013 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/24/2014 | 524 | HS | | 0.50 U | 1.8 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/18/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-10i | 336 - 356 | 11/21/2002 | 8260 | L | | 1 U | 7.7 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 0.45 J | 1 U | -- | 0.5 U | -- |
| | | 10/24/2003 | 8260 | L | | 1 U | 5.6 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/24/2003 | 8260 | L - K | | 1 U | 6.4 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/27/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/20/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/23/2006 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/11/2007 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/18/2007 | 8260 | L | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 7/18/2007 | 8260 | L - K | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/26/2008 | 524 | L | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA 5 | ACT | MIBK 120# | MTBE 13 | 1,1,2,2-PCA 1 | 1,2-DCB 600 | 2-Butanone | Carbon disulfide 160# | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 1200 | Isopropyl alcohol | Methylene chloride 5 | Styrene 100 | TBA | trans-1,3-DCP 0.5@ | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 12/21/2010 | 8260 | L | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/13/2011 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/13/2011 | 8260 | L | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/13/2011 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/13/2011 | 8260 | HS | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 12/22/2011 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/27/2012 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 0.97 J | 0.50 U | -- |
| | | 1/25/2013 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/7/2013 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 3/24/2014 | 524 | HS | | 0.50 U | 3.0 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/18/2014 | 524 | L | | 0.50 U | 3.3 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-12i | 260 - 275 | 10/14/2002 | 8260 | L | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 11/12/2002 | 8260 | L | | 1 U | -- | -- | -- | 1 U | 1 U | -- | -- | 1 U | 1 U | -- | -- | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 10/29/2003 | 8260 | L | | 1 U | 7.1 J | 10 U | 1.7 | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/15/2005 | 8260 | L | | 1 U | 10 U | 5 U | 0.67 J | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/16/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1.5 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/22/2006 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/22/2006 | 8260 | L - K | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/11/2007 | 8260 | L | | 1 U | 10 U | 5 U | 1.8 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/6/2007 | 8260 | L | | 1 U | 50 U | 10 U | 1.1 | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/8/2011 | 524 | HS | | 0.50 U | 6.2 | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 8.1 | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 8/8/2011 | 8260 | HS | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 12/22/2011 | 524 | HS | | 0.50 U | 8.8 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 2.1 J | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/27/2012 | 524 | HS | | 0.50 U | 5.0 U | 0.86 J | 2.0 U | 0.50 U | 0.50 U | 1.4 J | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 1.2 J | 0.50 U | -- |
| | | 1/25/2013 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 1.1 J | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/7/2013 | 524 | HS | | 0.50 U | 4.5 J | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 3/24/2014 | 524 | HS | | 0.50 U | R | 0.74 J | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | 0.91 J | 0.50 U | 0.50 U |
| | | 8/29/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-13i | 246 - 261 | 12/6/2002 | 8260 | L | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/22/2003 | 8260 | L | | 1 U | 4.7 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/16/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 0.36 J | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/7/2006 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/10/2007 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/5/2007 | 8260 | L | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 12/21/2010 | 8260 | L | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/13/2011 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/13/2011 | 8260 | L | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 7/18/2011 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 2.7 J | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 7/18/2011 | 8260 | HS | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 1/3/2012 | 524 | HS | | 0.50 U | 5.5 | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/27/2012 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 0.61 J | 0.50 U | -- |
| | | 1/25/2013 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.30 J | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/13/2013 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | R | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 3/24/2014 | 524 | HS | | 0.50 U | 1.2 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 180 J | 0.50 U | 0.50 U | 1.1 J | 0.50 U | 0.50 U |
| | | 8/29/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.96 |
| MW6-17i | 212 - 232 | 2/10/2003 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 2/24/2003 | 8260 | | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/28/2003 | 8260 | L | | 1 U | 7.6 J | 10 U | 1.8 | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/28/2003 | 8260 | L - K | | 1 U | 6.3 J | 10 U | 1.2 | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/14/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1.4 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/19/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/20/2006 | 8260 | L | | 1 U | 5.2 J | 5 U | 1.6 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/8/2007 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/18/2007 | 8260 | L | | 1 U | 50 U | 10 U | 1.7 | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/8/2011 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 8/8/2011 | 8260 | HS | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 12/22/2011 | 524 | HS | | 0.50 U | 12 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| MW6-09i | 350 - 370 | 11/22/2002 | 8260 | L | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 0.53 J | 1 U | -- | 0.5 U | -- |
| | | 11/22/2002 | 8260 | L - K | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/24/2003 | 8260 | L | | 1 U | 4.5 J | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/16/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/16/2005 | 8260 | L - K | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/15/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/22/2006 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/10/2007 | 8260 | L | | 1 U | 3 J | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/10/2007 | 8260 | L - K | | 1 U | 6 J | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/6/2007 | 8260 | L | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/25/2008 | 524 | L | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 12/20/2010 | 8260 | L | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA 5 | ACT | MIBK 120# | MTBE 13 | 1,1,2,2-PCA 1 | 1,2-DCB 600 | 2-Butanone | Carbon disulfide 160# | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 1200 | Isopropyl alcohol | Methylene chloride 5 | Styrene 100 | TBA | trans-1,3-DCP 0.5@ | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 8/8/2011 | 524 | HS | | 0.50 U | 6.0 | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 8.3 | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 4.0 U |
| | | 8/8/2011 | 8260 | HS | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 12/22/2011 | 524 | HS | | 0.50 U | 6.6 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |
| | | 7/27/2012 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 1.6 J | 0.50 U | -- |
| | | 1/25/2013 | 524 | HS | | 0.50 U | 1.5 J | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/7/2013 | 524 | HS | | 0.50 U | 8.2 | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 3/26/2014 | 524 | HS | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.22 J | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/19/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-09UI2 | 380 - 420 | 8/14/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 240 | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/11/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 190 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/20/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.57 |
| MW6-09LI | 435 - 450 | 8/14/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 100 J | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/11/2014 | 524 | L | | 0.50 U | 3.5 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 120 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/20/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 0.87 J | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-22UI | 302 - 317 | 1/24/2013 | 524 | | | 0.50 U | -- | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 2.0 U |
| | | 8/12/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 0.20 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/12/2013 | 524 | L - K | | 0.50 U | 5.0 U | 5.0 U | 0.20 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/12/2014 | 524 | L | | 0.50 U | 3.7 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 120 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 2/12/2014 | 524 | L - K | | 0.50 U | 3.5 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/27/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/27/2014 | 524 | L - K | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-22LI1 | 348 - 358 | 1/25/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/12/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/13/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/27/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-22LI2 | 380 - 390 | 1/24/2013 | 524 | | | 0.50 U | -- | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 2.0 U |
| | | 8/13/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/12/2014 | 524 | L | | 0.50 U | 5.7 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 130 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/27/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-22D | 452 - 462 | 1/25/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | -- | 0.50 U | 0.50 U |
| | | 8/12/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/13/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/28/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-23UI | 338 - 348 | 4/19/2013 | 524 | | | 0.5 U | 5 U | 5 U | 0.28 J | 0.5 U | 0.5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 5 U | -- | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U |
| | | 8/15/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 0.30 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/14/2014 | 524 | L | | 0.50 U | 4.7 J | 5.0 U | 0.28 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 170 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/26/2014 | 524 | L | | 0.50 U | 2.7 J | 5.0 U | 0.26 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 1.8 J | 0.50 U | 0.50 U |
| MW6-23LI | 434 - 444 | 2/1/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/16/2013 | 524 | L | | 0.50 U | 16 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/14/2014 | 524 | L | | 0.50 U | 6.6 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 140 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/26/2014 | 524 | L | | 0.50 U | 4.8 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 2.2 J | 1.0 | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-23D | 490 - 500 | 1/31/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/16/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/21/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.24 J | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 270 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/26/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-24UI | 320 - 335 | 2/11/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 UJ | 0.50 U | 2.1 |
| | | 8/9/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 2.8 |
| | | 2/20/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 2.7 |
| | | 8/25/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.37 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-24LI | 365 - 375 | 2/4/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.49 J | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.8 |
| | | 8/12/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.37 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.6 |
| | | 2/21/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 2.4 J | 0.37 J | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 290 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/25/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.31 J | 0.050 U | 0.50 U | 5.0 U | 0.83 | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-25UI | 338 - 348 | 4/18/2013 | 524 | | | 0.5 U | 5 U | 5 U | 2 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.4 J | -- | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U |
| | | 8/19/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.40 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/14/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.54 J | 190 J | 0.50 U | 0.50 U | R | 0.50 U | 0.72 |
| | | 8/21/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 UJ | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.40 J | 200 UJ | 0.50 U | 0.50 U | R | 0.50 UJ | 0.50 U |
| MW6-25LI | 388 - 398 | 3/1/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/19/2013 | 524 | L | | 0.50 U | 6.0 | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.18 J | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/14/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 100 J | 0.50 U | 0.50 U | R | 0.50 U | 0.97 |
| | | 8/21/2014 | 524 | L | | 0.50 U | 5.4 J | 5.0 U | 2.0 UJ | 0.050 U | 0.50 U | 1.4 J | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 UJ | 0.50 U |
| MW6-26UI | 362 - 372 | 4/26/2013 | 524 | | | 0.5 U | 5 U | 5 U | 2 U | 0.5 U | 0.5 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 5 U | -- | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U |
| | | 8/9/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/9/2013 | 524 | L - K | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/17/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 1.9 | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 120 J | 0.50 U | 0.50 U | 3.7 J | 0.50 U | 0.50 U |
| | | 2/17/2014 | 524 | L - K | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 1.7 | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 110 J | 0.50 U | 0.50 U | 3.8 J | 0.50 U | 0.50 U |
| | | 9/3/2014 | 524 | L | | 0.50 U | 3.9 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.21 J | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 9/3/2014 | 524 | L - K | | 0.50 U | 3.8 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.18 J | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-27UI1 | 288 - 308 | 8/7/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 0.24 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.44 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA | ACT | MIBK | MTBE | 1,1,2,2-PCA | 1,2-DCB | 2-Butanone | Carbon disulfide | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 | Isopropyl alcohol | Methylene chloride | Styrene | TBA | trans-1,3-DCP | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 5 | | 120# | 13 | 1 | 600 | | 160# | | | | 1200 | | 5 | 100 | | 0.5@ | |
| | | 2/19/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.29 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 2.0 |
| | | 5/7/2014 | 524 | | | 0.50 | 5.0 | 5.0 | 0.21 | 0.050 | 0.50 | 5.0 | 0.50 | 0.50 | 0.50 | 0.10 | 5.0 | 200 | 0.20 | 0.50 | 2.0 | 0.50 | 0.50 |
| | | 7/24/2014 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 2.0 |
| | | 9/24/2014 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.4 |
| MW6-27UI2 | 320 - 330 | 8/7/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 0.28 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 1.0 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/20/2014 | 524 | L | | 0.50 U | 7.9 J | 5.0 U | 0.25 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.19 J | 0.50 U | 1.5 J | 0.50 U | 0.50 U |
| | | 5/9/2014 | 524 | | | 0.50 | 12 | 5.0 | 0.25 | 0.050 | 0.50 | 5.0 | 0.50 | 0.50 | 0.50 | 0.10 | 5.0 | 200 | 0.23 | 0.50 | 2.0 | 0.50 | 0.50 |
| | | 7/24/2014 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.40 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.8 |
| | | 9/24/2014 | 524 | | | 0.50 U | 11 | 5.0 U | 0.21 J | 0.050 U | 0.50 U | 2.7 J | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.18 J | 0.50 U | 1.8 J | 0.50 U | 0.50 U |
| | | 9/24/2014 | 524 | K | | 0.50 U | 10 | 5.0 U | 0.21 J | 0.050 U | 0.50 U | 2.6 J | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.18 J | 0.50 U | 2.9 | 0.50 U | 0.50 U |
| MW6-27LI1 | 347 - 362 | 8/8/2013 | 524 | L | | 0.74 | 5.0 U | 5.0 U | 0.38 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 1.6 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/18/2014 | 524 | L | | 0.50 U | 20 J | 5.0 U | 0.38 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 10 J | 0.50 U | 0.50 U |
| | | 5/9/2014 | 524 | | | 0.50 | 19 | 5.0 | 0.32 | 0.050 | 0.50 | 5.0 | 0.50 | 0.50 | 0.50 | 0.10 | 5.0 | 200 | 0.50 | 0.50 | 2.0 | 0.50 | 0.50 |
| | | 7/25/2014 | 524 | L | | 0.44 J | 5.0 U | 5.0 U | 0.63 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.29 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.52 |
| | | 9/24/2014 | 524 | | | 0.55 | 2.7 J | 5.0 U | 0.29 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.49 J | 200 U | 0.50 U | 0.50 U | 1.0 J | 0.50 U | 0.63 |
| MW6-27LI2 | 377 - 387 | 8/6/2013 | 524 | L | | 0.26 J | 5.0 U | 5.0 U | 1.0 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 2.1 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 8/6/2013 | 524 | L - K | | 0.27 J | 5.0 U | 5.0 U | 1.1 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 2.0 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/19/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.66 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.29 | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 2/19/2014 | 524 | L - K | | 0.21 J | R | 5.0 U | 1.1 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.33 | 0.42 J | 110 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 5/7/2014 | 524 | | | 0.50 | 5.0 | 5.0 | 0.68 | 0.050 | 0.50 | 5.0 | 0.50 | 0.50 | 0.50 | 0.10 | 0.44 | 200 | 0.50 | 0.50 | 2.0 | 0.50 | 0.50 |
| | | 9/23/2014 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 0.42 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.63 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| MW6-27D | 434 - 444 | 8/5/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/20/2014 | 524 | L | | 0.50 U | 47 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 1.6 J | 0.50 U | 0.50 U |
| | | 8/19/2014 | 524 | L | | 0.50 U | 10 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-28UI | 340 - 360 | 10/25/2013 | 524 | L | | 0.50 U | 4.2 J | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/10/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 100 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 9/3/2014 | 524 | L | | 0.50 U | 2.4 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-28LI | 454 - 464 | 10/25/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.96 J | 140 J | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/10/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.74 J | 130 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 9/3/2014 | 524 | L | | 0.50 U | 3.0 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.52 |
| MW6-29UI | 365 - 385 | 8/9/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/17/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.13 J | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 170 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/14/2014 | 524 | L | | 0.50 U | 4.4 J | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-29LI | 412 - 432 | 8/8/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/17/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/14/2014 | 524 | L | | 0.50 U | 13 J | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/14/2014 | 524 | L - K | | 0.50 U | 11 J | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-29D | 475 - 490 | 8/9/2013 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 2/17/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 8/14/2014 | 524 | L | | 0.50 U | 15 J | R | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| PMW-6 | 258 - 278 | 11/15/2013 | 524 | | | 0.50 U | 3.3 J | 5.0 U | 0.62 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 0.89 J | 0.50 U | 1.1 |
| | | 2/12/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 2.2 |
| | | 2/12/2014 | 524 | L - K | | 0.50 U | 2.6 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 120 J | 0.50 U | 0.50 U | R | 0.50 U | 2.2 |
| | | 9/2/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.19 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 2.5 |
| | | 9/2/2014 | 524 | L - K | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 2.5 |
| PMW-7A | 390 - 410 | 2/18/2014 | 524 | L | | 0.50 U | 3.6 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 |
| | | 8/22/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.22 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| PMW-7B | 460 - 470 | 3/10/2014 | 524 | L | | 0.50 U | 2.0 J | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | 1.8 J | 0.50 U | 0.50 U |
| | | 8/22/2014 | 524 | L | | 0.50 U | 15 J | 1.0 J | 2.0 U | 0.050 U | 0.50 U | 2.9 J | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| PMW-8A | 390 - 410 | 2/13/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 110 J | 0.58 | 0.50 U | R | 0.50 U | 0.50 U |
| | | 9/5/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| PMW-8B | 460 - 470 | 2/13/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 120 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 9/5/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| PMW-5A | 303 - 313 | 3/28/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.25 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.51 J | 180 J | 0.50 U | 0.50 U | R | 0.50 U | 0.90 |
| | | 9/4/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.29 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.54 J | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| PMW-5B | 323 - 333 | 3/26/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.47 J | 180 J | 0.50 U | 0.50 U | R | 0.50 U | 1.0 |
| | | 9/4/2014 | 524 | L | | 0.50 U | R | 5.0 U | 0.31 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.46 J | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| MW6-16i | 304 - 314 | 12/24/2002 | 8260 | L | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 10/23/2003 | 8260 | L | | 1 U | 10 U | 10 U | 1 U | 1 U | 1 U | 10 U | -- | 1 U | 1 U | -- | -- | -- | 5 U | 1 U | -- | 0.5 U | -- |
| | | 6/13/2005 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/19/2005 | 8260 | L | | 1 U | 3 J | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 6/20/2006 | 8260 | L | | 1 U | 3.1 J | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/9/2007 | 8260 | L | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/5/2007 | 8260 | L | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 8/25/2008 | 524 | L | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 12/22/2010 | 8260 | L | | 1.0 U | 5.0 J | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | -- | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 8/8/2011 | 524 | L | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.7 | 0.50 U | 4.0 U |
| | | 8/8/2011 | 8260 | L | | 1.0 U | 10 U | 10 U | 1.0 U | 1.0 U | 1.0 U | 10 U | 5.0 U | 1.0 U | 1.0 U | 1.0 U | 5.0 U | 100 U | 5.0 U | 1.0 U | 10 U | 0.50 U | -- |
| | | 12/22/2011 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 3.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 3.0 U | 10 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 1.0 U |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA 5 | ACT | MIBK 120# | MTBE 13 | 1,1,2,2-PCA 1 | 1,2-DCB 600 | 2-Butanone | Carbon disulfide 160# | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 1200 | Isopropyl alcohol | Methylene chloride 5 | Styrene 100 | TBA | trans-1,3-DCP 0.5@ | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 7/27/2012 | 524 | HS | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 0.95 J | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 2/8/2013 | 8260 | HS | | 0.50 U | 5.0 UJ | 2.0 U | 0.50 U | 0.50 U | 0.50 U | 1.1 J | -- | 0.50 U | 0.50 U | -- | -- | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| | | 8/7/2013 | 524 | HS | | 0.50 U | 2.8 J | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 3/26/2014 | 524 | HS | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 140 J | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| | | 9/2/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.50 U |
| S11A | 190 - 220 | 3/19/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | R | 0.50 U | 0.50 U | R | 0.50 U | 0.74 |
| | | 8/28/2014 | 524 | L | | 0.50 U | R | 5.0 U | 2.0 U | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | R | 0.50 U | 0.75 |
| IZ-1 | 278 - 368 | 12/6/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 12/14/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/23/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/15/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.57 | 0.89 | 2 U | 0.21 J | -- | 0.26 J | -- | 10 U | 0.5 U | -- |
| | | 8/28/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 5/8/2012 | 524 | | | 0.50 U | 410 | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 660 | 0.50 UJ | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 5/8/2012 | 524 | EP | | 0.50 U | 410 | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 720 | 0.50 UJ | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 9/19/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 9/19/2013 | 8260 | | | 0.50 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | -- | -- | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| IZ-2 | 305 - 385 | 10/9/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 10/13/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/12/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/24/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/9/2008 | 524 | | | 0.5 U | 2 J | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.026 J | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 9/2/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 5/7/2012 | 524 | | | 0.50 U | 53 | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 120 | 0.50 UJ | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 5/7/2012 | 524 | EP | | 0.50 U | 82 | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 180 | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 9/18/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 9/18/2013 | 8260 | | | 0.50 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | 1.6 J | 0.50 U | 0.50 U | 0.50 U | -- | -- | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| IZ-East | 288 - 385 | 8/28/2006 | 8260 | | | 1 U | 3.1 J | 5 U | 1.7 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 10/2/2006 | 8260 | | | 1 U | 10 U | 5 U | 1.5 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 0.72 J | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/26/2007 | 8260 | | | 1 U | 10 U | 5 U | 2.1 | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 0.72 J | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/26/2007 | 8260 | | | 1 U | 50 U | 10 U | 1.9 | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 7/26/2007 | 8260 | K | | 1 U | 50 U | 10 U | 2.1 | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/10/2008 | 524 | | | 1.2 | 14 UB | 5 U | 4.2 | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.11 J | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 1/10/2008 | 524 | K | | 0.5 U | 2.1 UB | 5 U | 4.3 | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 0.11 J | 0.5 U | -- | 0.17 UB | -- | 10 U | 0.5 U | -- |
| | | 8/29/2008 | 524 | | | 1.1 | 10 U | 5 U | 3.8 | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 UJ | 0.5 U | -- |
| | | 8/29/2008 | 524 | K | | 1.2 | 10 U | 5 U | 4 | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 UJ | 0.5 U | -- |
| | | 5/9/2012 | 524 | | | 0.50 U | 50 | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 190 | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 5/9/2012 | 524 | S | | 0.51 | 44 | 5.0 U | 0.45 J | 0.50 U | 0.50 U | 190 | -- | 0.50 U | 0.50 U | -- | 0.95 J | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| | | 5/9/2012 | 524 | EP | | 0.50 U | 47 | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 53 | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 9/20/2013 | 524 | | | 0.55 | 5.0 U | 5.0 U | 0.39 J | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.97 J | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 9/20/2013 | 8260 | | | 0.60 | 5.0 U | 2.0 U | 0.58 | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | -- | -- | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| | | 9/20/2013 | 524 | S | | 0.49 J | 10 U | 5.0 U | 0.46 J | 0.50 U | 0.50 U | 5.0 U | -- | 0.50 U | 0.50 U | 3.0 U | 1.2 J | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| IZ-East LIZ1 | 324 - 342 | 3/7/2014 | 524 | L | | 0.76 | 5.0 U | 5.0 U | 0.35 J | 0.79 | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.82 J | 190 J | 0.50 U | 0.50 U | 1.1 J | 0.50 U | 0.69 |
| | | 5/8/2014 | 524 | | | 0.74 | 5.0 | 5.0 | 0.39 | 0.050 | 0.50 | 5.0 | 0.50 | 0.50 | 0.50 | 0.10 | 1.1 | 200 | 0.50 | 0.50 | 2.0 | 0.50 | 0.50 |
| | | 7/24/2014 | 524 | | | 1.0 | 5.0 U | 5.0 U | 0.70 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.99 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.83 |
| | | 9/23/2014 | 524 | | | 0.73 | 5.0 U | 5.0 U | 0.44 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.88 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.64 |
| IZ-East LIZ2 | 375 - 385 | 3/7/2014 | 524 | L | | 0.72 | 5.0 U | 5.0 U | 0.35 J | 0.80 | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.52 J | 200 U | 0.50 U | 0.50 U | 0.74 J | 0.50 U | 0.66 |
| | | 3/7/2014 | 524 | L - K | | 0.73 | 5.0 U | 5.0 U | 0.37 J | 0.69 | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.48 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.68 |
| | | 5/8/2014 | 524 | | | 0.60 | 23 | 5.0 | 0.43 | 0.050 | 0.50 | 5.0 | 0.50 | 0.50 | 0.50 | 0.10 | 0.42 | 200 | 0.50 | 0.50 | 2.0 | 0.50 | 0.50 |
| | | 5/8/2014 | 524 | K | | 0.76 | 20 | 5.0 | 0.45 | 0.050 | 0.50 | 5.0 | 0.50 | 0.50 | 0.50 | 0.10 | 0.60 | 200 | 0.50 | 0.50 | 0.95 | 0.50 | 0.50 |
| | | 7/23/2014 | 524 | | | 0.73 | 5.0 U | 5.0 U | 0.66 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.31 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.58 |
| | | 7/23/2014 | 524 | K | | 0.81 | 5.0 U | 5.0 U | 0.65 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.44 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.67 |
| | | 9/23/2014 | 524 | | | 0.46 J | 3.0 J | 5.0 U | 0.40 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 3.5 | 0.50 U | 0.50 U |
| IZ-East UIZ | 288 - 310 | 3/7/2014 | 524 | L | | 0.72 | 1.4 J | 5.0 U | 0.46 J | 0.71 | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.60 J | 200 U | 0.50 U | 0.50 U | 1.7 J | 0.50 U | 0.68 |
| | | 5/8/2014 | 524 | | | 0.85 | 5.0 | 5.0 | 0.59 | 0.050 | 0.50 | 5.0 | 0.50 | 0.50 | 0.50 | 0.10 | 0.94 | 200 | 0.50 | 0.50 | 2.0 | 0.50 | 0.50 |
| | | 7/23/2014 | 524 | | | 0.87 | 5.0 U | 5.0 U | 0.81 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.61 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.82 |
| | | 9/23/2014 | 524 | | | 0.69 | 5.0 U | 5.0 U | 0.54 J | 0.050 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 0.10 U | 0.59 J | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.65 |
| MZ-1 | 180 - 220 | 12/20/2006 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 0.61 J | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/20/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/15/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.071 J | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 8/28/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 5/8/2012 | 524 | | | 0.50 U | 140 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 250 | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 5/8/2012 | 524 | EP | | 0.50 U | 87 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 160 | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 UJ | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 9/19/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.49 J | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 9/19/2013 | 8260 | | | 0.50 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | -- | -- | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| MZ-2 | 230 - 255 | 1/15/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 1/19/2007 | 8260 | | | 1 U | 10 U | 5 U | 1 U | 1 U | 1 U | 5 U | 1 U | 1 U | 1 U | 2 U | 1 U | -- | 1 U | 1 U | 25 U | 1 U | -- |
| | | 7/25/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/9/2008 | 524 | | | 0.5 U | 2.5 J | 5 U | 0.16 J | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 9/2/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |

# Table 4-2
## Analytical Summary
## Volatile Organic Compounds (VOCs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | 1,1,2-TCA | ACT | MIBK | MTBE | 1,1,2,2-PCA | 1,2-DCB | 2-Butanone | Carbon disulfide | Chlorobromo-methane | Dibromo-methane | Diisopropyl ether | Freon-113 | Isopropyl alcohol | Methylene chloride | Styrene | TBA | trans-1,3-DCP | Trihalo-methanes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 5 | | 120# | 13 | 1 | 600 | | 160# | | | | 1200 | | 5 | 100 | | 0.5@ | |
| | | 5/7/2012 | 524 | | | 0.50 UJ | 89 J | 5.0 UJ | 2.0 UJ | 0.50 UJ | 0.50 UJ | 210 J | 0.50 UJ | 0.50 UJ | 0.50 UJ | 2.0 UJ | 5.0 UJ | 200 UJ | 0.50 UJ | 0.50 UJ | 2.0 UJ | 0.50 UJ | -- |
| | | 5/7/2012 | 524 | EP | | 0.50 UJ | 76 J | 5.0 UJ | 2.0 UJ | 0.50 UJ | 0.50 UJ | 230 J | 0.50 UJ | 0.50 UJ | 0.50 UJ | 2.0 UJ | 5.0 UJ | 200 UJ | 0.50 UJ | 0.50 UJ | 2.0 UJ | 0.50 UJ | -- |
| | | 9/18/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 9/18/2013 | 8260 | | | 0.50 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | 1.8 J | 0.50 U | 0.50 U | 0.50 U | -- | -- | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| MZ-3 | 268 - 308 | 8/14/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | 2 U | 10 U | -- | 10 U | 1 U | 10 U | 0.5 U | -- |
| | | 8/17/2007 | 8260 | | | 1 U | 50 U | 10 U | 1 U | 1 U | 1 U | 10 U | 10 U | 1 U | 1 U | -- | 10 U | -- | 10 U | 1 U | -- | 0.5 U | -- |
| | | 1/11/2008 | 524 | | | 0.5 U | 1.9 JB | 5 U | 0.14 J | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.1 J | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 8/27/2008 | 524 | | | 0.5 U | 10 U | 5 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | 0.5 U | 0.5 U | 2 U | 0.5 U | -- | 2 U | -- | 10 U | 0.5 U | -- |
| | | 5/4/2012 | 524 | | | 0.50 U | 27 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 87 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 5/4/2012 | 524 | | | 0.50 U | 22 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 72 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 5/4/2012 | 524 | EP | | 0.50 U | 33 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 100 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | 200 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | -- |
| | | 9/17/2013 | 524 | | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 9/17/2013 | 8260 | | | 0.50 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | -- | -- | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |
| | | 9/17/2013 | 524 | K | | 0.50 U | 5.0 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 5.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 5.0 U | -- | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U |
| | | 9/17/2013 | 8260 | K | | 0.50 U | 5.0 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | 2.0 U | 0.50 U | 0.50 U | 0.50 U | -- | -- | -- | 0.50 U | 0.50 U | -- | 0.50 U | -- |

# Table 4-3
## Analytical Summary
## Semivolatile Organic Compounds (SVOCs) in Groundwater
## IZ Remedy Extraction Wells
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Atrazine 1 | BaP 0.2 | bis(2-Ethylhexyl)phthalate (DEHP) 4 | Caffeine | Carbophenothion | Metolachlor | Phenol | Simazine 4 | Terbufos | Thiobencarb 70 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EPA-MW6-13 | EPA-MW6-13 | 173 - 183 | 8/3/2011 | 525 | L | | 0.25 J | 0.10 U | 0.44 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/3/2011 | 8270 | L | | -- | 1.9 U | **12** | -- | -- | -- | 1.2 | -- | -- | -- |
| MW6-33 | EPAMW6-33 | 475 - 485 | 6/22/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 1/4/2006 | 8270 | | | -- | 9.6 U | 9.6 U | -- | -- | -- | 9.6 U | -- | -- | -- |
| | | | 1/4/2006 | 8270 | K | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 6/26/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 12/20/2006 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 7/20/2011 | 525 | | | 0.49 U | 0.037 J | 2.9 U | -- | -- | 0.49 U | -- | 0.98 U | 0.98 U | 0.024 J |
| | | | 7/20/2011 | 8270 | | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.95 U | -- | -- | -- |
| | | | 10/8/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/1/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/1/2013 | 525 | K | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/29/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/14/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/14/2014 | 525 | | | 0.10 U | 0.10 UJ | 3.0 U | 0.10 U | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| MW6-34 | EPAMW6-34 | 300 - 310 | 6/22/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 12/27/2005 | 8270 | | | -- | 9.6 U | 9.6 U | -- | -- | -- | 9.6 U | -- | -- | -- |
| | | | 6/27/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 12/21/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 7/21/2011 | 525 | | | 0.066 J | 0.10 U | 1.1 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/21/2011 | 8270 | | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.95 U | -- | -- | -- |
| | | | 7/21/2011 | 525 | K | | 0.064 J | 0.10 U | 3.0 U | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/21/2011 | 8270 | K | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.95 U | -- | -- | -- |
| | | | 1/11/2012 | 525 | | | 0.068 J | 0.10 U | **17** | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/3/2012 | 525 | | | 0.080 J | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.050 J | -- | 0.10 UJ |
| | | | 1/23/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/28/2013 | 525 | | | 0.070 J | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/28/2013 | 525 | K | | 0.090 J | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/25/2014 | 525 | | | 0.11 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/25/2014 | 525 | K | | 0.090 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/12/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW6-44 | MW64-4 | 322 - 332 | 6/21/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 12/13/2005 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 6/14/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 12/21/2006 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 7/19/2011 | 525 | | | 0.50 U | 0.10 U | **12** | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/19/2011 | 8270 | | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.53 J | -- | -- | -- |
| | | | 8/8/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW6-45 | MW64-5 | 224 - 234 | 6/14/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 12/20/2005 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 6/22/2006 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 1/8/2007 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 8/5/2011 | 8270 | HS | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.96 U | -- | -- | -- |
| | | | 8/8/2011 | 525 | HS | | 0.50 U | 0.10 U | 0.47 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/10/2011 | 8270 | | | -- | 1.9 U | 4.7 U | -- | -- | -- | 0.94 U | -- | -- | -- |
| MW6-46 | MW64-6 | 147 - 162 | 6/22/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 12/12/2005 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 6/14/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 12/22/2006 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 7/19/2011 | 525 | | | 0.067 J | 0.10 U | 3.0 U | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/19/2011 | 8270 | | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.95 U | -- | -- | -- |
| | | | 1/11/2012 | 525 | | | 0.50 U | 0.10 U | **4.1** | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/8/2012 | 525 | | | 0.070 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.070 J | -- | 0.10 U |
| | | | 8/8/2012 | 525 | K | | 0.070 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.070 J | -- | 0.10 U |
| | | | 1/31/2013 | 525 | | | 0.080 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/27/2013 | 525 | | | 0.080 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/13/2014 | 525 | | | 0.080 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/13/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/13/2014 | 525 | K | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW6-55 | MW6-55 | 250 - 265 | 6/23/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 6/27/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 1/3/2007 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 1/3/2007 | 8270 | K | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 8/11/2011 | 525 | | | 0.50 U | 0.10 U | **11** | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/11/2011 | 8270 | | | -- | 1.9 U | 2.5 J | -- | -- | -- | 0.94 U | -- | -- | -- |

# Table 4-3
## Analytical Summary
## Semivolatile Organic Compounds (SVOCs) in Groundwater
## IZ Remedy Extraction Wells
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Atrazine 1 | BaP 0.2 | bis(2-Ethylhexyl)phthalate (DEHP) 4 | Caffeine | Carbophenothion | Metolachlor | Phenol | Simazine 4 | Terbufos | Thiobencarb 70 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 8/9/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/6/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/21/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/13/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/11/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW6-56 | MW6-56 | 120 - 130 | 6/20/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 12/14/2005 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 6/16/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 12/22/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 7/25/2011 | 525 | | | 0.50 U | 0.10 U | **6.6** | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/25/2011 | 8270 | | | -- | 1.9 U | **4.9** | -- | -- | -- | 0.94 U | -- | -- | -- |
| | | | 1/12/2012 | 525 | | | 0.50 U | 0.10 U | 0.34 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 2/6/2013 | 525 | | | 0.050 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/21/2013 | 525 | | | 0.070 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/13/2014 | 525 | | | 0.070 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/15/2014 | 525 | | | 0.10 U | 0.10 UJ | 3.0 U | 0.10 U | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| MW6-63 | MW6-63 | 197 - 212 | 6/17/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 6/15/2006 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 6/15/2006 | 8270 | K | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 1/2/2007 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 1/2/2007 | 8270 | K | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 7/25/2011 | 525 | | | 0.50 U | 0.10 U | 1.7 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/25/2011 | 8270 | | | -- | 1.9 U | 3.9 J | -- | -- | -- | 0.94 U | -- | -- | -- |
| | | | 7/25/2011 | 525 | K | | 0.50 U | 0.10 U | 1.6 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/25/2011 | 8270 | K | | -- | 1.9 U | 1.8 J | -- | -- | -- | 0.94 U | -- | -- | -- |
| MW6-65 | MW6-65 | 97 - 112 | 6/24/2005 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 12/14/2005 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 6/16/2006 | 8270 | | | -- | 9.6 U | 9.6 U | -- | -- | -- | 9.6 U | -- | -- | -- |
| | | | 1/16/2007 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 7/18/2011 | 525 | | | 0.50 U | 0.10 U | 3.0 U | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/18/2011 | 8270 | | | -- | 1.9 U | 4.7 U | -- | -- | -- | 0.94 U | -- | -- | -- |
| | | | 1/12/2012 | 525 | | | 0.50 U | 0.10 U | 2.8 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/9/2012 | 525 | | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MP20-1 | MP20-01 | 434 - 444 | 8/6/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MP20-2 | MP20-02 | 336 - 346 | 7/12/2011 | 525 | | | 0.49 U | 0.098 U | 2.9 U | -- | -- | 0.49 U | -- | 0.98 U | 0.98 U | 0.98 U |
| | | | 7/12/2011 | 8270 | | | -- | 2.0 U | 4.9 U | -- | -- | -- | 0.98 U | -- | -- | -- |
| | | | 7/30/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/4/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/20/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/13/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/6/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MP20-3 | MP20-03 | 288 - 298 | 7/12/2011 | 525 | | | 0.50 U | 0.099 U | 3.0 U | -- | -- | 0.50 U | -- | 0.99 U | 0.99 U | 0.99 U |
| | | | 7/12/2011 | 8270 | | | -- | 2.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| | | | 1/5/2012 | 525 | | | 0.26 J | 0.10 U | 0.40 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/30/2012 | 525 | | | 0.29 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/4/2013 | 525 | | | 0.24 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/20/2013 | 525 | | | 0.23 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/13/2014 | 525 | | | 0.23 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/7/2014 | 525 | | | 0.26 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MP20-4 | MP20-04 | 194 - 204 | 7/14/2011 | 525 | | | 0.50 U | 0.10 U | 3.0 U | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/14/2011 | 8270 | | | -- | 8.0 U | **9.3 J** | -- | -- | -- | 4.0 U | -- | -- | -- |
| | | | 1/5/2012 | 525 | | | 0.069 J | 0.10 U | 0.49 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/30/2012 | 525 | | | 0.10 J | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MP21-2 | MP21-02 | 435 - 445 | 7/13/2011 | 525 | | | 0.50 U | 0.10 U | 3.0 U | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 8270 | | | -- | 2.0 U | 4.9 U | -- | -- | -- | 0.98 U | -- | -- | -- |
| | | | 8/7/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MP21-3 | MP21-03 | 365 - 375 | 7/13/2011 | 525 | | | 0.51 U | 0.10 U | 3.0 U | -- | -- | 0.51 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 8270 | | | -- | 2.1 U | 5.2 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| | | | 1/4/2012 | 525 | | | 0.50 U | 0.10 U | 3.0 U | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/31/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/5/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/19/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/14/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/7/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MP21-4 | MP21-04 | 320 - 330 | 7/13/2011 | 525 | | | 0.51 U | 0.10 U | 3.0 U | -- | -- | 0.51 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/13/2011 | 8270 | | | -- | 2.1 U | **9.3** | -- | -- | -- | 1.1 U | -- | -- | -- |

# Table 4-3
## Analytical Summary
## Semivolatile Organic Compounds (SVOCs) in Groundwater
## IZ Remedy Extraction Wells
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Atrazine 1 | BaP 0.2 | bis(2-Ethylhexyl)phthalate (DEHP) 4 | Caffeine | Carbophenothion | Metolachlor | Phenol | Simazine 4 | Terbufos | Thiobencarb 70 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1/4/2012 | 525 | | | 0.50 U | 0.10 U | 0.39 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/31/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/5/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/19/2013 | 525 | | | 0.090 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.080 J | -- | 0.10 U |
| | | | 3/14/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/26/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MP21-5 | MP21-05 | 245 - 255 | 7/14/2011 | 525 | | | 0.071 J | 0.10 U | 3.0 U | -- | -- | 0.51 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/14/2011 | 8270 | | | -- | 2.1 U | 5.2 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| | | | 1/4/2012 | 525 | | | 0.069 J | 0.10 U | 0.43 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/31/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 7/31/2012 | 525 | K | | 0.080 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.090 J | -- | 0.10 U |
| | | | 2/5/2013 | 525 | | | 0.070 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/19/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/14/2014 | 525 | | | 0.090 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/26/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW-6-1-5 | EPAMW61-5 | 354 - 364 | 8/21/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/12/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/8/2014 | 525 | | | R | R | R | R | R | R | -- | R | -- | R |
| MW-6-1-6 | EPAMW61-6 | 470 - 480 | 8/21/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/12/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/8/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW-6-1-7 | EPAMW61-7 | 594 - 604 | 8/21/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/12/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/8/2014 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW6-10d | MW6-10d | 539 - 554 | 8/8/2011 | 525 | HS | | 0.50 U | 0.10 U | 3.0 U | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/10/2011 | 8270 | HS | | -- | 1.9 U | 4.7 U | -- | -- | -- | 0.94 U | -- | -- | -- |
| | | | 12/22/2011 | 525 | HS | | 0.51 U | 0.10 U | 0.47 J | -- | -- | 0.51 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/1/2012 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 1/25/2013 | 525 | HS | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/7/2013 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/24/2014 | 525 | HS | | 0.11 U | 0.11 U | 3.3 U | 0.11 U | 0.11 U | 0.11 U | -- | 0.11 U | -- | 0.11 U |
| | | | 8/18/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 U | 0.10 U | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| MW6-10i | MW6-10i | 336 - 356 | 7/13/2011 | 525 | L | | 0.50 U | 0.099 U | 1.4 J | -- | -- | 0.50 U | -- | 0.99 U | 0.99 U | 0.99 U |
| | | | 7/13/2011 | 8270 | L | | -- | 1.9 U | 4.8 U | -- | -- | -- | 1.8 | -- | -- | -- |
| | | | 7/18/2011 | 525 | | | 0.50 U | 0.10 U | 0.38 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 7/18/2011 | 8270 | | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.96 U | -- | -- | -- |
| | | | 12/22/2011 | 525 | HS | | 0.51 U | 0.10 U | 2.3 J | -- | -- | 0.51 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/1/2012 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 1/25/2013 | 525 | HS | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/7/2013 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/24/2014 | 525 | HS | | 0.11 U | 0.11 U | 3.3 U | 0.11 U | 0.11 U | 0.11 U | -- | 0.11 U | -- | 0.11 U |
| | | | 8/18/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW6-12i | MW6-12i | 260 - 275 | 6/15/2005 | 8270 | L | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 8/8/2011 | 525 | HS | | 0.50 U | 0.10 U | 1.8 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/10/2011 | 8270 | HS | | -- | 1.9 U | 2.0 J | -- | -- | -- | 0.95 U | -- | -- | -- |
| | | | 12/22/2011 | 525 | HS | | 0.52 U | 0.10 U | 0.98 J | -- | -- | 0.52 U | -- | 1.0 U | 1.1 | 1.0 U |
| | | | 8/1/2012 | 525 | HS | | 0.10 U | 0.10 U | 1.4 J | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 1/25/2013 | 525 | HS | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/7/2013 | 525 | HS | | 0.10 U | 0.10 U | 1.1 J | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/24/2014 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/29/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW6-13i | MW6-13i | 246 - 261 | 7/13/2011 | 525 | L | | 0.50 U | 0.099 U | **5.0** | -- | -- | 0.50 U | -- | 0.99 U | 0.99 U | 0.99 U |
| | | | 7/13/2011 | 8270 | L | | -- | 1.9 U | 1.6 J | -- | -- | -- | 0.74 J | -- | -- | -- |
| | | | 1/3/2012 | 525 | HS | | 0.50 U | 0.10 U | 0.51 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 0.040 J |
| | | | 8/1/2012 | 525 | HS | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| | | | 1/25/2013 | 525 | HS | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/13/2013 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/24/2014 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/29/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW6-17i | MW6-17i | 212 - 232 | 6/14/2005 | 8270 | L | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 12/19/2005 | 8270 | L | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 6/20/2006 | 8270 | L | | -- | 9.4 U | **4.3 J** | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 1/8/2007 | 8270 | L | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 8/8/2011 | 525 | HS | | 0.50 U | 0.10 U | 3.0 U | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/8/2011 | 8270 | HS | | -- | 2.0 U | 4.9 U | -- | -- | -- | 0.98 U | -- | -- | -- |
| | | | 8/10/2011 | 8270 | HS | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.95 U | -- | -- | -- |

# Table 4-3
## Analytical Summary
## Semivolatile Organic Compounds (SVOCs) in Groundwater
## IZ Remedy Extraction Wells
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Atrazine 1 | BaP 0.2 | bis(2-Ethylhexyl)phthalate (DEHP) 4 | Caffeine | Carbophenothion | Metolachlor | Phenol | Simazine 4 | Terbufos | Thiobencarb 70 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/22/2011 | 525 | HS | | 0.51 U | 0.10 U | 0.53 J | -- | -- | 0.51 U | -- | 1.0 U | 1.0 U | 1.0 U |
| MW7-1A | MW6-09i | 350 - 370 | 12/15/2005 | 8270 | L | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 8/8/2011 | 525 | HS | | 0.50 U | 0.10 U | 0.37 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/10/2011 | 8270 | | | -- | 1.9 U | 4.8 U | -- | -- | -- | 0.95 U | -- | -- | -- |
| | | | 12/22/2011 | 525 | HS | | 0.51 U | 0.10 U | 1.0 J | -- | -- | 0.51 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/1/2012 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 1/25/2013 | 525 | HS | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/7/2013 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/26/2014 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/19/2014 | 525 | L | | R | R | R | R | R | R | -- | R | -- | R |
| MW7-1B | MW6-09UI2 | 380 - 420 | 8/14/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/11/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/20/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-1C | MW6-09LI | 435 - 450 | 8/14/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/11/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/20/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-2A | MW6-22UI | 302 - 317 | 8/12/2013 | 525 | L | | 0.10 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/12/2013 | 525 | L - K | | 0.11 | 0.10 U | 1.2 J | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/12/2014 | 525 | L | | 0.13 | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/12/2014 | 525 | L - K | | 0.12 | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/27/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/27/2014 | 525 | L - K | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-2B | MW6-22LI1 | 348 - 358 | 8/12/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/13/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/27/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-2C | MW6-22LI2 | 380 - 390 | 8/13/2013 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| | | | 2/12/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/27/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-2D | MW6-22D | 452 - 462 | 1/25/2013 | 525 | | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/12/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/13/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/28/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-3A | MW6-23UI | 338 - 348 | 4/19/2013 | 525 | | | 0.16 | 0.1 U | 3 U | 0.1 U | 0.1 U | 0.1 U | -- | 0.1 U | -- | 0.1 U |
| | | | 8/15/2013 | 525 | L | | 0.17 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/14/2014 | 525 | L | | 0.18 | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/26/2014 | 525 | L | | 0.22 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-3B | MW6-23LI | 434 - 444 | 8/16/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/14/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/26/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-3C | MW6-23D | 490 - 500 | 1/31/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/16/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/21/2014 | 525 | L | | 0.10 U | 0.13 | 3.0 U | 0.10 UJ | 0.10 U | R | -- | 0.10 U | -- | 0.10 U |
| | | | 8/26/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-4A | MW6-24UI | 320 - 335 | 8/9/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/20/2014 | 525 | L | | 0.13 | 0.11 U | 3.3 U | 0.11 U | 0.11 U | 0.11 U | -- | 0.11 U | -- | 0.11 U |
| | | | 8/25/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-4B | MW6-24LI | 365 - 375 | 8/12/2013 | 525 | L | | 0.13 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/21/2014 | 525 | L | | 0.12 | 0.11 U | 3.3 U | 0.11 U | 0.11 U | 0.11 U | -- | 0.11 U | -- | 0.11 U |
| | | | 8/25/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-5A | MW6-25UI | 338 - 348 | 4/18/2013 | 525 | | | 0.1 U | 0.1 U | 3 U | 0.1 U | 0.1 U | 0.1 U | -- | 0.1 U | -- | 0.1 U |
| | | | 8/19/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/14/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/21/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-5B | MW6-25LI | 388 - 398 | 8/19/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/14/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/21/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-6 | MW6-26UI | 362 - 372 | 4/26/2013 | 525 | | | 0.1 U | 0.1 U | 3 U | 0.1 U | 0.1 U | 0.1 U | -- | 0.1 U | -- | 0.1 U |
| | | | 8/9/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/9/2013 | 525 | L - K | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| | | | 2/17/2014 | 525 | L | | 0.10 U | 0.10 U | 1.5 J | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/17/2014 | 525 | L - K | | 0.10 U | 0.10 U | 1.9 J | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/3/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/3/2014 | 525 | L - K | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-7A | MW6-27UI1 | 288 - 308 | 8/7/2013 | 525 | L | | 0.22 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/19/2014 | 525 | L | | 0.32 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 7/24/2014 | 525 | L | | 0.46 J | R | R | R | R | R | -- | R | -- | R |

# Table 4-3
## Analytical Summary
## Semivolatile Organic Compounds (SVOCs) in Groundwater
## IZ Remedy Extraction Wells
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Atrazine 1 | BaP 0.2 | bis(2-Ethylhexyl)phthalate (DEHP) 4 | Caffeine | Carbophenothion | Metolachlor | Phenol | Simazine 4 | Terbufos | Thiobencarb 70 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-7B | MW6-27UI2 | 320 - 330 | 8/7/2013 | 525 | L | | 0.29 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/20/2014 | 525 | L | | 0.26 | 0.11 U | 3.3 U | 0.11 U | 0.11 U | 0.11 U | -- | 0.11 U | -- | 0.11 U |
| | | | 7/24/2014 | 525 | L | | R | R | R | R | R | R | -- | R | -- | R |
| MW7-7C | MW6-27LI1 | 347 - 362 | 8/8/2013 | 525 | L | | 0.31 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/18/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 7/25/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-7D | MW6-27LI2 | 377 - 387 | 8/6/2013 | 525 | L | | 0.19 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/6/2013 | 525 | L - K | | 0.19 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/19/2014 | 525 | L | | 0.22 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/19/2014 | 525 | L - K | | 0.30 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/23/2014 | 525 | | | 0.17 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-7E | MW6-27D | 434 - 444 | 8/5/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/20/2014 | 525 | L | | 0.11 U | 0.11 U | 3.3 U | 0.11 U | 0.11 U | 0.11 U | -- | 0.11 U | -- | 0.11 U |
| | | | 8/19/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-8A | MW6-28UI | 340 - 360 | 10/25/2013 | 525 | L | | 0.090 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/10/2014 | 525 | L | | 0.11 | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/3/2014 | 525 | L | | 0.11 J | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-8B | MW6-28LI | 454 - 464 | 10/25/2013 | 525 | L | | 0.090 J | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/10/2014 | 525 | L | | 0.10 | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/3/2014 | 525 | L | | 0.12 J | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-9A | MW6-29UI | 365 - 385 | 8/9/2013 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| | | | 2/17/2014 | 525 | L | | 0.10 U | 0.20 | 1.1 J | 0.10 U | 0.20 | 0.15 | -- | 0.15 | -- | 0.15 |
| | | | 8/14/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-9B | MW6-29LI | 412 - 432 | 8/8/2013 | 525 | L | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/17/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/14/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 U | 0.10 U | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| | | | 8/14/2014 | 525 | L - K | | 0.10 U | 0.10 UJ | 3.0 U | 0.10 U | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| MW7-9C | MW6-29D | 475 - 490 | 8/9/2013 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| | | | 2/17/2014 | 525 | L | | 0.10 U | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/14/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-10 | PMW-6 | 258 - 278 | 11/15/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/12/2014 | 525 | L | | 0.17 | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 2/12/2014 | 525 | L - K | | 0.20 | 0.10 U | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/2/2014 | 525 | L | | 0.17 | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/2/2014 | 525 | L - K | | 0.16 | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| MW7-11A | PMW-7A | 390 - 410 | 2/18/2014 | 525 | L | | 0.10 U | 0.14 | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/22/2014 | 525 | L | | R | R | R | R | R | R | -- | R | -- | R |
| MW7-11B | PMW-7B | 460 - 470 | 3/10/2014 | 525 | L | | 0.10 U | 0.10 U | **7.7** | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/22/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-12A | PMW-8A | 390 - 410 | 2/13/2014 | 525 | L | | 0.10 U | 0.10 U | 1.7 J | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/5/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-12B | PMW-8B | 460 - 470 | 2/13/2014 | 525 | L | | 0.10 U | 0.10 U | 1.8 J | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/5/2014 | 525 | L | | R | R | R | R | R | R | -- | R | -- | R |
| MW7-13A | PMW-5A | 303 - 313 | 3/28/2014 | 525 | L | | 0.38 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/4/2014 | 525 | L | | 0.40 J | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-13B | PMW-5B | 323 - 333 | 3/26/2014 | 525 | L | | 0.46 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/4/2014 | 525 | L | | 0.39 J | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| MW7-15A | MW6-16i | 304 - 314 | 8/8/2011 | 525 | L | | 0.50 U | 0.10 U | 0.73 J | -- | -- | 0.50 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/10/2011 | 8270 | HS | | -- | 1.9 U | 4.7 U | -- | -- | -- | 0.94 U | -- | -- | -- |
| | | | 12/22/2011 | 525 | HS | | 0.51 U | 0.10 U | 0.92 J | -- | -- | 0.51 U | -- | 1.0 U | 1.0 U | 1.0 U |
| | | | 8/1/2012 | 525 | HS | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.52 J | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| | | | 2/8/2013 | 525 | HS | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.51 J | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| | | | 8/7/2013 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.49 | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 3/26/2014 | 525 | HS | | 0.10 U | 0.10 U | 3.0 U | 0.36 | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/2/2014 | 525 | L | | 0.10 U | 0.10 UJ | 3.0 UJ | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| S11A | S11A | 190 - 220 | 3/19/2014 | 525 | L | | 0.13 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 8/28/2014 | 525 | L | | 0.10 UJ | 0.10 UJ | 3.0 UJ | 0.10 UJ | 0.10 UJ | 0.10 UJ | -- | 0.10 UJ | -- | 0.10 UJ |
| IZ-1 | IZ-1 | 278 - 368 | 12/14/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 7/23/2007 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 1/15/2008 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 5/8/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 UJ | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| | | | 5/8/2012 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 3.2 | -- | -- | -- |
| | | | 9/19/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 UJ | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/19/2013 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| IZ-2 | IZ-2 | 305 - 385 | 10/13/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 1/12/2007 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |

# Table 4-3
## Analytical Summary
## Semivolatile Organic Compounds (SVOCs) in Groundwater
## IZ Remedy Extraction Wells
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Atrazine 1 | BaP 0.2 | bis(2-Ethylhexyl)phthalate (DEHP) 4 | Caffeine | Carbophenothion | Metolachlor | Phenol | Simazine 4 | Terbufos | Thiobencarb 70 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 7/24/2007 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 1/9/2008 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 5/7/2012 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 UJ | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| | | | 5/7/2012 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| | | | 9/18/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 UJ | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/18/2013 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| IZ-East | IZ-East | 288 - 385 | 10/2/2006 | 8270 | | | -- | 9.5 U | 9.5 U | -- | -- | -- | 9.5 U | -- | -- | -- |
| | | | 1/26/2007 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 7/26/2007 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 7/26/2007 | 8270 | K | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 1/10/2008 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 1/10/2008 | 8270 | K | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 5/9/2012 | 525 | | | 0.30 | 0.10 U | 3.0 U | 0.10 UJ | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| | | | 5/9/2012 | 8270 | | | -- | 1.0 U | **6.5** | -- | -- | -- | 2.6 | -- | -- | -- |
| | | | 9/20/2013 | 525 | | | 0.23 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/20/2013 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| | | | 9/20/2013 | 525 | S | | 0.48 J | 0.10 U | 3.0 U | -- | -- | -- | -- | 1.0 U | -- | 1.0 U |
| MZ-1 | MZ-1 | 180 - 220 | 12/20/2006 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 7/20/2007 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 1/15/2008 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 5/8/2012 | 525 | | | 0.10 | 0.10 U | 3.0 U | 0.10 UJ | 0.10 U | 0.10 UJ | -- | 0.10 U | -- | 0.10 U |
| | | | 5/8/2012 | 8270 | | | -- | 1.0 U | 3.4 J | -- | -- | -- | 0.78 J | -- | -- | -- |
| | | | 9/19/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 UJ | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/19/2013 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| MZ-2 | MZ-2 | 230 - 255 | 1/19/2007 | 8270 | | | -- | 9.4 U | 9.4 U | -- | -- | -- | 9.4 U | -- | -- | -- |
| | | | 7/25/2007 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 1/9/2008 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 5/7/2012 | 525 | | | 0.16 | 0.10 U | 3.0 U | 0.10 UJ | 0.10 U | 0.060 J | -- | 0.10 U | -- | 0.060 J |
| | | | 5/7/2012 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.7 | -- | -- | -- |
| | | | 9/18/2013 | 525 | | | 0.12 | 0.10 U | 3.0 U | 0.10 U | 0.10 UJ | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/18/2013 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| MZ-3 | MZ-3 | 268 - 308 | 8/17/2007 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 1/11/2008 | 8270 | | | -- | 10 U | 10 U | -- | -- | -- | 10 U | -- | -- | -- |
| | | | 5/4/2012 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| | | | 5/4/2012 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| | | | 5/9/2012 | 525 | | | 0.10 | 0.10 U | 3.0 U | 0.10 U | 0.10 U | 0.10 U | -- | 0.080 J | -- | 0.10 U |
| | | | 5/9/2012 | 525 | | | 0.11 | 0.10 U | 1.6 J | 0.10 U | 0.10 U | 0.10 U | -- | 0.070 J | -- | 0.10 U |
| | | | 9/17/2013 | 525 | | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 UJ | 0.10 U | -- | 0.10 U | -- | 0.10 U |
| | | | 9/17/2013 | 8270 | | | -- | 1.0 U | 5.0 U | -- | -- | -- | 1.0 U | -- | -- | -- |
| | | | 9/17/2013 | 525 | K | | 0.10 U | 0.10 U | 3.0 U | 0.10 U | 0.10 UJ | 0.10 U | -- | 0.10 U | -- | 0.10 U |

Notes:
All concentrations are in micrograms per liter (µg/L).
MCL = California Maximum Containment Levels, unless otherwise noted with a symbol.
Only analytes detected at concentrations greater than the laboratory reporting limits in one or more samples are listed.
-- = Analyte was not analyzed by laboratory.
ft bgs = feet below ground surface
J = Estimated concentration between method detection and reporting limits OR qualified during data validation
U = Not detected at a concentration greater than the limit shown.
B = Compound also detected in the laboratory blank
K = Duplicate groundwater sample
L = Low Flow
L-K = Low Flow and Duplicate groundwater sample
HS = HydraSleeve
S = Split groundwater sample
Indeno(1,2,3-cd) pyrene, benzo(b)fluoranthene, benzo(g,h,i)perylene, benzo(k)fluoranthene were detected below the reporting limit (RL) and above the method detection limit (MDL) (J flagged) are not included on this table.
Tetrachloroethene (PCE) has occasionally been analyzed by SVOC methods, however, only the volatile organic compound (VOC)
analysis results for PCE are used for this project. PCE is presented on the VOC table.
BaP = Benzo(a)pyrene
Naphthalene is only presented as a VOC on the VOC table, however, it was analyzed with SVOC compounds

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/300 6 | 1,4-Dioxane 8260/8270 1* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/218 10 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| EPA-MW6-13 | EPA-MW6-13 | 173 - 183 | 8/3/2011 | L | | **8.5** | **76** | - | 8 UJ | 1000 |
| MW6-31 | EPAMW6-31 | 1068 - 1083 | 4/5/2002 | | | 4 U | 0.5 U | - | 2 U | 410 |
| MW6-32 | EPAMW6-32 | 717 - 727 | 4/5/2002 | | | 4 U | 0.5 U | - | 2 U | 680 |
| MW6-33 | EPAMW6-33 | 475 - 485 | 4/5/2002 | | | 4 U | 0.5 U | - | 2 U | 590 |
| | | | 10/23/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 570 |
| | | | 10/23/2003 | K | | 2 U | 1 U | 0.005 U | 2 U | 550 |
| | | | 6/22/2005 | | | 4 U | 1 U | 0.005 U | - | 602 |
| | | | 1/4/2006 | | | 3.8 J | 0.97 U | 0.005 U | - | 921 |
| | | | 1/4/2006 | K | | 3.4 J | 0.95 U | 0.005 U | - | 923 |
| | | | 6/26/2006 | | | 4 U | 0.96 U | 0.005 U | - | 717 |
| | | | 12/20/2006 | | | 4 U | 0.95 U | 0.005 U | - | 594 |
| | | | 6/28/2007 | | | - | 2 U | - | - | - |
| | | | 1/4/2011 | | | 2.0 U | 0.19 U | - | - | 460 |
| | | | 7/20/2011 | | | 2.0 U | 0.19 U | - | 8 U | 600 |
| | | | 10/8/2012 | | | 0.038 J | 0.50 U | - | - | - |
| | | | 2/1/2013 | | | 0.068 J | 0.50 U | - | - | - |
| | | | 2/1/2013 | K | | 0.10 U | 0.50 U | - | - | - |
| | | | 8/29/2013 | | | 0.10 U | 0.50 U | - | - | - |
| | | | 3/14/2014 | | | 0.10 U | 0.50 U | 0.0050 U | - | - |
| | | | 8/14/2014 | | | 0.10 U | 0.50 U | 0.0050 U | 0.0087 J | 590 |
| MW6-34 | EPAMW6-34 | 300 - 310 | 4/4/2002 | | | 5.6 | **2.5** | - | 2 U | 950 |
| | | | 4/4/2002 | K | | **6.1** | **2.6** | - | 2 U | 960 |
| | | | 10/23/2003 | | | **6.8** | **1.3** | 0.005 U | 2 U | 1000 |
| | | | 6/22/2005 | | | **6.9** | 0.91 J | 0.005 U | - | 1030 |
| | | | 12/27/2005 | | | 5.8 | **1.2** | 0.005 U | - | 1010 |
| | | | 6/27/2006 | | | **6.5** | **1.1** | 0.005 U | - | 1140 |
| | | | 12/21/2006 | | | 6 | **1.2** | 0.005 U | - | 1070 |
| | | | 6/27/2007 | | | 5.1 | **2.6** | - | - | 1120 |
| | | | 1/5/2011 | | | 5.6 | 1.0 | - | - | 1400 |
| | | | 7/21/2011 | | | 4.9 | **1.2** | - | 8 UJ | 1100 |
| | | | 7/21/2011 | K | | 4.7 | **1.2** | - | 8 UJ | 1100 |
| | | | 1/11/2012 | | | 5.3 | 0.92 | - | - | - |
| | | | 8/3/2012 | | | 5.3 | **2.0** | - | - | - |
| | | | 1/23/2013 | | | **6.1 J** | **1.6** | - | - | - |
| | | | 8/28/2013 | | | 5.5 | **1.7** | 0.0050 U | - | - |
| | | | 8/28/2013 | K | | 5.5 | **1.7** | 0.0050 U | - | - |
| | | | 3/25/2014 | | | 5.1 | **1.4** | 0.0050 U | - | - |
| | | | 3/25/2014 | K | | 5.5 | **1.4** | 0.0050 U | - | - |
| | | | 8/12/2014 | | | 5.8 | **1.6** | 0.0050 U | 0.39 J | 1100 |
| MW6-35 | EPAMW6-35 | 215 - 230 | 4/8/2002 | | | 4 U | 0.5 U | - | 2 U | 910 |
| MW6-41 | MW64-1 | 1107 - 1122 | 5/1/1995 | | | - | - | - | - | 970 |
| | | | 8/4/1995 | | | - | - | - | - | 970 |
| | | | 10/18/1995 | | | - | - | - | - | 860 |
| | | | 4/3/2002 | | | 4 U | 0.5 U | - | 2 U | 970 |
| MW6-42 | MW64-2 | 660 - 680 | 5/1/1995 | | | - | - | - | - | 880 |
| | | | 8/3/1995 | | | - | - | - | - | 930 |
| | | | 10/17/1995 | | | - | - | - | - | 940 |
| | | | 2/3/1998 | | | 4 U | - | - | - | - |
| | | | 4/3/2002 | | | 4 U | 0.5 U | - | 2 U | 900 |
| MW6-43 | MW64-3 | 424 - 434 | 5/2/1995 | | | - | - | - | - | 480 |
| | | | 8/8/1995 | | | - | - | - | - | 610 |
| | | | 10/18/1995 | | | - | - | - | - | 500 |
| | | | 4/2/2002 | | | 4 U | 0.5 U | - | 2 U | 500 |
| MW6-44 | MW64-4 | 322 - 332 | 5/2/1995 | | | - | - | - | - | 630 |
| | | | 8/8/1995 | | | - | - | - | - | 620 |
| | | | 10/17/1995 | | | - | - | - | - | 670 |
| | | | 4/2/2002 | | | 4 U | 0.5 U | - | 2 U | 630 |
| | | | 12/5/2002 | | | 4 U | 1 U | - | 2 U | - |
| | | | 10/22/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 580 |
| | | | 6/21/2005 | | | 4 U | 1 U | 0.005 U | - | 633 |
| | | | 12/13/2005 | | | 4.3 | 1 U | 0.005 U | - | 603 |
| | | | 6/14/2006 | | | 4 U | 0.95 U | 0.005 U | - | 969 |
| | | | 12/21/2006 | | | 4 U | 0.95 U | 0.005 U | - | 614 |
| | | | 6/22/2007 | | | - | 2 U | - | - | - |
| | | | 7/19/2011 | | | 2.0 U | 0.19 U | - | 8 UJ | 600 |
| | | | 8/8/2012 | | | 0.10 U | 0.50 U | - | - | - |
| MW6-45 | MW64-5 | 224 - 234 | 5/2/1995 | | | - | - | - | - | 660 |
| | | | 5/2/1995 | K | | - | - | - | - | 650 |
| | | | 8/8/1995 | | | - | - | - | - | 600 |
| | | | 10/17/1995 | | | - | - | - | - | 640 |
| | | | 2/2/1998 | | | 4 U | - | - | - | - |
| | | | 5/29/2002 | | | 4 U | 0.5 U | - | 2 U | 600 |
| | | | 12/23/2002 | | | 4 U | 1 U | - | 2 U | 580 |
| | | | 10/22/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 650 |
| | | | 6/14/2005 | | | 4 U | 1 U | 0.005 U | - | 628 |
| | | | 12/20/2005 | | | 4 U | 0.95 U | 0.005 U | - | 616 |
| | | | 6/22/2006 | | | 4 U | 0.95 U | 0.005 U | - | 590 |
| | | | 1/8/2007 | | | 4 U | 0.95 U | 0.0033 UJB | - | 597 |

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/3006 | 1,4-Dioxane 8260/82701* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/21810 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 7/2/2007 | | | 2 U | 2 U | - | - | 566 |
| | | | 8/8/2011 | HS | | 2.0 U | 0.19 U | - | - | 550 |
| MW6-46 | MW64-6 | 147 - 162 | 5/2/1995 | | | - | - | - | - | 990 |
| | | | 8/8/1995 | | | - | - | - | - | 1000 |
| | | | 10/18/1995 | | | - | - | - | - | 1100 |
| | | | 2/2/1998 | | | 4 U | - | - | - | - |
| | | | 4/3/2002 | | | 4 U | **4.6** | - | 2.1 | 1000 |
| | | | 4/3/2002 | K | | 4 U | **4.7** | - | 2.8 | 1100 |
| | | | 10/22/2003 | | | 3.6 | **1.8** | 0.005 U | 2 U | 1000 |
| | | | 6/22/2005 | | | 4 | **1.1** | 0.005 U | - | 1150 |
| | | | 12/12/2005 | | | 2.9 J | 1 U | 0.005 U | - | 1160 |
| | | | 6/14/2006 | | | 5 | **1.2** | 0.005 U | - | 1170 |
| | | | 12/22/2006 | | | 2.1 J | **1.7** | 0.005 U | - | 1160 |
| | | | 6/22/2007 | | | 2.8 | **3.2** | - | - | 594 |
| | | | 1/5/2011 | | | 3.4 | **1.3** | - | - | 1300 |
| | | | 7/19/2011 | | | 2.9 | **1.1** | - | 8 U | 1000 |
| | | | 1/11/2012 | | | 3.7 | 1.2 U | - | - | - |
| | | | 8/8/2012 | | | 3.8 | **2.2** | - | - | - |
| | | | 8/8/2012 | K | | 4.2 | **2.1** | - | - | - |
| | | | 1/31/2013 | | | 4.4 | **1.6** | - | - | - |
| | | | 8/27/2013 | | | 4.1 | **2.0** | 0.0050 U | - | - |
| | | | 3/13/2014 | | | 4.1 | **1.9** | 0.0050 U | - | - |
| | | | 8/13/2014 | | | 4.5 | **2.0** | 0.0050 U | 1.4 J | 1200 |
| | | | 8/13/2014 | K | | 4.4 | **2.1** | 0.0050 U | 1.3 J | 1200 |
| MW6-51 | MW6-51 | 1063 - 1078 | 5/3/1995 | | | - | - | - | - | 720 |
| | | | 8/2/1995 | | | - | - | - | - | 770 |
| | | | 10/17/1995 | | | - | - | - | - | 780 |
| | | | 4/9/2002 | | | 4 U | 0.5 U | - | 2 U | 740 |
| MW6-52 | MW6-52 | 876 - 896 | 5/4/1995 | | | - | - | - | - | 830 |
| | | | 8/2/1995 | | | - | - | - | - | 840 |
| | | | 10/17/1995 | | | - | - | - | - | 860 |
| | | | 2/4/1998 | | | 4 U | - | - | - | - |
| | | | 4/9/2002 | | | 4 U | 0.5 U | - | 2 U | 850 |
| MW6-53 | MW6-53 | 578 - 598 | 5/3/1995 | | | - | - | - | - | 890 |
| | | | 8/1/1995 | | | - | - | - | - | 950 |
| | | | 10/17/1995 | | | - | - | - | - | 920 |
| | | | 4/8/2002 | | | 4 U | 0.5 U | - | 2 U | 910 |
| MW6-54 | MW6-54 | 324 - 344 | 5/4/1995 | | | - | - | - | - | 850 |
| | | | 8/1/1995 | | | - | - | - | - | 900 |
| | | | 10/16/1995 | | | - | - | - | - | 900 |
| | | | 2/3/1998 | | | 4 U | - | - | - | - |
| | | | 4/10/2002 | | | 4 U | 0.5 U | - | 2 U | 860 |
| | | | 12/5/2002 | | | 4 U | 1 U | - | 2 U | - |
| | | | 10/24/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 810 |
| | | | 10/24/2003 | L | | 2 U | 1 U | 0.005 U | 2 U | 840 |
| MW6-55 | MW6-55 | 250 - 265 | 5/4/1995 | | | - | - | - | - | 860 |
| | | | 8/1/1995 | | | - | - | - | - | 580 |
| | | | 10/17/1995 | | | - | - | - | - | 570 |
| | | | 4/10/2002 | | | 4 U | 0.5 U | - | 2 U | 560 |
| | | | 6/23/2005 | | | 4 U | 1 U | 0.005 U | - | 553 |
| | | | 12/23/2005 | | | 4 U | 0.96 U | 0.005 U | - | 518 |
| | | | 6/27/2006 | | | 4 U | 0.95 U | 0.005 U | - | 623 |
| | | | 1/3/2007 | | | 4 U | 0.95 U | 0.005 U | - | 547 |
| | | | 1/3/2007 | K | | 4 U | 0.95 U | 0.005 U | - | 558 |
| | | | 6/29/2007 | | | - | 2 U | - | - | - |
| | | | 6/29/2007 | K | | - | 2 U | - | - | - |
| | | | 8/11/2011 | | | 2.0 U | 0.19 U | - | 8 U | 560 |
| | | | 8/9/2012 | | | 0.31 | 0.50 U | - | - | - |
| | | | 2/6/2013 | | | 0.20 | 0.50 U | - | - | - |
| | | | 8/21/2013 | | | 0.21 | 0.50 U | - | - | - |
| | | | 3/13/2014 | | | 0.20 | 0.50 U | 0.0050 U | - | - |
| | | | 8/11/2014 | | | 0.12 | 0.50 U | 0.0050 U | 0.030 UJ | 540 |
| MW6-56 | MW6-56 | 120 - 130 | 5/4/1995 | | | - | - | - | - | 1000 |
| | | | 8/1/1995 | | | - | - | - | - | 1100 |
| | | | 8/1/1995 | K | | - | - | - | - | 1000 |
| | | | 10/16/1995 | | | - | - | - | - | 1100 |
| | | | 2/3/1998 | | | 4.84 | - | - | - | - |
| | | | 6/20/2005 | | | 4.8 | 0.94 J | 0.005 U | - | 9 J |
| | | | 12/14/2005 | | | 4 U | 1 U | 0.005 U | - | 1040 |
| | | | 6/16/2006 | | | 4.8 | **1.2** | 0.005 U | - | 1070 |
| | | | 12/22/2006 | | | 5.5 | **1.1** | 0.005 U | - | 1060 |
| | | | 6/26/2007 | | | 4 | **2** | - | - | 983 |
| | | | 1/6/2011 | | | - | 0.52 | - | - | 990 |
| | | | 7/25/2011 | | | 5.8 | 0.94 | - | 8 UJ | 1100 |
| | | | 1/12/2012 | | | **6.2** | 1.0 | - | - | - |
| | | | 2/6/2013 | | | **7.5** | **1.1** | - | - | - |
| | | | 8/21/2013 | | | **7.5** | 1.0 | 0.0050 U | - | - |
| | | | 3/13/2014 | | | **7.2** | 0.93 | 0.0050 U | - | - |
| | | | 8/15/2014 | | | **6.8** | 0.99 | 0.0050 U | 1.5 | 1000 |

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/300 6 | 1,4-Dioxane 8260/8270 1* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/218 10 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| MW6-61 | MW6-61 | 446 - 456 | 5/5/1995 | | | - | - | - | - | 730 |
| | | | 8/7/1995 | | | - | - | - | - | 740 |
| | | | 10/19/1995 | | | - | - | - | - | 850 |
| MW6-62 | MW6-62 | 310 - 325 | 5/5/1995 | | | - | - | - | - | 760 |
| | | | 5/5/1995 | K | | - | - | - | - | 750 |
| | | | 8/7/1995 | | | - | - | - | - | 790 |
| | | | 10/19/1995 | | | - | - | - | - | 860 |
| | | | 10/28/2003 | | | **12** | 1 U | 0.005 U | 2 U | 810 |
| MW6-63 | MW6-63 | 197 - 212 | 5/5/1995 | | | - | - | - | - | 1200 |
| | | | 8/7/1995 | | | - | - | - | - | 1200 |
| | | | 8/7/1995 | K | | - | - | - | - | 1200 |
| | | | 10/19/1995 | | | - | - | - | - | 1400 |
| | | | 10/19/1995 | K | | - | - | - | - | 1400 |
| | | | 2/4/1998 | | | 5.96 | - | - | - | - |
| | | | 2/4/1998 | K | | 4 U | - | - | - | - |
| | | | 10/21/2003 | | | 10 U | **1.6** | 0.005 U | 2 U | 1200 |
| | | | 6/17/2005 | | | 3.8 J | 1 U | 0.005 U | - | 1260 |
| | | | 12/23/2005 | | | 4 U | **1.2** | 0.005 U | - | 1280 |
| | | | 6/15/2006 | | | 4.5 | 0.94 J | 0.005 U | - | 1320 |
| | | | 6/15/2006 | K | | 4.8 | 0.81 J | 0.005 U | - | 1360 |
| | | | 1/2/2007 | | | 3.1 J | 0.71 J | 0.005 U | - | 1310 |
| | | | 1/2/2007 | K | | 3.2 J | 0.62 J | 0.005 U | - | 1260 |
| | | | 6/25/2007 | | | - | 2 U | - | - | - |
| | | | 7/25/2011 | | | 4.1 | 0.70 | - | 8 UJ | 1300 |
| | | | 7/25/2011 | K | | 4.3 | 0.59 | - | 8 UJ | 1400 |
| MW6-64 | MW6-64 | 17.4 - 37.4 | 5/5/1995 | | | - | - | - | - | 920 |
| | | | 8/7/1995 | | | - | - | - | - | 950 |
| | | | 10/19/1995 | | | - | - | - | - | 1000 |
| | | | 2/4/1998 | | | 4 U | - | - | - | - |
| MW6-65 | MW6-65 | 97 - 112 | 10/20/1995 | | | - | - | - | - | 970 |
| | | | 6/24/2005 | | | 2.6 J | 1 U | 0.005 U | - | 1030 |
| | | | 12/14/2005 | | | 4 U | 1 U | 0.005 U | - | 837 |
| | | | 6/16/2006 | | | 4 U | 0.66 J | 0.005 U | - | 1080 |
| | | | 1/16/2007 | | | 4 U | 0.65 J | 0.005 U | - | 1060 |
| | | | 6/25/2007 | | | - | 2 U | - | - | - |
| | | | 1/6/2011 | | | - | 0.47 | - | - | 1000 |
| | | | 7/18/2011 | | | 2.8 | 0.48 | - | 8 U | 1100 |
| | | | 1/12/2012 | | | 3.1 | 0.54 U | - | - | - |
| | | | 8/9/2012 | | | 3.1 | 0.85 | - | - | - |
| MW6-71 | MW6-71 | 209 - 230 | 5/16/1995 | | | - | - | - | - | 745 |
| | | | 8/9/1995 | | | - | - | - | - | 800 |
| | | | 10/18/1995 | | | - | - | - | - | 880 |
| | | | 10/18/1995 | K | | - | - | - | - | 870 |
| | | | 2/4/1998 | | | 4 U | - | - | - | - |
| MW6-81 | MW6-81 | 107 - 118 | 5/8/1995 | | | - | - | - | - | 5 |
| | | | 5/8/1995 | | | - | - | - | - | 970 |
| | | | 8/9/1995 | | | - | - | - | - | 1000 |
| | | | 10/18/1995 | | | - | - | - | - | 1100 |
| | | | 2/5/1998 | | | 4 U | - | - | - | - |
| MW6-82 | MW6-82 | 16 - 26 | 5/8/1995 | | | - | - | - | - | 1600 |
| | | | 8/9/1995 | | | - | - | - | - | 1600 |
| | | | 10/18/1995 | | | - | - | - | - | 1800 |
| | | | 2/5/1998 | | | 4 U | - | - | - | - |
| MP20-1 | MP20-01 | 434 - 444 | 8/13/1999 | | | - | - | - | - | 830 |
| | | | 9/13/1999 | | | - | - | - | - | 670 |
| | | | 12/27/1999 | | | - | - | - | - | 540 |
| | | | 6/29/2000 | | | - | - | - | - | 690 |
| | | | 4/26/2002 | | | 4 U | 0.54 U | - | 2 U | 520 |
| | | | 12/6/2002 | | | 4 U | 1 U | - | 2 U | 480 |
| | | | 11/6/2003 | | | 2 U | 1 U | 0.005 U | 2.6 | 540 |
| | | | 6/29/2005 | | | 4 U | 1 U | - | - | 568 |
| | | | 12/8/2005 | | | 4 U | 1 U | - | - | 533 |
| | | | 7/3/2006 | | | 4 U | 0.96 U | - | - | 597 |
| | | | 2/2/2007 | | | 4 U | 1 U | - | - | 540 |
| | | | 6/13/2007 | | | - | 0.95 U | - | - | - |
| | | | 8/6/2014 | | | 0.073 J | 0.50 U | 0.0050 U | 0.32 | 550 |
| MP20-2 | MP20-02 | 336 - 346 | 8/13/1999 | | | - | - | - | - | 800 |
| | | | 9/13/1999 | | | - | - | - | - | 400 |
| | | | 12/27/1999 | | | - | - | - | - | 390 |
| | | | 6/29/2000 | | | - | - | - | - | 450 |
| | | | 4/26/2002 | | | 4 U | 0.5 U | - | 3.4 | 410 |
| | | | 12/6/2002 | | | 4 U | 1 U | - | 2.8 | 410 |
| | | | 11/6/2003 | | | 2 U | 1 U | 0.005 U | 3 | 430 |
| | | | 6/29/2005 | | | 4 U | 1 U | - | - | 455 |
| | | | 12/8/2005 | | | 4 U | 1 U | - | - | 395 |
| | | | 7/3/2006 | | | 4 U | 0.95 U | - | - | 464 |
| | | | 2/2/2007 | | | 4 U | 1.1 U | - | - | 410 |
| | | | 6/13/2007 | | | - | 0.95 U | - | - | - |
| | | | 7/12/2011 | | | 2.0 U | 0.21 U | - | 8 UJ | 400 |

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/300 6 | 1,4-Dioxane 8260/8270 1* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/218 10 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 7/30/2012 | | | 0.090 J | 0.50 U | - | - | - |
| | | | 2/4/2013 | | | 0.10 | 0.50 U | - | - | - |
| | | | 8/20/2013 | | | 0.10 | 0.50 U | 0.0050 U | - | - |
| | | | 3/13/2014 | | | 0.15 | 0.50 U | 0.0050 U | - | - |
| | | | 8/6/2014 | | | 0.057 J | 0.50 U | 0.0050 U | 2.9 | 410 |
| MP20-3 | MP20-03 | 288 - 298 | 8/13/1999 | | | - | - | - | - | 1000 |
| | | | 9/13/1999 | | | - | - | - | - | 1000 |
| | | | 12/27/1999 | | | - | - | - | - | 1000 |
| | | | 6/29/2000 | | | - | - | - | - | 1000 |
| | | | 4/26/2002 | | | **6.7** | **7.9** | - | 2 | 1000 |
| | | | 4/26/2002 | K | | 5.8 | **8.8** | - | 2 U | 1000 |
| | | | 12/6/2002 | | | **6.4** | **5.3** | - | 2 U | 970 |
| | | | 11/6/2003 | | | **6.4** | **5.2** | 0.005 U | 2 U | 1100 |
| | | | 6/29/2005 | | | **7.3** | **3** | - | - | 1070 |
| | | | 6/29/2005 | K | | **7.5** | **2.9** | - | - | 1270 |
| | | | 12/8/2005 | | | **8.8** | **3.1** | - | - | 1060 |
| | | | 12/8/2005 | K | | **7.2** | **3.3** | - | - | 1000 |
| | | | 7/6/2006 | | | **10** | **3.7** | - | - | 1140 |
| | | | 7/6/2006 | K | | **6.7** | **3.5** | - | - | 1100 |
| | | | 2/2/2007 | | | **8** | **4.8** | - | - | 1020 |
| | | | 6/13/2007 | | | 5.5 | **3.8** | - | - | 1050 |
| | | | 9/3/2008 | | | 5.7 | **4.9** | - | - | - |
| | | | 12/20/2010 | | | - | **5.4** | - | - | - |
| | | | 12/20/2010 | K | | - | **5.1** | - | - | - |
| | | | 1/4/2011 | | | 5.9 | - | - | - | 1000 |
| | | | 1/4/2011 | K | | **6.2** | - | - | - | - |
| | | | 7/12/2011 | | | 5.9 | **5.6** | - | 8 UJ | 1000 |
| | | | 1/5/2012 | | | **6.4** | **5.9** | - | - | - |
| | | | 7/30/2012 | | | **6.9** | **10** | - | - | - |
| | | | 2/4/2013 | | | **6.9** | **10** | - | - | - |
| | | | 8/20/2013 | | | **6.7** | **12** | 0.0024 J | - | - |
| | | | 3/13/2014 | | | **7.0** | **19** | 0.0050 U | - | - |
| | | | 8/7/2014 | | | **7.4** | **12** | 0.0050 U | 2.2 | 1000 |
| MP20-4 | MP20-04 | 194 - 204 | 8/13/1999 | | | - | - | - | - | 760 |
| | | | 8/13/1999 | K | | - | - | - | - | 740 |
| | | | 9/13/1999 | | | - | - | - | - | 640 |
| | | | 9/13/1999 | K | | - | - | - | - | 640 |
| | | | 12/27/1999 | | | - | - | - | - | 630 |
| | | | 12/27/1999 | K | | - | - | - | - | 630 |
| | | | 6/29/2000 | | | - | - | - | - | 700 |
| | | | 4/27/2002 | | | 4 U | **1.5** | - | 2 U | 760 |
| | | | 12/6/2002 | | | 4 U | 1 U | - | 2 U | 770 |
| | | | 11/6/2003 | | | 3.2 | 1 U | 0.005 U | 2 U | 810 |
| | | | 6/29/2005 | | | 4.2 | 1 U | - | - | 887 |
| | | | 12/8/2005 | | | 3.3 J | 1 U | - | - | 775 |
| | | | 7/3/2006 | | | 2.3 J | 0.46 J | - | - | 873 |
| | | | 2/2/2007 | | | 4 U | 0.58 J | - | - | 737 |
| | | | 6/13/2007 | | | - | 0.48 J | - | - | - |
| | | | 7/14/2011 | | | 3.4 | 0.87 | - | 5.4 J | 840 |
| | | | 1/5/2012 | | | 3.7 | 0.81 | - | - | - |
| | | | 7/30/2012 | | | 4.5 | **1.4** | - | - | - |
| MP20-5 | MP20-05 | 76 - 86 | 8/13/1999 | | | - | - | - | - | 400 |
| | | | 9/14/1999 | | | - | - | - | - | 460 |
| | | | 12/27/1999 | | | - | - | - | - | 440 |
| | | | 6/29/2000 | | | - | - | - | - | 460 |
| MP21-1 | MP21-01 | 530 - 540 | 8/21/2003 | | | 4 U | 1 U | - | 2 U | 820 |
| | | | 11/5/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 560 |
| | | | 6/28/2005 | | | 4 U | 1 U | - | - | 513 |
| | | | 12/7/2005 | | | 4 U | 1 U | - | - | 486 |
| | | | 7/5/2006 | | | 4 U | 0.96 U | - | - | 512 |
| | | | 2/1/2007 | | | - | 0.96 U | - | - | 644 |
| | | | 6/14/2007 | | | - | 0.95 U | - | - | - |
| MP21-2 | MP21-02 | 435 - 445 | 8/21/2003 | | | 4 U | 1 U | - | 2 U | 610 |
| | | | 11/5/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 630 |
| | | | 6/28/2005 | | | 4 U | 1 U | - | - | 674 |
| | | | 12/7/2005 | | | 4 U | 1 U | - | - | 624 |
| | | | 7/5/2006 | | | 4 U | 0.96 U | - | - | 619 |
| | | | 2/1/2007 | | | - | 1 U | - | - | 615 |
| | | | 6/14/2007 | | | - | 0.96 U | - | - | - |
| | | | 12/17/2010 | | | 0.99 J | 0.19 U | - | - | 610 |
| | | | 7/13/2011 | | | 2.0 U | 0.19 U | - | 8 UJ | 640 |
| | | | 8/7/2014 | | | 0.10 U | 0.50 U | 0.0050 U | 0.030 U | 680 |
| MP21-3 | MP21-03 | 365 - 375 | 8/21/2003 | | | 4 U | 1 U | - | 2 U | 780 |
| | | | 11/5/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 760 |
| | | | 6/28/2005 | | | 2.1 J | 1 U | - | - | 658 |
| | | | 12/7/2005 | | | 4 U | 1 U | - | - | 606 |
| | | | 7/5/2006 | | | 4 U | 0.95 U | - | - | 633 |
| | | | 2/1/2007 | | | - | 1 U | - | - | 521 |
| | | | 6/14/2007 | | | 4 U | 0.95 U | - | - | 593 |

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/300 6 | 1,4-Dioxane 8260/8270 1* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/218 10 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 12/17/2010 | | | 2.0 U | 0.099 J | - | - | 640 |
| | | | 7/13/2011 | | | 2.0 U | 0.086 J | - | 8 UJ | 620 |
| | | | 1/4/2012 | | | 2.0 U | 0.11 J | - | - | - |
| | | | 7/31/2012 | | | 1.1 | 0.13 J | - | - | - |
| | | | 2/5/2013 | | | 1.5 | 0.39 J | - | - | - |
| | | | 8/19/2013 | | | 1.8 | 0.50 U | 0.0050 U | - | - |
| | | | 3/14/2014 | | | 1.9 | 0.50 U | 0.0050 U | - | - |
| | | | 8/7/2014 | | | 2.1 | 0.50 U | 0.0050 U | 0.030 U | 650 |
| MP21-4 | MP21-04 | 320 - 330 | 8/21/2003 | | | 4 U | 1 U | - | 2 U | 700 |
| | | | 11/5/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 700 |
| | | | 6/28/2005 | | | 4.3 | 1 U | - | - | 731 |
| | | | 12/7/2005 | | | 3.5 J | 1 U | - | - | 645 |
| | | | 7/5/2006 | | | 3 J | 0.96 U | - | - | 704 |
| | | | 2/1/2007 | | | - | 1 U | - | - | 652 |
| | | | 6/14/2007 | | | 4 U | 0.95 U | - | - | 660 |
| | | | 12/17/2010 | | | 2.0 U | 0.19 U | - | - | 620 |
| | | | 7/13/2011 | | | 2.0 U | 0.20 U | - | 8 U | 640 |
| | | | 1/4/2012 | | | 2.0 U | 0.19 U | - | - | - |
| | | | 7/31/2012 | | | 0.58 | 0.50 U | - | - | - |
| | | | 2/5/2013 | | | 0.19 | 0.50 U | - | - | - |
| | | | 8/19/2013 | | | 0.82 | **1.9** | 0.0050 U | - | - |
| | | | 3/14/2014 | | | 0.76 | 0.50 U | 0.0050 U | - | - |
| | | | 8/26/2014 | | | 1.2 | 0.50 U | 0.0050 U | 0.022 J | 650 |
| MP21-5 | MP21-05 | 245 - 255 | 8/21/2003 | | | 4 U | **2.1** | - | 2 U | 1100 |
| | | | 11/5/2003 | | | 2.8 | **2.4** | 0.005 U | 2 U | 1100 |
| | | | 6/28/2005 | | | 2.8 J | **1.4** | - | - | 1150 |
| | | | 12/7/2005 | | | 5.2 | **1.6** | - | - | 1060 |
| | | | 7/6/2006 | | | 4.4 | **1.5** | - | - | 1200 |
| | | | 2/1/2007 | | | - | **1.6** | - | - | 1070 |
| | | | 6/14/2007 | | | 2.8 B | **1.2** | - | - | 1120 |
| | | | 12/20/2010 | | | - | **1.6** | - | - | - |
| | | | 1/4/2011 | | | 3.3 | - | - | - | 1100 |
| | | | 7/14/2011 | | | 2.5 | **1.5** | - | 8 U | 1100 |
| | | | 1/4/2012 | | | 3.7 | **1.5** | - | - | - |
| | | | 7/31/2012 | | | 0.10 UJ | 0.50 UJ | - | - | - |
| | | | 7/31/2012 | K | | 4.2 J | **2.2 J** | - | - | - |
| | | | 2/5/2013 | | | 4.1 | **1.6** | - | - | - |
| | | | 8/19/2013 | | | 3.9 | 0.50 U | 0.0050 U | - | - |
| | | | 3/14/2014 | | | 4.1 | **2.4** | 0.0050 U | - | - |
| | | | 8/26/2014 | | | 4.1 | **2.1** | 0.0050 U | 1.5 J | 1100 |
| MP21-6 | MP21-06 | 150 - 160 | 8/21/2003 | | | 4 U | 1 U | - | 2 U | 510 |
| | | | 11/5/2003 | | | 2 U | 1 U | 0.005 U | 2 U | 600 |
| MW-6-1-5 | EPAMW61-5 | 354 - 364 | 8/21/2013 | | | 4.2 | 0.50 U | - | - | 890 |
| | | | 3/12/2014 | | | 4.2 | 0.50 U | 0.0050 U | - | - |
| | | | 8/8/2014 | | | 4.6 | 0.50 U | 0.0050 U | 5.1 J | 880 |
| MW-6-1-6 | EPAMW61-6 | 470 - 480 | 8/21/2013 | | | 2.9 | 0.50 U | - | - | 700 |
| | | | 3/12/2014 | | | 3.0 | 0.50 U | 0.0050 U | - | - |
| | | | 8/8/2014 | | | 3.2 | 0.50 U | 0.0050 U | 1.4 J | 700 |
| MW-6-1-7 | EPAMW61-7 | 594 - 604 | 8/21/2013 | | | 0.68 | 0.50 U | - | - | 380 |
| | | | 3/12/2014 | | | 0.67 | 0.50 U | 0.0050 U | - | - |
| | | | 8/8/2014 | | | 0.67 | 0.50 U | 0.0050 U | 9.1 J | 380 |
| MW6-10d | MW6-10d | 539 - 554 | 11/23/2002 | L | | 4 U | 1 U | - | - | 350 |
| | | | 10/27/2003 | L | | 2 U | 1 U | 0.005 U | 2 U | 310 |
| | | | 6/27/2005 | L | | 2.1 J | 1 U | - | - | 325 |
| | | | 12/21/2005 | L | | 2.2 J | 0.95 U | - | - | 335 |
| | | | 12/21/2005 | L - K | | 2 J | 0.95 U | - | - | 323 |
| | | | 6/23/2006 | L | | 1.8 J | 0.95 U | - | - | 296 |
| | | | 1/12/2007 | L | | 1.7 J | 0.96 U | - | - | 301 |
| | | | 7/19/2007 | L | | - | 2 U | - | - | - |
| | | | 12/20/2010 | L | | 1.1 J | 0.19 U | - | - | 270 |
| | | | 8/8/2011 | HS | | 2.0 U | 0.20 U | - | - | 290 |
| | | | 12/22/2011 | HS | | 3.2 | 0.28 U | - | - | - |
| | | | 7/27/2012 | HS | | 0.14 | 0.69 | - | - | - |
| | | | 1/25/2013 | HS | | 0.16 | 0.48 J | - | - | - |
| | | | 8/7/2013 | HS | | 0.18 | 0.42 J | 0.0050 U | - | - |
| | | | 3/24/2014 | HS | | 0.17 | 0.64 | 0.0050 U | - | - |
| | | | 8/18/2014 | L | | 1.4 | 0.50 U | 0.0050 U | 2.5 | 300 |
| MW6-10i | MW6-10i | 336 - 356 | 11/21/2002 | L | | 5.6 | 1 U | - | 2 U | 460 |
| | | | 10/24/2003 | L | | 3.9 | 1 U | 0.005 U | 2 U | 350 |
| | | | 10/24/2003 | L - K | | 3.9 | 1 U | 0.005 U | 2 U | 370 |
| | | | 6/27/2005 | L | | **6.5** | 1 U | - | - | 478 |
| | | | 12/20/2005 | L | | **8.3** | 0.95 U | - | - | 422 |
| | | | 6/23/2006 | L | | **10.2** | 0.96 U | - | - | 388 |
| | | | 1/11/2007 | L | | **11.2** | 0.95 U | - | - | 384 |
| | | | 7/18/2007 | L | | - | 2 U | - | - | - |
| | | | 7/18/2007 | L - K | | - | 2 U | - | - | - |
| | | | 8/26/2008 | L | | 2.8 | - | - | - | - |
| | | | 12/21/2010 | L | | **6.6** | **1.2** | - | - | 450 |
| | | | 7/13/2011 | L | | 4.7 | **2.0** | - | 8 UJ | 490 |

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/300 6 | 1,4-Dioxane 8260/8270 1* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/218 10 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 7/13/2011 | HS | | 3.2 | **2.5** | - | 8 UJ | 380 |
| | | | 12/22/2011 | HS | | **9.1** | **1.5** | - | - | - |
| | | | 7/27/2012 | HS | | **9.4** | **1.5** | - | - | - |
| | | | 1/25/2013 | HS | | 3.2 | **1.4** | - | - | - |
| | | | 8/7/2013 | HS | | 1.7 | **4.2** | 0.0050 U | - | - |
| | | | 3/24/2014 | HS | | 1.6 | **1.5** | 0.0050 U | - | - |
| | | | 8/18/2014 | L | | **8.6** | **4.6** | 0.0028 J | 6.1 | 520 |
| MW6-12i | MW6-12i | 260 - 275 | 10/14/2002 | L | | 4 U | 1 U | - | 2 U | 510 |
| | | | 11/12/2002 | L | | 4 U | 1 U | - | - | - |
| | | | 10/29/2003 | L | | 2 U | 1 U | 0.005 U | 2 U | 440 |
| | | | 6/15/2005 | L | | 4 U | 1 U | 0.005 U | - | 471 |
| | | | 12/16/2005 | L | | 4 U | 1 U | - | - | 431 |
| | | | 6/22/2006 | L | | 4 U | 0.96 U | - | - | 443 |
| | | | 6/22/2006 | L - K | | 4 U | 0.96 U | - | - | 455 |
| | | | 1/11/2007 | L | | 4 U | 1 U | - | - | 370 |
| | | | 7/6/2007 | L | | - | 2 U | - | - | - |
| | | | 8/8/2011 | HS | | 2.0 U | 0.20 U | - | - | 300 |
| | | | 12/22/2011 | HS | | **21** | 0.19 U | - | - | - |
| | | | 7/27/2012 | HS | | 3.1 | 0.50 U | - | - | - |
| | | | 1/25/2013 | HS | | 2.3 | 0.50 U | - | - | - |
| | | | 8/7/2013 | HS | | 1.3 | 0.50 U | 0.0050 U | - | - |
| | | | 3/24/2014 | HS | | 0.53 | 0.50 U | 0.0050 U | - | - |
| | | | 8/29/2014 | L | | 0.10 U | 0.50 U | 0.0050 U | 0.030 U | 420 |
| MW6-13i | MW6-13i | 246 - 261 | 12/6/2002 | L | | 4 U | 1 U | - | 2 U | 480 |
| | | | 10/22/2003 | L | | 2 U | 1 U | **0.044** | 2 U | 510 |
| | | | 6/16/2005 | L | | 4 U | 1 U | 0.005 U | - | 498 |
| | | | 12/16/2005 | L | | **19.4** | 1 U | **0.013 J** | - | 518 |
| | | | 7/7/2006 | L | | 4 U | 0.98 U | 0.005 U | - | 532 |
| | | | 1/10/2007 | L | | 4 U | 1 U | 0.0063 | - | 481 |
| | | | 7/5/2007 | L | | - | 2 U | - | - | - |
| | | | 12/21/2010 | L | | 2.0 U | 0.19 U | - | - | 520 |
| | | | 7/13/2011 | L | | 2.0 U | 0.19 U | - | 8 UJ | 520 |
| | | | 7/18/2011 | HS | | 2.0 U | 0.19 U | - | 8 UJ | 550 |
| | | | 1/3/2012 | HS | | 2.0 U | 0.20 U | - | - | - |
| | | | 7/27/2012 | HS | | 1.2 | 0.50 U | - | - | - |
| | | | 1/25/2013 | HS | | 0.54 | 0.36 J | - | - | - |
| | | | 8/13/2013 | HS | | 0.86 | 0.50 U | 0.0055 | - | - |
| | | | 3/24/2014 | HS | | 0.31 | 0.50 U | 0.0030 J | - | - |
| | | | 8/29/2014 | L | | 1.2 | 0.50 U | **0.0068** | 0.032 | 510 |
| MW6-17i | MW6-17i | 212 - 232 | 2/24/2003 | | | 4 U | **2.2** | - | 2 U | 1200 |
| | | | 10/28/2003 | L | | 4 | **1.9** | 0.005 U | 2 U | 810 JR |
| | | | 10/28/2003 | L - K | | 3.8 | **2** | 0.005 U | 2 U | 1500 JR |
| | | | 6/14/2005 | L | | 3.5 J | **1.1** | 0.005 U | - | 1120 |
| | | | 12/19/2005 | L | | 4 U | 1 U | 0.005 UJ | - | 1220 |
| | | | 6/20/2006 | L | | 2.1 J | **1.3** | 0.005 U | - | 1110 |
| | | | 1/8/2007 | L | | 2.9 J | 0.78 J | 0.0027 JB | - | 1110 |
| | | | 7/18/2007 | L | | 2 U | **2.5** | - | - | - |
| | | | 8/8/2011 | HS | | - | - | - | - | 1200 |
| | | | 12/22/2011 | HS | | 3.8 | - | - | - | - |
| | | | 1/3/2012 | | | - | 0.95 | - | - | - |
| MW7-1A | MW6-09i | 350 - 370 | 11/22/2002 | L | | 5.4 | 1 U | - | 6.1 | 290 |
| | | | 11/22/2002 | L - K | | 5.3 | 1 U | - | 6.2 | 270 |
| | | | 10/24/2003 | L | | 4.8 | 1 U | 0.005 U | 6.5 | 240 |
| | | | 6/16/2005 | L | | 3.9 J | 1 U | - | 1 U | 252 |
| | | | 6/16/2005 | L - K | | 3 J | 1 U | - | 1 U | 255 |
| | | | 12/15/2005 | L | | 3.3 J | 1 U | - | 4.6 | 247 |
| | | | 6/22/2006 | L | | 3.4 J | 0.95 U | - | 4.6 | 245 |
| | | | 1/10/2007 | L | | 4 U | 0.95 U | - | 1 U | 217 |
| | | | 1/10/2007 | L - K | | 4 U | 1 U | - | 1 U | 225 |
| | | | 7/6/2007 | L | | - | 2 U | - | - | - |
| | | | 8/27/2008 | L | | 2 U | - | - | - | - |
| | | | 12/20/2010 | L | | - | 0.19 U | - | - | - |
| | | | 1/11/2011 | L | | 1.1 J | - | - | - | 270 |
| | | | 8/8/2011 | HS | | 2.0 | 0.19 U | - | - | 270 |
| | | | 1/3/2012 | | | 2.0 U | - | - | - | - |
| | | | 1/5/2012 | | | - | 0.21 U | - | - | - |
| | | | 7/27/2012 | HS | | 1.2 | 0.50 U | - | - | - |
| | | | 1/25/2013 | HS | | 0.46 | 0.50 U | - | - | - |
| | | | 8/7/2013 | HS | | 0.29 | 0.50 U | 0.0050 U | - | - |
| | | | 3/26/2014 | HS | | 0.89 | 0.50 U | 0.0050 U | - | - |
| | | | 8/19/2014 | L | | 1.1 | 0.50 U | 0.0050 U | **14** | 320 |
| MW7-1B | MW6-09UI2 | 380 - 420 | 8/14/2013 | L | | **8.0** | **1.9** | 0.0050 U | 0.030 U | 470 |
| | | | 2/11/2014 | L | | **7.9** | **3.9** | 0.0050 U | 0.047 | 440 |
| | | | 8/20/2014 | L | | **8.5** | **1.1** | 0.0050 U | 5.7 J | 460 |
| MW7-1C | MW6-09LI | 435 - 450 | 8/14/2013 | L | | 1.6 | 0.50 U | 0.0050 U | 0.030 U | 250 |
| | | | 2/11/2014 | L | | 1.8 | 0.50 U | 0.0050 U | 0.065 | 200 |
| | | | 8/20/2014 | L | | 0.21 | 0.50 U | 0.0050 U | 0.042 UJ | 200 |
| MW7-2A | MW6-22UI | 302 - 317 | 1/24/2013 | | | 4.0 J | **2.1** | - | - | - |
| | | | 8/12/2013 | L | | 4.1 | **2.3** | 0.0050 U | 0.86 | 1100 |

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/300 6 | 1,4-Dioxane 8260/8270 1* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/218 10 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 8/12/2013 | L - K | | 4.3 | **2.3** | 0.0050 U | 1.0 | 1100 |
| | | | 2/12/2014 | L | | 3.8 | **2.5** | 0.0050 U | 0.030 U | 1100 |
| | | | 2/12/2014 | L - K | | 3.8 | **1.9** | 0.0050 U | 0.030 U | 1100 |
| | | | 8/27/2014 | L | | 3.9 | **2.2** | 0.0050 U | 0.030 U | 1000 |
| | | | 8/27/2014 | L - K | | 3.9 | **2.2** | 0.0050 U | 0.030 U | 1100 |
| MW7-2B | MW6-22LI1 | 348 - 358 | 1/25/2013 | L | | 1.2 | 0.50 U | - | - | - |
| | | | 8/12/2013 | L | | 1.4 | 0.50 U | 0.0050 U | 0.15 | 580 |
| | | | 2/13/2014 | L | | 1.3 | 0.50 U | 0.0050 U | 0.030 U | 560 |
| | | | 8/27/2014 | L | | 1.5 | 0.50 U | 0.0050 U | 0.030 U | 630 |
| MW7-2C | MW6-22LI2 | 380 - 390 | 1/24/2013 | | | 1.0 J | 0.50 U | - | - | - |
| | | | 8/13/2013 | L | | 1.7 | 0.50 U | 0.0050 U | 0.0081 J | 600 |
| | | | 2/12/2014 | L | | 0.021 J | 0.50 U | 0.0050 U | 0.030 U | 360 |
| | | | 8/27/2014 | L | | 1.1 | 0.50 U | 0.0050 U | 0.030 U | 540 |
| MW7-2D | MW6-22D | 452 - 462 | 1/25/2013 | | | 0.088 J | 0.50 U | - | - | - |
| | | | 8/12/2013 | L | | 0.073 J | 0.50 U | 0.0050 U | 0.016 J | 580 |
| | | | 2/13/2014 | L | | 0.68 | 0.50 U | 0.0050 U | 0.030 U | 370 |
| | | | 8/28/2014 | L | | 0.10 U | 0.50 U | 0.0050 U | 0.030 U | 580 |
| MW7-3A | MW6-23UI | 338 - 348 | 4/19/2013 | | | 2.9 | **2.9** | - | - | - |
| | | | 8/15/2013 | L | | 3.4 | **2.8** | 0.0050 U | 0.011 J | 940 |
| | | | 2/14/2014 | L | | 0.26 | **2.5** | 0.0050 U | 0.030 U | 730 |
| | | | 8/26/2014 | L | | 4.0 | **3.3** | 0.0050 U | 0.037 J | 990 |
| MW7-3B | MW6-23LI | 434 - 444 | 2/1/2013 | | | 2.6 | 0.39 J | - | - | - |
| | | | 8/16/2013 | L | | 1.4 | 0.50 U | 0.0050 U | 0.030 U | 410 |
| | | | 2/14/2014 | L | | 0.65 | 0.50 U | 0.0050 U | 0.0059 J | 300 |
| | | | 8/26/2014 | L | | 3.6 | 0.50 U | 0.0050 U | 0.11 J | 300 |
| MW7-3C | MW6-23D | 490 - 500 | 1/31/2013 | | | 0.96 | 0.50 U | - | - | - |
| | | | 8/16/2013 | L | | 0.20 | 0.50 U | 0.0050 U | 0.030 U | 320 |
| | | | 2/21/2014 | L | | 0.051 J | 0.50 U | 0.0050 U | 0.030 U | 320 |
| | | | 8/26/2014 | L | | 0.049 J | 0.50 U | 0.0050 U | 1.9 J | 330 |
| MW7-4A | MW6-24UI | 320 - 335 | 2/11/2013 | L | | **6.9** | 0.37 J | - | - | - |
| | | | 8/9/2013 | L | | **7.4** | 0.50 U | **0.054** | 3.4 | 650 |
| | | | 2/20/2014 | L | | **8.1** | 0.50 U | **0.049** | 0.029 J | 650 |
| | | | 8/25/2014 | L | | 2.2 | **1.3** | **0.048** | 0.023 J | 540 |
| MW7-4B | MW6-24LI | 365 - 375 | 2/4/2013 | L | | **6.4** | 0.82 | - | - | - |
| | | | 8/12/2013 | L | | 5.9 | 0.72 | **0.038** | 0.020 J | 590 |
| | | | 2/21/2014 | L | | 0.10 U | 0.54 | **0.020** | 0.030 U | 300 |
| | | | 8/25/2014 | L | | 0.10 U | 0.57 | **0.020** | 0.030 UJ | 290 |
| MW7-5A | MW6-25UI | 338 - 348 | 4/18/2013 | | | 5.6 | **1.3** | - | - | - |
| | | | 8/19/2013 | L | | 5.3 | **1.3** | 0.0050 U | 0.060 | 590 |
| | | | 2/14/2014 | L | | 4.8 | **2.0** | 0.0050 U | 0.30 | 630 |
| | | | 8/21/2014 | L | | 4.9 | **2.7** | 0.0050 U | 4.1 J | 680 |
| MW7-5B | MW6-25LI | 388 - 398 | 3/1/2013 | | | **11** | 0.24 J | - | - | - |
| | | | 8/19/2013 | L | | 0.93 | 0.50 U | 0.0050 U | 0.066 | 160 |
| | | | 2/14/2014 | L | | **8.3** | 0.50 U | **0.0097** | 2.1 | 360 |
| | | | 8/21/2014 | L | | 3.6 | 0.070 J | 0.0031 J | 1.8 J | 320 |
| MW7-6 | MW6-26UI | 362 - 372 | 4/26/2013 | | | **12** | 0.5 U | - | - | - |
| | | | 8/9/2013 | L | | **12** | 0.50 U | 0.0050 U | 6.7 | 370 |
| | | | 8/9/2013 | L - K | | **12** | 0.50 U | 0.0050 U | 6.9 | 370 |
| | | | 2/17/2014 | L | | 0.50 | 0.50 U | 0.0050 U | 0.030 U | 210 |
| | | | 2/17/2014 | L - K | | 0.50 | 0.50 U | 0.0050 U | 0.030 U | 210 |
| | | | 9/3/2014 | L | | 0.24 | **1.1** | 0.0050 U | 0.030 U | 310 |
| | | | 9/3/2014 | L - K | | 0.25 | **1.1** | 0.0050 U | 0.030 U | 300 |
| MW7-7A | MW6-27UI1 | 288 - 308 | 8/7/2013 | L | | **7.5** | 0.68 | **0.048** | 0.026 | 820 |
| | | | 2/19/2014 | L | | **6.9** | 0.26 J | **0.044** | 0.0091 J | 740 |
| | | | 5/7/2014 | | | - | 0.25 | **0.046** | - | - |
| | | | 7/24/2014 | L | | **7.5** | 0.50 U | **0.040** | 0.61 | 770 |
| | | | 9/24/2014 | | | - | 0.50 U | **0.039** | - | - |
| MW7-7B | MW6-27UI2 | 320 - 330 | 8/7/2013 | L | | **7.4** | **2.3** | **0.033** | 2.3 | 900 |
| | | | 2/20/2014 | L | | 1.9 | **2.1** | 0.0050 U | 0.010 J | 570 |
| | | | 5/9/2014 | | | - | **2.3** | 0.0015 | - | - |
| | | | 7/24/2014 | L | | **8.5** | **3.1** | **0.026** | 0.70 | 750 |
| | | | 9/24/2014 | | | - | **2.6** | 0.0050 U | - | - |
| | | | 9/24/2014 | K | | - | **2.5** | 0.0034 J | - | - |
| MW7-7C | MW6-27LI1 | 347 - 362 | 8/8/2013 | L | | **6.4** | **17** | 0.0046 J | 0.14 | 1000 |
| | | | 2/18/2014 | L | | 0.14 | **16** | 0.0028 J | 0.030 U | 630 |
| | | | 5/9/2014 | | | - | **16** | 0.0014 | - | - |
| | | | 7/25/2014 | L | | 0.53 | **15** | 0.0032 J | 0.030 U | 750 |
| | | | 9/24/2014 | | | - | **16** | 0.0037 J | - | - |
| MW7-7D | MW6-27LI2 | 377 - 387 | 8/6/2013 | L | | 3.3 | **4.5** | **0.0054** | 0.030 U | 500 |
| | | | 8/6/2013 | L - K | | 3.5 | **4.4** | **0.0059** | 0.030 U | 500 |
| | | | 2/19/2014 | L | | 1.7 | **4.0** | 0.0038 J | 0.12 | 430 |
| | | | 2/19/2014 | L - K | | 1.9 | **4.0** | 0.0039 J | 0.11 | 430 |
| | | | 5/7/2014 | | | - | **4.4** | 0.0040 | - | - |
| | | | 9/23/2014 | | | 1.2 | **3.8** | 0.0041 J | 0.030 U | 400 |
| MW7-7E | MW6-27D | 434 - 444 | 8/5/2013 | L | | 0.74 | 0.50 U | 0.0050 U | 3.4 | 420 |
| | | | 2/20/2014 | L | | 0.077 J | 0.50 U | 0.0015 J | 0.030 U | 280 |
| | | | 8/19/2014 | L | | 0.14 | 0.50 U | 0.0050 U | 0.030 U | 340 |
| MW7-8A | MW6-28UI | 340 - 360 | 10/25/2013 | L | | 4.5 | **2.4** | 0.0050 U | 0.030 U | 1000 |
| | | | 2/10/2014 | L | | 5.0 | **2.1** | 0.0050 U | 0.030 U | 1000 |

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/300 6 | 1,4-Dioxane 8260/8270 1* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/218 10 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 9/3/2014 | L | | 5.1 | **2.5** | 0.0050 U | 0.20 | 1000 |
| MW7-8B | MW6-28LI | 454 - 464 | 10/25/2013 | L | | **6.9** | **1.4** | 0.0050 U | 0.030 U | 860 |
| | | | 2/10/2014 | L | | **8.3** | **1.3** | 0.0050 U | 0.030 U | 860 |
| | | | 9/3/2014 | L | | **8.6** | **1.7** | 0.0050 U | 0.11 | 900 |
| MW7-9A | MW6-29UI | 365 - 385 | 8/9/2013 | L | | **9.4** | 0.37 J | 0.0050 U | 2.6 | 400 |
| | | | 2/17/2014 | L | | **8.3** | 0.32 J | 0.0050 U | 2.0 | 370 |
| | | | 8/14/2014 | L | | **9.3** | 0.77 | 0.0050 U | **11** | 390 |
| MW7-9B | MW6-29LI | 412 - 432 | 8/8/2013 | L | | **19** | 0.50 U | 0.0050 U | 0.13 | 390 |
| | | | 2/17/2014 | L | | **15** | 0.50 U | 0.0050 U | 0.091 | 290 |
| | | | 8/14/2014 | L | | **12** | 0.34 J | 0.0050 U | 0.030 U | 410 |
| | | | 8/14/2014 | L - K | | **12** | 0.32 J | 0.0050 U | 0.030 U | 400 |
| MW7-9C | MW6-29D | 475 - 490 | 8/9/2013 | L | | 0.91 | 0.50 U | 0.0050 U | 0.098 | 260 |
| | | | 2/17/2014 | L | | 2.9 | 0.50 U | 0.0050 U | 0.030 U | 210 |
| | | | 8/14/2014 | L | | 0.52 | 0.50 U | 0.0050 U | 0.030 U | 200 |
| MW7-10 | PMW-6 | 258 - 278 | 11/15/2013 | | | 3.0 | 0.50 U | **0.061** | 0.030 U | 610 |
| | | | 2/12/2014 | L | | **11** | 0.50 U | **0.051** | 0.77 J | 870 |
| | | | 2/12/2014 | L - K | | **12** | 0.50 U | **0.053** | 1.1 J | 860 |
| | | | 9/2/2014 | L | | **11** | 0.50 U | **0.052** | 0.91 | 880 |
| | | | 9/2/2014 | L - K | | **12** | 0.50 U | **0.051** | 1.5 | 880 |
| MW7-11A | PMW-7A | 390 - 410 | 2/18/2014 | L | | **6.9** | 0.41 J | 0.0050 U | 0.12 | 470 |
| | | | 8/22/2014 | L | | 5.9 | 0.73 | 0.0050 U | 3.1 J | 560 |
| MW7-11B | PMW-7B | 460 - 470 | 3/10/2014 | L | | **7.4** | 0.50 U | 0.0050 U | 0.0092 J | 310 |
| | | | 8/22/2014 | L | | 1.3 | 0.15 J | 0.0050 U | 0.030 UJ | 220 U |
| MW7-12A | PMW-8A | 390 - 410 | 2/13/2014 | L | | 0.10 U | 0.50 U | 0.0050 U | 0.73 | - |
| | | | 9/5/2014 | L | | **9.7** | 0.50 U | 0.0050 U | 2.2 | 330 |
| MW7-12B | PMW-8B | 460 - 470 | 2/13/2014 | L | | 16 U | 0.49 J | 0.0050 U | 0.11 | 290 |
| | | | 9/5/2014 | L | | **14** | 0.50 U | 0.0050 U | 0.25 | 320 |
| MW7-13A | PMW-5A | 303 - 313 | 3/28/2014 | L | | **9.6** | 0.93 | **0.0094** | 0.15 | 980 |
| | | | 9/4/2014 | L | | **11** | **1.2** | **0.0074** | 0.030 U | 1000 |
| MW7-13B | PMW-5B | 323 - 333 | 3/26/2014 | L | | **9.4** | 0.86 | **0.0074** | 0.030 U | 950 |
| | | | 9/4/2014 | L | | **9.5** | 1.0 | **0.0084** | 0.11 | 990 |
| MW7-15A | MW6-16i | 304 - 314 | 12/24/2002 | L | | 4 U | 1 U | - | 2 U | 870 |
| | | | 10/23/2003 | L | | 10 U | 1 U | 0.005 U | 2 U | 920 |
| | | | 6/13/2005 | L | | 3.4 J | 1 U | - | - | 951 |
| | | | 12/19/2005 | L | | 3.3 J | 1 U | - | - | 946 |
| | | | 6/20/2006 | L | | 3.5 J | 0.95 U | - | - | 920 |
| | | | 1/9/2007 | L | | 4 U | 1 U | - | - | 845 |
| | | | 7/5/2007 | L | | - | 2 U | - | - | - |
| | | | 12/22/2010 | L | | 2.0 U | 0.19 U | - | - | 120 |
| | | | 8/8/2011 | L | | 2.0 U | 0.20 U | - | - | 550 |
| | | | 12/22/2011 | HS | | 5.0 | 0.20 U | - | - | - |
| | | | 7/27/2012 | HS | | 0.051 J | 0.50 U | - | - | - |
| | | | 2/8/2013 | HS | | 0.071 J | 0.50 U | - | - | - |
| | | | 8/7/2013 | HS | | 0.10 U | 0.50 U | 0.0050 U | - | - |
| | | | 3/26/2014 | HS | | 0.28 | 0.50 U | 0.0050 U | - | - |
| | | | 9/2/2014 | L | | 4.1 | 0.50 U | 0.0050 U | 0.021 J | 840 |
| S11A | S11A | 190 - 220 | 3/19/2014 | L | | **7.2** | **1.1** | 0.0050 U | 0.030 U | 970 |
| | | | 8/28/2014 | L | | **8.4** | **1.1** | 0.0050 U | 0.18 | 980 |
| IZ-1 | IZ-1 | 278 - 368 | 12/6/2006 | | | 4 U | 0.95 U | - | - | 605 |
| | | | 12/14/2006 | | | 2.7 J | 0.95 U | 0.005 U | 20 U | 718 |
| | | | 7/23/2007 | | | 2 U | 2 U | 0.005 U | 1 U | 730 |
| | | | 1/15/2008 | | | 2 U | 2 U | 0.005 U | 1 U | 646 |
| | | | 8/28/2008 | | | 2 U | 2 U | - | - | - |
| | | | 5/8/2012 | | | 2.0 U | 0.38 J | 0.0050 U | 0.020 U | 560 |
| | | | 5/8/2012 | EP | | - | - | 0.0050 UJ | - | - |
| | | | 9/19/2013 | | | 0.10 U | 0.24 J | 0.0050 U | 0.070 | 730 |
| IZ-2 | IZ-2 | 305 - 385 | 10/9/2006 | | | 1.1 J | 0.95 U | - | - | 617 |
| | | | 10/13/2006 | | | 4 U | 0.95 U | 0.005 U | 0.13 J | - |
| | | | 1/12/2007 | | | 4 U | 0.95 U | 0.005 U | - | 623 |
| | | | 7/24/2007 | | | 2 U | 2 U | 0.005 U | 1 U | 634 |
| | | | 1/9/2008 | | | 2 U | 2 U | 0.005 U | 1 U | 450 |
| | | | 9/2/2008 | | | 2 U | 2 U | - | - | - |
| | | | 5/7/2012 | | | 1.6 J | 0.50 U | 0.0050 U | 0.020 U | 560 |
| | | | 9/18/2013 | | | 2.3 | 0.50 U | 0.0050 U | 0.086 | 640 |
| IZ-East | IZ-East | 288 - 385 | 8/28/2006 | | | **8.1** | **1.9** | - | - | - |
| | | | 9/27/2006 | | | - | - | - | - | 1020 |
| | | | 10/2/2006 | | | **8.4** | **1.7** | 0.005 U | 1.7 | 929 |
| | | | 1/26/2007 | | | **8** | **2.3** | **0.024** | 2.4 | 951 |
| | | | 1/26/2007 | K | | - | - | **0.026** | - | - |
| | | | 7/26/2007 | | | 2 U | **6** | - | 1 U | 928 |
| | | | 7/26/2007 | K | | 2 U | **6.2** | - | 1 U | 900 |
| | | | 1/10/2008 | | | 2.9 | **17** | 0.005 U | 1 U | 847 |
| | | | 1/10/2008 | K | | 2.6 | **17** | 0.005 U | 1 U | 837 |
| | | | 8/29/2008 | | | 5.6 | **20** | - | - | - |
| | | | 8/29/2008 | K | | 5.7 | **19** | - | - | - |
| | | | 5/9/2012 | | | **9.5** | **12** | **0.011** | 0.020 U | 740 |
| | | | 5/9/2012 | S | | **6.4** | **9.4** | **0.012** | 0.030 U | 910 |
| | | | 5/9/2012 | EP | | - | - | **0.0081 J** | - | - |
| | | | 9/20/2013 | | | **6.2** | **12** | 0.0061 | 1.1 | 940 |

# Table 4-4
## Analytical Summary
## Emerging Compounds and TDS in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Perchlorate 331/314/300 6 | 1,4-Dioxane 8260/8270 1* | 1,2,3-TCP 504/524/1625 (low level) 0.005* | Hexavalent Chromium 7199/7196/218 10 | TDS 160/2540 |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 9/20/2013 | S | | 5.6 | **11** | **0.010** | 0.020 UJ | 960 |
| IZ-East LIZ1 | IZ-East LIZ1 | 324 - 342 | 3/7/2014 | L | | - | **23** | 0.0032 J | - | - |
| | | | 5/8/2014 | | | - | **21** | 0.0062 | - | - |
| | | | 7/24/2014 | | | - | **21** | **0.020** | - | - |
| | | | 9/23/2014 | | | - | **21** | **0.030** | - | - |
| IZ-East LIZ2 | IZ-East LIZ2 | 375 - 385 | 3/7/2014 | L | | - | **19** | 0.0029 J | - | - |
| | | | 3/7/2014 | L - K | | - | **19** | 0.0018 J | - | - |
| | | | 5/8/2014 | | | - | **20** | 0.0034 | - | - |
| | | | 5/8/2014 | K | | - | **21** | 0.0027 | - | - |
| | | | 7/23/2014 | | | - | **19** | 0.0027 J | - | - |
| | | | 7/23/2014 | K | | - | **21** | 0.0024 J | - | - |
| | | | 9/23/2014 | | | - | **19** | 0.0050 U | - | - |
| IZ-East UIZ | IZ-East UIZ | 288 - 310 | 3/7/2014 | L | | - | **19** | 0.0028 J | - | - |
| | | | 5/8/2014 | | | - | **20** | 0.0046 | - | - |
| | | | 7/23/2014 | | | - | **20** | - | - | - |
| | | | 7/23/2014 | | | - | - | 0.0036 J | - | - |
| | | | 9/23/2014 | | | - | **20** | 0.0034 J | - | - |
| MZ-1 | MZ-1 | 180 - 220 | 12/20/2006 | | | 4.8 | 0.91 J | 0.005 U | 20 U | 1070 |
| | | | 7/20/2007 | | | 2 U | 2 U | 0.005 U | 1 U | 1020 |
| | | | 1/15/2008 | | | 2 U | 2 U | 0.005 U | 1 U | 963 |
| | | | 8/28/2008 | | | 3.2 | 2 U | - | - | - |
| | | | 5/8/2012 | | | 1.7 J | **1.2** | 0.0050 U | 0.020 U | 780 |
| | | | 5/8/2012 | EP | | - | - | 0.0018 J | - | - |
| | | | 9/19/2013 | | | 3.9 | 1.0 | 0.0050 U | 0.22 | 1000 |
| MZ-2 | MZ-2 | 230 - 255 | 1/15/2007 | | | 2.4 J | **1.6** | - | - | 1060 |
| | | | 1/19/2007 | | | 4.6 | **1.5** | 0.005 U | 0.44 | 1170 |
| | | | 7/25/2007 | | | 2 U | **3.1** | 0.005 U | 1 U | 943 |
| | | | 1/9/2008 | | | 3.2 | **2.2** | 0.005 U | 1 U | 807 |
| | | | 9/2/2008 | | | 2.5 | 2 U | - | - | - |
| | | | 5/7/2012 | | | 2.0 U | **2.5** | 0.0050 U | 0.020 U | 740 |
| | | | 9/18/2013 | | | 3.9 | **2.4** | 0.0050 U | 1.2 | 1000 |
| MZ-3 | MZ-3 | 268 - 308 | 8/14/2007 | | | 2 U | **3.7** | - | - | 1080 |
| | | | 8/17/2007 | | | 2 U | **4.3** | 0.005 U | 0.61 | 980 |
| | | | 1/11/2008 | | | 2.1 | **3.1** | 0.005 U | 1 U | 1060 |
| | | | 8/27/2008 | | | 3.8 | **2.5** | - | - | - |
| | | | 5/4/2012 | | | 3.0 | **2.3** | 0.0050 U | 0.020 U | 890 |
| | | | 5/4/2012 | | | 3.0 | **2.2** | 0.0050 U | 0.020 U | 880 |
| | | | 9/17/2013 | | | 4.7 | **1.9** | 0.0050 U | 0.64 J | 1200 |
| | | | 9/17/2013 | K | | 4.8 | **1.9** | 0.0050 U | 0.81 | 1200 |

Notes:
Perchlorate, 1,4-Dioxane, 1,2,3-TCP and hexavalent chromium are in micrograms per liter (µg/L). TDS is in milligrams per liter (mg/L)
MCL = California Maximum Containment Levels, unless otherwise noted with a symbol
TCP = Trichloropropane; TDS = Total Dissolved Solids
-- = Analyte was not analyzed by laboratory
BOLD - indicates the analyte exceeded the California maximum contaminant level (MCL) or other limit provided at the top of the table beneath the respective compound
* = California Department of Public Health Drinking Water Notification Levels
ft bgs = feet below ground surface
J = Estimated concentration between method detection and reporting limits OR qualified during data validation
U = Not detected at a concentration greater than the limit shown
B = Compound also detected in the laboratory blank
Sample Type:
K = Duplicate groundwater sample
S = Split groundwater sample
L = Low Flow
L-K = Low Flow and Duplicate groundwater sample
HS = HydraSleeve

# Table 4-5
## Analytical Summary
## Nitrate in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Nitrate as $NO_3$ 300/353 45 | Nitrite 353 1000 | Nitrate/Nitrite 353 *NC* |
|---|---|---|---|---|---|---|---|---|
| EPA-MW6-13 | EPA-MW6-13 | 173 - 183 | 8/3/2011 | L | | **57** | -- | -- |
| MW6-31 | EPAMW6-31 | 1068 - 1083 | 4/5/2002 | | | 0.5 U | -- | -- |
| MW6-32 | EPAMW6-32 | 717 - 727 | 4/5/2002 | | | 0.5 U | -- | -- |
| MW6-33 | EPAMW6-33 | 475 - 485 | 4/5/2002 | | | 0.5 U | -- | -- |
| | | | 10/23/2003 | | | 0.5 U | -- | -- |
| | | | 10/23/2003 | K | | 0.5 U | -- | -- |
| | | | 6/22/2005 | | | 0.44 U | -- | -- |
| | | | 1/4/2006 | | | **57** | -- | -- |
| | | | 1/4/2006 | K | | **49** | -- | -- |
| | | | 6/26/2006 | | | 0.26 J | -- | -- |
| | | | 12/20/2006 | | | 0.44 U | -- | -- |
| | | | 1/4/2011 | | | 0.50 U | -- | -- |
| | | | 7/20/2011 | | | 0.50 U | -- | -- |
| | | | 8/14/2014 | | | 42 | 100 U | 9500 |
| MW6-34 | EPAMW6-34 | 300 - 310 | 4/4/2002 | | | 40 | -- | -- |
| | | | 4/4/2002 | K | | 40 | -- | -- |
| | | | 10/23/2003 | | | 38 | -- | -- |
| | | | 6/22/2005 | | | 39 | -- | -- |
| | | | 12/27/2005 | | | 39 | -- | -- |
| | | | 6/27/2006 | | | 40 | -- | -- |
| | | | 12/21/2006 | | | 39 | -- | -- |
| | | | 6/27/2007 | | | 37.4 | -- | -- |
| | | | 1/5/2011 | | | 40 | -- | -- |
| | | | 7/21/2011 | | | 36 | -- | -- |
| | | | 7/21/2011 | K | | 34 | -- | -- |
| | | | 8/12/2014 | | | 37 | 100 U | 8300 |
| MW6-35 | EPAMW6-35 | 215 - 230 | 4/8/2002 | | | **64** | -- | -- |
| MW6-41 | MW64-1 | 1107 - 1122 | 5/1/1995 | | | 0.5 U | -- | -- |
| | | | 10/18/1995 | | | 0.1 U | 1000 U | -- |
| | | | 4/3/2002 | | | 1 U | -- | -- |
| MW6-42 | MW64-2 | 660 - 680 | 5/1/1995 | | | 0.5 U | -- | -- |
| | | | 10/17/1995 | | | 0.1 U | 1000 U | -- |
| | | | 4/3/2002 | | | 1 U | -- | -- |
| MW6-43 | MW64-3 | 424 - 434 | 5/2/1995 | | | 0.5 U | -- | -- |
| | | | 8/8/1995 | | | 0.5 U | -- | -- |
| | | | 10/18/1995 | | | 0.5 | 500 U | -- |
| | | | 4/2/2002 | | | 0.5 U | -- | -- |
| MW6-44 | MW64-4 | 322 - 332 | 5/2/1995 | | | 0.5 U | -- | -- |
| | | | 8/8/1995 | | | 1.4 J | -- | -- |
| | | | 10/17/1995 | | | 0.6 | 1000 U | -- |
| | | | 4/2/2002 | | | 0.5 U | -- | -- |
| | | | 12/5/2002 | | | 0.5 U | -- | -- |
| | | | 10/22/2003 | | | 0.5 U | -- | -- |
| | | | 6/21/2005 | | | 0.44 U | -- | -- |
| | | | 12/13/2005 | | | 0.18 J | -- | -- |
| | | | 6/14/2006 | | | 0.23 J | -- | -- |
| | | | 12/21/2006 | | | 0.18 J | -- | -- |
| | | | 7/19/2011 | | | 0.50 U | -- | -- |
| MW6-45 | MW64-5 | 224 - 234 | 5/2/1995 | | | 6.6 | -- | -- |
| | | | 5/2/1995 | K | | 6.6 | -- | -- |
| | | | 8/8/1995 | | | 3.3 | -- | -- |
| | | | 10/17/1995 | | | 3.7 | 400 U | -- |
| | | | 5/29/2002 | | | 2 | -- | -- |
| | | | 12/23/2002 | | | 0.5 U | -- | -- |
| | | | 10/22/2003 | | | 2.9 | -- | -- |
| | | | 6/14/2005 | | | 3.1 | -- | -- |
| | | | 12/20/2005 | | | 2.2 | -- | -- |
| | | | 6/22/2006 | | | 1.7 | -- | -- |
| | | | 1/8/2007 | | | 1.5 | -- | -- |
| | | | 7/2/2007 | | | 1.3 | -- | -- |
| | | | 8/8/2011 | HS | | 0.50 U | -- | -- |
| MW6-46 | MW64-6 | 147 - 162 | 5/2/1995 | | | 44 | -- | -- |
| | | | 8/8/1995 | | | **49** | -- | -- |
| | | | 10/18/1995 | | | 40 | 1000 U | -- |
| | | | 4/3/2002 | | | 45 | -- | -- |
| | | | 4/3/2002 | K | | **46** | -- | -- |

# Table 4-5
## Analytical Summary
## Nitrate in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Nitrate as $NO_3$ 300/353 45 | Nitrite 353 1000 | Nitrate/Nitrite 353 *NC* |
|---|---|---|---|---|---|---|---|---|
| | | | 10/22/2003 | | | **46** | -- | -- |
| | | | 6/22/2005 | | | **46** | -- | -- |
| | | | 12/12/2005 | | | 44 | -- | -- |
| | | | 6/14/2006 | | | 44 | -- | -- |
| | | | 12/22/2006 | | | **46** | -- | -- |
| | | | 6/22/2007 | | | 43.2 | -- | -- |
| | | | 1/5/2011 | | | **46** | -- | -- |
| | | | 7/19/2011 | | | 39 | -- | -- |
| | | | 8/13/2014 | | | 43 | 10 J | 9700 |
| | | | 8/13/2014 | K | | 43 | 100 U | 9600 |
| MW6-51 | MW6-51 | 1063 - 1078 | 5/3/1995 | | | 0.5 U | -- | -- |
| | | | 10/17/1995 | | | 0.1 U | 400 U | -- |
| | | | 4/9/2002 | | | 1 U | -- | -- |
| MW6-52 | MW6-52 | 876 - 896 | 5/4/1995 | | | 0.5 U | -- | -- |
| | | | 10/17/1995 | | | 0.1 U | 1000 U | -- |
| | | | 4/9/2002 | | | 1 U | -- | -- |
| MW6-53 | MW6-53 | 578 - 598 | 5/3/1995 | | | 0.5 U | -- | -- |
| | | | 8/1/1995 | | | 0.5 U | -- | -- |
| | | | 10/17/1995 | | | 0.1 U | 2000 U | -- |
| | | | 4/8/2002 | | | 1 U | -- | -- |
| MW6-54 | MW6-54 | 324 - 344 | 5/4/1995 | | | 0.5 U | -- | -- |
| | | | 8/1/1995 | | | 0.5 U | -- | -- |
| | | | 10/16/1995 | | | 0.1 U | 400 U | -- |
| | | | 4/10/2002 | | | 0.5 U | -- | -- |
| | | | 12/5/2002 | | | 1 U | -- | -- |
| | | | 10/24/2003 | | | 1 U | -- | -- |
| | | | 10/24/2003 | L | | 1 U | -- | -- |
| MW6-55 | MW6-55 | 250 - 265 | 5/4/1995 | | | 0.93 | -- | -- |
| | | | 8/1/1995 | | | 1.4 | -- | -- |
| | | | 10/17/1995 | | | 1.8 | 400 U | -- |
| | | | 4/10/2002 | | | 0.53 | -- | -- |
| | | | 6/23/2005 | | | 0.44 | -- | -- |
| | | | 12/23/2005 | | | 0.32 J | -- | -- |
| | | | 6/27/2006 | | | 0.62 | -- | -- |
| | | | 1/3/2007 | | | 0.36 J | -- | -- |
| | | | 1/3/2007 | K | | 0.36 J | -- | -- |
| | | | 8/11/2011 | | | 0.65 | -- | -- |
| | | | 8/11/2014 | | | 0.33 J | 33 J | 110 |
| MW6-56 | MW6-56 | 120 - 130 | 5/4/1995 | | | **49** | -- | -- |
| | | | 8/1/1995 | | | **49** | -- | -- |
| | | | 8/1/1995 | K | | **49** | -- | -- |
| | | | 10/16/1995 | | | **66** | 4000 U | -- |
| | | | 6/20/2005 | | | 43 | -- | -- |
| | | | 12/14/2005 | | | 12 | -- | -- |
| | | | 6/16/2006 | | | 44 | -- | -- |
| | | | 12/22/2006 | | | **47** | -- | -- |
| | | | 6/26/2007 | | | 44.05 | -- | -- |
| | | | 1/6/2011 | | | **47** | -- | -- |
| | | | 7/25/2011 | | | 42 | -- | -- |
| | | | 8/15/2014 | | | 0.50 U | 39 J | 100 U |
| MW6-61 | MW6-61 | 446 - 456 | 5/5/1995 | | | 20 | -- | -- |
| | | | 8/7/1995 | | | 20 | -- | -- |
| | | | 10/19/1995 | | | 19 | 200 U | -- |
| MW6-62 | MW6-62 | 310 - 325 | 5/5/1995 | | | 24 | -- | -- |
| | | | 5/5/1995 | K | | 24 | -- | -- |
| | | | 8/7/1995 | | | 23 | -- | -- |
| | | | 10/19/1995 | | | 21 | 1000 U | -- |
| | | | 10/28/2003 | | | 27 | -- | -- |
| MW6-63 | MW6-63 | 197 - 212 | 5/5/1995 | | | 44 | -- | -- |
| | | | 8/7/1995 | | | 44 | -- | -- |
| | | | 8/7/1995 | K | | 44 | -- | -- |
| | | | 10/19/1995 | | | 36 | 1000 U | -- |
| | | | 10/19/1995 | K | | **56** | 2000 U | -- |
| | | | 10/21/2003 | | | 42 | -- | -- |
| | | | 6/17/2005 | | | 44 | -- | -- |
| | | | 12/23/2005 | | | 44 | -- | -- |
| | | | 6/15/2006 | | | 43 | -- | -- |
| | | | 6/15/2006 | K | | 43 | -- | -- |
| | | | 1/2/2007 | | | 44 | -- | -- |
| | | | 1/2/2007 | K | | 44 | -- | -- |

# Table 4-5
## Analytical Summary
## Nitrate in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Nitrate as $NO_3$ 300/353 45 | Nitrite 353 1000 | Nitrate/Nitrite 353 *NC* |
|---|---|---|---|---|---|---|---|---|
| | | | 7/25/2011 | | | 41 | -- | -- |
| | | | 7/25/2011 | K | | 41 | -- | -- |
| MW6-64 | MW6-64 | 17.4 - 37.4 | 5/5/1995 | | | 38 | -- | -- |
| | | | 8/7/1995 | | | 39 | -- | -- |
| | | | 10/19/1995 | | | 35 | 1000 U | -- |
| MW6-65 | MW6-65 | 97 - 112 | 10/20/1995 | | | 3.8 | 1000 U | -- |
| | | | 6/24/2005 | | | 19 | -- | -- |
| | | | 12/14/2005 | | | 45 | -- | -- |
| | | | 6/16/2006 | | | 18 | -- | -- |
| | | | 1/16/2007 | | | 19 | -- | -- |
| | | | 1/6/2011 | | | 23 | -- | -- |
| | | | 7/18/2011 | | | 23 | -- | -- |
| MW6-71 | MW6-71 | 209 - 230 | 5/16/1995 | | | 19 | -- | -- |
| | | | 8/9/1995 | | | 19 | -- | -- |
| | | | 10/18/1995 | | | 19 | 1000 U | -- |
| | | | 10/18/1995 | K | | 18 | 1000 U | -- |
| MW6-81 | MW6-81 | 107 - 118 | 5/8/1995 | | | 3.1 | -- | -- |
| | | | 8/9/1995 | | | 2.3 | -- | -- |
| | | | 10/18/1995 | | | 2.7 | 1000 U | -- |
| MW6-82 | MW6-82 | 16 - 26 | 5/8/1995 | | | **57** | -- | -- |
| | | | 8/9/1995 | | | **57** | -- | -- |
| | | | 10/18/1995 | | | **52** | 1000 U | -- |
| MP20-1 | MP20-01 | 434 - 444 | 8/13/1999 | | | 34 | -- | -- |
| | | | 9/13/1999 | | | 6.2 | -- | -- |
| | | | 12/27/1999 | | | 1 | -- | -- |
| | | | 6/29/2000 | | | 1.3 | -- | -- |
| | | | 4/26/2002 | | | 2.4 | -- | -- |
| | | | 12/6/2002 | | | 3.8 | -- | -- |
| | | | 11/6/2003 | | | 5.1 | -- | -- |
| | | | 6/29/2005 | | | 3.8 | -- | -- |
| | | | 12/8/2005 | | | 2.3 | -- | -- |
| | | | 7/3/2006 | | | 2.6 | -- | -- |
| | | | 2/2/2007 | | | 1.3 B | -- | -- |
| | | | 8/6/2014 | | | 4.2 | 110 | 1100 |
| MP20-2 | MP20-02 | 336 - 346 | 8/13/1999 | | | 31 | -- | -- |
| | | | 9/13/1999 | | | 5 | -- | -- |
| | | | 12/27/1999 | | | 4.3 | -- | -- |
| | | | 6/29/2000 | | | 4.8 | -- | -- |
| | | | 4/26/2002 | | | 5.2 | -- | -- |
| | | | 12/6/2002 | | | 4.5 | -- | -- |
| | | | 11/6/2003 | | | 3.9 | -- | -- |
| | | | 6/29/2005 | | | 4.9 | -- | -- |
| | | | 12/8/2005 | | | 4.4 | -- | -- |
| | | | 7/3/2006 | | | 4.9 | -- | -- |
| | | | 2/2/2007 | | | 4.9 | -- | -- |
| | | | 7/12/2011 | | | 5.0 | -- | -- |
| | | | 8/6/2014 | | | 4.6 | 55 J | 1100 |
| MP20-3 | MP20-03 | 288 - 298 | 8/13/1999 | | | 43 | -- | -- |
| | | | 9/13/1999 | | | 43 | -- | -- |
| | | | 12/27/1999 | | | 39 | -- | -- |
| | | | 6/29/2000 | | | 39 | -- | -- |
| | | | 4/26/2002 | | | 44 | -- | -- |
| | | | 4/26/2002 | K | | 44 | -- | -- |
| | | | 12/6/2002 | | | 43 | -- | -- |
| | | | 11/6/2003 | | | 40 | -- | -- |
| | | | 6/29/2005 | | | 42 | -- | -- |
| | | | 6/29/2005 | K | | 42 | -- | -- |
| | | | 12/8/2005 | | | 43 | -- | -- |
| | | | 12/8/2005 | K | | 43 | -- | -- |
| | | | 7/6/2006 | | | 43 | -- | -- |
| | | | 7/6/2006 | K | | 43 | -- | -- |
| | | | 2/2/2007 | | | 44 | -- | -- |
| | | | 6/13/2007 | | | 44.05 | -- | -- |
| | | | 12/20/2010 | | | 35 | -- | -- |
| | | | 12/20/2010 | K | | 36 | -- | -- |
| | | | 7/12/2011 | | | 38 | -- | -- |
| | | | 8/7/2014 | | | 41 | 110 | 9300 |
| MP20-4 | MP20-04 | 194 - 204 | 8/13/1999 | | | 26 | -- | -- |
| | | | 8/13/1999 | K | | 26 | -- | -- |
| | | | 9/13/1999 | | | 3 | -- | -- |

# Table 4-5
## Analytical Summary
## Nitrate in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Nitrate as $NO_3$ 300/353 45 | Nitrite 353 1000 | Nitrate/Nitrite 353 *NC* |
|---|---|---|---|---|---|---|---|---|
| | | | 9/13/1999 | K | | 3 | -- | -- |
| | | | 12/27/1999 | | | 6 | -- | -- |
| | | | 12/27/1999 | K | | 5.8 | -- | -- |
| | | | 6/29/2000 | | | 14 | -- | -- |
| | | | 4/27/2002 | | | 25 | -- | -- |
| | | | 12/6/2002 | | | 29 | -- | -- |
| | | | 11/6/2003 | | | 26 | -- | -- |
| | | | 6/29/2005 | | | 22 | -- | -- |
| | | | 12/8/2005 | | | 23 | -- | -- |
| | | | 7/3/2006 | | | 22 | -- | -- |
| | | | 2/2/2007 | | | 16 | -- | -- |
| | | | 7/14/2011 | | | 26 | -- | -- |
| MP20-5 | MP20-05 | 76 - 86 | 8/13/1999 | | | 0.11 U | -- | -- |
| | | | 9/14/1999 | | | 0.5 U | -- | -- |
| | | | 12/27/1999 | | | 0.5 U | -- | -- |
| | | | 6/29/2000 | | | 0.5 U | -- | -- |
| MP21-1 | MP21-01 | 530 - 540 | 8/21/2003 | | | 36 | -- | -- |
| | | | 11/5/2003 | | | 1.3 | -- | -- |
| | | | 6/28/2005 | | | 0.35 J | -- | -- |
| | | | 12/7/2005 | | | 0.18 J | -- | -- |
| | | | 7/5/2006 | | | 0.18 J | -- | -- |
| | | | 2/1/2007 | | | 0.22 UJB | -- | -- |
| MP21-2 | MP21-02 | 435 - 445 | 8/21/2003 | | | 0.5 U | -- | -- |
| | | | 11/5/2003 | | | 0.5 U | -- | -- |
| | | | 6/28/2005 | | | 0.17 J | -- | -- |
| | | | 12/7/2005 | | | 0.18 J | -- | -- |
| | | | 7/5/2006 | | | 0.17 J | -- | -- |
| | | | 2/1/2007 | | | 0.23 UJB | -- | -- |
| | | | 12/17/2010 | | | 0.50 U | -- | -- |
| | | | 7/13/2011 | | | 0.41 J | -- | -- |
| | | | 8/7/2014 | | | 0.50 U | 100 U | 100 U |
| MP21-3 | MP21-03 | 365 - 375 | 8/21/2003 | | | 35 | -- | -- |
| | | | 11/5/2003 | | | 14 | -- | -- |
| | | | 6/28/2005 | | | 0.16 J | -- | -- |
| | | | 12/7/2005 | | | 0.17 J | -- | -- |
| | | | 7/5/2006 | | | 0.44 U | -- | -- |
| | | | 2/1/2007 | | | 0.44 U | -- | -- |
| | | | 6/14/2007 | | | 0.89 | -- | -- |
| | | | 12/17/2010 | | | 1.3 | -- | -- |
| | | | 7/13/2011 | | | 0.50 U | -- | -- |
| | | | 8/7/2014 | | | 6.1 U | 270 | 1600 U |
| MP21-4 | MP21-04 | 320 - 330 | 8/21/2003 | | | 14 | -- | -- |
| | | | 11/5/2003 | | | 4.5 | -- | -- |
| | | | 6/28/2005 | | | 42 | -- | -- |
| | | | 12/7/2005 | | | 2.7 | -- | -- |
| | | | 7/5/2006 | | | 2.7 | -- | -- |
| | | | 2/1/2007 | | | 1.5 B | -- | -- |
| | | | 6/14/2007 | | | 2.05 | -- | -- |
| | | | 12/17/2010 | | | 0.50 U | -- | -- |
| | | | 7/13/2011 | | | 0.68 | -- | -- |
| | | | 8/26/2014 | | | 1.3 | 690 | 990 |
| MP21-5 | MP21-05 | 245 - 255 | 8/21/2003 | | | 44 | -- | -- |
| | | | 11/5/2003 | | | 41 | -- | -- |
| | | | 6/28/2005 | | | 3.5 | -- | -- |
| | | | 12/7/2005 | | | 43 | -- | -- |
| | | | 7/6/2006 | | | 43 | -- | -- |
| | | | 2/1/2007 | | | 42 | -- | -- |
| | | | 6/14/2007 | | | 41.8 | -- | -- |
| | | | 12/20/2010 | | | 36 | -- | -- |
| | | | 7/14/2011 | | | 39 | -- | -- |
| | | | 8/26/2014 | | | 41 | 120 | 9400 |
| MP21-6 | MP21-06 | 150 - 160 | 8/21/2003 | | | 2 | -- | -- |
| | | | 11/5/2003 | | | 1.5 | -- | -- |
| MW-6-1-5 | EPAMW61-5 | 354 - 364 | 8/21/2013 | | | **63** | -- | -- |
| | | | 8/8/2014 | | | **63** | 100 U | 14000 |
| MW-6-1-6 | EPAMW61-6 | 470 - 480 | 8/21/2013 | | | **110** | -- | -- |
| | | | 8/8/2014 | | | **110** | 100 U | 24000 |
| MW-6-1-7 | EPAMW61-7 | 594 - 604 | 8/21/2013 | | | 8.2 | -- | -- |
| | | | 8/8/2014 | | | 9.1 | 100 U | 2000 |
| MW6-10d | MW6-10d | 539 - 554 | 11/23/2002 | L | | 8.3 | -- | -- |

# Table 4-5
## Analytical Summary
## Nitrate in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Nitrate as $NO_3$ 300/353 45 | Nitrite 353 1000 | Nitrate/Nitrite 353 *NC* |
|---|---|---|---|---|---|---|---|---|
| | | | 10/27/2003 | L | | 9.1 | -- | -- |
| | | | 6/27/2005 | L | | 7.1 | -- | -- |
| | | | 12/21/2005 | L | | 8.9 | -- | -- |
| | | | 12/21/2005 | L - K | | 9.3 | -- | -- |
| | | | 6/23/2006 | L | | 7.5 | -- | -- |
| | | | 1/12/2007 | L | | 9.3 | -- | -- |
| | | | 12/20/2010 | L | | 5.8 | -- | -- |
| | | | 8/8/2011 | HS | | 5.7 | -- | -- |
| | | | 8/18/2014 | L | | 7.8 | 14 J | 1800 |
| MW6-10i | MW6-10i | 336 - 356 | 11/21/2002 | L | | 35 | -- | -- |
| | | | 10/24/2003 | L | | 23 | -- | -- |
| | | | 10/24/2003 | L - K | | 23 | -- | -- |
| | | | 6/27/2005 | L | | 33 | -- | -- |
| | | | 12/20/2005 | L | | 39 | -- | -- |
| | | | 6/23/2006 | L | | 39 | -- | -- |
| | | | 1/11/2007 | L | | 42 | -- | -- |
| | | | 12/21/2010 | L | | 36 | -- | -- |
| | | | 7/13/2011 | L | | 28 | -- | -- |
| | | | 7/13/2011 | HS | | 14 | -- | -- |
| | | | 8/18/2014 | L | | **47** | 100 U | 11000 |
| MW6-12i | MW6-12i | 260 - 275 | 10/14/2002 | L | | 0.5 U | -- | -- |
| | | | 10/29/2003 | L | | 0.5 U | -- | -- |
| | | | 6/15/2005 | L | | 0.44 U | -- | -- |
| | | | 12/16/2005 | L | | 0.23 J | -- | -- |
| | | | 6/22/2006 | L | | 0.44 U | -- | -- |
| | | | 6/22/2006 | L - K | | 0.44 U | -- | -- |
| | | | 1/11/2007 | L | | 0.44 U | -- | -- |
| | | | 8/8/2011 | HS | | 0.50 U | -- | -- |
| | | | 8/29/2014 | L | | 0.54 | 100 U | 120 |
| MW6-13i | MW6-13i | 246 - 261 | 12/6/2002 | L | | 5.8 | -- | -- |
| | | | 10/22/2003 | L | | 5.3 | -- | -- |
| | | | 6/16/2005 | L | | 4.9 | -- | -- |
| | | | 12/16/2005 | L | | 4.9 | -- | -- |
| | | | 7/7/2006 | L | | 5.3 | -- | -- |
| | | | 1/10/2007 | L | | 6.2 | -- | -- |
| | | | 12/21/2010 | L | | 7.7 | -- | -- |
| | | | 7/13/2011 | L | | 7.3 | -- | -- |
| | | | 7/18/2011 | HS | | 7.3 | -- | -- |
| | | | 8/29/2014 | L | | 7.8 | 250 | 2000 |
| MW6-17i | MW6-17i | 212 - 232 | 2/24/2003 | | | **46** | -- | -- |
| | | | 10/28/2003 | L | | 43 | -- | -- |
| | | | 10/28/2003 | L - K | | **46** | -- | -- |
| | | | 6/14/2005 | L | | 38 | -- | -- |
| | | | 12/19/2005 | L | | 44 | -- | -- |
| | | | 6/20/2006 | L | | 40 | -- | -- |
| | | | 1/8/2007 | L | | 42 | -- | -- |
| | | | 8/8/2011 | HS | | 0.50 U | -- | -- |
| MW7-1A | MW6-09i | 350 - 370 | 11/22/2002 | L | | 21 | -- | -- |
| | | | 11/22/2002 | L - K | | 21 | -- | -- |
| | | | 10/24/2003 | L | | 13 | -- | -- |
| | | | 6/16/2005 | L | | 14 | -- | -- |
| | | | 6/16/2005 | L - K | | 14 | -- | -- |
| | | | 12/15/2005 | L | | 13.3 | -- | -- |
| | | | 6/22/2006 | L | | 12 | -- | -- |
| | | | 1/10/2007 | L | | 13 | -- | -- |
| | | | 1/10/2007 | L - K | | 13 | -- | -- |
| | | | 12/20/2010 | L | | 9.4 | -- | -- |
| | | | 8/8/2011 | HS | | 12 | -- | -- |
| | | | 8/19/2014 | L | | 11 U | 100 U | 2600 U |
| MW7-1B | MW6-09UI2 | 380 - 420 | 8/14/2013 | L | | 35 | 27 J | 7900 |
| | | | 2/11/2014 | L | | 34 | -- | -- |
| | | | 8/20/2014 | L | | 37 | 11 J | 8500 |
| MW7-1C | MW6-09LI | 435 - 450 | 8/14/2013 | L | | 1.7 | 41 J | 420 |
| | | | 2/11/2014 | L | | 2.3 | -- | -- |
| | | | 8/20/2014 | L | | 0.83 U | 13 J | 200 U |
| MW7-2A | MW6-22UI | 302 - 317 | 8/12/2013 | L | | 44 | -- | -- |
| | | | 8/12/2013 | L - K | | 41 | -- | -- |
| | | | 2/12/2014 | L | | 33 | -- | -- |
| | | | 2/12/2014 | L - K | | 34 | -- | -- |
| | | | 8/27/2014 | L | | 30 | 300 | 7100 |

# Table 4-5
## Analytical Summary
## Nitrate in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Nitrate as $NO_3$ 300/353 45 | Nitrite 353 1000 | Nitrate/Nitrite 353 *NC* |
|---|---|---|---|---|---|---|---|---|
| | | | 8/27/2014 | L - K | | 32 | 220 | 7600 |
| MW7-2B | MW6-22LI1 | 348 - 358 | 8/12/2013 | L | | 9.4 | -- | -- |
| | | | 2/13/2014 | L | | 3.5 | -- | -- |
| | | | 8/27/2014 | L | | 9.8 | 350 | 2600 |
| MW7-2C | MW6-22LI2 | 380 - 390 | 8/13/2013 | L | | 6.7 | -- | -- |
| | | | 2/12/2014 | L | | 0.36 J | -- | -- |
| | | | 8/27/2014 | L | | 3.0 | 120 | 800 |
| MW7-2D | MW6-22D | 452 - 462 | 8/12/2013 | L | | 0.25 J | -- | -- |
| | | | 2/13/2014 | L | | 0.50 U | -- | -- |
| | | | 8/28/2014 | L | | 0.50 U | 14 J | 36 J |
| MW7-3A | MW6-23UI | 338 - 348 | 8/15/2013 | L | | 30 | 170 | 6800 |
| | | | 2/14/2014 | L | | 0.96 | -- | -- |
| | | | 8/26/2014 | L | | 34 | **1600** | 9200 |
| MW7-3B | MW6-23LI | 434 - 444 | 8/16/2013 | L | | 14 | 170 U | 3300 |
| | | | 2/14/2014 | L | | 3.5 | -- | -- |
| | | | 8/26/2014 | L | | 3.7 | 100 U | 850 |
| MW7-3C | MW6-23D | 490 - 500 | 8/16/2013 | L | | 1.4 | 100 U | 360 |
| | | | 2/21/2014 | L | | 0.57 | -- | -- |
| | | | 8/26/2014 | L | | 4.0 | 100 U | 920 |
| MW7-4A | MW6-24UI | 320 - 335 | 8/9/2013 | L | | **50** | -- | -- |
| | | | 2/20/2014 | L | | 45 | -- | -- |
| | | | 8/25/2014 | L | | 20 | **1800** | 6400 |
| MW7-4B | MW6-24LI | 365 - 375 | 8/12/2013 | L | | 27 | -- | -- |
| | | | 2/21/2014 | L | | 0.50 U | -- | -- |
| | | | 8/25/2014 | L | | 0.39 J | 100 U | 120 |
| MW7-5A | MW6-25UI | 338 - 348 | 8/19/2013 | L | | 33 | 130 | 7600 |
| | | | 2/14/2014 | L | | 33 | -- | -- |
| | | | 8/21/2014 | L | | 36 | 97 J | 8200 |
| MW7-5B | MW6-25LI | 388 - 398 | 8/19/2013 | L | | 9.0 | 91 J | 2100 |
| | | | 2/14/2014 | L | | 28 | -- | -- |
| | | | 8/21/2014 | L | | 19 | **2000** | 6300 |
| MW7-6 | MW6-26UI | 362 - 372 | 8/9/2013 | L | | 43 | -- | -- |
| | | | 8/9/2013 | L - K | | 42 | -- | -- |
| | | | 2/17/2014 | L | | 0.50 U | -- | -- |
| | | | 2/17/2014 | L - K | | 0.50 U | -- | -- |
| | | | 9/3/2014 | L | | 0.50 U | 88 J | 120 |
| | | | 9/3/2014 | L - K | | 0.50 U | 100 | 120 |
| MW7-7A | MW6-27UI1 | 288 - 308 | 8/7/2013 | L | | **55** | -- | -- |
| | | | 2/19/2014 | L | | 44 | -- | -- |
| | | | 7/24/2014 | L | | **47** | 16 J | 11000 |
| MW7-7B | MW6-27UI2 | 320 - 330 | 8/7/2013 | L | | **52** | -- | -- |
| | | | 2/20/2014 | L | | 0.79 | -- | -- |
| | | | 7/24/2014 | L | | 31 | 440 | 7500 |
| MW7-7C | MW6-27LI1 | 347 - 362 | 8/8/2013 | L | | 38 | -- | -- |
| | | | 2/18/2014 | L | | 0.50 U | -- | -- |
| | | | 7/25/2014 | L | | 2.4 | 14 J | 550 |
| MW7-7D | MW6-27LI2 | 377 - 387 | 8/6/2013 | L | | 17 | -- | -- |
| | | | 8/6/2013 | L - K | | 18 | -- | -- |
| | | | 2/19/2014 | L | | 6.2 | -- | -- |
| | | | 2/19/2014 | L - K | | 6.6 | -- | -- |
| | | | 9/23/2014 | | | 5.2 | **1100** | 2300 |
| MW7-7E | MW6-27D | 434 - 444 | 8/5/2013 | L | | 8.1 | -- | -- |
| | | | 2/20/2014 | L | | 0.50 U | -- | -- |
| | | | 8/19/2014 | L | | 2.1 U | 21 J | 500 U |
| MW7-8A | MW6-28UI | 340 - 360 | 2/10/2014 | L | | 36 | -- | -- |
| | | | 9/3/2014 | L | | 32 | **1500** | 8700 |
| MW7-8B | MW6-28LI | 454 - 464 | 2/10/2014 | L | | 25 | -- | -- |
| | | | 9/3/2014 | L | | 28 | **2000** | 8400 |
| MW7-9A | MW6-29UI | 365 - 385 | 8/9/2013 | L | | 41 | -- | -- |
| | | | 2/17/2014 | L | | 37 | -- | -- |
| | | | 8/14/2014 | L | | 19 | 21 J | 4300 |
| MW7-9B | MW6-29LI | 412 - 432 | 8/8/2013 | L | | **54** | -- | -- |
| | | | 2/17/2014 | L | | 37 | -- | -- |
| | | | 8/14/2014 | L | | 16 | **1200** | 4700 |
| | | | 8/14/2014 | L - K | | 16 | **1200** | 4800 |
| MW7-9C | MW6-29D | 475 - 490 | 8/9/2013 | L | | 4.7 | -- | -- |
| | | | 2/17/2014 | L | | 3.9 | -- | -- |
| | | | 8/14/2014 | L | | 0.21 J | 16 J | 100 U |
| MW7-10 | PMW-6 | 258 - 278 | 2/12/2014 | L | | **71** | -- | -- |
| | | | 2/12/2014 | L - K | | **70** | -- | -- |

# Table 4-5
## Analytical Summary
## Nitrate in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Nitrate as $NO_3$ 300/353 45 | Nitrite 353 1000 | Nitrate/Nitrite 353 *NC* |
|---|---|---|---|---|---|---|---|---|
| | | | 9/2/2014 | L | | **70** | 15 J | 16000 |
| | | | 9/2/2014 | L - K | | **71** | 13 J | 16000 |
| MW7-11A | PMW-7A | 390 - 410 | 2/18/2014 | L | | 31 | -- | -- |
| | | | 8/22/2014 | L | | 32 | 100 U | 7300 |
| MW7-11B | PMW-7B | 460 - 470 | 3/10/2014 | L | | 18 | -- | -- |
| | | | 8/22/2014 | L | | 0.50 U | 100 U | 140 U |
| MW7-12A | PMW-8A | 390 - 410 | 2/13/2014 | L | | 27 | -- | -- |
| | | | 9/5/2014 | L | | 33 | 15 J | 7500 |
| MW7-12B | PMW-8B | 460 - 470 | 2/13/2014 | L | | 27 | -- | -- |
| | | | 9/5/2014 | L | | 35 | 23 J | 7900 |
| MW7-13A | PMW-5A | 303 - 313 | 3/28/2014 | L | | **49** | -- | -- |
| | | | 9/4/2014 | L | | **50** | 28 J | 11000 |
| MW7-13B | PMW-5B | 323 - 333 | 3/26/2014 | L | | 27 | -- | -- |
| | | | 9/4/2014 | L | | 43 | 25 J | 9800 |
| MW7-15A | MW6-16i | 304 - 314 | 12/24/2002 | L | | **59** | -- | -- |
| | | | 10/23/2003 | L | | 12 | -- | -- |
| | | | 6/13/2005 | L | | **60** | -- | -- |
| | | | 12/19/2005 | L | | **59** | -- | -- |
| | | | 6/20/2006 | L | | **55** | -- | -- |
| | | | 1/9/2007 | L | | **51** | -- | -- |
| | | | 12/22/2010 | L | | 4.3 | -- | -- |
| | | | 8/8/2011 | L | | 7.6 | -- | -- |
| | | | 9/2/2014 | L | | 31 | 510 | 7500 |
| S11A | S11A | 190 - 220 | 3/19/2014 | L | | 39 | -- | -- |
| | | | 8/28/2014 | L | | 42 | 13 J | 9600 |
| IZ-1 | IZ-1 | 278 - 368 | 12/6/2006 | | | 8.9 | -- | -- |
| | | | 12/14/2006 | | | 13 | -- | -- |
| | | | 7/23/2007 | | | 3.2 | -- | -- |
| | | | 1/15/2008 | | | 3.52 | -- | -- |
| | | | 5/8/2012 | | | 0.49 J | 100 U | -- |
| | | | 9/19/2013 | | | 0.58 | 11 J | -- |
| IZ-2 | IZ-2 | 305 - 385 | 10/9/2006 | | | 6.2 | -- | -- |
| | | | 10/13/2006 | | | 4.2 | -- | -- |
| | | | 1/12/2007 | | | 6.6 | -- | -- |
| | | | 7/24/2007 | | | 6.6 | -- | -- |
| | | | 1/9/2008 | | | 11.44 | -- | -- |
| | | | 5/7/2012 | | | 12 | 20 J | -- |
| | | | 9/18/2013 | | | 14 | 100 U | -- |
| IZ-East | IZ-East | 288 - 385 | 9/27/2006 | | | **55** | -- | -- |
| | | | 10/2/2006 | | | **52** | -- | -- |
| | | | 1/26/2007 | | | **54** | -- | -- |
| | | | 7/26/2007 | | | 44 | -- | -- |
| | | | 7/26/2007 | K | | 43.9 | -- | -- |
| | | | 1/10/2008 | | | 36.08 | -- | -- |
| | | | 1/10/2008 | K | | 37.4 | -- | -- |
| | | | 5/9/2012 | | | 45 | 100 U | -- |
| | | | 9/20/2013 | | | 40 | 33 J | -- |
| | | | 9/20/2013 | S | | -- | 20 J | -- |
| MZ-1 | MZ-1 | 180 - 220 | 12/20/2006 | | | 43 | -- | -- |
| | | | 7/20/2007 | | | 31.9 | -- | -- |
| | | | 1/15/2008 | | | 39.6 | -- | -- |
| | | | 5/8/2012 | | | 43 | 100 U | -- |
| | | | 9/19/2013 | | | 37 | 100 U | -- |
| MZ-2 | MZ-2 | 230 - 255 | 1/15/2007 | | | 43 | -- | -- |
| | | | 1/19/2007 | | | 43 | -- | -- |
| | | | 7/25/2007 | | | 41 | -- | -- |
| | | | 1/9/2008 | | | 40.48 | -- | -- |
| | | | 5/7/2012 | | | **46** | 10 J | -- |
| | | | 9/18/2013 | | | 43 | 100 U | -- |
| MZ-3 | MZ-3 | 268 - 308 | 8/14/2007 | | | 35.8 | -- | -- |
| | | | 8/17/2007 | | | 33.7 | -- | -- |
| | | | 1/11/2008 | | | 38.28 | -- | -- |

# Table 4-5
## Analytical Summary
## Nitrate in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: MCL: | Nitrate as $NO_3$ 300/353 45 | Nitrite 353 1000 | Nitrate/Nitrite 353 *NC* |
|---|---|---|---|---|---|---|---|---|
| | | | 5/4/2012 | | | 43 | 100 U | -- |
| | | | 5/4/2012 | | | 45 | 100 U | -- |
| | | | 9/17/2013 | | | 40 | 100 U | -- |
| | | | 9/17/2013 | K | | 40 | 100 U | -- |

Notes:
Nitrate as NO3, Nitrite and Nitrite/Nitrate are in milligrams per liter (mg/L).
MCL = California Maximum Containment Levels, unless otherwise noted with a symbol.
-- = Analyte was not analyzed by laboratory.
BOLD - indicates the analyte exceeded the California maximum contaminant level (MCL) or other limit provided at the top of the table beneath the respective compounds.
ft bgs = feet below ground surface
J = Estimated concentration between method detection and reporting limits OR qualified during data validation
U = Not detected at a concentration greater than the limit shown.
B = Compound also detected in the laboratory blank
Sample Type:
K = Duplicate groundwater sample
S = Split groundwater sample
L = Low Flow
L-K = Low Flow and Duplicate groundwater sample
HS = HydraSleeve

# Table 4-6
## Analytical Summary
## Nitrosamine Compounds in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: NL: | *NDMA* 1625/E521/8270 *0.01* | *NDEA* 1625/E521 *0.1* | *NMP* E521 | *NP* E521 | *NDBA* E521 | *NMEA* E521 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW6-31 | EPAMW6-31 | 1068 - 1083 | 4/5/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-32 | EPAMW6-32 | 717 - 727 | 4/5/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-33 | EPAMW6-33 | 475 - 485 | 4/5/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/14/2014 | | | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| MW6-34 | EPAMW6-34 | 300 - 310 | 4/4/2002 | | | 0.0023 UB | -- | -- | -- | -- | -- |
| | | | 4/4/2002 | K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/12/2014 | | | 0.002 U | 0.002 UJ | 0.0014 J | 0.002 UJ | 0.002 UJ | 0.002 U |
| MW6-35 | EPAMW6-35 | 215 - 230 | 4/8/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-41 | MW64-1 | 1107 - 1122 | 4/3/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-42 | MW64-2 | 660 - 680 | 4/3/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-43 | MW64-3 | 424 - 434 | 4/2/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-44 | MW64-4 | 322 - 332 | 4/2/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-45 | MW64-5 | 224 - 234 | 5/29/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-46 | MW64-6 | 147 - 162 | 4/3/2002 | | | 0.0051 | -- | -- | -- | -- | -- |
| | | | 4/3/2002 | K | | 0.0063 | -- | -- | -- | -- | -- |
| | | | 6/22/2005 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 12/12/2005 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 6/14/2006 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 12/22/2006 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/13/2014 | | | 0.002 U | 0.00081 J | 0.0027 | 0.002 U | 0.002 U | 0.002 U |
| | | | 8/13/2014 | K | | 0.002 UJ | 0.0012 J | 0.0027 J | 0.002 UJ | 0.002 UJ | 0.002 UJ |
| MW6-51 | MW6-51 | 1063 - 1078 | 4/9/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-52 | MW6-52 | 876 - 896 | 4/9/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-53 | MW6-53 | 578 - 598 | 4/8/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-54 | MW6-54 | 324 - 344 | 4/10/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| MW6-55 | MW6-55 | 250 - 265 | 4/10/2002 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/11/2014 | | | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 UJ |
| MW6-56 | MW6-56 | 120 - 130 | 8/15/2014 | | | 0.002 U | 0.0011 J | 0.0022 | 0.002 U | 0.002 U | 0.002 U |
| MP20-1 | MP20-01 | 434 - 444 | 4/26/2002 | | | 0.001 U | -- | -- | -- | -- | -- |
| | | | 8/6/2014 | | | 0.00058 J | 0.0012 J | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| MP20-2 | MP20-02 | 336 - 346 | 4/26/2002 | | | 0.001 U | -- | -- | -- | -- | -- |
| | | | 8/6/2014 | | | 0.00054 J | 0.00095 J | 0.00058 J | 0.002 U | 0.00066 J | 0.002 U |
| MP20-3 | MP20-03 | 288 - 298 | 4/26/2002 | | | 0.0012 | -- | -- | -- | -- | -- |
| | | | 4/26/2002 | K | | 0.001 U | -- | -- | -- | -- | -- |
| | | | 6/29/2005 | | | 0.003 U | -- | -- | -- | -- | -- |
| | | | 12/8/2005 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 7/6/2006 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/2/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 7/30/2012 | | | 0.00052 J | -- | -- | -- | -- | -- |
| | | | 2/4/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/20/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/7/2014 | | | 0.002 U | 0.002 U | 0.012 J | 0.002 UJ | 0.002 UJ | 0.002 U |
| MP20-4 | MP20-04 | 194 - 204 | 4/27/2002 | | | 0.001 U | -- | -- | -- | -- | -- |
| | | | 2/2/2007 | | | 0.0022 | -- | -- | -- | -- | -- |
| MP21-2 | MP21-02 | 435 - 445 | 8/7/2014 | | | 0.002 U | 0.002 U | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 U |
| MP21-3 | MP21-03 | 365 - 375 | 8/7/2014 | | | 0.002 U | 0.00073 J | 0.002 UJ | 0.002 UJ | 0.002 UJ | 0.002 U |

# Table 4-6
## Analytical Summary
## Nitrosamine Compounds in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: NL: | *NDMA* 1625/E521/8270 *0.01* | *NDEA* 1625/E521 *0.1* | *NMP* E521 | *NP* E521 | *NDBA* E521 | *NMEA* E521 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MP21-4 | MP21-04 | 320 - 330 | 8/26/2014 | | | 0.001 J | 0.0013 J | 0.001 J | 0.002 UJ | 0.00069 J | 0.002 U |
| MP21-5 | MP21-05 | 245 - 255 | 8/26/2014 | | | 0.00053 J | 0.0012 J | 0.0037 | 0.002 UJ | 0.00061 J | 0.002 U |
| MW-6-1-5 | EPAMW61-5 | 354 - 364 | 8/21/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/8/2014 | | | 0.00051 J | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| MW-6-1-6 | EPAMW61-6 | 470 - 480 | 8/21/2013 | | | **0.031** | -- | -- | -- | -- | -- |
| | | | 8/8/2014 | | | 0.002 UJ | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| MW-6-1-7 | EPAMW61-7 | 594 - 604 | 8/21/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/8/2014 | | | 0.00068 J | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| MW6-10d | MW6-10d | 539 - 554 | 11/23/2002 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 10/27/2003 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 6/27/2005 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 12/21/2005 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 6/23/2006 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/12/2007 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/17/2012 | | | 0.0046 | -- | -- | -- | -- | -- |
| | | | 8/1/2012 | HS | | 0.0024 | -- | -- | -- | -- | -- |
| | | | 1/25/2013 | HS | | 0.0019 J | -- | -- | -- | -- | -- |
| | | | 8/7/2013 | HS | | 0.0023 | -- | -- | -- | -- | -- |
| | | | 3/24/2014 | HS | | 0.0021 | -- | -- | -- | -- | -- |
| | | | 8/18/2014 | L | | 0.002 U | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW6-10i | MW6-10i | 336 - 356 | 11/21/2002 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 10/24/2003 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 10/24/2003 | L - K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 6/27/2005 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 12/20/2005 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 6/23/2006 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/11/2007 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/3/2012 | | | 0.0019 U | -- | -- | -- | -- | -- |
| | | | 8/1/2012 | HS | | 0.0011 J | -- | -- | -- | -- | -- |
| | | | 1/25/2013 | HS | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/7/2013 | HS | | 0.0013 J | -- | -- | -- | -- | -- |
| | | | 3/24/2014 | HS | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/18/2014 | L | | 0.002 U | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW6-12i | MW6-12i | 260 - 275 | 6/15/2005 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/29/2014 | L | | 0.00034 J | 0.002 U | 0.00051 J | 0.002 UJ | 0.002 U | 0.002 U |
| MW6-13i | MW6-13i | 246 - 261 | 8/29/2014 | L | | 0.002 U | 0.0009 J | 0.00064 J | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-1A | MW6-09i | 350 - 370 | 11/22/2002 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 11/22/2002 | L - K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 10/24/2003 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 6/16/2005 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 6/16/2005 | L - K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 12/15/2005 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 6/22/2006 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/10/2007 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/10/2007 | L - K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/3/2012 | | | 0.00090 J | -- | -- | -- | -- | -- |
| | | | 8/1/2012 | HS | | 0.0013 J | -- | -- | -- | -- | -- |

# Table 4-6
## Analytical Summary
## Nitrosamine Compounds in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: NL: | *NDMA* 1625/E521/8270 *0.01* | *NDEA* 1625/E521 *0.1* | *NMP* E521 | *NP* E521 | *NDBA* E521 | *NMEA* E521 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1/25/2013 | HS | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/7/2013 | HS | | 0.001 J | -- | -- | -- | -- | -- |
| | | | 3/26/2014 | HS | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/19/2014 | L | | 0.002 U | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-1B | MW6-09UI2 | 380 - 420 | 8/14/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/11/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/20/2014 | L | | 0.002 U | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-1C | MW6-09LI | 435 - 450 | 8/14/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/11/2014 | L | | **0.017** | -- | -- | -- | -- | -- |
| | | | 8/20/2014 | L | | 0.002 U | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-2A | MW6-22UI | 302 - 317 | 1/24/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/12/2013 | L | | 0.001 J | -- | -- | -- | -- | -- |
| | | | 8/12/2013 | L - K | | 0.00063 J | -- | -- | -- | -- | -- |
| | | | 2/12/2014 | L | | 0.00029 J | -- | -- | -- | -- | -- |
| | | | 2/12/2014 | L - K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/27/2014 | L | | 0.00031 J | 0.00096 J | 0.0035 | 0.002 UJ | 0.002 U | 0.002 U |
| | | | 8/27/2014 | L - K | | 0.00053 J | 0.00082 J | 0.0028 | 0.002 UJ | 0.002 U | 0.00048 J |
| MW7-2B | MW6-22LI1 | 348 - 358 | 1/25/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/12/2013 | L | | **0.046** | -- | -- | -- | -- | -- |
| | | | 2/13/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/27/2014 | L | | 0.0003 J | 0.0012 J | 0.0005 J | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-2C | MW6-22LI2 | 380 - 390 | 1/24/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/13/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/12/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/27/2014 | L | | 0.002 U | 0.002 U | 0.00052 J | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-2D | MW6-22D | 452 - 462 | 1/25/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/12/2013 | L | | 0.0032 | -- | -- | -- | -- | -- |
| | | | 2/13/2014 | L | | 0.0012 J | -- | -- | -- | -- | -- |
| | | | 8/28/2014 | L | | 0.002 U | 0.002 U | 0.00048 J | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-3A | MW6-23UI | 338 - 348 | 4/19/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/15/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/14/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/26/2014 | L | | 0.002 U | 0.0015 J | 0.004 | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-3B | MW6-23LI | 434 - 444 | 2/1/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/16/2013 | L | | 0.0019 J | -- | -- | -- | -- | -- |
| | | | 2/14/2014 | L | | 0.0039 | -- | -- | -- | -- | -- |
| | | | 8/26/2014 | L | | 0.0044 | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-3C | MW6-23D | 490 - 500 | 1/31/2013 | | | 0.0005 J | -- | -- | -- | -- | -- |
| | | | 8/16/2013 | L | | 0.00062 J | -- | -- | -- | -- | -- |
| | | | 2/21/2014 | L | | 0.0022 U | -- | -- | -- | -- | -- |
| | | | 8/26/2014 | L | | 0.0013 J | 0.002 U | 0.00048 J | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-4A | MW6-24UI | 320 - 335 | 2/11/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/9/2013 | L | | 0.00065 J | -- | -- | -- | -- | -- |
| | | | 2/20/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/25/2014 | L | | 0.0006 J | 0.0018 J | 0.0008 J | 0.002 UJ | 0.0006 J | 0.002 U |
| MW7-4B | MW6-24LI | 365 - 375 | 2/4/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/12/2013 | L | | 0.0016 J | -- | -- | -- | -- | -- |

# Table 4-6
## Analytical Summary
## Nitrosamine Compounds in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: NL: | *NDMA* 1625/E521/8270 *0.01* | *NDEA* 1625/E521 *0.1* | *NMP* E521 | *NP* E521 | *NDBA* E521 | *NMEA* E521 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 2/21/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/25/2014 | L | | 0.0016 J | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-5A | MW6-25UI | 338 - 348 | 4/18/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/19/2013 | L | | 0.0046 | -- | -- | -- | -- | -- |
| | | | 2/14/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/21/2014 | L | | 0.002 UJ | 0.002 UJ | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-5B | MW6-25LI | 388 - 398 | 3/1/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/19/2013 | L | | 0.0014 J | -- | -- | -- | -- | -- |
| | | | 2/14/2014 | L | | **0.065** | -- | -- | -- | -- | -- |
| | | | 8/21/2014 | L | | 0.002 UJ | 0.0026 J | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-6 | MW6-26UI | 362 - 372 | 4/26/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/9/2013 | L | | 0.00088 J | -- | -- | -- | -- | -- |
| | | | 8/9/2013 | L - K | | 0.0013 J | -- | -- | -- | -- | -- |
| | | | 2/17/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/17/2014 | L - K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/3/2014 | L | | 0.00056 J | 0.002 U | 0.0052 J | 0.002 UJ | 0.002 UJ | 0.002 U |
| | | | 9/3/2014 | L - K | | 0.00086 J | 0.00086 J | 0.023 J | 0.002 UJ | 0.002 UJ | 0.002 U |
| MW7-7A | MW6-27UI1 | 288 - 308 | 8/7/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/19/2014 | L | | 0.002 UJ | -- | -- | -- | -- | -- |
| | | | 7/24/2014 | L | | 0.002 U | 0.002 U | -- | -- | -- | -- |
| MW7-7B | MW6-27UI2 | 320 - 330 | 8/7/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/20/2014 | L | | 0.0036 | -- | -- | -- | -- | -- |
| | | | 7/24/2014 | L | | 0.002 U | 0.002 U | -- | -- | -- | -- |
| MW7-7C | MW6-27LI1 | 347 - 362 | 8/8/2013 | L | | 0.00056 J | -- | -- | -- | -- | -- |
| | | | 2/18/2014 | L | | 0.0033 U | -- | -- | -- | -- | -- |
| | | | 7/25/2014 | L | | 0.002 U | 0.002 U | 0.0052 | 0.002 U | 0.002 U | 0.00028 J |
| MW7-7D | MW6-27LI2 | 377 - 387 | 8/6/2013 | L | | **0.012 J** | -- | -- | -- | -- | -- |
| | | | 8/6/2013 | L - K | | 0.00043 J | -- | -- | -- | -- | -- |
| | | | 2/19/2014 | L | | 0.00064 J | -- | -- | -- | -- | -- |
| | | | 2/19/2014 | L - K | | 0.00046 J | -- | -- | -- | -- | -- |
| | | | 9/23/2014 | | | 0.00038 J | 0.001 J | -- | -- | -- | -- |
| MW7-7E | MW6-27D | 434 - 444 | 8/5/2013 | L | | **0.043** | -- | -- | -- | -- | -- |
| | | | 2/20/2014 | L | | 0.001 J | -- | -- | -- | -- | -- |
| | | | 8/19/2014 | L | | 0.00064 J | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-8A | MW6-28UI | 340 - 360 | 10/25/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/10/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/3/2014 | L | | 0.002 UJ | 0.001 J | 0.0025 | 0.002 UJ | 0.002 UJ | 0.002 U |
| MW7-8B | MW6-28LI | 454 - 464 | 10/25/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/10/2014 | L | | **0.014** | -- | -- | -- | -- | -- |
| | | | 9/3/2014 | L | | 0.002 UJ | 0.0014 J | 0.0025 | 0.002 UJ | 0.002 UJ | 0.00048 J |
| MW7-9A | MW6-29UI | 365 - 385 | 8/9/2013 | L | | 0.00045 J | -- | -- | -- | -- | -- |
| | | | 2/17/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/14/2014 | L | | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| MW7-9B | MW6-29LI | 412 - 432 | 8/8/2013 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/17/2014 | L | | 0.0025 U | -- | -- | -- | -- | -- |
| | | | 8/14/2014 | L | | 0.0098 | 0.002 U | 0.00058 J | 0.00072 J | 0.002 U | 0.00044 J |
| | | | 8/14/2014 | L - K | | **0.01** | 0.002 U | 0.00057 J | 0.002 U | 0.002 U | 0.00042 J |

# Table 4-6
## Analytical Summary
## Nitrosamine Compounds in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: NL: | *NDMA* 1625/E521/8270 *0.01* | *NDEA* 1625/E521 *0.1* | *NMP* E521 | *NP* E521 | *NDBA* E521 | *NMEA* E521 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-9C | MW6-29D | 475 - 490 | 8/9/2013 | L | | 0.00055 J | -- | -- | -- | -- | -- |
| | | | 2/17/2014 | L | | 0.0026 U | -- | -- | -- | -- | -- |
| | | | 8/14/2014 | L | | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U | 0.002 U |
| MW7-10 | PMW-6 | 258 - 278 | 11/15/2013 | | | 0.0076 | -- | -- | -- | -- | -- |
| | | | 2/12/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 2/12/2014 | L - K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/2/2014 | L | | 0.002 UJ | 0.002 U | 0.00088 J | 0.002 UJ | 0.002 U | 0.002 U |
| | | | 9/2/2014 | L - K | | 0.002 UJ | 0.002 U | 0.00093 J | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-11A | PMW-7A | 390 - 410 | 2/18/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/22/2014 | L | | 0.002 UJ | 0.002 UJ | 0.0012 J | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-11B | PMW-7B | 460 - 470 | 3/10/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 8/22/2014 | L | | 0.0035 J | 0.002 UJ | 0.0025 | 0.002 UJ | 0.002 U | 0.00051 J |
| MW7-12A | PMW-8A | 390 - 410 | 2/13/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/5/2014 | L | | 0.002 U | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.002 U |
| MW7-12B | PMW-8B | 460 - 470 | 2/13/2014 | L | | 0.0075 | -- | -- | -- | -- | -- |
| | | | 9/5/2014 | L | | 0.0034 | 0.002 U | 0.002 U | 0.002 UJ | 0.002 U | 0.0005 J |
| MW7-13A | PMW-5A | 303 - 313 | 3/28/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/4/2014 | L | | 0.002 UJ | 0.002 U | 0.0062 | 0.002 UJ | 0.002 UJ | 0.002 U |
| MW7-13B | PMW-5B | 323 - 333 | 3/26/2014 | L | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/4/2014 | L | | 0.002 U | 0.002 U | 0.0038 | 0.002 UJ | 0.002 U | 0.00048 J |
| MW7-15A | MW6-16i | 304 - 314 | 9/2/2014 | L | | 0.00034 J | 0.0041 | 0.00064 J | 0.002 UJ | 0.002 U | 0.002 U |
| S11A | S11A | 190 - 220 | 3/19/2014 | L | | 0.0018 J | -- | -- | -- | -- | -- |
| | | | 8/28/2014 | L | | 0.002 U | 0.0012 J | 0.022 | 0.002 UJ | 0.002 U | 0.002 U |
| IZ-1 | IZ-1 | 278 - 368 | 12/14/2006 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 7/23/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/15/2008 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/19/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| IZ-2 | IZ-2 | 305 - 385 | 10/13/2006 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/12/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 7/24/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/9/2008 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/18/2013 | | | 0.0062 | -- | -- | -- | -- | -- |
| IZ-East | IZ-East | 288 - 385 | 10/2/2006 | | | **0.13** | -- | -- | -- | -- | -- |
| | | | 1/26/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/26/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/26/2007 | K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 7/26/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 7/26/2007 | K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/10/2008 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/10/2008 | K | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/20/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| MZ-1 | MZ-1 | 180 - 220 | 12/20/2006 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 7/20/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/15/2008 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/19/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| MZ-2 | MZ-2 | 230 - 255 | 1/19/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 7/25/2007 | | | 0.002 U | -- | -- | -- | -- | -- |

# Table 4-6
## Analytical Summary
## Nitrosamine Compounds in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Sample Type | Method: NL: | *NDMA* 1625/E521/8270 *0.01* | *NDEA* 1625/E521 *0.1* | *NMP* E521 | *NP* E521 | *NDBA* E521 | *NMEA* E521 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 1/9/2008 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/18/2013 | | | 0.00036 J | -- | -- | -- | -- | -- |
| MZ-3 | MZ-3 | 268 - 308 | 8/17/2007 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 1/11/2008 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/17/2013 | | | 0.002 U | -- | -- | -- | -- | -- |
| | | | 9/17/2013 | K | | 0.00032 J | -- | -- | -- | -- | -- |

Notes:
Only results detected in at least one Nitrosamine compound are presented in this table.
Units are micrograms per liter (µg/L).
NDMA = N-Nitrosodimethlyamine; NDEA = N-Nitrosodiethylamine; NMP = N-Nitrosomorpholine; NP = N-Nitrosopyrrolidine; NDBA = N-Nitrosodi-n-butylamine, NMEA = N-Nitrosomethylethylamir
-- = Analyte was not analyzed by laboratory.
NL = California Department of Public Health Drinking Water Notification Level.
BOLD - indicates the analyte exceeded the NL.
ft bgs = feet below ground surface
J = Estimated concentration between method detection and reporting limits OR qualified during data validatior
U = Not detected at a concentration greater than the limit shown.
B = Compound also detected in the laboratory blank
Sample Type:
K = Duplicate groundwater sample
S = Split groundwater sample
L = Low Flow
L-K = Low Flow and Duplicate groundwater sample
HS = HydraSleeve

# Table 4-7
## Analytical Summary
## Metals in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Al | Sb | As | Ba | Be | B | Cd | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Mo | Ni | Se | Ag | Tl | V | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 1000 | 6 | 10 | 1000 | 4 | 1000# | 5 | 50 | | 1300@ | | 15@ | | 500# | 2 | | 100 | 50 | | 2 | 0.5# | |
| EPA-MW6-13 | EPA-MW6-13 | 173 - 183 | 8/3/2011 | 200 | L | | 10 U | 1.0 U | 1.4 | 78 | 0.50 U | 280 | 0.20 U | -- | 0.23 J | 1.7 | 18 J | 1.0 U | 54000 | 1.2 | 0.2 U | 14 | 6.0 | 16 | 1.0 U | 1.0 U | **7.7** | 5.0 U |
| MW6-33 | EPAMW6-33 | 475 - 485 | 6/22/2005 | 6010 | | | 31 UJB | -- | -- | -- | -- | 140 J | -- | -- | -- | -- | 100 U | -- | 25500 | -- | 0.2 U | -- | -- | -- | -- | -- | **2.4 J** | -- |
| | | | 6/22/2005 | 6020 | | | -- | 0.14 J | 3.3 | 43 | 1 U | -- | 1 U | 1.4 UJB | 0.19 J | 2.3 UB | -- | 0.13 J | -- | -- | -- | 36 | 0.64 J | 2 U | 1 U | 1 U | -- | 7.3 UB |
| | | | 1/4/2006 | 6010 | | | 17 UJB | -- | -- | -- | -- | 260 | -- | -- | -- | -- | 21 J | -- | 48300 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 1/4/2006 | 6020 | | | -- | 0.13 J | 1.1 UJB | 92 | 1 U | -- | 1 U | 3.1 | 0.51 J | 1.4 J | -- | 1 U | -- | -- | -- | 17 | 0.35 J | 7.7 | 1 U | 1 U | **4.7 J** | 11 B |
| | | | 1/4/2006 | 6010 | K | | 200 U | -- | -- | -- | -- | 250 | -- | -- | -- | -- | 22 J | -- | 46800 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 1/4/2006 | 6020 | K | | -- | 0.096 J | 0.85 UJB | 91 | 1 U | -- | 1 U | 3.2 | 0.48 J | 1.4 J | -- | 1 U | -- | -- | -- | 17 | 0.81 J | 7.7 | 1 U | 1 U | **4.4 J** | 11 B |
| | | | 6/26/2006 | 6020 | | | -- | 2 U | 4.6 | 44 | 1 U | -- | 1 U | 0.52 UJB | 1 U | 2 U | -- | 1 U | -- | -- | 0.2 U | 37 | 2 U | 1 U | 1 U | 1 U | **1.4 J** | 5.6 UJB |
| | | | 12/20/2006 | 6020 | | | -- | 0.24 J | 4.6 | 41.7 | 1 U | -- | 1 U | 0.6 J | 1 U | 3.8 | 138 | 0.33 J | -- | 82.3 | 0.2 U | 35.4 | 0.62 J | 1 U | 0.39 J | 0.62 J | **2.1 J** | 6.5 J |
| | | | 1/4/2011 | 6010 | | | -- | 10 U | 10 U | 44 | 4 U | -- | 5 U | 5 U | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 31 | 10 U | 10 U | 10 U | 10 U | 10 U | 20 U |
| | | | 7/20/2011 | 200 | | | 17 | 1.0 U | 3.5 | 57 | 0.50 U | 150 | 0.20 U | -- | 1.0 U | 1.9 | 40 U | 1.0 U | 23000 | 72 | 0.2 U | 36 | 1.5 J | 1.0 U | 1.0 U | 1.0 U | **1.3 J** | 5.0 U |
| | | | 8/29/2013 | 200 | | | -- | -- | -- | -- | -- | 150 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/14/2014 | 200 | | | 12 U | 0.095 J | 3.3 | 57 | 0.10 U | -- | 0.018 J | 0.20 U | -- | 0.50 U | 10 U | 0.032 J | -- | 59 | 0.050 U | -- | 0.24 J | 0.40 U | 0.20 U | 0.20 U | **0.55** | 0.59 J |
| MW6-34 | EPAMW6-34 | 300 - 310 | 6/22/2005 | 6010 | | | 18 UJB | -- | -- | -- | -- | 220 | -- | -- | -- | -- | 100 U | -- | 53200 | -- | 0.2 U | -- | -- | -- | -- | -- | **6.6 J** | -- |
| | | | 6/22/2005 | 6020 | | | -- | 0.28 J | 0.62 J | 48 | 1 U | -- | 1 U | 3.6 UB | 0.46 J | 2.4 UB | -- | 0.16 J | -- | -- | -- | 20 | 1.8 J | 9.4 | 1 U | 1 U | -- | 8.7 UB |
| | | | 12/27/2005 | 6010 | | | 30 UJB | -- | -- | -- | -- | 210 | -- | -- | -- | -- | 100 U | -- | 51800 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/27/2005 | 6020 | | | -- | 0.079 J | 0.95 UJB | 43 | 1 U | -- | 1 U | 1.6 J | 0.34 J | 1.4 J | -- | 1 U | -- | -- | -- | 18 | 2 U | 7.2 | 1 U | 1 U | **6.7 J** | 5.6 UB |
| | | | 6/27/2006 | 6020 | | | -- | 2 U | 2.5 UB | 47 | 1 U | -- | 1 U | 2.1 | 0.2 J | 2 U | -- | 1 U | -- | -- | 0.11 J | 19 | 2 U | 7.4 | 1 U | 1 U | **6.8** | 10 U |
| | | | 12/21/2006 | 6020 | | | -- | 0.29 J | 3.3 | 43.1 | 1 U | -- | 1 U | 2.4 | 0.12 J | 3.3 | 50 U | 0.19 J | -- | 0.5 J | 0.2 U | 17.9 | 0.66 J | 7 | 0.63 J | 1 U | **6.3** | 5.1 J |
| | | | 1/5/2011 | 6010 | | | -- | **7.2 J** | 10 U | 45 | 4 U | -- | 5 U | 5 U | 10 U | 3.2 J | -- | 5 U | -- | -- | 0.2 U | 13 J | 10 U | 10 U | 10 U | 10 U | **6.8 J** | 9.8 J |
| | | | 7/21/2011 | 200 | | | 10 U | 0.33 J | 1.7 | 47 | 0.50 U | 220 | 0.20 U | -- | 0.14 J | 4.1 | 40 U | 0.32 J | 52000 | 1.0 U | 0.2 U | 18 | 1.2 J | 7.7 | 1.0 U | 1.0 U | **6.7** | 5.0 U |
| | | | 7/21/2011 | 200 | K | | 10 U | 0.37 J | 1.7 | 47 | 0.50 U | 230 | 0.20 U | -- | 0.16 J | 5.1 | 19 J | 0.35 J | 54000 | 0.96 J | 0.2 U | 18 | 2.2 | 7.9 | 1.0 U | 1.0 U | **6.6** | 5.0 U |
| | | | 8/28/2013 | 200 | | | -- | -- | -- | -- | -- | 220 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/28/2013 | 200 | K | | -- | -- | -- | -- | -- | 220 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/12/2014 | 200 | | | 2.7 J | 0.076 J | 1.6 | 44 | 0.10 U | -- | 0.12 | 1.2 | -- | 0.93 U | 43 | 0.035 J | -- | 1.4 | 0.050 U | -- | 3.6 | 9.3 | 0.20 U | 0.20 U | **7.5** | 1.1 J |
| MW6-44 | MW64-4 | 322 - 332 | 6/21/2005 | 6010 | | | -- | 60 U | 10 U | 25 | 0.88 UJB | -- | 5 U | 10 U | 50 U | 25 U | -- | 5 U | -- | -- | 0.2 U | 35 J | 40 U | 5 U | 10 U | 10 U | **5.5 J** | 20 U |
| | | | 12/13/2005 | 6010 | | | 200 U | -- | -- | -- | -- | 140 UJB | -- | -- | -- | -- | 82 J | -- | 29000 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/13/2005 | 6020 | | | -- | 0.36 J | 2 U | 22 | 1 U | -- | 1 U | 2 U | 0.24 J | 0.81 J | -- | 1 U | -- | -- | -- | 35 | 2 U | 2 U | 1 U | 1 U | **3.1 J** | 2.7 UJB |
| | | | 6/14/2006 | 6020 | | | -- | 2 U | 1.8 | 27 | 1 U | -- | 1 U | 0.35 J | 0.12 J | 2 U | -- | 0.18 J | -- | -- | 0.2 U | 34 | 2 U | 0.38 J | 1 U | 0.78 J | **5.6** | 5.5 J |
| | | | 12/21/2006 | 6020 | | | -- | 2 U | 1.7 | 23.2 | 1 U | -- | 1 U | 0.36 J | 1 U | 3.2 | 81 | 0.15 J | -- | 92 | 0.2 U | 32.9 | 2 U | 0.36 J | 1 U | 1 U | **3.8 J** | 7.7 J |
| | | | 7/19/2011 | 200 | | | 10 U | 1.0 U | 1.0 U | 25 | 0.50 U | 150 | 0.20 U | -- | 0.22 J | 2.7 | 71 | 0.34 J | 29000 | 100 | 0.2 U | 33 | 1.4 J | 0.69 J | 1.0 U | 0.36 J | **7.3** | 5.0 U |
| MW6-45 | MW64-5 | 224 - 234 | 6/14/2005 | 6010 | | | -- | 60 U | 10 U | 35 | 0.7 J | -- | 5 U | 7.6 J | 50 U | 25 U | -- | 5 U | -- | -- | 0.2 U | 34 J | 6 J | 5 U | 10 U | **5.4 J** | **8.6 J** | 180 |
| | | | 12/20/2005 | 6010 | | | 24 J | -- | -- | -- | -- | 120 J | -- | -- | -- | -- | 750 | -- | 34700 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/20/2005 | 6020 | | | -- | 0.12 J | 1.2 J | 28 | 1 U | -- | 1 U | 2 U | 0.24 J | 0.91 J | -- | 0.42 J | -- | -- | -- | 32 | 1.4 J | 2.1 | 1 U | 1 U | 10 U | 230 |
| | | | 6/22/2006 | 6020 | | | -- | 2 U | 2.1 UB | 27 | 1 U | -- | 1 U | 0.24 UJB | 0.11 J | 2 U | -- | 0.13 J | -- | -- | 0.2 U | 32 | 2 U | 1.7 | 1 U | 1 U | **3.8 J** | 130 |
| | | | 1/8/2007 | 6020 | | | -- | 0.22 J | 3.5 | 28 | 1 U | -- | 1 U | 0.88 J | 1 U | 0.58 J | -- | 0.27 J | -- | -- | 0.2 U | 34 | 0.72 J | 1.4 | 1 U | 1 U | **2.6 J** | 23 |
| | | | 8/10/2011 | 200 | | | 10 U | 1.0 U | 1.6 | 22 | 0.50 U | 130 | 0.20 U | -- | 0.12 J | 0.70 J | 1100 | 1.0 U | 33000 | 75 | 0.2 U | 30 | 2.0 U | 1.0 U | 1.0 U | 1.0 U | **5.9** | 5.0 U |
| MW6-46 | MW64-6 | 147 - 162 | 6/22/2005 | 6010 | | | -- | 60 U | 10 U | 49 | **5.2 B** | -- | 1.3 J | 6 J | 4.5 J | 6 J | -- | 5 U | -- | -- | 0.2 U | 23 J | 4.5 J | 10 | 2.1 J | 10 U | **10 J** | 20 U |
| | | | 12/12/2005 | 6010 | | | 27 J | -- | -- | -- | -- | 210 | -- | -- | -- | -- | 24 J | -- | 57200 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/12/2005 | 6020 | | | -- | 0.065 J | 2 U | 41 | 1 U | -- | 1 U | 2 U | 0.45 J | 1.1 J | -- | 1 U | -- | -- | -- | 20 | 0.35 UJB | 8.2 | 1 U | 1 U | **5.2 J** | 2.8 UJB |
| | | | 6/14/2006 | 6020 | | | -- | 2 U | 1 | 46 | 1 U | -- | 1 U | 1.9 J | 0.28 J | 2 U | -- | 0.23 J | -- | -- | 0.2 U | 20 | 1.3 J | 8.4 | 1 U | 1 U | **6.5** | 6.1 J |
| | | | 12/22/2006 | 6020 | | | -- | 0.3 J | 3.3 | 40 | 1 U | -- | 1 U | 2.5 | 0.16 J | 3.4 | 37 J | 0.38 J | -- | 0.98 J | 0.2 U | 18.5 | 1.6 J | 7.5 | 0.64 J | 1 U | **5.8** | 6.4 J |
| | | | 1/5/2011 | 6010 | | | -- | 10 U | 10 U | 42 | 4 U | -- | 5 U | 2.5 J | 10 U | 10 U | -- | 5.6 | -- | -- | 0.2 U | 14 J | 10 U | 10 U | 10 U | 10 U | **6.6 J** | 11 J |
| | | | 7/19/2011 | 200 | | | 10 U | 1.0 U | 1.0 U | 45 | 0.14 J | 250 | 0.20 U | -- | 0.50 J | 5.9 | 40 U | 0.93 J | 57000 | 2.9 | 0.2 U | 20 | 1.4 J | 8.7 | 1.0 U | 0.27 J | **8.6** | 10 |
| | | | 8/27/2013 | 200 | | | -- | -- | -- | -- | -- | 230 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/13/2014 | 200 | | | 2.4 J | 0.083 J | 1.1 | 42 | 0.10 U | -- | 0.15 | 1.7 | -- | 0.79 U | 10 U | 0.20 U | -- | 0.43 | 0.050 U | -- | 3.7 | 9.7 | 0.20 U | 0.20 U | **6.7** | 1.2 J |
| | | | 8/13/2014 | 200 | K | | 2.7 J | 0.086 J | 1.0 | 44 | 0.10 U | -- | 0.16 | 1.7 | -- | 1.0 | 10 U | 0.20 U | -- | 0.47 | 0.050 U | -- | 3.6 | 10 | 0.20 U | 0.20 U | **6.8** | 1.4 J |
| MW6-55 | MW6-55 | 250 - 265 | 6/23/2005 | 6010 | | | 16 UJB | -- | -- | -- | -- | 180 J | -- | -- | -- | -- | 31 J | -- | 22200 | -- | 0.2 U | -- | -- | -- | -- | -- | **10 J** | -- |
| | | | 6/23/2005 | 6020 | | | -- | 0.087 J | 0.5 J | 33 | 1 U | -- | 1 U | 1.7 UJB | 0.22 J | 1.3 UJB | -- | 1 U | -- | -- | -- | 25 | 0.54 J | 2.6 | 1 U | 1 U | -- | 2.6 UJB |
| | | | 12/23/2005 | 6010 | | | 200 U | -- | -- | -- | -- | 160 J | -- | -- | -- | -- | 41 J | -- | 22200 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/23/2005 | 6020 | | | -- | 0.042 J | 2 U | 33 | 1 U | -- | 1 U | 2 U | 0.24 J | 0.89 J | -- | 1 U | -- | -- | -- | 28 | 0.48 J | 2.4 | 1 U | 1 U | **9.7 J** | 4.7 J |
| | | | 6/27/2006 | 6020 | | | -- | 2 U | 2.2 UB | 31 | 1 U | -- | 1 U | 0.28 UJB | 1 U | 2 U | -- | 1 U | -- | -- | 0.2 U | 27 | 2 U | 2.9 | 1 U | 1 U | **9.3** | 10 U |
| | | | 1/3/2007 | 6020 | | | -- | 0.3 J | 3.3 | 33 | 1 U | -- | 1 U | 0.76 J | 1 U | 2 U | -- | 1 U | -- | -- | 0.2 U | 30 | 2 U | 3 | 1 U | 1 U | **9.7** | 10 U |
| | | | 1/3/2007 | 6020 | K | | -- | 0.27 J | 3.6 | 32 | 1 U | -- | 1 U | 0.73 J | 1 U | 2 U | -- | 1 U | -- | -- | 0.2 U | 30 | 2 U | 3 | 1 U | 1 U | **7.8** | 10 U |
| | | | 8/11/2011 | 200 | | | 10 U | 0.38 J | 2.2 | 34 | 0.50 U | 180 | 0.20 U | -- | 0.17 J | 0.89 J | 40 U | 1.0 U | 24000 | 120 | 0.2 U | 30 | 2.0 U | 4.7 | 1.0 U | 1.0 U | **9.6** | 5.0 U |
| | | | 8/21/2013 | 200 | | | -- | -- | -- | -- | -- | 160 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/11/2014 | 200 | | | 2.2 J | 0.083 J | 1.5 | 34 | 0.10 U | -- | 0.15 | 0.20 U | -- | 0.68 U | 38 | 0.025 J | -- | 150 | 0.050 U | -- | 1.3 | 4.5 | 0.20 U | 0.20 U | **11** | 0.93 J |
| MW6-56 | MW6-56 | 120 - 130 | 6/20/2005 | 6010 | | | -- | 60 U | 10 U | 81 | 0.51 J | -- | 5 U | 3.1 J | 50 U | 25 U | -- | 5 U | -- | -- | 0.2 U | 19 J | 40 U | 8.5 | 10 U | 10 U | **5.7 J** | 20 U |
| | | | 12/14/2005 | 6010 | | | 15 J | -- | -- | -- | -- | 210 B | -- | -- | -- | -- | 21 J | -- | 49800 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/14/2005 | 6020 | | | -- | 0.14 J | 2 U | 80 | 1 U | -- | 1 U | 1.1 J | 0.44 J | 1.1 J | -- | 1 U | -- | -- | -- | 20 | 1.1 JB | 11 | 1 U | 1 U | **4.2 J** | 7.5 UB |
| | | | 6/16/2006 | 6020 | | | -- | 2 U | 1.5 | 88 | 1 U | -- | 1 U | 2 | 0.34 J | 2 U | -- | 0.16 J | -- | -- | 0.2 U | 21 | 2 U | 11 | 1 U | 0.7 J | **7.1** | 10 U |
| | | | 12/22/2006 | 6020 | | | -- | 0.23 J | 2.7 | 72.8 | 1 U | -- | 1 U | 2.3 | 0.17 J | 3.2 | 25 J | 0.25 J | -- | 0.98 J | 0.2 U | 17.7 | 0.5 J | 8.4 | 0.31 J | 1 U | **5.8** | 8.2 J |
| | | | 1/6/2011 | 6010 | | | -- | **9.5 J** | 10 U | 79 | 4 U | -- | 5 U | 3.5 J | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 23 | 10 U | 10 U | 10 U | 10 U | **6.5 J** | 15 J |
| | | | 7/25/2011 | 200 | | | 10 U | 0.40 J | 1.2 | 74 | 0.50 U | 230 | 0.20 U | -- | 0.23 J | 1.6 | 38 J | 1.0 U | 51000 | 1.0 | 0.2 U | 17 | 1.3 J | 8.8 | 1.0 U | 1.0 U | **6.6** | 5.0 U |
| | | | 8/21/2013 | 200 | | | -- | -- | -- | -- | -- | 220 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | | | 8/15/2014 | 200 | | | 5.4 | 0.071 J | 1.0 | 83 | 0.10 U | -- | 0.024 J | 1.6 | -- | 1.7 | 10 U | 0.028 J | -- | 0.90 | 0.050 U | -- | 1.3 | 8.3 | 0.20 U | 0.20 U | **7.1** | 2.3 J |
| MW6-63 | MW6-63 | 197 - 212 | 6/17/2005 | 6010 | | | -- | 60 U | 10 U | 100 | 5 U | -- | 5 U | 1 J | 50 U | 25 U | -- | 5 U | -- | -- | 0.2 U | 20 J | 40 U | 9.1 | 10 U | 10 U | **5.3 J** | 20 U |
| | | | 12/23/2005 | 6010 | | | 200 U | -- | -- | -- | -- | 270 | -- | -- | -- | -- | 32 J | -- | 64100 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/23/2005 | 6020 | | | -- | 0.085 J | 2 U | 100 | 1 U | -- | 0.16 J | 1.1 UJB | 0.65 J | 1.6 J | -- | 1 U | -- | -- | -- | 19 | 2.6 | 8.4 | 1 U | 1 U | **5.5 J** | 7 |
| | | | 6/15/2006 | 6020 | | | -- | 2 U | 1.3 | 100 | 1 U | -- | 0.27 J | 1.1 J | 0.37 J | 2 U | -- | 1 U | -- | -- | 0.2 U | 21 | 2 U | 8.7 | 1 U | 1 U | **7.3** | 10 U |
| | | | 6/15/2006 | 6020 | K | | -- | 2 U | 1.4 | 110 | 1 U | -- | 0.28 J | 1.2 J | 0.4 J | 2 U | -- | 1 U | -- | -- | 0.2 U | 21 | 2 U | 8.5 | 1 U | 1 U | **7.1** | 10 U |
| | | | 1/2/2007 | 6020 | | | -- | 0.37 J | 2.2 | 97 | 1 U | -- | 0.26 J | 1 J | 0.24 J | 0.63 J | -- | 1 U | -- | -- | 0.2 U | 19 | 1.2 J | 8.3 | 0.17 J | 0.82 J | **5.2** | 5.2 J |
| | | | 1/2/2007 | 6020 | K | | -- | 2 U | 1.3 | 93 | 1 U | -- | 0.25 J | 1.2 J | 0.25 J | 0.55 J | -- | 0.18 J | -- | -- | 0.2 U | 19 | 1.4 J | 7.4 | 1 U | 1 U | **6.9** | 5.1 J |
| | | | 7/25/2011 | 200 | | | 100 | 0.41 J | 1.1 | 90 | 0.50 U | 330 | 0.22 | -- | 0.31 J | 1.9 | 21 J | 1.0 U | 60000 | 1.0 U | 0.2 U | 19 | 0.85 J | 8.9 | 1.0 U | 1.0 U | **6.1** | 4.1 J |
| | | | 7/25/2011 | 200 | K | | 10 U | 1.0 U | 1.1 | 93 | 0.50 U | 330 | 0.24 | -- | 0.31 J | 1.5 | 21 J | 1.0 U | 62000 | 1.0 U | 0.2 U | 19 | 0.57 J | 9.3 | 1.0 U | 1.0 U | **6.3** | 11 |
| MW6-65 | MW6-65 | 97 - 112 | 6/24/2005 | 6010 | | | 20 UJB | -- | 10 U | 130 | 0.62 J | 250 | 5 U | 10 U | -- | -- | 850 | 5 U | 49600 | -- | 0.2 U | 26 J | 4.3 J | -- | 10 U | 10 U | **2.2 J** | -- |
| | | | 6/24/2005 | 6020 | | | -- | 0.14 J | -- | -- | -- | -- | -- | -- | 0.75 J | 2.3 UB | -- | -- | -- | -- | -- | -- | -- | 9.8 | -- | -- | -- | 5.7 UB |
| | | | 12/14/2005 | 6010 | | | 29 J | -- | -- | -- | -- | 250 UJB | -- | -- | -- | -- | 890 | -- | 47900 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |

# Table 4-7
## Analytical Summary
## Metals in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Al | Sb | As | Ba | Be | B | Cd | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Mo | Ni | Se | Ag | Tl | V | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 1000 | 6 | 10 | 1000 | 4 | 1000# | 5 | 50 | | 1300@ | | 15@ | | 500# | 2 | | 100 | 50 | | 2 | 0.5# | |
| | | | 12/14/2005 | 6020 | | | -- | 0.27 J | 2 U | 140 | 1 U | -- | 1 U | 2 U | 0.76 J | 1.3 J | -- | 1 U | -- | -- | -- | 32 | 3.6 B | 13 | 1 U | 1 U | 10 U | 6.3 UB |
| | | | 6/16/2006 | 6020 | | | -- | 0.39 J | 2.6 | 150 | 1 U | -- | 1 U | 0.34 J | 0.75 J | 2 U | -- | 0.42 J | -- | -- | 0.14 J | 30 | 4 | 12 | 1 U | 1.1 | **3.1 J** | 10 U |
| | | | 1/6/2011 | 6010 | | | -- | 10 U | 10 U | 150 | 4 U | -- | 5 U | 5 U | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 28 | 2 J | 10 U | 10 U | 10 U | **3 J** | 22 |
| | | | 7/18/2011 | 200 | | | 10 U | 0.67 J | 1.6 | 150 | 0.25 J | 270 | 0.25 | -- | 0.91 J | 4.6 | 1000 | 0.68 J | 45000 | **1900** | 0.2 U | 25 | 3.2 | 12 | 0.18 J | 0.93 J | **5.1** | 19 |
| MP20-1 | MP20-01 | 434 - 444 | 8/6/2014 | 200 | | | 6.0 | 0.090 J | 2.0 | 32 | 0.10 U | -- | 0.060 J | 0.49 | -- | 0.66 | 10 U | 0.12 J | -- | 2.6 | 0.050 U | -- | 1.3 | 1.6 | 0.20 U | 0.20 U | **11** | 16 |
| MP20-2 | MP20-02 | 336 - 346 | 7/12/2011 | 200 | | | 10 U | 1.0 U | 1.0 U | 36 | 0.50 U | 55 | 0.20 U | -- | 1.0 U | 2.8 | 40 U | 1.0 U | 17000 | 0.85 J | 0.2 U | 31 | 1.4 J | 1.7 | 1.0 U | 1.0 U | **8.2** | 19 |
| | | | 8/6/2014 | 200 | | | 4.6 J | 0.081 J | 1.4 | 39 | 0.10 U | -- | 0.026 J | 3.0 | -- | 1.5 | 3.9 J | 0.15 J | -- | 1.2 | 0.050 U | -- | 2.0 | 1.8 | 0.20 U | 0.20 U | **8.2** | 34 |
| MP20-3 | MP20-03 | 288 - 298 | 12/20/2010 | 6010 | | | -- | 10 U | 10 U | 50 | 4 U | -- | 5 U | 3.1 J | 10 U | 3.7 J | -- | 5 U | -- | -- | 0.2 U | 6.1 J | 10 U | 10 U | 10 U | 10 U | **7.7 J** | 20 U |
| | | | 12/20/2010 | 6010 | K | | -- | 10 U | 10 U | 47 | 4 U | -- | 5 U | 2.8 J | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 5 J | 10 U | 10 U | 10 U | 10 U | **6.8 J** | 38 |
| | | | 7/12/2011 | 200 | | | 10 U | 1.0 U | 1.0 | 51 | 0.50 U | 260 | 0.20 U | -- | 0.24 J | 4.8 | 40 U | 1.0 U | 58000 | 0.97 J | 0.2 U | 7.4 | 2.2 | 13 | 1.0 U | 1.0 U | **7.8** | 9.9 |
| | | | 8/7/2014 | 200 | | | 5.1 U | 0.070 J | 1.5 | 51 | 0.10 U | -- | 0.032 J | 2.3 | -- | 1.1 | 1.7 J | 0.15 J | -- | 1.5 | 0.050 U | -- | 3.7 | 13 | 0.20 U | 0.20 U | **7.4** | 41 |
| MP20-4 | MP20-04 | 194 - 204 | 7/14/2011 | 200 | | | 10 U | 0.39 J | 1.5 | 77 | 0.50 U | 160 | 0.20 U | -- | 0.27 J | 1.8 | 40 U | 1.0 U | 41000 | 48 | 0.2 U | 16 | 2.6 | 12 | 1.0 U | 1.0 U | **4.3** | 5.0 U |
| MP21-2 | MP21-02 | 435 - 445 | 12/17/2010 | 6010 | | | -- | 10 U | 10 U | 31 | 4 U | -- | 5 U | 5 U | 10 U | 5 J | -- | 5 U | -- | -- | 0.2 U | 35 | 10 U | 10 U | 10 U | 10 U | **6.7 J** | 32 |
| | | | 7/13/2011 | 200 | | | 10 U | 1.0 U | 1.5 | 28 | 0.50 U | 160 | 0.20 U | -- | 0.20 J | 2.3 | 40 U | 1.0 U | 26000 | 46 | 0.2 U | 35 | 2.1 | 1.0 U | 1.0 U | 1.0 U | **7.1** | 9.3 |
| | | | 8/7/2014 | 200 | | | 6.8 U | 0.078 J | 1.5 | 32 | 0.10 U | -- | 0.030 J | 0.056 J | -- | 1.4 | 10 U | 0.14 J | -- | 51 | 0.050 U | -- | 4.1 | 0.083 J | 0.20 U | 0.20 U | **7.7** | 32 |
| MP21-3 | MP21-03 | 365 - 375 | 12/17/2010 | 6010 | | | -- | 10 U | 10 U | 40 | 4 U | -- | 5 U | 5 U | 10 U | 4 J | -- | 5 U | -- | -- | 0.2 U | 29 | 10 U | 10 U | 10 U | 10 U | **4.8 J** | 7 J |
| | | | 7/13/2011 | 200 | | | 10 U | 1.0 U | 3.1 | 37 | 0.50 U | 130 | 0.20 U | -- | 0.20 J | 1.6 | 29 J | 1.0 U | 30000 | 130 | 0.2 U | 27 | 2.1 | 1.0 U | 1.0 U | 1.0 U | **3.3** | 4.6 J |
| | | | 8/7/2014 | 200 | | | 5.0 U | 0.10 J | 4.7 | 40 | 0.10 U | -- | 0.043 J | 0.056 J | -- | 0.90 | 10 U | 0.14 J | -- | 140 | 0.050 U | -- | 2.2 | 4.2 | 0.20 U | 0.20 U | **6.0** | 27 |
| MP21-4 | MP21-04 | 320 - 330 | 12/17/2010 | 6010 | | | -- | 10 U | 10 U | 41 | 4 U | -- | 5 U | 5 U | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 30 | 10 U | 10 U | 10 U | 10 U | **8.6 J** | 9.8 J |
| | | | 7/13/2011 | 200 | | | 19 | 1.0 U | 1.5 | 40 | 0.50 U | 140 | 0.20 U | -- | 0.23 J | 2.4 | 40 U | 1.0 U | 34000 | 29 | 0.2 U | 34 | 2.2 | 7.4 | 1.0 U | 1.0 U | **8.6** | 9.6 |
| | | | 8/26/2014 | 200 | | | 3.5 J | 0.069 J | 1.1 | 40 | 0.10 U | -- | 0.10 U | 0.061 J | -- | 0.13 J | 10 U | 0.20 U | -- | 15 | 0.050 U | -- | 0.34 J | 8.3 | 0.20 U | 0.20 U | **9.2** | 30 |
| MP21-5 | MP21-05 | 245 - 255 | 12/20/2010 | 6010 | | | -- | 10 U | 10 U | 37 | 4 U | -- | 5 U | 2.1 J | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 15 J | 10 U | 10 U | 10 U | 10 U | **6.1 J** | 20 U |
| | | | 7/14/2011 | 200 | | | 10 U | 1.0 U | 1.2 | 41 | 0.50 U | 250 | 0.20 U | -- | 0.34 J | 3.0 | 40 U | 1.0 U | 61000 | 0.85 J | 0.2 U | 19 | 3.3 | 7.3 | 1.0 U | 1.0 U | **6.6** | 5.3 |
| | | | 8/26/2014 | 200 | | | 3.6 J | 0.081 J | 1.3 | 43 | 0.10 U | -- | 0.10 U | 1.6 | -- | 0.23 J | 10 U | 0.20 U | -- | 0.19 J | 0.050 U | -- | 0.63 J | 7.1 | 0.20 U | 0.20 U | **6.6** | 8.7 |
| MW-6-1-5 | EPAMW61-5 | 354 - 364 | 8/8/2014 | 200 | | | 6.9 | 0.077 J | 1.5 | 70 | 0.10 U | -- | 0.030 J | 5.2 | -- | 1.2 | 10 U | 0.14 J | -- | 0.64 | 0.050 U | -- | 3.5 | 6.6 | 0.20 U | 0.20 U | **7.2** | 16 |
| MW-6-1-6 | EPAMW61-6 | 470 - 480 | 8/8/2014 | 200 | | | 5.2 | 0.10 J | 0.81 | 83 | 0.10 U | -- | 0.020 J | 1.7 | -- | 0.92 | 10 U | 0.14 J | -- | 0.60 | 0.050 U | -- | 1.6 | 3.4 | 0.20 U | 0.20 U | **4.8** | 14 |
| MW-6-1-7 | EPAMW61-7 | 594 - 604 | 8/8/2014 | 200 | | | 7.2 | 0.070 J | 1.6 | 38 | 0.10 U | -- | 0.017 J | 8.9 | -- | 1.4 | 10 U | 0.12 J | -- | 0.41 | 0.050 U | -- | 3.8 | 1.0 | 0.20 U | 0.20 U | **7.9** | 7.2 |
| MW6-10d | MW6-10d | 539 - 554 | 12/20/2010 | 6010 | L | | -- | 10 U | 10 U | 41 | 4 U | -- | 5 U | 5 U | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 38 | 10 U | 10 U | 10 U | 10 U | **4.3 J** | 150 |
| | | | 8/10/2011 | 200 | HS | | 10 U | 0.30 J | 1.0 U | 39 | 0.50 U | 59 | 0.20 U | -- | 1.0 U | 0.69 J | 34 J | 1.0 U | 18000 | 370 | 0.2 U | 36 | 2.0 U | 1.6 | 1.0 U | 1.0 U | 2.0 U | 5.0 U |
| | | | 8/18/2014 | 200 | L | | 3.0 J | 0.14 J | 1.6 | 45 | 0.10 U | -- | 0.10 U | 3.2 | -- | 0.50 U | 2.3 J | 0.024 J | -- | 16 | 0.050 U | -- | 0.096 J | 1.5 | 0.20 U | 0.20 U | **5.3** | 0.84 J |
| MW6-10i | MW6-10i | 336 - 356 | 12/21/2010 | 6010 | L | | -- | 10 U | 10 U | 92 | 4 U | -- | 5 U | 4.6 J | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 9.8 J | 10 U | 10 U | 10 U | 10 U | **3.6 J** | 580 |
| | | | 7/13/2011 | 200 | L | | 10 U | 1.0 U | 0.91 J | 77 | 0.50 U | 56 | 0.20 U | -- | 0.27 J | 1.1 | 36 J | 1.0 U | 28000 | 74 | 0.2 U | 7.9 | 2.2 | 5.9 | 1.0 U | 1.0 U | **1.7 J** | 300 |
| | | | 7/13/2011 | 200 | HS | | 10 U | 1.0 U | 1.0 U | 76 | 0.50 U | 54 | 0.20 U | -- | 0.21 J | 1.8 | 110 | 1.0 U | 28000 | 50 | 0.2 U | 8.2 | 2.6 | 5.6 | 1.0 U | 1.0 U | 2.0 U | 4.4 J |
| | | | 8/18/2014 | 200 | L | | 5.6 | 0.063 J | 1.3 | 110 | 0.10 U | -- | 0.10 U | 7.2 | -- | 0.82 | 10 U | 0.032 J | -- | 2.2 | 0.050 U | -- | 0.43 J | 5.2 | 0.20 U | 0.20 U | **4.6** | 2.6 J |
| MW6-12i | MW6-12i | 260 - 275 | 6/15/2005 | 6010 | L | | -- | 60 U | 10 U | 30 | 0.54 J | -- | 5 U | 2.6 J | 50 U | 25 U | -- | 5 U | -- | -- | 0.2 U | 26 J | 5.9 J | 5 U | 10 U | 10 U | **1.5 J** | 510 |
| | | | 8/10/2011 | 200 | HS | | 51 | 1.0 U | 1.0 U | 31 | 0.50 U | 110 | 0.20 U | -- | 0.10 J | 0.86 J | 1300 | 1.0 U | 16000 | 140 | 0.2 U | 19 | 0.72 J | 1.0 U | 1.0 U | 1.0 U | 2.0 U | 9.3 |
| | | | 8/29/2014 | 200 | L | | 4.4 J | 0.50 U | 0.95 | 37 | 0.10 U | -- | 0.10 U | 0.20 U | -- | 0.19 J | 56 | 0.20 U | -- | 47 | 0.050 U | -- | 4.5 | 0.40 U | 0.20 U | 0.20 U | **0.78** | 5.0 U |
| MW6-13i | MW6-13i | 246 - 261 | 12/21/2010 | 6010 | L | | -- | 10 U | 10 U | 28 | 4 U | -- | 5 U | 5 U | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 31 | 10 U | 10 U | 10 U | 10 U | **10** | 450 |
| | | | 7/13/2011 | 200 | L | | 10 U | 1.0 U | 1.1 | 31 | 0.50 U | 130 | 0.20 U | -- | 0.22 J | 0.90 J | 54 | 1.0 U | 22000 | 26 | 0.2 U | 31 | 2.7 | 1.8 | 1.0 U | 1.0 U | **6.1** | 520 |
| | | | 7/18/2011 | 200 | HS | | 10 U | 0.63 J | 1.0 U | 29 | 0.24 J | 120 | 0.10 J | -- | 0.38 J | 1.2 | 40 U | 0.22 J | 20000 | 38 | 0.2 U | 32 | 0.84 J | 1.9 | 0.17 J | 0.91 J | **8.5** | 460 |
| | | | 8/29/2014 | 200 | L | | 5.0 | 0.053 J | 1.7 | 27 | 0.10 U | -- | 0.10 U | 0.10 J | -- | 1.3 | 10 U | 0.033 J | -- | 19 | 0.050 U | -- | 4.9 | 1.1 | 0.20 U | 0.20 U | **13** | 5.0 U |
| MW6-17i | MW6-17i | 212 - 232 | 6/14/2005 | 6010 | L | | -- | 60 U | 10 U | 56 | 1.2 J | -- | 5 U | 14 | 50 U | 25 U | -- | 5 U | -- | -- | 0.2 U | 15 J | 8.3 J | 6.2 | 10 U | **5.6 J** | **4.2 J** | 750 |
| | | | 12/19/2005 | 6010 | L | | 30 J | -- | -- | -- | -- | 250 | -- | -- | -- | -- | 450 | -- | 61300 | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/19/2005 | 6020 | L | | -- | 0.83 J | 2 U | 41 | 1 U | -- | 0.11 J | 2 U | 0.8 J | 7.3 | -- | 1.8 | -- | -- | -- | 15 | 5.7 | 7.5 | 1 U | 1 U | **4.8 J** | 1100 |
| | | | 6/20/2006 | 6020 | L | | -- | 0.2 J | 0.78 J | 39 | 1 U | -- | 1 U | 0.3 J | 0.38 J | 2 U | -- | 0.4 J | -- | -- | 0.2 U | 14 | 1 J | 6.1 | 1 U | 1 U | **4.3 J** | 630 |
| | | | 1/8/2007 | 6020 | L | | -- | 0.25 J | 2.6 | 41 | 1 U | -- | 1 U | 1.7 J | 0.22 J | 1.7 J | -- | 0.31 J | -- | -- | 0.2 U | 15 | 1.7 J | 6.6 | 1 U | 1 U | **4.5 J** | 17 |
| | | | 8/10/2011 | 200 | HS | | 10 U | 1.0 U | 1.0 U | 35 | 0.50 U | 290 | 0.20 U | -- | 0.32 J | 1.7 | 430 | 1.0 U | 65000 | 44 | 0.2 U | 13 | 0.80 J | 6.4 | 1.0 U | 1.0 U | 2.0 U | 5.0 U |
| MW7-1A | MW6-09i | 350 - 370 | 12/20/2010 | 6010 | L | | -- | 10 U | 10 U | 56 | 4 U | -- | 5 U | 5 U | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 7.7 J | 10 U | 10 U | 10 U | **7.3 J** | **3.6 J** | 810 |
| | | | 8/10/2011 | 200 | | | 10 U | 1.0 U | 1.0 U | 57 | 0.50 U | 32 J | 0.20 U | -- | 1.0 U | 0.77 J | 100 | 1.0 U | 15000 | 12 | 0.2 U | 6.7 | 2.0 U | 1.6 | 1.0 U | 1.0 U | 2.0 U | 6.3 |
| | | | 8/19/2014 | 200 | L | | 5.0 U | 0.090 J | 1.7 | 70 | 0.10 U | -- | 0.10 U | 14 | -- | 0.64 U | 20 U | 0.20 U | -- | 1.2 U | 0.050 U | -- | 0.80 U | 2.6 | 0.20 U | 0.20 U | **4.5** | 5.0 U |
| MW7-1B | MW6-09UI2 | 380 - 420 | 8/14/2013 | 200 | L | | 16 | 0.32 J | 0.74 | 87 | 0.10 U | 57 | 0.10 U | 0.20 U | -- | 0.79 | 250 | 0.20 U | -- | 62 | 0.050 U | -- | 1.3 | 6.5 | 0.20 U | 0.20 U | **1.1** | 2.7 J |
| | | | 2/11/2014 | 200 | L | | 5.8 | 0.19 J | 1.0 | 94 | 0.10 U | 47 | 0.019 J | 0.13 J | -- | 0.41 J | 12 | 0.20 U | -- | 28 | 0.050 U | -- | 1.3 | 6.6 | 0.20 U | 0.20 U | **1.8** | 5.0 U |
| | | | 8/20/2014 | 200 | L | | 7.7 U | 0.13 J | 1.7 | 110 | 0.10 U | 46 U | 0.10 U | 6.4 | -- | 0.52 U | 10 U | 0.20 U | -- | 1.1 U | 0.050 U | -- | 0.54 J | 5.3 | 0.20 U | 0.20 U | **4.0** | 2.7 J |
| MW7-1C | MW6-09LI | 435 - 450 | 8/14/2013 | 200 | L | | 22 | 0.60 | 0.82 | 26 | 0.10 U | 68 | 0.020 J | 0.20 U | -- | 1.2 | 420 | 0.20 U | -- | 27 | 0.050 U | -- | 3.0 | 0.26 J | 0.20 U | 0.20 U | **0.65** | 7.5 |
| | | | 2/11/2014 | 200 | L | | 4.8 J | 0.43 J | 2.2 | 19 | 0.10 U | 46 | 0.036 J | 0.18 J | -- | 0.14 J | 1.1 J | 0.20 U | -- | 2.4 | 0.050 U | -- | 0.25 J | 0.40 | 0.20 U | 0.20 U | **2.2** | 5.0 U |
| | | | 8/20/2014 | 200 | L | | 5.0 U | 0.39 J | 2.4 | 28 U | 0.10 U | 46 U | 0.10 U | 0.20 U | -- | 0.57 U | 10 U | 0.20 U | -- | 2.5 U | 0.050 U | -- | 0.20 J | 0.28 J | 0.20 U | 0.20 U | **1.8** | 5.0 U |
| MW7-2A | MW6-22UI | 302 - 317 | 1/24/2013 | 200 | | | 5.0 U | 0.50 U | 0.67 | 64 | 0.10 U | -- | 0.10 U | 0.20 U | -- | 0.50 U | 20 U | 0.20 U | -- | 36 | 0.050 U | -- | 0.85 | 7.7 | 0.20 U | 0.20 U | **4.7** | 280 |
| | | | 8/12/2013 | 200 | L | | 5.1 | 0.080 J | 1.6 | 61 | 0.10 U | 210 | 0.070 J | 1.2 | -- | 2.0 | 13 | 0.29 | -- | 11 | 0.050 U | -- | 1.2 | 7.8 | 0.20 U | 0.20 U | **6.4** | 470 |
| | | | 8/12/2013 | 200 | L - K | | 4.8 J | 0.070 J | 1.7 | 59 | 0.10 U | 210 | 0.070 J | 1.3 | -- | 2.2 | 18 | 0.31 | -- | 11 | 0.050 U | -- | 2.3 | 7.7 | 0.20 U | 0.20 U | **6.5** | 470 |
| | | | 2/12/2014 | 200 | L | | 2.8 J | 0.50 U | 1.2 | 60 | 0.10 U | 200 | 0.076 J | 0.16 J | -- | 1.6 J | 130 | 0.069 J | -- | 28 | 0.050 U | -- | 5.6 J | 8.2 | 0.20 U | 0.20 U | **5.6** | 7.1 J |
| | | | 2/12/2014 | 200 | L - K | | 2.7 J | 0.50 U | 1.1 | 60 | 0.10 U | 190 | 0.076 J | 0.19 J | -- | 0.80 J | -- | 0.20 U | -- | 32 | 0.050 U | -- | 3.3 J | 8.3 | 0.20 U | 0.20 U | **5.3** | 4.8 J |
| | | | 8/27/2014 | 200 | L | | 5.3 | 0.064 J | 0.55 | 58 | 0.10 U | 230 | 0.027 J | 0.13 J | -- | 1.3 J | 630 | 0.20 U | -- | 52 | 0.050 U | -- | 4.1 J | 6.7 | 0.20 U | 0.20 U | **3.3** | 7.7 |
| | | | 8/27/2014 | 200 | L - K | | 4.6 J | 0.056 J | 0.61 | 58 | 0.10 U | 220 | 0.10 U | 0.15 J | -- | 0.26 J | 1200 | 0.20 U | -- | 69 | 0.050 U | -- | 0.84 J | 6.4 | 0.20 U | 0.20 U | **3.4** | 6.7 |
| MW7-2B | MW6-22LI1 | 348 - 358 | 1/25/2013 | 200 | L | | 4.0 J | 0.19 J | 0.79 | 23 | 0.10 U | -- | 0.020 J | 0.20 U | -- | 0.29 J | 48 | 0.34 | -- | 50 | 0.050 U | -- | 0.55 J | 1.8 | 0.20 U | 0.20 U | **1.9** | 290 |
| | | | 8/12/2013 | 200 | L | | 6.6 | 0.080 J | 1.3 | 41 | 0.10 U | 110 | 0.060 J | 0.18 J | -- | 0.80 | 24 | 0.17 J | -- | 52 | 0.050 U | -- | 0.58 J | 4.2 | 0.20 U | 0.20 U | **6.7** | 470 |
| | | | 2/13/2014 | 200 | L | | 5.0 U | 0.10 J | 0.91 | 37 | 0.10 U | 110 | 0.10 U | 0.20 U | -- | 0.82 U | 100 | 0.037 J | -- | 53 | 0.050 U | -- | 4.8 | 3.6 | 0.20 U | 0.20 U | **3.5** | 9.7 |
| | | | 8/27/2014 | 200 | L | | 3.9 J | 0.061 J | 0.95 | 36 | 0.10 U | 130 | 0.10 U | 0.047 J | -- | 0.94 | 43 | 0.038 J | -- | 42 | 0.050 U | -- | 3.2 | 4.5 | 0.20 U | 0.20 U | **5.9** | 5.4 |
| MW7-2C | MW6-22LI2 | 380 - 390 | 1/24/2013 | 200 | | | 5.0 U | 0.50 U | 0.71 | 56 | 0.10 U | -- | 0.10 U | 0.20 U | -- | 0.50 U | 20 U | 0.20 U | -- | 96 | 0.050 U | -- | 0.80 U | 6.9 | 0.20 U | 0.20 U | **4.4** | 110 |
| | | | 8/13/2013 | 200 | L | | 8.4 | 0.060 J | 0.18 J | 50 | 0.10 U | 110 | 0.040 J | 0.20 U | -- | 0.78 | 600 | 0.20 U | -- | 99 | 0.050 U | -- | 0.93 | 4.2 | 0.20 U | 0.20 U | **1.2** | 7.6 |
| | | | 2/12/2014 | 200 | L | | 2.5 J | 0.50 U | 0.40 U | 18 | 0.10 U | 70 | 0.036 J | 0.20 U | -- | 0.38 J | -- | 0.039 J | -- | 82 | 0.050 U | -- | 4.3 | 0.14 J | 0.20 U | 0.20 U | 0.50 U | 5.0 U |
| | | | 8/27/2014 | 200 | L | | 5.0 | 0.083 J | 0.15 J | 21 | 0.10 U | 110 | 0.10 U | 0.20 U | -- | 1.0 | 840 | 0.035 J | -- | 120 | 0.0070 J | -- | 4.1 | 1.7 | 0.20 U | 0.20 U | **0.60** | 5.5 |
| MW7-2D | MW6-22D | 452 - 462 | 1/25/2013 | 200 | | | 7.5 | 0.050 J | 1.0 | 43 | 0.10 U | -- | 0.060 J | 0.20 U | -- | 0.44 J | 55 | 1.0 | -- | 76 | 0.050 U | -- | 0.29 J | 0.40 U | 0.20 U | 0.20 U | **8.4** | 180 |
| | | | 8/12/2013 | 200 | L | | 7.0 | 0.050 J | 1.1 | 35 | 0.10 U | 110 | 0.090 J | 0.090 J | -- | 0.46 J | 170 | 0.20 U | -- | 24 | 0.050 U | -- | 4.2 | 0.40 U | 0.20 U | 0.20 U | **6.2** | 4.7 J |
| | | | 2/13/2014 | 200 | L | | 5.0 U | 0.14 J | 1.0 | 6.0 | 0.10 U | 97 | 0.10 U | 0.20 U | -- | 0.61 U | 13 | 0.20 U | -- | 2.4 | 0.050 U | -- | 4.2 | 0.97 | 0.20 U | 0.20 U | **0.75** | 5.0 U |
| | | | 8/28/2014 | 200 | L | | 3.3 J | 0.042 J | 0.89 | 37 | 0.10 U | 120 | 0.10 U | 0.037 J | -- | 0.053 J | 100 | 0.20 U | -- | 8.7 | 0.050 U | -- | 0.24 J | 0.40 U | 0.20 U | 0.20 U | **8.3** | 5.0 U |
| MW7-3A | MW6-23UI | 338 - 348 | 4/19/2013 | 200 | | | 5 U | 0.17 J | 0.32 J | 94 | 0.1 U | -- | 0.067 J | 0.034 J | -- | 0.5 U | 20 U | 0.2 U | -- | 180 | 0.05 U | -- | 5.7 | 4.7 | 0.2 U | 0.2 U | 0.2 J | 140 |
| | | | 8/15/2013 | 200 | L | | 220 | 0.15 J | 1.2 | 120 | 0.10 U | 210 | 0.030 J | 0.87 | -- | 0.59 | 4300 | 0.080 J | -- | 100 | 0.050 U | -- | 1.8 | 5.9 | 0.20 U | 0.20 U | **3.0** | 65 |
| | | | 2/14/2014 | 200 | L | | 3.1 J | 0.12 J | 0.63 | 94 | 0.10 U | 210 | 0.10 U | 0.067 J | -- | 0.42 J | 49 | 0.027 J | -- | 23 | 0.050 U | -- | 1.4 | 1.3 | 0.20 U | 0.20 U | 0.28 J | 5.0 U |
| | | | 8/26/2014 | 200 | L | | 5.3 | 0.10 J | 1.2 | 110 | 0.10 U | 220 | 0.10 U | 0.29 | -- | 0.64 | 29 | 0.025 J | -- | 34 | 0.0040 J | -- | 1.2 | 6.3 | 0.20 U | 0.20 U | **3.3** | 5.0 U |

# Table 4-7
## Analytical Summary
## Metals in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Al | Sb | As | Ba | Be | B | Cd | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Mo | Ni | Se | Ag | Tl | V | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 1000 | 6 | 10 | 1000 | 4 | 1000# | 5 | 50 | | 1300@ | | 15@ | | 500# | 2 | | 100 | 50 | | 2 | 0.5# | |
| MW7-3B | MW6-23LI | 434 - 444 | 2/1/2013 | 200 | | | 5.0 U | 0.54 | 3.4 | 52 | 0.10 U | -- | 0.090 J | 0.20 U | -- | 0.50 U | 20 U | 0.20 U | -- | 0.20 U | 0.050 U | -- | 0.80 U | 4.3 | 0.20 U | 0.20 UJ | **7.9** | 5.0 U |
| | | | 8/16/2013 | 200 | L | | 5.0 U | 0.070 J | 0.40 | 37 | 0.10 U | 54 | 0.060 J | 0.060 J | -- | 0.28 J | 15 | 0.20 U | -- | 15 | 0.050 U | -- | 0.27 J | 1.9 | 0.20 U | 0.20 U | **0.63** | 1.2 J |
| | | | 2/14/2014 | 200 | L | | 4.0 J | 0.047 J | 0.60 | 18 | 0.10 U | 51 | 0.020 J | 0.15 J | -- | 0.66 | 51 | 0.20 U | -- | 5.2 | 0.050 U | -- | 0.64 J | 0.73 | 0.20 U | 0.20 U | **1.0** | 5.0 U |
| | | | 8/26/2014 | 200 | L | | 6.2 | 0.057 J | 0.61 | 17 | 0.10 U | 54 | 0.10 U | 0.23 | -- | 0.79 | 9.5 J | 0.20 U | -- | 6.6 | 0.050 U | -- | 4.7 | 0.69 | 0.20 U | 0.20 U | **1.3** | 5.0 U |
| MW7-3C | MW6-23D | 490 - 500 | 1/31/2013 | 200 | | | 5.5 | 0.34 J | 1.5 | 26 | 0.10 U | -- | 0.050 J | 0.59 | -- | 3.3 | 20 U | 0.21 | -- | 69 | 0.050 U | -- | 0.98 | 3.9 | 0.20 U | 0.20 UJ | **4.5** | 160 |
| | | | 8/16/2013 | 200 | L | | 5.0 U | 0.15 J | 1.4 | 31 | 0.10 U | 48 | 0.040 J | 0.22 | -- | 0.68 | 9.6 J | 0.20 U | -- | 7.7 | 0.050 U | -- | 0.39 J | 1.7 | 0.20 U | 0.20 U | **1.9** | 1.1 J |
| | | | 2/21/2014 | 200 | L | | 5.0 U | 0.11 J | 0.78 | 30 | 0.10 U | 51 | 0.10 U | 0.20 U | -- | 0.50 U | 9.3 J | 0.20 U | -- | 14 | 0.050 U | -- | 0.19 J | 0.85 | 0.20 U | 0.20 U | 0.36 J | 5.0 U |
| | | | 8/26/2014 | 200 | L | | 6.0 | 0.061 J | 1.0 | 23 | 0.10 U | 53 | 0.10 U | 2.5 | -- | 0.32 J | 10 U | 0.20 U | -- | 4.3 | 0.050 U | -- | 0.54 J | 1.5 | 0.20 U | 0.20 U | **5.3** | 5.0 U |
| MW7-4A | MW6-24UI | 320 - 335 | 2/11/2013 | 200 | L | | 1.9 J | 0.39 J | 0.48 | 89 | 0.10 U | -- | 0.071 J | 2.5 | -- | 2.7 | 100 | 0.099 J | -- | 210 J | 0.022 J | -- | 18 | 4.3 | 0.20 U | 0.20 U | **1.7** | 540 |
| | | | 8/9/2013 | 200 | L | | 6.3 | 0.090 J | 1.6 | 140 | 0.10 U | 63 | 0.040 J | 4.4 | -- | 2.1 | 2.9 J | 0.060 J | -- | 8.6 | 0.050 U | -- | 3.9 | 4.1 | 0.20 U | 0.20 U | **4.8** | 140 |
| | | | 2/20/2014 | 200 | L | | 4.6 J | 0.11 J | 1.5 | 150 | 0.10 U | 76 | 0.10 U | 0.80 | -- | 0.85 | 100 | 0.050 J | -- | 9.9 | 0.050 U | -- | 4.2 | 4.1 | 0.20 U | 0.20 U | **4.0** | 4.6 J |
| | | | 8/25/2014 | 200 | L | | 5.1 | 0.043 J | 1.2 | 140 | 0.10 U | 71 | 0.10 U | 0.20 | -- | 0.50 U | 24 | 0.20 U | -- | 8.1 | 0.050 U | -- | 0.55 J | 4.2 | 0.042 J | 0.20 U | **3.7** | 5.0 U |
| MW7-4B | MW6-24LI | 365 - 375 | 2/4/2013 | 200 | L | | 5.0 U | 0.23 J | 0.82 | 130 | 0.10 U | -- | 0.065 J | 0.20 U | -- | 1.4 | 20 | 0.20 U | -- | 240 | 0.050 U | -- | 8.7 | 8.9 | 0.20 U | 0.20 U | **1.3** | 430 |
| | | | 8/12/2013 | 200 | L | | 5.3 | 0.11 J | 1.1 | 95 | 0.10 U | 72 | 0.040 J | 0.14 J | -- | 0.52 | 110 | 0.20 U | -- | 80 | 0.0040 J | -- | 0.78 J | 5.9 | 0.20 U | 0.20 U | **2.3** | 8.3 |
| | | | 2/21/2014 | 200 | L | | 5.0 U | 0.044 J | 0.37 J | 4.4 | 0.10 U | 77 | 0.10 U | 0.20 U | -- | 0.50 U | 2.8 J | 0.20 U | -- | 6.1 | 0.050 U | -- | 0.71 J | 0.40 U | 0.20 U | 0.20 U | 0.50 U | 0.60 J |
| | | | 8/25/2014 | 200 | L | | 4.6 J | 0.50 U | 0.43 | 6.1 | 0.10 U | 80 | 0.10 U | 0.20 U | -- | 0.43 J | 38 | 0.20 U | -- | 6.9 | 0.050 U | -- | 3.5 | 0.40 U | 0.20 U | 0.20 U | 0.50 U | 5.0 U |
| MW7-5A | MW6-25UI | 338 - 348 | 4/18/2013 | 200 | | | 5 U | 0.17 J | 0.22 J | 71 | 0.1 U | -- | 0.036 J | 0.04 J | -- | 0.5 U | 20 U | 0.03 J | -- | 130 | 0.05 U | -- | 5.9 | 7.4 | 0.2 U | 0.2 U | 0.19 J | 38 |
| | | | 8/19/2013 | 200 | L | | 12 | 0.090 J | 1.0 | 110 | 0.10 U | 65 | 0.030 J | 0.29 | -- | 0.51 | 190 | 0.20 U | -- | 28 | 0.050 U | -- | 1.1 | 10 | 0.030 J | 0.20 U | **2.8** | 13 |
| | | | 2/14/2014 | 200 | L | | 2.6 J | 0.080 J | 1.3 | 130 | 0.10 U | 68 | 0.10 U | 0.57 | -- | 0.50 U | 5.8 J | 0.20 U | -- | 14 | 0.050 U | -- | 0.57 J | 10 | 0.20 U | 0.20 U | **3.0** | 9.1 |
| | | | 8/21/2014 | 200 | L | | 4.7 J | 0.075 J | 1.5 | 140 | 0.10 U | 81 | 0.10 U | 4.8 | -- | 1.8 | 10 U | 0.20 U | -- | 1.7 | 0.050 U | -- | 0.37 J | 11 | 0.20 U | 0.20 U | **4.7** | 7.6 |
| MW7-5B | MW6-25LI | 388 - 398 | 3/1/2013 | 200 | | | 5.0 U | 0.11 J | 1.8 | 95 | 0.10 U | -- | 0.030 J | 8.5 | -- | 2.9 | 20 U | 0.11 J | -- | 10 | 0.050 U | -- | 0.48 J | 2.0 | 0.20 U | 0.20 U | **4.8** | 220 |
| | | | 8/19/2013 | 200 | L | | 11 | 0.18 J | 0.80 | 45 | 0.10 U | 43 | 0.050 J | 0.24 | -- | 1.4 | 34 | 0.18 J | -- | 78 | 0.050 U | -- | 1.2 | 0.91 | 0.030 J | 0.20 U | **1.2** | 5.6 |
| | | | 2/14/2014 | 200 | L | | 10 | 0.11 J | 1.8 | 79 | 0.10 U | 44 | 0.10 U | 3.3 | -- | 0.50 U | 45 | 0.20 U | -- | 19 | 0.050 U | -- | 0.39 J | 1.9 | 0.20 U | 0.20 U | **3.5** | 5.1 |
| | | | 8/21/2014 | 200 | L | | 4.4 J | 0.10 J | 1.9 | 64 | 0.10 U | 52 | 0.10 U | 3.3 | -- | 0.84 | 10 U | 0.027 J | -- | 5.2 | 0.050 U | -- | 3.8 | 1.8 | 0.20 U | 0.20 U | **4.0** | 5.0 U |
| MW7-6 | MW6-26UI | 362 - 372 | 4/26/2013 | 200 | | | 2.9 J | 0.096 J | 1.2 | 79 | 0.1 U | -- | 0.017 J | 1.3 | -- | 0.5 U | 20 U | 0.028 J | -- | 5.5 | 0.05 U | -- | 1.4 | 1.6 | 0.2 U | 0.2 U | **4.3** | 67 |
| | | | 8/9/2013 | 200 | L | | 53 | 0.10 J | 1.5 | 78 | 0.10 U | 54 | 0.10 U | 9.0 | -- | 1.1 | 130 | 0.20 U | -- | 8.4 | 0.050 U | -- | 0.83 | 1.5 | 0.20 U | 0.20 U | **4.5** | 120 |
| | | | 8/9/2013 | 200 | L - K | | 64 | 0.10 J | 1.7 | 79 | 0.10 U | 54 | 0.10 U | 8.1 | -- | 0.47 J | 150 | 0.040 J | -- | 8.8 | 0.050 U | -- | 0.37 J | 1.4 | 0.20 U | 0.20 U | **4.6** | 130 |
| | | | 2/17/2014 | 200 | L | | 3.7 J | 0.26 J | 0.46 | 3.8 | 0.10 U | 210 | 0.10 U | 0.20 U | -- | 0.51 | 13 | 0.20 U | -- | 20 | 0.050 U | -- | 4.3 | 0.083 J | 0.20 U | 0.20 U | 0.50 U | 5.0 U |
| | | | 2/17/2014 | 200 | L - K | | 2.7 J | 0.23 J | 0.46 | 3.7 | 0.10 U | 210 | 0.10 U | 0.20 U | -- | 0.14 J | 16 | 0.20 U | -- | 18 | 0.050 U | -- | 0.19 J | 0.40 U | 0.20 U | 0.20 U | 0.50 U | 5.0 U |
| | | | 9/3/2014 | 200 | L | | 4.7 J | 0.055 J | 0.40 U | 48 | 0.10 U | 91 | 0.10 U | 0.049 J | -- | 1.2 J | 3000 | 0.026 J | -- | 420 | 0.050 U | -- | 3.4 J | 0.39 J | 0.016 J | 0.20 U | 0.50 U | 4.7 J |
| | | | 9/3/2014 | 200 | L - K | | 4.0 J | 0.047 J | 0.40 U | 48 | 0.10 U | 87 | 0.10 U | 0.066 J | -- | 0.23 J | 2800 | 0.20 U | -- | 390 | 0.050 U | -- | 1.9 J | 0.51 | 0.20 U | 0.20 U | 0.50 U | 5.0 U |
| MW7-7A | MW6-27UI1 | 288 - 308 | 8/7/2013 | 200 | L | | 5.4 U | 0.50 U | 1.5 | 160 | 0.10 U | 130 | 0.11 | 1.2 | -- | 0.97 U | 250 | 0.20 U | -- | 57 | 0.050 U | -- | 0.98 | 8.5 | 0.20 U | 0.20 U | **6.3** | 440 |
| | | | 2/19/2014 | 200 | L | | 3.9 J | 0.096 J | 1.0 | 140 | 0.10 U | 130 | 0.028 J | 0.35 | -- | 0.12 J | 130 | 0.20 U | -- | 61 | 0.050 U | -- | 0.87 | 5.4 | 0.20 U | 0.20 U | **4.9** | 1.0 J |
| | | | 7/24/2014 | 200 | L | | 5.0 U | 0.20 J | 1.2 | 160 | 0.10 U | 130 | 0.10 U | 1.6 | -- | 0.76 | 19 | 0.20 U | -- | 42 | 0.050 U | -- | 0.70 J | 5.6 | 0.20 U | 0.20 U | **5.1** | 5.0 U |
| MW7-7B | MW6-27UI2 | 320 - 330 | 8/7/2013 | 200 | L | | 5.0 U | 0.50 U | 1.7 | 120 | 0.10 U | 160 | 0.11 | 2.9 | -- | 1.4 | 2.6 J | 0.080 J | -- | 20 | 0.024 J | -- | 2.8 | 11 | 0.20 U | 0.20 U | **6.4** | 180 |
| | | | 2/20/2014 | 200 | L | | 4.7 J | 0.12 J | 0.39 J | 170 | 0.10 U | 110 | 0.10 U | 0.052 J | -- | 1.3 | 6.3 J | 0.077 J | -- | 1.1 | 0.050 U | -- | 1.9 | 1.6 | 0.20 U | 0.20 U | 0.50 | 2.2 J |
| | | | 7/24/2014 | 200 | L | | 8.1 U | 0.22 J | 1.5 | 97 | 0.016 J | 160 | 0.020 J | 1.1 | -- | 0.50 U | 10 U | 0.027 J | -- | 3.8 | 0.050 U | -- | 0.71 J | 9.1 | 0.20 U | 0.20 U | **4.0** | 5.0 U |
| MW7-7C | MW6-27LI1 | 347 - 362 | 8/8/2013 | 200 | L | | 4.0 J | 0.10 J | 0.88 | 77 | 0.10 U | 230 | 0.030 J | 0.23 | -- | 0.57 | 260 | 0.20 U | -- | 40 | 0.013 J | -- | 1.4 | 13 | 0.20 U | 0.20 U | **4.2** | 180 |
| | | | 2/18/2014 | 200 | L | | 3.7 J | 0.18 J | 0.55 | 6.1 | 0.10 U | 220 | 0.10 U | 0.20 U | -- | 0.61 | 14 | 0.20 U | -- | 3.7 | 0.050 U | -- | 4.8 | 0.39 J | 0.035 J | 0.20 U | 0.20 J | 5.0 U |
| | | | 7/25/2014 | 200 | L | | 5.0 U | 0.16 J | 0.78 | 78 | 0.10 U | 250 | 0.10 U | 0.045 J | -- | 0.10 J | 77 | 0.20 U | -- | 18 | 0.050 U | -- | 1.8 | 2.5 | 0.20 U | 0.20 U | **0.81** | 1.2 J |
| MW7-7D | MW6-27LI2 | 377 - 387 | 8/6/2013 | 200 | L | | 120 | 0.55 | 1.9 | 63 | 0.10 U | 68 | 0.060 J | 3.0 | -- | 1.0 | 25000 | 0.33 | -- | 190 | 0.050 U | -- | 4.8 | 8.4 | 0.20 U | 0.20 U | **5.9** | 600 |
| | | | 8/6/2013 | 200 | L - K | | 120 | 0.55 | 1.7 | 63 | 0.10 U | -- | 0.060 J | 3.1 | -- | 1.1 | 25000 | 0.34 | -- | 200 | 0.050 U | -- | 4.9 | 8.6 | 0.20 U | 0.20 U | **6.0** | 610 |
| | | | 2/19/2014 | 200 | L | | 7.7 | 0.22 J | 0.76 | 48 | 0.12 | 73 | 0.092 J | 0.17 J | -- | 1.5 | 180 J | 0.14 J | -- | 86 | 0.050 U | -- | 4.4 | 5.6 | 0.22 | 0.086 J | **1.3** | 6.3 J |
| | | | 2/19/2014 | 200 | L - K | | 5.1 | 0.15 J | 0.81 | 49 | 0.10 U | 73 | 0.10 U | 0.18 J | -- | 1.2 | 5.8 J | 0.053 J | -- | 85 | 0.050 U | -- | 5.1 | 5.8 | 0.20 U | 0.20 U | **1.5** | 2.1 J |
| | | | 9/23/2014 | 200 | | | 4.6 J | 0.12 J | 0.38 J | 44 | 0.10 U | 68 | 0.10 U | 0.20 U | -- | 0.50 U | 210 | 0.20 U | -- | 170 | 0.050 U | -- | 0.46 J | 4.6 | 0.20 U | 0.20 U | **1.1** | 5.0 U |
| MW7-7E | MW6-27D | 434 - 444 | 8/5/2013 | 200 | L | | 10 | 0.080 J | 1.0 | 52 | 0.10 U | 53 | 0.10 | 5.5 | -- | 1.0 | 1.3 J | 0.20 U | -- | 37 | 0.050 U | -- | 1.5 | 3.4 | 0.020 J | 0.20 U | **6.0** | 89 |
| | | | 2/20/2014 | 200 | L | | 6.1 | 0.21 J | 3.8 | 27 | 0.024 J | 59 | 0.037 J | 0.51 | -- | 0.32 J | 33 | 0.032 J | -- | 42 | 0.050 U | -- | 4.7 | 0.88 | 0.20 U | 0.20 U | **1.7** | 1.4 J |
| | | | 8/19/2014 | 200 | L | | 5.0 U | 0.12 J | 2.5 | 48 | 0.10 U | 59 | 0.10 U | 0.20 U | -- | 0.50 U | 10 U | 0.20 U | -- | 36 | 0.050 U | -- | 0.80 U | 1.1 | 0.20 U | 0.20 U | **1.5** | 5.0 U |
| MW7-8A | MW6-28UI | 340 - 360 | 10/25/2013 | 200 | L | | 2.8 J | 0.080 J | 0.88 | 82 | 0.10 U | 200 | 0.060 J | 0.16 J | -- | 0.29 J | -- | 0.090 J | -- | 41 | 0.050 U | -- | 0.93 | 6.7 | 0.020 J | 0.20 U | **2.6** | 18 |
| | | | 2/10/2014 | 200 | L | | 34 | 0.074 J | 0.82 | 86 | 0.10 U | 220 | 0.10 U | 0.12 J | -- | 0.28 J | 310 | 0.026 J | -- | 30 | 0.0070 J | -- | 0.81 | 6.8 | 0.028 J | 0.20 U | **2.2** | 8.0 |
| | | | 9/3/2014 | 200 | L | | 7.9 | 0.066 J | 1.5 | 83 | 0.10 U | 230 | 0.024 J | 0.88 | -- | 0.48 J | 120 | 0.20 U | -- | 4.0 | 0.050 U | -- | 0.60 J | 7.0 | 0.015 J | 0.20 U | **5.2** | 5.0 U |
| MW7-8B | MW6-28LI | 454 - 464 | 10/25/2013 | 200 | L | | 6.9 | 0.11 J | 0.25 J | 92 | 0.10 U | 200 | 0.030 J | 0.12 J | -- | 0.37 J | -- | 0.20 U | -- | 250 | 0.050 U | -- | 0.97 | 5.5 | 0.20 U | 0.20 U | **0.66** | 8.3 |
| | | | 2/10/2014 | 200 | L | | 9.5 | 0.10 J | 0.28 J | 99 | 0.10 U | 210 | 0.10 U | 0.056 J | -- | 0.20 J | 390 | 0.028 J | -- | 150 | 0.050 U | -- | 0.96 | 6.4 | 0.035 J | 0.20 U | **0.82** | 9.1 |
| | | | 9/3/2014 | 200 | L | | 6.9 | 0.077 J | 0.82 | 91 | 0.10 U | 220 | 0.021 J | 0.51 | -- | 1.1 | 38 | 0.033 J | -- | 21 | 0.050 U | -- | 0.88 | 7.2 | 0.015 J | 0.20 U | **3.7** | 5.0 U |
| MW7-9A | MW6-29UI | 365 - 385 | 8/9/2013 | 200 | L | | 19 | 0.19 J | 1.3 | 71 | 0.10 U | 53 | 0.020 J | 4.2 | -- | 0.60 | 340 | 0.20 U | -- | 64 | 0.050 U | -- | 0.83 | 1.7 | 0.20 U | 0.20 U | **3.0** | 20 |
| | | | 2/17/2014 | 200 | L | | 10 | 0.10 J | 1.3 | 80 | 0.10 U | 45 | 0.10 U | 4.7 | -- | 1.2 | 480 | 0.044 J | -- | 14 | 0.050 U | -- | 4.5 | 1.7 | 0.014 J | 0.20 U | **2.7** | 6.3 |
| | | | 8/14/2014 | 200 | L | | 11 U | 0.11 J | 1.6 | 95 | 0.10 U | 49 | 0.10 U | 12 | -- | 0.50 U | 26 U | 0.025 J | -- | 1.8 | 0.050 U | -- | 0.49 J | 1.8 | 0.20 U | 0.20 U | **4.1** | 1.5 J |
| MW7-9B | MW6-29LI | 412 - 432 | 8/8/2013 | 200 | L | | 4.2 J | 0.18 J | 0.17 J | 65 | 0.10 U | 59 | 0.10 U | 0.10 J | -- | 0.50 | 280 | 0.20 U | -- | 100 | 0.0060 J | -- | 3.2 | 0.86 | 0.20 U | 0.20 U | **0.52** | 4.8 J |
| | | | 2/17/2014 | 200 | L | | 6.0 | 0.096 J | 1.1 | 50 | 0.10 U | 56 | 0.10 U | 0.78 | -- | 0.24 J | 30 | 0.20 U | -- | 2.3 | 0.050 U | -- | 0.35 J | 0.62 | 0.20 U | 0.20 U | **1.3** | 5.0 U |
| | | | 8/14/2014 | 200 | L | | 12 U | 0.31 J | 4.0 | 38 | 0.10 U | 61 | 0.10 U | 0.20 U | -- | 0.93 | 10 U | 0.033 J | -- | 0.30 U | 0.050 U | -- | 1.2 | 0.46 | 0.20 U | 0.20 U | 0.39 J | 2.2 J |
| | | | 8/14/2014 | 200 | L - K | | 13 U | 0.29 J | 4.0 | 37 | 0.10 U | 62 | 0.10 U | 0.20 U | -- | 0.50 U | 16 U | 0.20 U | -- | 0.20 U | 0.050 U | -- | 0.98 | 0.47 | 0.20 U | 0.20 U | 0.43 J | 0.81 J |
| MW7-9C | MW6-29D | 475 - 490 | 8/9/2013 | 200 | L | | 8.6 | 0.19 J | 1.2 | 57 | 0.10 U | 42 | 0.10 U | 0.19 J | -- | 0.13 J | 53 | 0.20 U | -- | 50 | 0.23 | -- | 0.58 J | 0.37 J | 0.20 U | 0.20 U | **2.4** | 21 |
| | | | 2/17/2014 | 200 | L | | 3.5 J | 0.16 J | 1.3 | 27 | 0.10 U | 44 | 0.10 U | 0.039 J | -- | 0.23 J | 4.8 J | 0.20 U | -- | 7.5 | 0.050 U | -- | 0.22 J | 0.29 J | 0.014 J | 0.20 U | **1.1** | 5.0 U |
| | | | 8/14/2014 | 200 | L | | 5.0 U | 0.25 J | 0.77 | 10 | 0.10 U | 48 | 0.10 U | 0.20 U | -- | 0.50 U | 12 U | 0.079 J | -- | 2.8 | 0.050 U | -- | 0.35 J | 0.40 U | 0.20 U | 0.20 U | 0.50 U | 2.3 J |
| MW7-10 | PMW-6 | 258 - 278 | 11/15/2013 | 200 | | | 9.9 | 0.50 U | 0.40 U | 24 | 0.10 U | 150 | 0.10 U | 0.050 J | -- | 0.13 J | -- | 0.030 J | -- | **620** | 0.050 U | -- | 0.39 J | 1.2 | 0.20 U | 0.20 U | 0.50 U | 4.8 J |
| | | | 2/12/2014 | 200 | L | | 6.6 J | 0.50 U | 1.2 | 73 | 0.10 U | 150 | 0.060 J | 1.6 | -- | 0.34 J | -- | 0.20 U | -- | 9.6 | 0.050 U | -- | 2.2 | 5.1 | 0.20 U | 0.20 U | **6.4** | 5.0 U |
| | | | 2/12/2014 | 200 | L - K | | 3.1 J | 0.50 U | 1.2 | 71 | 0.10 U | 150 | 0.065 J | 1.8 | -- | 0.41 J | -- | 0.20 U | -- | 9.1 | 0.050 U | -- | 2.3 | 5.0 | 0.20 U | 0.20 U | **6.2** | 5.0 U |
| | | | 9/2/2014 | 200 | L | | 5.7 | 0.063 J | 1.4 | 74 | 0.10 U | 190 | 0.022 J | 5.9 | -- | 1.7 J | 70 | 0.045 J | -- | 2.4 | 0.050 U | -- | 1.8 J | 4.4 | 0.018 J | 0.20 U | **8.9** | 6.8 |
| | | | 9/2/2014 | 200 | L - K | | 5.3 | 0.059 J | 1.4 | 75 | 0.10 U | 190 | 0.10 U | 5.7 | -- | 0.45 J | 78 | 0.20 U | -- | 1.6 | 0.050 U | -- | 0.13 J | 4.2 | 0.20 U | 0.20 U | **8.8** | 4.9 J |
| MW7-11A | PMW-7A | 390 - 410 | 2/18/2014 | 200 | L | | 3.9 J | 0.14 J | 0.84 | 110 | 0.10 U | 41 | 0.10 U | 0.46 | -- | 0.28 J | 10 U | 0.20 U | -- | 62 | 0.050 U | -- | 0.55 J | 4.8 | 0.014 J | 0.20 U | **1.5** | 22 |
| | | | 8/22/2014 | 200 | L | | 5.7 U | 0.076 J | 1.5 | 150 | 0.10 U | 46 U | 0.10 U | 3.7 | -- | 0.87 | 14 | 0.20 U | -- | 3.9 | 0.050 U | -- | 2.5 U | 5.0 | 0.20 U | 0.20 U | **3.6** | 11 U |
| MW7-11B | PMW-7B | 460 - 470 | 3/10/2014 | 200 | L | | 5.2 | 0.095 J | 0.27 J | 73 | 0.10 U | 38 | 0.10 U | 0.052 J | -- | 1.4 | 23 | 0.044 J | -- | 46 | 0.050 U | -- | 4.0 | 1.3 | 0.20 U | 0.20 U | **0.67** | 7.4 |
| | | | 8/22/2014 | 200 | L | | 5.0 U | 0.044 J | 2.3 | 11 U | 0.10 U | 54 U | 0.10 U | 0.20 U | -- | 0.50 U | 10 U | 0.20 U | -- | 2.1 U | 0.050 U | -- | 2.3 U | 0.40 U | 0.20 U | 0.20 U | 0.50 U | 5.0 U |
| MW7-12A | PMW-8A | 390 - 410 | 2/13/2014 | 200 | L | | 5.4 | 0.14 J | 0.93 | 67 | 0.10 U | 48 | 0.10 U | 1.2 | -- | 0.50 U | 3600 | 0.031 J | -- | 76 | 0.050 U | -- | 0.76 J | 1.3 | 0.20 U | 0.20 U | **1.5** | 20 |
| | | | 9/5/2014 | 200 | L | | 5.4 U | 0.087 J | 1.9 | 84 | 0.10 U | 41 | 0.10 U | 7.4 | -- | 1.1 | 10 U | 0.20 U | -- | 2.2 | 0.050 U | -- | 0.44 J | 1.5 | 0.20 U | 0.20 U | **3.6** | 5.0 U |
| MW7-12B | PMW-8B | 460 - 470 | 2/13/2014 | 200 | L | | 5.9 | 0.19 J | 0.60 | 61 | 0.10 U | 48 | 0.10 U | 0.40 | -- | 0.50 U | 5.6 J | 0.025 J | -- | 79 | 0.050 U | -- | 1.2 | 0.67 | 0.20 U | 0.20 U | **0.99** | 18 |
| | | | 9/5/2014 | 200 | L | | 5.5 U | 0.12 J | 2.0 | 80 | 0.10 U | 39 | 0.10 U | 2.4 | -- | 0.96 | 35 | 0.20 U | -- | 4.0 | 0.050 U | -- | 0.89 | 0.60 | 0.20 U | 0.20 U | **2.4** | 5.0 U |
| MW7-13A | PMW-5A | 303 - 313 | 3/28/2014 | 200 | L | | 5.7 | 0.14 J | 0.16 J | 100 | 0.10 U | 270 | 0.031 J | 0.20 U | -- | 0.50 U | 850 | 0.20 U | -- | 190 | 0.050 U | -- | 2.5 | 9.4 | 0.11 J | 0.20 U | **0.58** | 14 |
| | | | 9/4/2014 | 200 | L | | 5.0 U | 0.088 J | 0.92 | 77 | 0.10 U | 290 | 0.10 U | 1.2 | -- | 0.50 U | 270 | 0.20 U | -- | 12 | 0.050 U | -- | 0.67 J | 11 | 0.20 U | 0.20 U | **4.9** | 5.0 U |

# Table 4-7
## Analytical Summary
## Metals in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | MCL: | Al | Sb | As | Ba | Be | B | Cd | Cr | Co | Cu | Fe | Pb | Mg | Mn | Hg | Mo | Ni | Se | Ag | Tl | V | Zn |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 1000 | 6 | 10 | 1000 | 4 | 1000# | 5 | 50 | | 1300@ | | 15@ | | 500# | 2 | | 100 | 50 | | 2 | 0.5# | |
| MW7-13B | PMW-5B | 323 - 333 | 3/26/2014 | 200 | L | | 5.1 | 0.32 J | 0.25 J | 140 | 0.015 J | 300 | 0.031 J | 0.20 U | -- | 0.64 | 350 | 0.038 J | -- | **850** | 0.050 U | -- | 5.8 | 9.2 | 0.20 U | 0.20 U | **0.70** | 27 |
| | | | 9/4/2014 | 200 | L | | 7.2 U | 0.17 J | 0.97 | 92 | 0.10 U | 280 | 0.10 U | 1.5 | -- | 0.50 U | 66 | 0.20 U | -- | 54 | 0.050 U | -- | 0.69 J | 11 | 0.20 U | 0.20 U | **4.3** | 5.0 U |
| MW7-15A | MW6-16i | 304 - 314 | 12/22/2010 | 6010 | L | | -- | 10 U | 10 U | 14 | 4 U | -- | 5 U | 5 U | 10 U | 10 U | -- | 5 U | -- | -- | 0.2 U | 8.6 J | 10 U | 10 U | 10 U | 10 U | 10 U | 100 |
| | | | 8/10/2011 | 200 | HS | | 30 | 0.34 J | 1.0 U | 64 | 0.50 U | 140 | 0.20 U | -- | 0.15 J | 0.99 J | 3100 | 0.29 J | 26000 | 67 | 0.2 U | 13 | 0.79 J | 1.5 | 1.0 U | 1.0 U | 2.0 U | 20 |
| | | | 9/2/2014 | 200 | L | | 9.1 | 0.32 J | 2.1 | 83 | 0.10 U | -- | 0.10 U | 0.16 J | -- | 2.6 | 88 | 0.14 J | -- | 57 | 0.050 U | -- | 1.7 | 4.5 | 0.030 J | 0.20 U | **5.6** | 6.9 |
| S11A | S11A | 190 - 220 | 3/19/2014 | 200 | L | | 3.4 J | 0.078 J | 0.40 | 85 | 0.10 U | 320 | 0.019 J | 0.20 U | -- | 0.50 U | 10 U | 0.20 U | -- | 22 | 0.050 U | -- | 0.82 | 9.2 | 0.20 U | 0.20 U | **4.8** | 4.9 J |
| | | | 8/28/2014 | 200 | L | | 4.8 J | 0.040 J | 0.88 | 81 | 0.10 U | -- | 0.035 J | 1.2 | -- | 1.4 | 56 | 0.040 J | -- | 6.1 | 0.050 U | -- | 4.4 | 7.8 | 0.20 U | 0.20 U | **7.7** | 96 |
| IZ-1 | IZ-1 | 278 - 368 | 12/14/2006 | 6010 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/14/2006 | 6020 | | | -- | 0.26 J | 1.9 | 39.7 | 1 U | -- | 1 U | 0.53 J | 0.12 J | 0.84 J | 50 U | 1 U | -- | 70.7 | -- | 33 | 0.38 J | 6.7 | 1 U | 0.54 J | **7.6** | 10.4 |
| | | | 7/23/2007 | 6020 | | | -- | 1 U | 2.85 | 41.7 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | -- | 1 U | -- | -- | 0.5 U | 46.7 | 3.74 | 3.54 | 1 U | 1 U | **8.25** | 24.1 |
| | | | 1/15/2008 | 6010 | | | -- | 15 U | 10 U | 44.1 | 1 U | -- | 5 U | 5 U | 5 U | 5 U | -- | 10 U | -- | -- | 0.5 U | 38.4 | 5 U | 7.89 JB | 5 U | 15 U | **6.16** | 12.9 |
| | | | 8/28/2008 | 6020 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 | -- | -- | -- | -- |
| | | | 5/8/2012 | 200 | | | 5.0 U | 0.092 J | 2.2 | 47 | 0.10 U | -- | 0.036 J | 0.20 U | -- | 0.30 J | 130 | 0.017 J | -- | 200 | 0.050 U | -- | 0.34 J | 0.77 | 0.20 U | 0.20 U | **7.4** | 3.9 J |
| | | | 9/19/2013 | 200 | | | 3.7 J | 0.080 J | 2.3 | 45 | 0.042 J | 180 | 0.16 | 0.099 J | 0.36 | 0.34 J | 120 | 0.20 U | 36500 | 160 | 0.050 U | 36 | 2.9 | 1.0 | 0.20 U | 0.20 U | **6.8** | 0.94 J |
| IZ-2 | IZ-2 | 305 - 385 | 10/13/2006 | 6010 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/13/2006 | 6020 | | | -- | 2 U | 2.7 | 30 | 1 U | -- | 1 U | 0.43 J | 1 U | 1.1 J | 47 J | 1.1 | -- | 51.8 | -- | 33 | 0.27 J | 5.7 | 1 U | 1 U | **7.9** | 17.5 |
| | | | 1/12/2007 | 6020 | | | -- | 0.51 J | 4.8 | 35 | 1 U | -- | 1 U | 0.75 J | 0.13 J | 0.85 J | -- | 0.42 J | -- | -- | 0.2 U | 31 | 0.76 J | 3.2 | 1 U | 1 U | **12** | 18 |
| | | | 7/24/2007 | 6020 | | | -- | 1 U | 2.69 | 33.5 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | -- | 1 U | -- | -- | 0.5 U | 30 | 2.73 | 4.05 | 1 U | 1 U | **10** | 45.9 |
| | | | 1/9/2008 | 6010 | | | -- | 15 U | 10 U | 36.5 | 1 U | -- | 5 U | 5 U | 5 U | 1.93 JB | -- | 10 U | -- | -- | 0.5 U | 25.6 | 5 U | 15 U | 5 U | 15 U | **11.1** | 29.4 B |
| | | | 9/2/2008 | 6020 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.49 | -- | -- | -- | -- |
| | | | 5/7/2012 | 200 | | | 5.0 U | 0.074 J | 2.1 | 36 | 0.10 U | -- | 0.025 J | 0.084 J | -- | 0.50 U | 96 | 0.20 U | -- | 31 | 0.050 U | -- | 0.14 J | 5.0 | 0.20 U | 0.20 U | **13** | 1.4 J |
| | | | 9/18/2013 | 200 | | | 2.4 J | 0.069 J | 2.1 | 34 | 0.10 U | 130 | 0.13 | 0.16 J | 0.25 | 0.36 J | 95 | 0.20 U | 34100 | 27 | 0.060 U | 27 | 1.8 | 6.3 | 0.20 U | 0.20 U | **13** | 5.0 U |
| IZ-East | IZ-East | 288 - 385 | 10/2/2006 | 6010 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 10/2/2006 | 6020 | | | -- | 0.34 J | 1.4 | 104 | 1 U | -- | 1 U | 2 | 0.18 J | 8.9 | 50 U | 0.25 J | -- | 3.8 | -- | 16.4 | 0.68 J | 11.3 | 1 U | 0.52 J | **6.6** | 50.2 |
| | | | 1/26/2007 | 6020 | | | -- | 0.31 J | 1.9 | 110 | 1 U | -- | 1 U | 8.7 | 0.2 J | 1.3 J | -- | 0.14 J | -- | -- | 0.2 U | 15 | 2.9 | 13 | 1 U | 1 U | **7.2** | 12 |
| | | | 7/26/2007 | 6020 | | | -- | 1 U | 2.09 | 69.8 | 1 U | -- | 1 U | 2.53 | 1 U | 1.32 | -- | 1 U | -- | -- | 0.5 U | 14.1 | 5.38 | 13.1 | 1 U | 1 U | **6.56** | 42.3 J |
| | | | 7/26/2007 | 6020 | K | | -- | 1 U | 2.13 | 67.8 | 1 U | -- | 1 U | 2.63 | 1 U | 1.19 | -- | 1 U | -- | -- | 0.5 U | 14 | 5.09 | 12.7 | 1 U | 1 U | **6.32** | 78.9 J |
| | | | 1/10/2008 | 6010 | | | -- | 15 U | 10 U | 65.9 | 1 U | -- | 5 U | 5 U | 5 U | 5 U | -- | 10 U | -- | -- | 0.0806 J | 6.61 | 5 U | 13.4 UB | 5 U | 15 U | **5.77** | 51 |
| | | | 1/10/2008 | 6010 | K | | -- | 15 U | 10 U | 68.1 | 1 U | -- | 5 U | 5 U | 5 U | 5 U | -- | 10 U | -- | -- | 0.0758 J | 6.14 | 5 U | 16.4 UB | 5 U | 15 U | **5.69** | 47.3 |
| | | | 8/29/2008 | 6020 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 14.5 | -- | -- | -- | -- |
| | | | 8/29/2008 | 6020 | K | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13.9 | -- | -- | -- | -- |
| | | | 5/9/2012 | 200 | | | 5.0 U | 0.086 J | 1.1 | 58 | 0.10 U | -- | 0.10 U | 3.0 | -- | 0.50 U | 150 | 0.046 J | -- | 4.3 | 0.0040 J | -- | 1.1 | 13 | 0.20 U | 0.20 U | **6.9** | 1.4 J |
| | | | 9/20/2013 | 200 | | | 3.9 J | 0.081 J | 1.3 | 59 | 0.10 U | 210 | 0.054 J | 1.8 | 0.52 | 0.52 | 120 | 0.20 U | 46100 | 3.8 | 0.0060 J | 8.8 | 5.2 | 16 | 0.20 U | 0.20 U | **6.2** | 0.74 J |
| | | | 9/20/2013 | 200 | S | | 50 U | 6.0 U | 1.7 J | 51 J | 1.0 UJ | -- | 1.0 U | 0.18 J | 0.26 J | 1.6 J | 5.2 J | 5.0 U | -- | 4.6 J | 0.20 U | 8.0 | 7.1 J | 14 | 10 U | 1.0 U | **5.3** | 7.6 J |
| MZ-1 | MZ-1 | 180 - 220 | 12/20/2006 | 6010 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.2 U | -- | -- | -- | -- | -- | -- | -- |
| | | | 12/20/2006 | 6020 | | | -- | 0.37 J | 2.3 | 52.8 | 1 U | -- | 1 U | 3.7 | 0.16 J | 3.9 | 56 | 0.1 J | -- | 3.4 | -- | 15.2 | 1.3 J | 10.1 | 0.12 J | 1 U | **3.9 J** | 10.9 |
| | | | 7/20/2007 | 6020 | | | -- | 1 U | 2.35 | 59.7 | 1 U | -- | 1 U | 1.58 | 1 U | 1.8 | -- | 1 U | -- | -- | 0.5 U | 13.8 | 6.53 | 17.2 | 1 U | 1 U | **7.01** | 50.3 |
| | | | 1/15/2008 | 6010 | | | -- | 15 U | 10 U | 59.2 | 1 U | -- | 5 U | 5 U | 5 U | 2.85 J | -- | 10 U | -- | -- | 0.5 U | 10.1 | 5 U | 15 B | 5 U | 15 U | **5.52** | 208 |
| | | | 8/28/2008 | 6020 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 13.6 | -- | -- | -- | -- |
| | | | 5/8/2012 | 200 | | | 5.0 U | 0.10 J | 0.65 | 56 | 0.10 U | -- | 0.051 J | 1.7 | -- | 0.39 J | 170 | 0.060 J | -- | 1.9 | 0.013 J | -- | 0.78 J | 14 | 0.20 U | 0.20 U | **6.9** | 5.4 |
| | | | 9/19/2013 | 200 | | | 3.4 J | 0.065 J | 0.70 | 53 | 0.036 J | 210 | 0.091 J | 1.3 | 0.60 | 0.51 | 350 J | 0.20 U | 54300 | 7.4 J | 0.050 U | 11 | 5.1 | 15 | 0.20 U | 0.20 U | **5.7** | 1.7 J |
| MZ-2 | MZ-2 | 230 - 255 | 1/19/2007 | 6020 | | | -- | 0.39 J | 2.3 | 43.7 | 1 U | -- | 1 U | 2.1 | 0.2 J | 0.9 J | 89 | 0.42 J | -- | 1.1 | -- | 20 | 1.1 J | 7.7 | 1 U | 0.57 J | **6.7** | 10 U |
| | | | 7/25/2007 | 6020 | | | -- | 1 U | 1.76 | 86.3 | 1 U | -- | 1 U | 2.17 | 1 U | 1.25 | -- | 1 U | -- | -- | 0.5 U | 19.9 | 6.36 | 9.77 | 1 U | 1 U | **6.43** | 33.8 |
| | | | 1/9/2008 | 6010 | | | -- | 15 U | 10 U | 88 | 1 U | -- | 5 U | 5 U | 5 U | 3.06 JB | -- | 10 U | -- | -- | 0.5 U | 19.6 | 5 U | 15 U | 5 U | 15 U | **4.61 J** | 43.6 B |
| | | | 9/2/2008 | 6020 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 7.08 | -- | -- | -- | -- |
| | | | 5/7/2012 | 200 | | | 5.0 U | 0.19 J | 0.77 | 77 | 0.10 U | -- | 0.048 J | 2.8 | -- | 0.50 U | 78 | 0.20 U | -- | 1.3 | 0.050 U | -- | 0.40 J | 8.7 | 0.20 U | 0.20 U | **6.7** | 5.0 U |
| | | | 9/18/2013 | 200 | | | 4.8 J | 0.060 J | 0.83 | 73 | 0.10 U | 150 | 0.13 | 2.3 | 0.42 | 0.50 | 62 | 0.20 U | 53400 | 2.9 | 0.050 U | 20 | 3.6 | 9.0 | 0.20 U | 0.20 U | **6.2** | 5.0 U |
| MZ-3 | MZ-3 | 268 - 308 | 8/17/2007 | 6020 | | | -- | 1 U | 3.19 | 47.3 | 1 U | -- | 1 U | 1 U | 1 U | 1 U | 537 | 1 U | 53800 | 1.48 | -- | 17.3 | 5.42 | 7.63 | 1 U | 1 U | **7** | 24.9 |
| | | | 1/11/2008 | 6010 | | | -- | 15 U | 10 U | 56.4 | 1 U | -- | 5 U | 5 U | 5 U | 5 U | -- | 10 U | -- | -- | 0.0338 J | 15.7 | 5 U | 8.07 JB | 5 U | 15 U | **6.33** | 11.4 |
| | | | 8/27/2008 | 6020 | | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 6.58 | -- | -- | -- | -- |
| | | | 5/4/2012 | 200 | | | 5.0 U | 0.10 J | 1.3 | 50 | 0.10 U | -- | 0.029 J | 1.5 | -- | 0.50 U | 140 | 0.023 J | -- | 0.76 | 0.050 U | -- | 0.97 | 6.9 | 0.045 J | 0.20 U | **7.8** | 9.0 |
| | | | 5/4/2012 | 200 | | | 5.0 U | 0.075 J | 1.4 | 50 | 0.10 U | -- | 0.033 J | 1.5 | -- | 0.28 J | 140 | 0.032 J | -- | 0.85 | 0.050 U | -- | 1.1 | 7.9 | 0.20 U | 0.20 U | **8.1** | 10 |
| | | | 9/17/2013 | 200 | | | 3.0 J | 0.074 J | 1.6 | 46 | 0.10 U | 220 | 0.083 J | 1.4 | 0.41 | 0.60 | 97 | 0.20 U | 58000 | 1.1 J | 0.050 U | 16 | 4.4 | 8.1 | 0.20 U | 0.20 U | **7.7** | 5.1 |
| | | | 9/17/2013 | 200 | K | | 3.4 J | 0.071 J | 1.5 | 47 | 0.10 U | 230 | 0.085 J | 1.4 | 0.43 | 0.57 | 93 | 0.20 U | 58600 | 1.0 J | 0.050 U | 16 | 4.5 | 8.2 | 0.20 U | 0.20 U | **7.5** | 2.5 J |

Notes:
All concentrations are in micrograms per liter (ug/L).
MCL = California Maximum Containment Levels, unless otherwise noted with a symbo
-- = Analyte was not analyzed by laboratory
BOLD - indicates the analyte exceeded the California maximum contaminant level (MCL) or other limit provided at the top of the table beneath the respective compound
@ = Lead action level (Lead and Copper Rule
# = California Department of Public Health Drinking Water Notification Levels
Calcium, lithium, phosphorus, potassium, silicon, sodium, strontium, uranium are not typically analyzed and therefore, the results are not shown on this table
Ag = Silver; Al = Aluminum; As = Arsenic; Ba = Barium; Be = Beryllium; Cd = Cadmium; Cr = Chromium; Cu = Copper; Pb = Lead; Hg = Mercury; Mo = Molybdenum; Mn = Manganese; Ni = Nickel; Sb = Antomony; Tl = Thallium; V = Vandium; Zn = Zir
Co = Cobalt; Fe = Iron; Se = Selenium; Mg = Magnesium; B = Boron
ft bgs = feet below ground surface
J = Estimated concentration between method detection and reporting limits OR qualified during data validatio
U = Not detected at a concentration greater than the limit shown

# Table 4-8
## Analytical Summary
## Total Petroleum Hydrocarbons (TPH) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Gasoline | Diesel Fuel | Kerosene | Jet Fuel |
|---|---|---|---|---|---|---|---|---|---|
| MW7-1B | MW6-09UI2 | 380 - 420 | 8/14/2013 | 8015 | L | 100 U | 650 | 100 U | 500 U |
| | | | 2/11/2014 | 8015 | L | 100 U | 52 J | 100 U | 100 U |
| | | | 8/20/2014 | 8015 | L | 100 UJ | 100 U | 100 UJ | 500 U |
| MW7-1C | MW6-09LI | 435 - 450 | 8/14/2013 | 8015 | L | 100 U | 100 U | 100 U | 500 U |
| | | | 2/11/2014 | 8015 | L | 100 U | 46 J | 100 U | 100 U |
| | | | 8/20/2014 | 8015 | L | 100 UJ | 100 U | 100 UJ | 500 U |
| MW7-2A | MW6-22UI | 302 - 317 | 8/12/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 8/12/2013 | 8015 | L - K | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/12/2014 | 8015 | L | 100 U | 34 J | 100 U | 100 U |
| | | | 2/12/2014 | 8015 | L - K | 100 U | 100 U | 100 U | 100 U |
| | | | 8/27/2014 | 8015 | L | 100 U | 100 UJ | 100 UJ | 500 U |
| | | | 8/27/2014 | 8015 | L - K | 100 U | 100 UJ | 95 UJ | 480 U |
| MW7-2B | MW6-22LI1 | 348 - 358 | 8/12/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/13/2014 | 8015 | L | 100 U | 58 J | 100 U | 100 U |
| | | | 8/27/2014 | 8015 | L | 100 U | 100 UJ | 95 UJ | 480 U |
| MW7-2C | MW6-22LI2 | 380 - 390 | 8/13/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/12/2014 | 8015 | L | 100 U | 100 U | 100 U | 100 U |
| | | | 8/27/2014 | 8015 | L | 100 U | 100 UJ | 81 J | 500 U |
| MW7-2D | MW6-22D | 452 - 462 | 1/25/2013 | 8015 | | 100 UJ | 100 U | -- | 100 U |
| | | | 8/12/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/13/2014 | 8015 | L | 100 U | 78 J | 120 | 130 |
| | | | 8/28/2014 | 8015 | L | 52 J | 100 U | 100 U | 500 U |
| MW7-3A | MW6-23UI | 338 - 348 | 8/15/2013 | 8015 | L | 80 J | 66 J | 56 J | 500 U |
| | | | 2/14/2014 | 8015 | L | 100 U | 35 J | 100 U | 500 U |
| | | | 8/26/2014 | 8015 | L | 54 J | 100 UJ | 100 UJ | 500 U |
| MW7-3B | MW6-23LI | 434 - 444 | 8/16/2013 | 8015 | L | 100 U | 50 J | 75 J | 500 U |
| | | | 2/14/2014 | 8015 | L | 100 U | 69 J | 47 J | 500 U |
| | | | 8/26/2014 | 8015 | L | 100 UJ | 100 UJ | 61 J | 500 U |
| MW7-3C | MW6-23D | 490 - 500 | 1/31/2013 | 8015 | | 100 U | 130 | 100 U | 100 U |
| | | | 8/16/2013 | 8015 | L | 100 U | 140 | 65 J | 530 U |
| | | | 2/21/2014 | 8015 | L | 100 U | 220 J | 100 UJ | 500 UJ |
| | | | 8/26/2014 | 8015 | L | 100 UJ | 100 UJ | 100 UJ | 500 U |
| MW7-4A | MW6-24UI | 320 - 335 | 8/9/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/20/2014 | 8015 | L | 100 U | 67 J | 100 U | 500 U |
| | | | 8/25/2014 | 8015 | L | 100 UJ | 180 J | 120 J | 480 U |
| MW7-4B | MW6-24LI | 365 - 375 | 8/12/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/21/2014 | 8015 | L | 100 U | 120 | 70 J | 500 U |
| | | | 8/25/2014 | 8015 | L | 100 UJ | 100 UJ | 96 J | 480 U |
| MW7-5A | MW6-25UI | 338 - 348 | 8/19/2013 | 8015 | L | 100 U | 100 | 81 J | 500 U |
| | | | 2/14/2014 | 8015 | L | 100 U | 37 J | 37 J | 500 U |
| | | | 8/21/2014 | 8015 | L | 64 J | 100 UJ | 100 UJ | 500 U |
| MW7-5B | MW6-25LI | 388 - 398 | 8/19/2013 | 8015 | L | 100 U | 95 J | 110 | 500 U |
| | | | 2/14/2014 | 8015 | L | 100 U | 100 U | 100 U | 500 U |
| | | | 8/21/2014 | 8015 | L | 100 UJ | 100 UJ | 100 UJ | 500 U |
| MW7-6 | MW6-26UI | 362 - 372 | 8/9/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 8/9/2013 | 8015 | L - K | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/17/2014 | 8015 | L | 100 U | 290 | 74 J | 500 U |
| | | | 2/17/2014 | 8015 | L - K | 100 U | 280 | 79 J | 500 U |
| | | | 9/3/2014 | 8015 | L | 100 U | 100 U | 100 U | 500 U |
| | | | 9/3/2014 | 8015 | L - K | 100 U | 100 U | 100 U | 500 U |
| MW7-7A | MW6-27UI1 | 288 - 308 | 8/7/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/19/2014 | 8015 | L | 100 U | 51 J | 100 U | 500 U |
| | | | 7/24/2014 | 8015 | L | 100 U | 100 U | 95 U | 480 U |
| MW7-7B | MW6-27UI2 | 320 - 330 | 8/7/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/20/2014 | 8015 | L | 100 U | 85 J | 160 | 530 U |
| | | | 7/24/2014 | 8015 | L | 100 U | 100 U | 95 U | 480 U |
| MW7-7C | MW6-27LI1 | 347 - 362 | 8/8/2013 | 8015 | L | 74 J | 100 U | 100 U | 5000 U |
| | | | 2/18/2014 | 8015 | L | 89 J | 1200 | 1800 | 1500 |
| | | | 7/25/2014 | 8015 | L | 100 U | 2400 | 3200 | 2700 |

# Table 4-8
## Analytical Summary
## Total Petroleum Hydrocarbons (TPH) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Gasoline | Diesel Fuel | Kerosene | Jet Fuel |
|---|---|---|---|---|---|---|---|---|---|
| MW7-7D | MW6-27LI2 | 377 - 387 | 8/6/2013 | 8015 | L | 100 U | 100 U | 100 U | 25000 U |
| | | | 8/6/2013 | 8015 | L - K | 100 U | 100 U | 100 U | 25000 U |
| | | | 2/19/2014 | 8015 | L | 100 U | 33 J | 100 U | 500 U |
| | | | 2/19/2014 | 8015 | L - K | 56 J | 30 J | 100 U | 500 U |
| | | | 9/23/2014 | 8015 | | 66 J | 100 U | 100 U | 500 U |
| MW7-7E | MW6-27D | 434 - 444 | 8/5/2013 | 8015 | L | 100 U | 100 U | 100 U | 25000 U |
| | | | 2/20/2014 | 8015 | L | 100 U | 95 J | 100 U | 500 U |
| | | | 8/19/2014 | 8015 | L | 100 UJ | 270 | 170 J | 500 U |
| MW7-8A | MW6-28UI | 340 - 360 | 10/25/2013 | 8015 | L | 100 U | 45 J | 100 U | 500 U |
| | | | 2/10/2014 | 8015 | L | 100 U | 41 J | 100 U | 56 |
| | | | 9/3/2014 | 8015 | L | 100 U | 100 UJ | 100 UJ | 480 U |
| MW7-8B | MW6-28LI | 454 - 464 | 10/25/2013 | 8015 | L | 100 U | 95 J | 100 U | 500 U |
| | | | 2/10/2014 | 8015 | L | 100 U | 91 J | 100 U | 54 |
| | | | 9/3/2014 | 8015 | L | 100 U | 100 U | 95 U | 480 U |
| MW7-9A | MW6-29UI | 365 - 385 | 8/9/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/17/2014 | 8015 | L | 100 U | 380 | 100 U | 500 U |
| | | | 8/14/2014 | 8015 | L | 100 UJ | 98 J | 100 U | 500 U |
| MW7-9B | MW6-29LI | 412 - 432 | 8/8/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/17/2014 | 8015 | L | 100 U | 140 | 100 U | 500 U |
| | | | 8/14/2014 | 8015 | L | 100 UJ | 270 | 270 | 500 U |
| | | | 8/14/2014 | 8015 | L - K | 100 UJ | 220 | 200 | 500 U |
| MW7-9C | MW6-29D | 475 - 490 | 8/9/2013 | 8015 | L | 100 U | 100 U | 100 U | 5000 U |
| | | | 2/17/2014 | 8015 | L | 100 U | 180 | 100 U | 500 U |
| | | | 8/14/2014 | 8015 | L | 100 UJ | 1600 | 1100 | 1300 |
| MW7-10 | PMW-6 | 258 - 278 | 11/15/2013 | 8015 | | 100 U | 90 J | 80 JD | 85 |
| | | | 2/12/2014 | 8015 | L | 100 U | 53 J | 100 U | 100 U |
| | | | 2/12/2014 | 8015 | L - K | 100 U | 48 J | 100 U | 100 U |
| | | | 9/2/2014 | 8015 | L | 100 U | 100 U | 100 U | 500 U |
| | | | 9/2/2014 | 8015 | L - K | 100 U | 100 U | 100 U | 500 U |
| MW7-11A | PMW-7A | 390 - 410 | 2/18/2014 | 8015 | L | 100 U | 100 U | 100 U | 500 U |
| | | | 8/22/2014 | 8015 | L | 100 UJ | 100 UJ | 100 UJ | 500 U |
| MW7-11B | PMW-7B | 460 - 470 | 3/10/2014 | 8015 | L | 100 U | 44 J | 100 U | 500 U |
| | | | 8/22/2014 | 8015 | L | 100 UJ | 940 J | 870 J | 1100 |
| MW7-12A | PMW-8A | 390 - 410 | 2/13/2014 | 8015 | L | 100 U | 270 | 100 | 120 |
| | | | 9/5/2014 | 8015 | L | 100 U | 71 J | 100 UJ | 500 UJ |
| MW7-12B | PMW-8B | 460 - 470 | 2/13/2014 | 8015 | L | 100 U | 110 | 100 U | 100 U |
| | | | 9/5/2014 | 8015 | L | 100 U | 150 J | 100 UJ | 500 UJ |
| MW7-13A | PMW-5A | 303 - 313 | 3/28/2014 | 8015 | L | 100 U | 37 J | 100 U | 100 U |
| | | | 9/4/2014 | 8015 | L | 100 U | 100 UJ | 100 UJ | 500 UJ |
| MW7-13B | PMW-5B | 323 - 333 | 3/26/2014 | 8015 | L | 45 J | 42 J | 100 U | 100 U |
| | | | 9/4/2014 | 8015 | L | 100 U | 100 UJ | 95 UJ | 480 UJ |
| IZ-1 | IZ-1 | 278 - 368 | 1/15/2008 | 8015 | | 100 U | 100 U | -- | 100 U |
| | | | 5/8/2012 | 8015 | | 460 | 100 U | -- | 250 U |
| | | | 9/19/2013 | 8015 | | 100 U | 66 J | 93 J | 500 U |
| IZ-2 | IZ-2 | 305 - 385 | 1/9/2008 | 8015 | | 100 U | 100 U | -- | 100 U |
| | | | 5/7/2012 | 8015 | | 90 J | 100 U | 100 U | -- |
| | | | 9/18/2013 | 8015 | | 100 U | 89 J | 100 U | 500 U |
| IZ-East | IZ-East | 288 - 385 | 1/10/2008 | 8015 | | 100 U | 500 U | -- | 500 U |
| | | | 1/10/2008 | 8015 | K | 100 U | 500 U | -- | 500 U |
| | | | 5/9/2012 | 8015 | | 220 | 100 U | -- | 250 U |
| | | | 9/20/2013 | 8015 | | 99 J | 32 J | 100 U | 500 U |
| MZ-1 | MZ-1 | 180 - 220 | 1/15/2008 | 8015 | | 100 U | 100 U | -- | 100 U |
| | | | 5/8/2012 | 8015 | | 230 | 100 U | -- | 250 U |
| | | | 9/19/2013 | 8015 | | 100 U | 75 J | 100 U | 500 U |
| MZ-2 | MZ-2 | 230 - 255 | 1/9/2008 | 8015 | | 100 U | 100 U | -- | 100 U |
| | | | 5/7/2012 | 8015 | | 180 | 100 U | 100 U | -- |
| | | | 9/18/2013 | 8015 | | 100 U | 61 J | 85 J | 500 U |

# Table 4-8
## Analytical Summary
## Total Petroleum Hydrocarbons (TPH) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Other Well Names Previously Used | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Gasoline | Diesel Fuel | Kerosene | Jet Fuel |
|---|---|---|---|---|---|---|---|---|---|
| MZ-3 | MZ-3 | 268 - 308 | 1/11/2008 | 8015 | | 100 U | 100 U | -- | 100 U |
| | | | 5/4/2012 | 8015 | | 140 U | -- | -- | -- |
| | | | 5/4/2012 | 8015 | | 130 U | -- | -- | -- |
| | | | 5/9/2012 | 8015 | | -- | 100 U | -- | 250 U |
| | | | 5/9/2012 | 8015 | | -- | 100 U | -- | 250 U |
| | | | 9/17/2013 | 8015 | | 100 U | 52 J | 100 U | 500 U |
| | | | 9/17/2013 | 8015 | K | 100 U | 64 J | 54 J | 500 U |

Notes:
-- = Analyte was not analyzed or not reported by laboratory.
ft bgs = feet below ground surface
J = Estimated concentration between method detection and reporting limits OR qualified during data validation
U = Not detected at a concentration greater than the limit shown.
Sample Type:
K = Duplicate groundwater sample
L = Low Flow
L-K = Low Flow and Duplicate groundwater sample
D = Dilution

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | (+)-2-Bornanone | [1,1'-Bicyclopentyl]-2-one | 1,2,3-Trimethylbenzene A | 1,2-Benzisothiazole A | 1,3,5-Trimethylbenzene A | 15-Isobutyl-(13 alphaH)-isocopalane | 1H,3H-naphtho[1,8-CD]pyran-1-one | 1H-Benzotriazole, 5-methyl A | 1-Hexanol, 2-ethyl- | 1-Naphthalenecarboxaldehyde | 2-(2-Butoxyethoxy) acetic acid A | 2(3H)-Benzothiazolone | 2,2,6-Trimethyl-1-(2-methyl-cyclob-2-e | 2,4,6-Trimethyl-benzoicacid A | 2,4,7,9,-tetramethyl-5-decyn-4,7-diol A | 2,5,9-Tetradecatriene, 3,12-Diethyl- | 2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1, | 2,6,10,14,18,22-Tetracosahexane | 2,6,10,14,18-Pentamethyl-2,6,10,14,18-El |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.45 | -- | -- | -- | -- | -- |
| IZ-East LIZ1 | 324 - 342 | 7/24/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East UIZ | 288 - 310 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.81 | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.44 | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | 0.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E525.2 | L | -- | 0.53 | -- | -- | -- | 0.57 | -- | -- | -- | -- | -- | -- | -- | 1.0 | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | 0.41 | -- | 0.78 | 4.6 | -- | 1.0 | 0.51 | -- | -- | -- | -- | -- | -- | -- |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | (+)-2-Bornanone | [1,1'-Bicyclopentyl]-2-one | 1,2,3-Trimethylbenzene A | 1,2-Benzisothiazole A | 1,3,5-Trimethylbenzene A | 15-Isobutyl-(13 alphaH)-isocopalane | 1H,3H-naphtho[1,8-CD]pyran-1-one | 1H-Benzotriazole, 5-methyl A | 1-Hexanol, 2-ethyl- | 1-Naphthalenecarboxaldehyde | 2-(2-Butoxyethoxy) acetic acid A | 2(3H)-Benzothiazolone | 2,2,6-Trimethyl-1-(2-methyl-cyclob-2-e | 2,4,6-Trimethyl-benzoicacid A | 2,4,7,9,-tetramethyl-5-decyn-4,7-diol A | 2,5,9-Tetradecatriene, 3,12-Diethyl- | 2,5-Cyclohexadiene-1,4-dione, 2,6-bis(1, | 2,6,10,14,18,22-Tetracosahexane | 2,6,10,14,18-Pentamethyl-2,6,10,14,18-El |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-3B | 434 - 444 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3B | 434 - 444 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.29 | -- | -- | -- | 0.42 | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E525.2 | L | -- | -- | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.90 | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | 0.28 | 2.3 | 1.5 | -- | -- | 0.75 | 1.3 | -- | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | -- | 2.4 | 0.54 | -- | -- | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | 4.3 | -- | -- | 2.7 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.0 | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E525.2 | L | -- | -- | -- | 0.29 | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E525.2 | L | -- | -- | -- | -- | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E525.2 | L | 1.2 | -- | -- | -- | -- | -- | -- | -- | 7.2 | -- | -- | -- | 0.83 | -- | -- | 15 | 21 | 3.5 | 40 |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 | -- | -- | 0.69 | 0.78 | 1.5 | 1.6 |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.78 | -- | -- | 1.6 | 7.7 | -- | 3.6 | 8.4 | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E525.2 | N | -- | -- | -- | -- | -- | 0.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.28 | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | -- | 0.49 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 4.7 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | -- | 2.8 | -- | -- | 70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | 28-Nor-17.alpha.(H)-hopane | 2-Butoxy-ethanol A | 2-Methyl-(E)-4-decene A | 2-Methyl-2-dodecanol A | 2-Octanone A | 3,6,9,12-Tetraoxahexadecan-1-ol A | 4-Chloro-3-methylphenol | 4-Ethoxy-ethyl ester-benzoic acid A | 4-Methyl-1H-benzotriazole A | 5-Hexyldihydro-2(3H)-thiophenone A | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8- | 9-Octadecenamide, (z)- A | Acetophenone A | alpha-Phenylbenzenemethanol A | Benzeneacetic acid | Benzenesulfonamide, n-butyl | Benzoic acid | Benzoic acid, 3-methyl- A | Benzothiazole | Butanoic acid, 3-methyl A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.5 | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.1 | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | 0.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.4 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | -- | -- | 0.28 | 0.28 | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.29 | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ1 | 324 - 342 | 7/24/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East UIZ | 288 - 310 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.90 | -- | -- | -- | 25 | 0.28 | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.72 | -- | -- | -- | 0.56 | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.74 | -- | -- | -- | 1.2 | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.62 | -- | -- | -- | 1.5 | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.51 | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.88 | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E525.2 | L | -- | -- | -- | 0.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.28 | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | 2.5 |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.9 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 54 | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E525.2 | L | -- | 0.26 | -- | 0.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.89 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.79 | -- |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | 28-Nor-17.alpha.(H)-hopane | 2-Butoxy-ethanol A | 2-Methyl-(E)-4-decene A | 2-Methyl-2-dodecanol A | 2-Octanone A | 3,6,9,12-Tetraoxahexadecan-1-ol A | 4-Chloro-3-methylphenol | 4-Ethoxy-ethyl ester-benzoic acid A | 4-Methyl-1H-benzotriazole A | 5-Hexyldihydro-2(3H)-thiophenone A | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2,8- | 9-Octadecenamide, (z)- A | Acetophenone A | alpha-Phenylbenzenemethanol A | Benzeneacetic acid | Benzenesulfonamide, n-butyl | Benzoic acid | Benzoic acid, 3-methyl- A | Benzothiazole | Butanoic acid, 3-methyl A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-3B | 434 - 444 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3B | 434 - 444 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.26 | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 | -- | 0.51 | -- | -- | -- | -- | -- | -- | -- | 0.83 | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.41 | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E525.2 | L | -- | 1.2 | -- | 0.74 | -- | -- | -- | -- | -- | -- | -- | 0.73 | 3.7 | -- | -- | -- | 16 | 0.99 | 0.89 | 1.6 |
| MW7-5A | 338 - 348 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.56 | -- | 2.1 | -- | -- | -- | 22 | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.7 | -- | -- | -- | -- | -- | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E525.2 | L | -- | -- | -- | 0.88 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E525.2 | L | 41 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.5 | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L | 1.6 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L - K | -- | -- | -- | -- | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L | -- | -- | 0.63 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | -- | 2.1 | 1.2 | -- | -- | -- | 0.68 | -- | 7.2 | -- | 3.6 | -- | -- | 3.1 | -- | 1.7 |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.35 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.61 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Butanoic acid, ethyl ester A | Butoxyacetic acid A | Camphor | Capric acid A | Caprolactam | Chlorodifluoromethane | cis-Vaccenic acid A | Cyclododecane | Decanedioic acid, didecyl ester | Diphenyl sulfone | Diundecyl phthalate A | Dodecane A | Drometrizole | Eicosane | Ethanol, 2-(2-butoxyethoxy)- | Ethyl methacrylate A | Ethylbenzene | Heptanoic acid | Hexanoic acid, 2-ethyl- | Hexathiane A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.6 |
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.3 |
| MW7-14A | 270 - 285 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ1 | 324 - 342 | 7/24/2014 | E524.2 | N | -- | -- | -- | -- | -- | 1.8 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | 1.5 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | K | -- | -- | -- | -- | -- | 1.6 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East UIZ | 288 - 310 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | 1.7 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.40 | -- | -- | -- | 0.42 |
| MP20-2 | 336 - 346 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.35 | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.48 | -- | 0.46 | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.37 |
| MW7-1A | 350 - 370 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E525.2 | L | 0.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.38 |
| MW7-1C | 435 - 450 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.77 |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 12 | -- | -- | -- | -- | -- | -- | 1.5 | 2.2 | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.93 |
| MW6-10i | 336 - 356 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.60 |
| MW6-12i | 260 - 275 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.1 | 1.4 |
| MW6-13i | 246 - 261 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | 0.34 | -- | -- | -- | -- | -- | -- | -- | 0.94 | -- | -- | -- | -- | -- | -- | 0.29 |
| MW7-15A | 304 - 314 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.32 |
| MW7-2D | 452 - 462 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 |
| MW7-2B | 348 - 358 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.42 |
| MW7-2C | 380 - 390 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.42 |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.61 |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 |
| MW7-3C | 490 - 500 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.5 | 1.7 |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Butanoic acid, ethyl ester A | Butoxyacetic acid A | Camphor | Capric acid A | Caprolactam | Chlorodifluoromethane | cis-Vaccenic acid A | Cyclododecane | Decanedioic acid, didecyl ester | Diphenyl sulfone | Diundecyl phthalate A | Dodecane A | Drometrizole | Eicosane | Ethanol, 2-(2-butoxyethoxy)- | Ethyl methacrylate A | Ethylbenzene | Heptanoic acid | Hexanoic acid, 2-ethyl- | Hexathiane A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-3B | 434 - 444 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3B | 434 - 444 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.70 | 1.2 |
| MW7-3A | 338 - 348 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.96 |
| MW7-4B | 365 - 375 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.47 | -- | -- | -- | 3.6 | -- | -- | -- | 5.8 | 2.2 |
| MW7-4A | 320 - 335 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E525.2 | L | -- | 0.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.35 |
| MW7-5B | 388 - 398 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 | -- | -- | -- | 3.1 | 1.6 |
| MW7-5A | 338 - 348 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.0 | 3.5 |
| MW7-7C | 347 - 362 | 7/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | 1.1 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 6.3 | -- | -- | -- | -- | -- | -- | -- | -- | 7.5 | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.29 |
| MW7-8A | 340 - 360 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.5 |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L | -- | -- | 0.95 | -- | -- | -- | 0.48 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L - K | -- | -- | 1.2 | -- | -- | -- | 0.70 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.86 |
| MW7-9A | 365 - 385 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.56 |
| MW6-33 | 475 - 485 | 8/14/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E525.2 | N | -- | -- | -- | 1.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.6 | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 |
| MW7-13B | 323 - 333 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.55 |
| MW7-11A | 390 - 410 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.8 | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L - K | 0.40 | -- | -- | -- | -- | -- | -- | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.45 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.0 |
| S11A | 190 - 220 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | 7.0 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Homosalate A | Iridomyrmecin A | Maleic acid | Methyl N-amyl ketone | Methyl n-hexadecyl ketone A | N,N-diethyl-4-methyl-benzamide A | N-Hexadecane | Nonanal A | Nonanedioic acid A | Nonanoic acid | Octacosane | Octadecanoic acid | Octadecanoic acid A | Octanoic acid A | Oxybenzone A | Phenol, 4,4'-(1-methylethyli | Phenyl propanedioic acid A | Phthalic acid-di(2-propylpentyl) ester A | Phthalic anhydride | p-Xylene A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.51 | -- | -- | -- | -- | -- | -- | -- | 0.78 |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.53 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.58 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.51 | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ1 | 324 - 342 | 7/24/2014 | E524.2 | N | -- | -- | 0.63 BN | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | N | -- | -- | 0.61 BN | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | K | -- | -- | 0.64 BN | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East UIZ | 288 - 310 | 7/23/2014 | E524.2 | N | -- | -- | 0.66 BN | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E524.2 | N | -- | -- | 0.53 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E525.2 | N | -- | 1.6 | -- | -- | -- | 6.5 | -- | -- | -- | 2.1 | -- | -- | -- | 4.4 | 2.3 | -- | -- | -- | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 23 | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | 0.46 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | 0.40 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | 0.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Homosalate A | Iridomyrmecin A | Maleic acid | Methyl N-amyl ketone | Methyl n-hexadecyl ketone A | N,N-diethyl-4-methyl-benzamide A | N-Hexadecane | Nonanal A | Nonanedioic acid A | Nonanoic acid | Octacosane | Octadecanoic acid | Octadecanoic acid A | Octanoic acid A | Oxybenzone A | Phenol, 4,4'-(1-methylethyli | Phenyl propanedioic acid A | Phthalic acid-di(2-propylpentyl) ester A | Phthalic anhydride | p-Xylene A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-3B | 434 - 444 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3B | 434 - 444 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.4 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | 0.30 | -- | -- | -- | -- | -- | -- | 0.85 | -- | -- | 0.55 | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 5.6 | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | 0.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.0 | -- | -- | -- | -- | -- | -- | 1.5 | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E525.2 | L | -- | -- | -- | 1.8 | -- | -- | -- | -- | 56 | 17 | -- | 3.8 | 19 | -- | -- | -- | 4.1 | -- | 32 | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E524.2 | L | -- | -- | 0.61 BN | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.26 | 0.56 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E524.2 | L | -- | -- | 0.62 BN | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E525.2 | L | 0.62 | -- | -- | -- | -- | -- | -- | 0.30 | -- | -- | -- | 0.87 | -- | -- | 0.27 | -- | -- | -- | 1.0 | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.6 | -- | -- | -- | 8.6 | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.3 | -- | -- | -- | -- | -- | -- | 0.49 | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.8 | -- | -- | -- | -- | -- | -- | 0.49 | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.7 | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.44 | -- | 1.5 | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.38 | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.44 | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | 0.43 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | 0.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 21 | -- | -- | 14 | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L - K | -- | -- | -- | -- | 0.42 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.2 | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | 0.27 | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Squalene A | Sulfur dioxide (SO2) | Tetrachloro ethene | Tetradecane A | Tetradecano ic acid | Tridecane | tris(2-Chloroethyl) phosphate | Unidentified compound | UNKNOWN | Unknown 1 | Unknown 10 | Unknown 11 | Unknown 12 | Unknown 13 | Unknown 14 | Unknown 15 | Unknown 16 | Unknown 17 | Unknown 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.99 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L - K | -- | -- | 0.36 | -- | -- | -- | -- | -- | -- | 0.91 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E525.2 | L | -- | -- | 0.32 | -- | -- | -- | -- | -- | -- | 0.30 | 1.6 | 1.1 | 0.44 | 1.5 | 0.71 | 0.30 | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.52 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L - K | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | 0.38 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.47 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ1 | 324 - 342 | 7/24/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.84 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 4.9 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | 3.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East UIZ | 288 - 310 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | 0.31 | -- | -- | -- | -- | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E525.2 | N | -- | -- | 0.71 | -- | -- | -- | -- | -- | -- | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | 1.4 | -- | 0.36 Dup 0.27 | 0.29 | -- | 0.27 | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.35 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E525.2 | N | -- | -- | 0.61 | -- | -- | -- | -- | -- | -- | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.59 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.9 | -- | 52 | 11 | -- | -- | 2.7 | 1.5 | 2.8 | 32 |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.56 | 1.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.49 | 0.48 | -- | 0.29 | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.67 Dup 0.55 | 0.25 | -- | 2.6 | 1.4 | 0.53 | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.80 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.39 | 0.33 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.36 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L | -- | -- | 0.26 | -- | -- | -- | -- | -- | -- | 0.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L - K | -- | -- | 0.54 | -- | -- | -- | -- | -- | 0.96 Dup 0.33 | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 3 Dup 7.5 Dup | 0.42 | -- | 2.4 | 2.3 | 0.30 | -- | 1.8 | -- | -- | -- |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Squalene A | Sulfur dioxide (SO2) | Tetrachloro ethene | Tetradecane A | Tetradecano ic acid | Tridecane | tris(2-Chloroethyl) phosphate | Unidentified compound | UNKNOWN | Unknown 1 | Unknown 10 | Unknown 11 | Unknown 12 | Unknown 13 | Unknown 14 | Unknown 15 | Unknown 16 | Unknown 17 | Unknown 18 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-3B | 434 - 444 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.53 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3B | 434 - 444 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.31 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.50 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.70 Dup 0.26 | 0.54 | -- | 2.9 | 1.4 | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.0 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 2.1 | 2.4 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.55 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.77 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.85 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E524.2 | L | -- | 0.76 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 41 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 8.7 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.3 | -- | 19 | 5.2 | -- | -- | 3.4 | 2.5 | 6.6 | 1.8 |
| MW7-7A | 288 - 308 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.30 | 0.30 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E525.2 | L | -- | -- | 0.34 | -- | -- | -- | -- | -- | 0.33 | 0.27 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.51 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E525.2 | L | -- | -- | 0.62 | -- | -- | -- | -- | -- | 0.45 | 0.32 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E525.2 | L | -- | -- | 0.63 | -- | -- | -- | -- | -- | -- | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 1.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | Dup 46 Dup 8. | 0.81 | -- | 3.1 | 1.3 | -- | -- | 5.2 | 100 | 3.6 | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 140 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 34 Dup 0.45 | 0.75 | -- | 1.7 | 0.53 | -- | -- | 13 | 3.6 | 9.8 | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | 0.46 | 0.38 | -- | 0.80 | 11 | -- | -- | 1.0 | 1.5 | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 2.3 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.26 Dup 0.29 | 2.2 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | 1.6 | 0.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E525.2 | N | -- | -- | 0.66 | -- | -- | -- | -- | -- | -- | 0.68 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | N | -- | -- | 0.68 | -- | -- | -- | -- | -- | -- | 0.97 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | K | -- | -- | 0.65 | -- | -- | -- | -- | -- | -- | 1.1 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.26 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.58 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E525.2 | L | -- | -- | 0.40 | -- | -- | -- | -- | -- | -- | 0.53 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E525.2 | L | -- | -- | 0.39 | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E525.2 | L | -- | -- | -- | 0.33 | -- | 0.45 | -- | -- | 0.26 Dup 0.49 | 0.25 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L | -- | 0.81 N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | ı Dup 6.8 Dup | 0.99 | -- | 0.78 | 18 | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.56 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E525.2 | L | -- | -- | -- | 0.61 | -- | 0.39 | -- | -- | -- | 0.29 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | U | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 2.4 | 0.34 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | 0.28 | -- | -- | -- | -- | -- | -- | -- | -- | -- |

# Table 4-9
## Analytical Summary
## Tentatively Identified Compounds (TICs) in Groundwater
## Intermediate Zone Remedy
## Puente Valley Operable Unit

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Unknown 19 | Unknown 2 | Unknown 20 | Unknown 21 | Unknown 22 | Unknown 23 | Unknown 24 | Unknown 25 | Unknown 3 | Unknown 4 | Unknown 5 | Unknown 6 | Unknown 7 | Unknown 8 | Unknown 9 | Unknown Benzenamine Derivative A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L | -- | 0.29 | -- | -- | -- | -- | -- | -- | 0.53 | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-10 | 258 - 278 | 9/2/2014 | E525.2 | L - K | -- | 0.39 | -- | -- | -- | -- | -- | -- | 0.35 | 0.52 | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14A | 270 - 285 | 7/16/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14B | 306 - 316 | 7/16/2014 | E525.2 | L | -- | 2.9 | -- | -- | -- | -- | -- | -- | 2.3 | 1.9 | 1.4 | 1.0 | 1.9 | 1.8 | 1.8 | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-14C | 354 - 364 | 7/17/2014 | E525.2 | L | -- | 0.55 | -- | -- | -- | -- | -- | -- | 0.27 | 0.54 | 0.87 | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15B | 332 - 342 | 7/18/2014 | E525.2 | L - K | -- | 0.36 | -- | -- | -- | -- | -- | -- | 2.2 | 0.56 | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15C | 402 - 412 | 7/15/2014 | E525.2 | L | -- | 0.37 | -- | -- | -- | -- | -- | -- | 0.58 | 0.65 | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ1 | 324 - 342 | 7/24/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East LIZ2 | 375 - 385 | 7/23/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| IZ-East UIZ | 288 - 310 | 7/23/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-1 | 434 - 444 | 8/6/2014 | E525.2 | N | -- | 0.28 | -- | -- | -- | -- | -- | -- | 0.38 | 0.31 | 0.32 | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-2 | 336 - 346 | 8/6/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP20-3 | 288 - 298 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-2 | 435 - 445 | 8/7/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-3 | 365 - 375 | 8/7/2014 | E525.2 | N | -- | 0.32 | -- | -- | -- | -- | -- | -- | 0.46 | 0.48 | 0.28 | 0.40 | -- | 0.48 | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-4 | 320 - 330 | 8/26/2014 | E525.2 | N | -- | 0.72 | -- | -- | -- | -- | -- | -- | 0.40 | 0.33 | 0.30 | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MP21-5 | 245 - 255 | 8/26/2014 | E525.2 | N | -- | 0.26 | -- | -- | -- | -- | -- | -- | 0.26 | 0.47 | 0.27 | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1B | 380 - 420 | 8/20/2014 | E525.2 | L | -- | 0.79 | -- | -- | -- | -- | -- | -- | 2.2 | 0.93 | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1A | 350 - 370 | 8/19/2014 | E525.2 | L | -- | 0.49 | -- | -- | -- | -- | -- | -- | 1.7 | 0.48 | 0.70 | 0.30 | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-1C | 435 - 450 | 8/20/2014 | E525.2 | L | -- | 0.80 | -- | -- | -- | -- | -- | -- | 0.70 | 1.8 | 0.34 | 0.28 | 0.92 | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-5 | 354 - 364 | 8/8/2014 | E525.2 | N | 5.0 | 3.9 | 5.5 | -- | -- | -- | -- | -- | 5.5 | 1.6 | 2.5 | 14 | -- | 12 | -- | 1.6 |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-6 | 470 - 480 | 8/8/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW-6-1-7 | 594 - 604 | 8/8/2014 | E525.2 | N | -- | 0.39 | -- | -- | -- | -- | -- | -- | 1.9 | 0.58 | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10d | 539 - 554 | 8/18/2014 | E525.2 | L | -- | 0.47 | -- | -- | -- | -- | -- | -- | 0.32 | 2.4 | 0.54 | 0.37 | -- | 0.66 | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-10i | 336 - 356 | 8/18/2014 | E525.2 | L | -- | 0.35 | -- | -- | -- | -- | -- | -- | 0.26 | 1.6 | 0.26 | 0.31 | -- | 0.46 | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-12i | 260 - 275 | 8/29/2014 | E525.2 | L | -- | 0.37 | -- | -- | -- | -- | -- | -- | 0.58 | 0.34 | 0.31 | 4.0 | 4.5 | 0.72 | 0.52 | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-13i | 246 - 261 | 8/29/2014 | E525.2 | L | -- | 0.58 | -- | -- | -- | -- | -- | -- | 0.29 | 1.1 | 2.1 | 1.3 | 0.71 | 0.27 | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-15A | 304 - 314 | 9/2/2014 | E525.2 | L | -- | 0.34 | -- | -- | -- | -- | -- | -- | 1.3 | 0.39 | 0.58 | 0.31 | 0.38 | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2D | 452 - 462 | 8/28/2014 | E525.2 | L | -- | 0.30 | -- | -- | -- | -- | -- | -- | 0.44 | 0.25 | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2B | 348 - 358 | 8/27/2014 | E525.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | 0.44 | 0.91 | 0.25 | 2.4 | -- | 0.46 | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2C | 380 - 390 | 8/27/2014 | E525.2 | L | -- | 0.32 | -- | -- | -- | -- | -- | -- | 0.66 | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L | -- | 0.26 | -- | -- | -- | -- | -- | -- | 0.84 | 0.97 | 0.81 | 0.38 | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-2A | 302 - 317 | 8/27/2014 | E525.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | 0.33 | 0.28 | 0.25 | 0.68 | -- | 0.78 | 0.30 | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3C | 490 - 500 | 8/26/2014 | E525.2 | L | -- | 0.35 | -- | -- | -- | -- | -- | -- | 0.55 | 0.80 | 0.34 | 0.36 | -- | 0.25 | -- | -- |

**Table 4-9**
**Analytical Summary**
**Tentatively Identified Compounds (TICs) in Groundwater**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well | Screened Interval (ft bgs) | Sample Date | Analytical Method | Sample Type | Unknown 19 | Unknown 2 | Unknown 20 | Unknown 21 | Unknown 22 | Unknown 23 | Unknown 24 | Unknown 25 | Unknown 3 | Unknown 4 | Unknown 5 | Unknown 6 | Unknown 7 | Unknown 8 | Unknown 9 | Unknown Benzenamine Derivative A |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-3B | 434 - 444 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3B | 434 - 444 | 8/26/2014 | E525.2 | L | -- | 1.1 | -- | -- | -- | -- | -- | -- | 0.29 | 0.31 | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-3A | 338 - 348 | 8/26/2014 | E525.2 | L | -- | 1.8 | -- | -- | -- | -- | -- | -- | 0.28 | 0.26 | 0.54 | 0.39 | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4B | 365 - 375 | 8/25/2014 | E525.2 | L | -- | 0.26 | -- | -- | -- | -- | -- | -- | 0.47 | 0.25 | 1.2 | 1.6 | -- | 1.6 | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-4A | 320 - 335 | 8/25/2014 | E525.2 | L | -- | 0.30 | -- | -- | -- | -- | -- | -- | 0.63 | 1.1 | 2.1 | 0.60 | 0.66 | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5B | 388 - 398 | 8/21/2014 | E525.2 | L | -- | 37 | -- | -- | -- | -- | -- | -- | 0.95 | 0.81 | 5.0 | 0.89 | -- | 0.67 | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-5A | 338 - 348 | 8/21/2014 | E525.2 | L | -- | 0.28 | -- | -- | -- | -- | -- | -- | 0.30 | 0.63 | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L | -- | 6.2 | -- | -- | -- | -- | -- | -- | 1.1 | 0.28 | 0.27 | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-6 | 362 - 372 | 9/3/2014 | E525.2 | L - K | -- | 6.2 | -- | -- | -- | -- | -- | -- | 1.1 | 0.30 | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7E | 434 - 444 | 8/19/2014 | E525.2 | L | -- | 3.3 | -- | -- | -- | -- | -- | -- | 0.50 | -- | -- | -- | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7C | 347 - 362 | 7/25/2014 | E525.2 | L | 1.9 | -- | 10 | 12 | 2.2 | 2.3 | 3.1 | 5.0 | 3.3 | 3.2 | 8.2 | 65 | -- | 4.2 | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7A | 288 - 308 | 7/24/2014 | E525.2 | L | -- | 0.28 | -- | -- | -- | -- | -- | -- | 1.0 | 0.26 | 0.89 | 0.37 | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-7B | 320 - 330 | 7/24/2014 | E525.2 | L | -- | 0.46 | -- | -- | -- | -- | -- | -- | 0.46 | 0.82 | 0.31 | 0.44 | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8B | 454 - 464 | 9/3/2014 | E525.2 | L | -- | 0.26 | -- | -- | -- | -- | -- | -- | 0.40 | 1.0 | 3.3 | 0.28 | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-8A | 340 - 360 | 9/3/2014 | E525.2 | L | -- | 0.37 | -- | -- | -- | -- | -- | -- | 1.2 | 0.92 | 0.42 | 0.32 | 0.28 | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9C | 475 - 490 | 8/14/2014 | E525.2 | L | -- | 1.0 | -- | -- | -- | -- | -- | -- | 2.1 | 8.9 | 0.50 | 0.55 | -- | 1.1 | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L | -- | 16 | -- | -- | -- | -- | -- | -- | 2.9 | 0.78 | 0.40 | 13 | -- | 6.0 | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9B | 412 - 432 | 8/14/2014 | E525.2 | L - K | -- | 12 | -- | -- | -- | -- | -- | -- | 2.7 | 0.56 | 0.50 | 14 | -- | 34 | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-9A | 365 - 385 | 8/14/2014 | E525.2 | L | -- | 0.32 | -- | -- | -- | -- | -- | -- | 0.30 | 0.35 | 0.71 | 1.2 | -- | 0.30 | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-33 | 475 - 485 | 8/14/2014 | E525.2 | N | -- | 0.40 | -- | -- | -- | -- | -- | -- | 0.28 | 0.53 | 4.7 | 0.52 | -- | 1.2 | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-34 | 300 - 310 | 8/12/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E524.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-46 | 147 - 162 | 8/13/2014 | E525.2 | K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-55 | 250 - 265 | 8/11/2014 | E525.2 | N | -- | 0.34 | -- | -- | -- | -- | -- | -- | 0.52 | 0.40 | 0.26 | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E524.2 | N | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW6-56 | 120 - 130 | 8/15/2014 | E525.2 | N | -- | 0.43 | -- | -- | -- | -- | -- | -- | 0.30 | 0.76 | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13A | 303 - 313 | 9/4/2014 | E525.2 | L | -- | 0.32 | -- | -- | -- | -- | -- | -- | 0.32 | 0.60 | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-13B | 323 - 333 | 9/4/2014 | E525.2 | L | -- | 0.35 | -- | -- | -- | -- | -- | -- | 1.2 | 0.46 | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11A | 390 - 410 | 8/22/2014 | E525.2 | L | -- | 0.26 | -- | -- | -- | -- | -- | -- | 0.34 | 0.46 | 0.27 | 0.44 | -- | 0.55 | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L | -- | 1.2 | -- | -- | -- | -- | -- | -- | 1.4 | 1.2 | 1.1 | 1.2 | -- | 1.3 | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E524.2 | L - K | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-11B | 460 - 470 | 8/22/2014 | E525.2 | L - K | -- | 0.36 | -- | -- | -- | -- | -- | -- | 0.31 | 1.3 | 0.44 | 0.33 | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12A | 390 - 410 | 9/5/2014 | E525.2 | L | -- | 0.33 | -- | -- | -- | -- | -- | -- | 1.3 | 0.29 | 0.46 | 2.3 | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| MW7-12B | 460 - 470 | 9/5/2014 | E525.2 | L | -- | 0.44 | -- | -- | -- | -- | -- | -- | 2.0 | 0.45 | 0.27 | 0.47 | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E524.2 | L | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| S11A | 190 - 220 | 8/28/2014 | E525.2 | L | -- | 0.42 | -- | -- | -- | -- | -- | -- | 0.32 | 0.89 | 0.36 | -- | -- | -- | -- | -- |

**Table 4-9**
**Analytical Summary**
**Tentatively Identified Compounds (TICs) in Groundwater**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

Notes:
Units are in ug/L
-- = Analyte was not detected as a TIC.
ft bgs = feet below ground surface
K = Duplicate groundwater sample
L = Low Flow
L-K = Low Flow and Duplicate groundwater sample

**Table 4-10**
**Summary of Detections - 2014 Annual Comprehensive Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Analyte | Units | Number of Locations Sampled | Number of Locations with Detections | Percentage of Locations with Detections | Range of Reporting Limits of Non Detects (ug/L) | Range of Detected Concentrations (ug/L) | Location of Maximum Detect | Screening Level (ug/L) | Number of Locations exceeding Screening Level | Percentage of Detected Locations exceeding Screening Level | Screening Level Source |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,2-Trichloroethane | ug/L | 58 | 3 | 5.2% | 0.5 to 0.5 | 0.44 J to 0.66 | MW7-14B | 5 | 0 | 0% | CA Primary MCL |
| 1,1-Dichloroethane | ug/L | 58 | 27 | 47% | 0.5 to 0.5 | 0.12 J to 10 | MW7-14B | 5 | 5 | 19% | CA Primary MCL |
| 1,1-Dichloroethene | ug/L | 58 | 45 | 78% | 0.05 to 1 | 0.11 to 96 | MW7-14B | 6 | 16 | 36% | CA Primary MCL |
| 1,2-Dichloroethane | ug/L | 58 | 15 | 26% | 0.05 to 0.05 | 0.06 to 0.54 | MW7-7C | 0.5 | 3 | 20% | CA Primary MCL |
| 2-Butanone (Methyl ethyl ketone) (MEK) | ug/L | 58 | 4 | 6.9% | 5 to 5 | 0.87 J to 2.9 J | MW7-11B | | 0 | 0% | |
| 2-Hexanone | ug/L | 58 | 3 | 5.2% | 5 to 5 | 1.5 J to 4.4 J | MW7-4A | | 0 | 0% | |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | ug/L | 58 | 1 | 1.7% | 5 to 5 | 1 J to 1 J | MW7-11B | | 0 | 0% | |
| Acetone | ug/L | 58 | 18 | 31% | 5 to 5 | 1.2 J to 15 | MW7-11B, MW7-9C | | 0 | 0% | |
| Benzene | ug/L | 58 | 2 | 3.4% | 0.5 to 0.5 | 0.5 to 0.64 | MW7-7C | 1 | 0 | 0% | CA Primary MCL |
| Bromodichloromethane | ug/L | 58 | 1 | 1.7% | 0.5 to 0.5 | 0.12 J to 0.12 J | S11A | | 0 | 0% | |
| Carbon disulfide | ug/L | 58 | 3 | 5.2% | 0.5 to 0.5 | 0.18 J to 1 | MW7-3B | 160 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Carbon tetrachloride | ug/L | 58 | 7 | 12% | 0.05 to 0.05 | 0.1 to 0.45 | MW7-8B | 0.5 | 0 | 0% | CA Primary MCL |
| Chlorobenzene | ug/L | 58 | 1 | 1.7% | 0.5 to 0.5 | 0.24 J to 0.24 J | MW7-7C | | 0 | 0% | |
| Chloroform (Trichloromethane) | ug/L | 58 | 32 | 55% | 0.5 to 0.5 | 0.13 J to 2.8 | MW7-4A | | 0 | 0% | |
| Chloromethane (Methyl chloride) | ug/L | 58 | 1 | 1.7% | 0.5 to 0.5 | 0.23 J to 0.23 J | MW6-34 | 5 | 0 | 0% | CA Primary MCL |
| cis-1,2-Dichloroethene | ug/L | 58 | 30 | 52% | 0.5 to 0.5 | 0.11 J to 8.7 | MW7-14B | 6 | 3 | 10% | CA Primary MCL |
| Dichlorodifluoromethane (CFC-12) | ug/L | 58 | 5 | 8.6% | 0.5 to 0.5 | 0.13 J to 0.34 J | MW6-56, MW7-13A | 1000 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Ethylbenzene | ug/L | 58 | 2 | 3.4% | 0.5 to 0.5 | 0.61 to 0.67 | MW-6-1-7 | 300 | 0 | 0% | CA Primary MCL |
| Isopropyl alcohol | ug/L | 58 | 1 | 1.7% | 200 to 200 | 110 J to 110 J | MW6-46 | | 0 | 0% | |
| Methyl tert butyl ether (MTBE) | ug/L | 58 | 15 | 26% | 2 to 2 | 0.19 J to 1.3 J | MP20-3 | 13 | 0 | 0% | CA Primary MCL |
| Styrene | ug/L | 58 | 1 | 1.7% | 0.5 to 0.5 | 0.65 to 0.65 | MW-6-1-7 | 100 | 0 | 0% | CA Primary MCL |
| tert-Butyl alcohol | ug/L | 58 | 1 | 1.7% | 2 to 2 | 1.8 J to 1.8 J | MW7-3A | | 0 | 0% | |
| Tetrachloroethene | ug/L | 58 | 35 | 60% | 0.5 to 0.5 | 0.21 J to 51 | MW6-46 | 5 | 17 | 49% | CA Primary MCL |
| Toluene | ug/L | 58 | 19 | 33% | 0.5 to 0.5 | 0.19 J to 6.6 | MW7-9A, MW7-9C | 150 | 0 | 0% | CA Primary MCL |
| trans-1,2-Dichloroethene | ug/L | 58 | 5 | 8.6% | 0.5 to 0.5 | 0.14 J to 0.25 J | MW7-14B | 10 | 0 | 0% | CA Primary MCL |
| Trichloroethene | ug/L | 58 | 44 | 76% | 0.5 to 0.5 | 0.21 J to 50 | MW7-14A | 5 | 22 | 50% | CA Primary MCL |
| Trichlorofluoromethane (CFC-11) | ug/L | 58 | 29 | 50% | 0.5 to 0.5 | 0.18 J to 2.1 | MW7-14B | 150 | 0 | 0% | CA Primary MCL |
| Trifluorotrichloroethane (Freon 113) | ug/L | 58 | 10 | 17% | 5 to 5 | 0.29 J to 1.7 J | MW7-14A | 1200 | 0 | 0% | CA Primary MCL |
| Trihalomethanes | ug/L | 58 | 8 | 14% | 0.5 to 0.5 | 0.52 to 2.5 | MW7-10 | 80 | 0 | 0% | CA Primary MCL |
| 1,2,3-Trichloropropane | ug/L | 58 | 14 | 24% | 0.005 to 0.005 | 0.0024 J to 0.051 | MW7-10 | 0.005 | 10 | 71% | CA Department of Public Health Drinking Water Notification Level |
| 1,4-Dioxane | ug/L | 58 | 29 | 50% | 0.5 to 0.5 | 0.07 J to 21 | MW7-14B | 1 | 20 | 69% | CA Department of Public Health Drinking Water Notification Level |
| Chromium VI (hexavalent) | ug/L | 56 | 35 | 63% | 0.03 to 0.06 | 0.0081 J to 14 D | MW7-1A | 10 | 2 | 6% | proposed MCL |
| Nitrate as NO3 | ug/L | 58 | 54 | 93% | 500 to 2500 | 210 J to 110000 D | MW-6-1-6 | 45000 | 6 | 11% | CA Primary MCL |
| Nitrite (as N) | ug/L | 58 | 51 | 88% | 100 to 200 | 10 J to 2000 D | MW7-5B, MW7-8B | 1000 | 7 | 14% | CA Primary MCL |
| Nitrite/Nitrate | ug/L | 58 | 58 | 100% | 100 to 500 | 12 J to 24000 D | MW-6-1-6 | 10000 | 6 | 10% | CA Primary MCL |
| Perchlorate | ug/L | 58 | 53 | 91% | 0.1 to 0.1 | 0.049 J to 14 | MW7-12B | 6 | 16 | 30% | CA Primary MCL |
| Total dissolved solids (TDS) | ug/L | 58 | 58 | 100% | 10000 to 10000 | 200000 to 1200000 | MW6-46 | | 0 | 0% | |
| N-Nitrosodimethylamine | ng/L | 58 | 26 | 45% | 2 to 2 | 0.28 J to 10 | MW7-9B | 0.01 | 1 | 4% | CA Department of Public Health Drinking Water Notification Level |
| N-Nitrosomethylethylamine | ng/L | 51 | 7 | 14% | 2 to 2 | 0.28 J to 0.51 J | MW7-11B | | 0 | 0% | |
| N-Nitrosodiethylamine | ng/L | 58 | 23 | 40% | 2 to 2 | 0.73 J to 4.1 | MW7-15A | 100 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| N-Nitrosomorpholine | ng/L | 51 | 35 | 69% | 2 to 2 | 0.48 J to 23 | MW7-6 | | 0 | 0% | |
| N-Nitrosodi-n-butylamine | ng/L | 51 | 4 | 7.8% | 2 to 2 | 0.6 J to 0.69 J | MP21-4 | | 0 | 0% | |
| N-Nitrosopyrrolidine | ng/L | 51 | 1 | 2.0% | 2 to 2 | 0.72 J to 0.72 J | MW7-9B | | 0 | 0% | |
| Jet fuel | ug/L | 36 | 3 | 8.3% | 500 to 500 | 1100 D to 2700 | MW7-7C | | 0 | 0% | |
| Kerosene | ug/L | 36 | 11 | 31% | 95 to 500 | 35 JD to 3200 | MW7-7C | | 0 | 0% | |
| Diesel fuel | ug/L | 36 | 19 | 53% | 100 to 100 | 31 J to 2400 | MW7-7C | | 0 | 0% | |
| Gasoline | ug/L | 36 | 4 | 11% | 100 to 100 | 52 J to 66 J | MW7-7D | | 0 | 0% | |
| Atrazine | ug/L | 58 | 12 | 21% | 0.1 to 0.1 | 0.11 to 0.53 R | MW7-7B | 1 | 0 | 0% | CA Primary MCL |
| Aluminum (dissolved) | ug/L | 58 | 52 | 90% | 5 to 5 | 2.2 J to 13 | MW7-9B | 1000 | 0 | 0% | CA Primary MCL |
| Antimony (dissolved) | ug/L | 58 | 56 | 97% | 0.5 to 0.5 | 0.04 J to 0.39 J | MW7-1C | 6 | 0 | 0% | CA Primary MCL |
| Arsenic (dissolved) | ug/L | 58 | 57 | 98% | 0.4 to 0.4 | 0.15 J to 4.7 | MP21-3 | 10 | 0 | 0% | CA Primary MCL |
| Barium (dissolved) | ug/L | 58 | 58 | 100% | 0.5 to 0.5 | 6.1 to 160 | MW7-7A | 1000 | 0 | 0% | CA Primary MCL |
| Beryllium (dissolved) | ug/L | 58 | 2 | 3.4% | 0.1 to 0.1 | 0.016 J to 0.017 J | MW7-15B | | 0 | 0% | |
| Boron (dissolved) | ug/L | 36 | 36 | 100% | 10 to 10 | 39 to 290 | MW7-13A | 1000 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Cadmium (dissolved) | ug/L | 58 | 20 | 34% | 0.1 to 0.1 | 0.017 J to 0.16 | MW6-46 | 5 | 0 | 0% | CA Primary MCL |
| Chromium (dissolved) | ug/L | 58 | 50 | 86% | 0.2 to 0.2 | 0.028 J to 14 | MW7-1A | 50 | 0 | 0% | CA Primary MCL |
| Copper (dissolved) | ug/L | 58 | 52 | 90% | 0.5 to 0.5 | 0.053 J to 2.6 | MW7-15A | 1300 | 0 | 0% | CA Primary MCL/ Lead action level (Lead and Copper Rule) |
| Iron (dissolved) | ug/L | 58 | 37 | 64% | 10 to 10 | 1.3 J to 3000 | MW7-6 | | 0 | 0% | |
| Lead (dissolved) | ug/L | 58 | 30 | 52% | 0.2 to 0.2 | 0.024 J to 0.15 J | MP20-2, MP20-3 | 15 | 0 | 0% | CA Primary MCL/ Lead action level (Lead and Copper Rule) |
| Manganese (dissolved) | ug/L | 58 | 58 | 100% | 0.2 to 0.2 | 0.15 J to 420 | MW7-6 | 500 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Mercury (dissolved) | ug/L | 58 | 26 | 45% | 0.05 to 0.05 | 0.004 J to 0.029 J | MP20-3 | 2 | 0 | 0% | CA Primary MCL |
| Nickel (dissolved) | ug/L | 58 | 58 | 100% | 0.8 to 0.8 | 0.096 J to 4.9 | MW6-13i | 100 | 0 | 0% | CA Primary MCL |
| Selenium (dissolved) | ug/L | 58 | 52 | 90% | 0.4 to 0.4 | 0.083 J to 14 | MW7-14A | 50 | 0 | 0% | CA Primary MCL |
| Silver (dissolved) | ug/L | 58 | 36 | 62% | 0.2 to 0.2 | 0.013 J to 0.11 J | MP20-1 | | 0 | 0% | |
| Vanadium (dissolved) | ug/L | 58 | 55 | 95% | 0.5 to 0.5 | 0.27 J to 13 | MW6-13i | 50 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Zinc (dissolved) | ug/L | 58 | 56 | 97% | 5 to 5 | 0.59 J to 96 | S11A | | 0 | 0% | |
| Chloride | ug/L | 36 | 36 | 100% | 1200 to 5000 | 12000 D to 180000 D | MW7-8A | | 0 | 0% | |
| Sulfate | ug/L | 36 | 36 | 100% | 1200 to 5000 | 5300 D to 260000 D | MW7-13A | | 0 | 0% | |

Notes:
J - Estimated Value
ug/L - micrograms per Liter
NE - Not Established
NA - Not Applicable

**Table 4-11**
**Summary of Detections - Early 2014 Semi-Annual Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Analyte | Units | Number of Locations Sampled | Number of Locations with Detections | Percentage of Locations with Detections | Range of Reporting Limits of Non Detects (ug/L) | Range of Detected Concentrations (ug/L) | Location of Maximum Detect | Screening Level (ug/L) | Number of Locations exceeding Screening Level | Percentage of Detected Locations exceeding Screening Level | Screening Level Source |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1,1,2,2-Tetrachloroethane | ug/L | 51 | 1 | 2% | 0.05 to 0.05 | 0.37 to 0.37 | MP20-3 | | 0 | 0% | |
| 1,1,2-Trichloroethane | ug/L | 51 | 2 | 4% | 0.5 to 0.5 | 0.21 J to 0.46 J | MP20-3 | 5 | 0 | 0% | CA Primary MCL |
| 1,1-Dichloroethane | ug/L | 51 | 24 | 47% | 0.5 to 0.5 | 0.12 J to 7.8 | MW7-7C, MW7-7D | 5 | 3 | 13% | CA Primary MCL |
| 1,1-Dichloroethene | ug/L | 51 | 40 | 78% | 0.05 to 0.5 | 0.06 to 81 | MP20-3 | 6 | 14 | 35% | CA Primary MCL |
| 1,2-Dichloroethane | ug/L | 51 | 10 | 20% | 0.05 to 0.05 | 0.07 to 0.48 | MW7-7C | 0.5 | 0 | 0% | CA Primary MCL |
| 2-Butanone (Methyl ethyl ketone) (MEK) | ug/L | 51 | 2 | 4% | 5 to 5 | 1.1 J to 2.4 J | MW7-4B | | 0 | 0% | |
| 2-Hexanone | ug/L | 51 | 1 | 2% | 5 to 5 | 4.9 J to 4.9 J | MW7-7C | | 0 | 0% | |
| 4-Methyl-2-pentanone (Methyl isobutyl ketone) (MIBK) | ug/L | 51 | 1 | 2% | 5 to 5 | 0.74 J to 0.74 J | MW6-12i | | 0 | 0% | |
| Acetone | ug/L | 51 | 18 | 35% | 5 to 25 | 1.2 J to 47 J | MW7-7E | | 0 | 0% | |
| Benzene | ug/L | 51 | 3 | 6% | 0.5 to 0.5 | 0.2 J to 1.6 | MW7-7C | 1 | 1 | 33% | CA Primary MCL |
| Bromodichloromethane | ug/L | 51 | 1 | 2% | 0.5 to 0.5 | 0.1 J to 0.1 J | S11A | | 0 | 0% | |
| Carbon disulfide | ug/L | 51 | 6 | 12% | 0.5 to 0.5 | 0.13 J to 1.9 | MW7-6 | 160 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Carbon tetrachloride | ug/L | 53 | 8 | 15% | 0.05 to 0.05 | 0.09 to 0.75 | MW7-8B | 0.5 | 1 | 13% | CA Primary MCL |
| Chloroethane | ug/L | 51 | 2 | 4% | 0.5 to 0.5 | 0.17 J to 0.29 J | MW7-2A | | 0 | 0% | |
| Chloroform (Trichloromethane) | ug/L | 51 | 23 | 45% | 0.5 to 0.5 | 0.15 J to 2.7 | MW7-4A | | 0 | 0% | |
| cis-1,2-Dichloroethene | ug/L | 51 | 27 | 53% | 0.5 to 0.5 | 0.11 J to 10 | MP20-3 | 6 | 1 | 4% | CA Primary MCL |
| Cymene (p-Isopropyltoluene) | ug/L | 51 | 1 | 2% | 0.5 to 0.5 | 0.35 J to 0.35 J | MW6-10d | | 0 | 0% | |
| Dichlorodifluoromethane (CFC-12) | ug/L | 51 | 5 | 10% | 0.5 to 0.5 | 0.15 J to 0.42 J | MW6-56 | 1000 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Diisopropyl ether | ug/L | 51 | 1 | 2% | 0.1 to 0.1 | 0.29 to 0.33 | MW7-7D | | 0 | 0% | |
| Ethylbenzene | ug/L | 51 | 4 | 8% | 0.5 to 0.5 | 0.21 J to 0.24 J | MW6-10i | 300 | 0 | 0% | CA Primary MCL |
| Isopropyl alcohol | ug/L | 51 | 25 | 49% | 200 to 200 | 100 J to 200 | MW7-2A | | 0 | 0% | |
| m&p-Xylenes | ug/L | 51 | 6 | 12% | 0.5 to 0.5 | 0.33 J to 0.39 J | MW6-13i | 1750 | 0 | 0% | CA Primary MCL. MCL is for total xylenes |
| Methylene chloride | ug/L | 51 | 2 | 4% | 0.5 to 0.5 | 0.19 J to 0.58 | MW7-12A | 5 | 0 | 0% | CA Primary MCL |
| Naphthalene | ug/L | 51 | 2 | 4% | 0.5 to 0.5 | 2.4 to 2.9 | MW7-8B | 17 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| o-Xylene | ug/L | 51 | 4 | 8% | 0.5 to 0.5 | 0.33 J to 0.36 J | MW6-10i, MW6-13i | 1750 | 0 | 0% | CA Primary MCL. MCL is for total xylenes |
| tert-Butyl alcohol | ug/L | 51 | 7 | 14% | 2 to 2 | 0.91 J to 10 J | MW7-7C | | 0 | 0% | |
| Tetrachloroethene | ug/L | 51 | 38 | 75% | 0.5 to 5 | 0.21 J to 46 | MP20-3 | 5 | 16 | 42% | CA Primary MCL |
| Tetrahydrofuran | ug/L | 51 | 2 | 4% | 5 to 5 | 1.7 J to 3.1 J | MW6-10i | | 0 | 0% | |
| Toluene | ug/L | 51 | 24 | 47% | 0.5 to 0.5 | 0.15 J to 8 | MW7-1A | 150 | 0 | 0% | CA Primary MCL |
| trans-1,2-Dichloroethene | ug/L | 51 | 2 | 4% | 0.5 to 0.5 | 0.12 J to 0.2 J | MP20-3 | 10 | 0 | 0% | CA Primary MCL |
| Trichloroethene | ug/L | 51 | 36 | 71% | 0.5 to 0.5 | 0.23 J to 47 | MP20-3 | 5 | 17 | 47% | CA Primary MCL |
| Trichlorofluoromethane (CFC-11) | ug/L | 51 | 19 | 37% | 0.5 to 0.5 | 0.21 J to 2.8 | MP20-3 | 150 | 0 | 0% | CA Primary MCL |
| Trifluorotrichloroethane (Freon 113) | ug/L | 51 | 7 | 14% | 5 to 5 | 0.4 J to 0.74 J | MW7-8B | 1200 | 0 | 0% | CA Primary MCL |
| Trihalomethanes | ug/L | 51 | 10 | 20% | 0.5 to 0.5 | 0.5 to 2.7 | MW7-4A | 80 | 0 | 0% | CA Primary MCL |
| 1,2,3-Trichloropropane | ug/L | 97 | 11 | 11% | 0.005 to 0.005 | 0.0015 J to 0.053 | MW7-10 | 0.005 | 6 | 55% | CA Department of Public Health Drinking Water Notification Level |
| 1,4-Dioxane | ug/L | 51 | 24 | 47% | 0.5 to 0.5 | 0.26 J to 19 | MP20-3 | 1 | 15 | 63% | CA Department of Public Health Drinking Water Notification Level |
| Chromium VI (hexavalent) | ug/L | 32 | 17 | 53% | 0.03 to 0.03 | 0.0059 J to 2.1 | MW7-5B | 10 | 0 | 0% | CA Primary MCL |
| Nitrate as NO3 | ug/L | 32 | 27 | 84% | 500 to 5000 | 360 J to 71000 | MW7-10 | 45000 | 2 | 7% | CA Primary MCL |
| Perchlorate | ug/L | 51 | 47 | 92% | 0.1 to 0.1 | 0.021 J to 15 | MW7-9B | 6 | 15 | 32% | CA Primary MCL |
| Total dissolved solids (TDS) | ug/L | 31 | 31 | 100% | 10000 to 10000 | 200000 to 1100000 | MW7-2A | | 0 | 0% | |
| N-Nitrosodimethylamine | ng/L | 35 | 12 | 34% | 0.002 to 0.0022 | 0.00029 J to 0.065 | MW7-5B | 0.01 | 3 | 25% | CA Department of Public Health Drinking Water Notification Level |
| Jet fuel | ug/L | 18 | 1 | 6% | 500 to 500 | 1500 to 1500 | MW7-7C | | 0 | 0% | |
| Kerosene | ug/L | 31 | 8 | 26% | 100 to 110 | 37 J to 1800 | MW7-7C | | 0 | 0% | |
| Diesel fuel | ug/L | 31 | 28 | 90% | 100 to 100 | 30 J to 1200 | MW7-7C | | 0 | 0% | |
| Jet fuel | ug/L | 13 | 4 | 31% | 100 to 100 | 54 to 130 | MW7-2D | | 0 | 0% | |
| Gasoline | ug/L | 31 | 3 | 10% | 100 to 100 | 45 J to 89 J | MW7-7C | | 0 | 0% | |
| Atrazine | ug/L | 53 | 18 | 34% | 0.1 to 0.5 | 0.07 J to 0.46 | MW7-13B | 1 | 0 | 0% | CA Primary MCL |
| Benzo(a)pyrene | ug/L | 53 | 3 | 6% | 0.1 to 0.1 | 0.13 to 0.2 | MW7-9A | | 0 | 0% | |
| Benzo(b)fluoranthene | ug/L | 53 | 2 | 4% | 0.5 to 0.5 | 0.14 J to 0.19 J | MW7-9A | | 0 | 0% | |
| Benzo(g,h,i)perylene | ug/L | 53 | 1 | 2% | 0.5 to 0.5 | 0.22 J to 0.22 J | MW7-9A | | 0 | 0% | |
| Benzo(k)fluoranthene | ug/L | 53 | 2 | 4% | 0.5 to 0.5 | 0.13 J to 0.21 J | MW7-9A | | 0 | 0% | |
| bis(2-Ethylhexyl)phthalate (DEHP) | ug/L | 53 | 5 | 9% | 3 to 3 | 1.1 J to 7.7 | MW7-11B | 4 | 1 | 20% | CA Primary MCL |
| Caffeine | ug/L | 53 | 1 | 2% | 0.1 to 0.1 | 0.36 to 0.36 | MW7-15A | | 0 | 0% | |
| Carbophenothion | ug/L | 53 | 1 | 2% | 0.1 to 0.1 | 0.2 to 0.2 | MW7-9A | | 0 | 0% | |
| Dibenz(a,h)anthracene | ug/L | 53 | 2 | 4% | 0.5 to 0.5 | 0.16 J to 0.23 J | MW7-9A | | 0 | 0% | |
| Indeno(1,2,3-cd)pyrene | ug/L | 53 | 1 | 2% | 0.5 to 0.5 | 0.2 J to 0.2 J | MW7-9A | | 0 | 0% | |
| Metolachlor | ug/L | 53 | 1 | 2% | 0.1 to 0.1 | 0.15 to 0.15 | MW7-9A | | 0 | 0% | |
| Naphthalene | ug/L | 53 | 9 | 17% | 0.5 to 0.5 | 0.48 J to 1.5 | MW7-1C | 17 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Simazine | ug/L | 53 | 1 | 2% | 0.1 to 0.1 | 0.15 to 0.15 | MW7-9A | 4 | 0 | 0% | CA Primary MCL |
| Thiobencarb | ug/L | 53 | 1 | 2% | 0.1 to 0.1 | 0.15 to 0.15 | MW7-9A | | 0 | 0% | |
| Aluminum (dissolved) | ug/L | 32 | 28 | 88% | 5 to 5 | 2.5 J to 34 | MW7-8A | 1000 | 0 | 0% | CA Primary MCL |
| Antimony (dissolved) | ug/L | 32 | 29 | 91% | 0.5 to 0.5 | 0.044 J to 0.43 J | MW7-1C | 6 | 0 | 0% | CA Primary MCL |
| Arsenic (dissolved) | ug/L | 32 | 31 | 97% | 0.4 to 0.4 | 0.16 J to 3.8 | MW7-7E | 10 | 0 | 0% | CA Primary MCL |
| Barium (dissolved) | ug/L | 32 | 32 | 100% | 0.5 to 0.5 | 3.7 to 170 | MW7-7B | 1000 | 0 | 0% | CA Primary MCL |
| Beryllium (dissolved) | ug/L | 32 | 3 | 9% | 0.1 to 0.1 | 0.015 J to 0.12 | MW7-7D | | 0 | 0% | |
| Boron (dissolved) | ug/L | 32 | 32 | 100% | 1 to 1 | 38 to 320 | S11A | 1000 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Cadmium (dissolved) | ug/L | 32 | 12 | 38% | 0.1 to 0.1 | 0.019 J to 0.092 J | MW7-7D | 5 | 0 | 0% | CA Primary MCL |

**Table 4-11**
**Summary of Detections - Early 2014 Semi-Annual Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Analyte | Units | Number of Locations Sampled | Number of Locations with Detections | Percentage of Locations with Detections | Range of Reporting Limits of Non Detects (ug/L) | Range of Detected Concentrations (ug/L) | Location of Maximum Detect | Screening Level (ug/L) | Number of Locations exceeding Screening Level | Percentage of Detected Locations exceeding Screening Level | Screening Level Source |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Chromium (dissolved) | ug/L | 32 | 22 | 69% | 0.2 to 0.2 | 0.039 J to 4.7 | MW7-9A | 50 | 0 | 0% | CA Primary MCL |
| Copper (dissolved) | ug/L | 32 | 22 | 69% | 0.5 to 0.5 | 0.12 J to 1.6 J | MW7-2A | 1300 | 0 | 0% | CA Primary MCL/ Lead action level (Lead and Copper Rule) |
| Iron (dissolved) | ug/L | 30 | 28 | 93% | 10 to 16 | 1.1 J to 3600 | MW7-12A | | 0 | 0% | |
| Lead (dissolved) | ug/L | 32 | 15 | 47% | 0.2 to 0.2 | 0.025 J to 0.14 J | MW7-7D | 15 | 0 | 0% | CA Primary MCL/ Lead action level (Lead and Copper Rule) |
| Manganese (dissolved) | ug/L | 32 | 32 | 100% | 0.2 to 0.2 | 1.1 to 850 | MW7-13B | 500 | 1 | 3% | CA Department of Public Health Drinking Water Notification Level |
| Mercury (dissolved) | ug/L | 32 | 1 | 3% | 0.05 to 0.05 | 0.007 J to 0.007 J | MW7-8A | 2 | 0 | 0% | CA Primary MCL |
| Nickel (dissolved) | ug/L | 32 | 32 | 100% | 0.8 to 0.8 | 0.19 J to 5.8 | MW7-13B | 100 | 0 | 0% | CA Primary MCL |
| Selenium (dissolved) | ug/L | 32 | 31 | 97% | 0.4 to 0.4 | 0.083 J to 10 | MW7-5A | 50 | 0 | 0% | CA Primary MCL |
| Silver (dissolved) | ug/L | 32 | 8 | 25% | 0.2 to 0.2 | 0.014 J to 0.22 | MW7-7D | | 0 | 0% | |
| Thallium (dissolved) | ug/L | 32 | 1 | 3% | 0.2 to 0.2 | 0.086 J to 0.086 J | MW7-7D | | 0 | 0% | |
| Vanadium (dissolved) | ug/L | 32 | 29 | 91% | 0.5 to 0.5 | 0.2 J to 6.4 | MW7-10 | 50 | 0 | 0% | CA Department of Public Health Drinking Water Notification Level |
| Zinc (dissolved) | ug/L | 32 | 20 | 63% | 5 to 5 | 0.6 J to 27 | MW7-13B | | 0 | 0% | |
| Chloride | ug/L | 30 | 30 | 100% | 500 to 5000 | 12000 to 180000 | MW7-2A, MW7-8A | | 0 | 0% | |
| Sulfate | ug/L | 30 | 30 | 100% | 1200 to 5000 | 21000 to 260000 | MW7-13A, MW7-2A | | 0 | 0% | |

Notes:
J - Estimated Value
ug/L - micrograms per Liter
NE - Not Established
NA - Not Applicable

Table 4-12
Summary of Nondetect Volatile Organic Compounds
Intermediate Zone Remedy
Puente Valley Operable Unit

| VOC Compound | Annual 2014 | Early 2014 |
|---|---|---|
| 1,1,1,2-Tetrachloroethane | x | x |
| 1,1,1-Trichloroethane | x | x |
| 1,1,2,2-Tetrachloroethane | x | |
| 1,1-Dichloropropene | x | x |
| 1,2,3-Trichlorobenzene | x | x |
| 1,2,4-Trichlorobenzene | x | x |
| 1,2,4-Trimethylbenzene | x | x |
| 1,2-Dibromo-3-chloropropane (DBCP) | x | x |
| 1,2-Dibromoethane (Ethylene dibromide) | x | x |
| 1,2-Dichlorobenzene | x | x |
| 1,2-Dichloropropane | x | x |
| 1,3,5-Trimethylbenzene | x | x |
| 1,3-Dichlorobenzene | x | x |
| 1,3-Dichloropropane | x | x |
| 1,3-Dichloropropene (total) (dissolved) | x | x |
| 1,4-Dichlorobenzene | x | x |
| 2,2-Dichloropropane | x | x |
| 2-Chloroethyl vinyl ether | x | x |
| 2-Chlorotoluene | x | x |
| 2-Phenylbutane (sec-Butylbenzene) | x | x |
| 4-Chlorotoluene | x | x |
| Acetonitrile | | x |
| Acrolein | x | x |
| Acrylonitrile | x | x |
| Allyl chloride | x | x |
| Bromobenzene | x | x |
| Bromoform | x | x |
| Bromomethane (Methyl bromide) | x | x |
| Chlorobenzene | | x |
| Chlorobromomethane | x | x |
| Chloroethane | x | |
| Chloromethane (Methyl chloride) | | x |
| cis-1,3-Dichloropropene | x | x |
| Cymene (p-Isopropyltoluene) | x | |
| Dibromochloromethane | x | x |
| Dibromomethane | x | x |
| Diisopropyl ether | x | |
| Ethyl methacrylate | x | x |
| Hexachlorobutadiene | x | x |
| Iodomethane | x | x |
| Isopropyl benzene | x | x |
| Methyl acrylonitrile | x | x |
| Methyl methacrylate | x | x |
| Naphthalene | x | |
| N-Butylbenzene | x | x |
| Nitrobenzene | x | x |
| N-Propylbenzene | x | x |
| o-Xylene | x | |
| Pentachloroethane | x | x |
| Styrene | | x |
| tert-Amyl methyl ether | x | x |

Table 4-12
Summary of Nondetect Volatile Organic Compounds
Intermediate Zone Remedy
Puente Valley Operable Unit

| VOC Compound | Annual 2014 | Early 2014 |
|---|---|---|
| tert-Butyl ethyl ether | x | x |
| tert-Butylbenzene | x | x |
| Tetrahydrofuran | x | |
| trans-1,3-Dichloropropene | x | x |
| trans-1,4-Dichloro-2-butene | x | x |
| Vinyl acetate | x | x |
| Vinyl chloride | x | x |
| Total of VOCs Not Detected | 54 | 51 |

x = indicates compound was not detected

**Table 4-13**
**Summary Matrix of Trend Analysis - 2014 Annual Comprehensive Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well ID | 1,1-DCA | 1,1-DCE | 1,2,3-TCP | 1,2-DCA | 1,4-dioxane | bis(2-Ethylhexyl)phthalate (DEHP) | cis-1,2-DCE | Hex Chrome | Nitrate | PCE | Perchlorate | TCE | TDS | DEC | INC | NS | NA | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW6-33 | >50% ND (14) | >50% ND (14) | 100% ND (14) | 100% ND (14) | 100% ND (14) | 100% ND (10) | 100% ND (14) | >50% ND (4) | >50% ND (9) | NS (14) | >50% ND (13) | >50% ND (14) | NS (9) | 0 | 0 | 2 | 0 | 2 |
| MW6-34 | DEC (15) | DEC (15) | 100% ND (15) | 100% ND (15) | NS (15) | >50% ND (11) | DEC (15) | >50% ND (4) | NS (10) | NS (15) | NS (15) | DEC (15) | INC (10) | 4 | 1 | 4 | 0 | 9 |
| MW6-46 | NS (22) | DEC (22) | 100% ND (15) | >50% ND (22) | NS (15) | >50% ND (11) | DEC (22) | NS (4) | NS (13) | DEC (22) | INC (16) | DEC (22) | INC (13) | 4 | 2 | 4 | 0 | 10 |
| MW6-55 | 100% ND (22) | >50% ND (22) | 100% ND (12) | >50% ND (22) | 100% ND (12) | >50% ND (9) | 100% ND (22) | NA (3) | NS (10) | >50% ND (22) | >50% ND (11) | >50% ND (22) | DEC (10) | 1 | 0 | 1 | 1 | 3 |
| MW6-56 | NS (19) | DEC (19) | 100% ND (12) | >50% ND (19) | NS (12) | >50% ND (10) | DEC (19) | NA (2) | NS (11) | DEC (19) | INC (12) | DEC (19) | NS (11) | 4 | 1 | 4 | 1 | 10 |
| MP20-1 | >50% ND (14) | >50% ND (14) | 100% ND (14) | 100% ND (14) | 100% ND (9) | NA (1) | >50% ND (14) | NA (3) | NS (12) | >50% ND (14) | >50% ND (8) | >50% ND (14) | NS (12) | 0 | 0 | 2 | 2 | 4 |
| MP20-2 | >50% ND (19) | NS (19) | 100% ND (19) | 100% ND (19) | 100% ND (14) | 100% ND (6) | >50% ND (19) | NS (4) | NS (13) | >50% ND (19) | >50% ND (13) | >50% ND (19) | NS (13) | 0 | 0 | 4 | 0 | 4 |
| MP20-3 | DEC (21) | DEC (21) | >50% ND (21) | DEC (21) | INC (17) | >50% ND (7) | DEC (21) | >50% ND (5) | NS (15) | NS (21) | NS (17) | DEC (21) | NS (15) | 5 | 1 | 4 | 0 | 10 |
| MP21-2 | 100% ND (10) | 100% ND (10) | 100% ND (10) | 100% ND (10) | 100% ND (10) | NA (2) | >50% ND (10) | 100% ND (4) | >50% ND (9) | >50% ND (10) | >50% ND (8) | >50% ND (10) | NS (9) | 0 | 0 | 1 | 1 | 2 |
| MP21-3 | >50% ND (15) | NS (15) | 100% ND (15) | 100% ND (15) | >50% ND (15) | 100% ND (7) | NS (15) | 100% ND (4) | NS (10) | NS (15) | >50% ND (14) | NS (15) | NS (10) | 0 | 0 | 6 | 0 | 6 |
| MP21-4 | 100% ND (15) | >50% ND (15) | 100% ND (15) | 100% ND (15) | >50% ND (15) | >50% ND (7) | >50% ND (15) | >50% ND (4) | DEC (10) | NS (15) | NS (14) | NS (15) | NS (10) | 1 | 0 | 4 | 0 | 5 |
| MP21-5 | DEC (15) | DEC (15) | 100% ND (15) | 100% ND (15) | NS (15) | >50% ND (7) | DEC (15) | >50% ND (4) | NS (10) | DEC (15) | NS (14) | DEC (15) | NS (10) | 5 | 0 | 4 | 0 | 9 |
| MW-6-1-5 | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (1) | NA (2) | NA (3) | NA (3) | NA (3) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| MW-6-1-6 | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (1) | NA (2) | NA (3) | NA (3) | NA (3) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| MW-6-1-7 | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (1) | NA (2) | NA (3) | NA (3) | NA (3) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| MW6-10d | >50% ND (16) | >50% ND (16) | 100% ND (16) | 100% ND (16) | >50% ND (15) | >50% ND (8) | 100% ND (16) | NA (2) | NS (9) | 100% ND (16) | NS (14) | >50% ND (16) | DEC (9) | 1 | 0 | 2 | 1 | 4 |
| MW6-10i | INC (18) | INC (18) | >50% ND (18) | 100% ND (18) | INC (17) | >50% ND (8) | >50% ND (18) | >50% ND (5) | NS (10) | INC (18) | NS (17) | INC (18) | NS (10) | 0 | 5 | 3 | 0 | 8 |
| MW6-12i | 100% ND (15) | 100% ND (15) | 100% ND (15) | 100% ND (15) | 100% ND (15) | NS (9) | 100% ND (15) | NA (3) | >50% ND (8) | 100% ND (15) | >50% ND (14) | 100% ND (15) | DEC (8) | 1 | 0 | 1 | 1 | 3 |
| MW6-13i | 100% ND (15) | >50% ND (15) | >50% ND (16) | 100% ND (15) | >50% ND (16) | >50% ND (7) | >50% ND (15) | >50% ND (5) | INC (10) | NS (15) | >50% ND (15) | NS (15) | NS (10) | 0 | 1 | 3 | 0 | 4 |
| MW7-1A | 100% ND (16) | 100% ND (16) | 100% ND (16) | >50% ND (16) | 100% ND (15) | >50% ND (9) | 100% ND (16) | NS (7) | DEC (9) | 100% ND (16) | DEC (15) | >50% ND (16) | NS (9) | 2 | 0 | 2 | 0 | 4 |
| MW7-1B | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 13 | 13 |
| MW7-1C | NA (3) | NA (3) | NA (3) | NA (3) | 100% ND (4) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 12 | 12 |
| MW7-2A | NS (4) | NS (4) | 100% ND (4) | 100% ND (4) | NS (4) | NA (3) | NS (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 7 | 4 | 11 |
| MW7-2B | 100% ND (4) | NS (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | NA (3) | NS (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 5 | 4 | 9 |
| MW7-2C | 100% ND (4) | NS (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | NA (3) | NS (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 5 | 4 | 9 |
| MW7-2D | 100% ND (4) | NS (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 4 | 3 | 7 |
| MW7-3A | NS (4) | NS (4) | 100% ND (4) | 100% ND (4) | NS (4) | 100% ND (4) | NS (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 7 | 3 | 10 |
| MW7-3B | 100% ND (4) | NS (4) | 100% ND (4) | 100% ND (4) | >50% ND (4) | NA (3) | DEC (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 1 | 0 | 4 | 4 | 9 |
| MW7-3C | 100% ND (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | 100% ND (4) | NA (3) | NA (3) | >50% ND (4) | DEC (4) | >50% ND (4) | NA (3) | 1 | 0 | 0 | 3 | 4 |
| MW7-4A | NS (4) | NS (4) | NS (4) | NS (4) | NS (4) | NA (3) | NS (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 9 | 4 | 13 |
| MW7-4B | NS (4) | DEC (4) | NS (4) | DEC (4) | NS (4) | NA (3) | NS (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 2 | 0 | 7 | 4 | 13 |
| MW7-5A | NS (4) | NS (4) | 100% ND (4) | >50% ND (4) | NS (4) | 100% ND (4) | NS (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 7 | 3 | 10 |
| MW7-5B | 100% ND (4) | NS (4) | NS (4) | 100% ND (4) | NS (4) | NA (3) | 100% ND (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 6 | 4 | 10 |
| MW7-6 | >50% ND (4) | NS (4) | 100% ND (4) | 100% ND (4) | >50% ND (4) | >50% ND (4) | >50% ND (4) | NA (3) | NA (3) | NS (4) | NS (4) | NS (4) | NA (3) | 0 | 0 | 4 | 3 | 7 |
| MW7-7A | NS (5) | NS (5) | NS (5) | NS (5) | NS (5) | NA (2) | NS (5) | NA (3) | NA (3) | NS (5) | NA (3) | NS (5) | NA (3) | 0 | 0 | 8 | 5 | 13 |
| MW7-7B | NS (5) | NS (5) | NS (5) | NS (5) | NS (5) | NA (2) | NS (5) | NA (3) | NA (3) | NS (5) | NA (3) | NS (5) | NA (3) | 0 | 0 | 8 | 5 | 13 |
| MW7-7C | NS (5) | NS (5) | NS (5) | NS (5) | NS (5) | NA (3) | NS (5) | NA (3) | NA (3) | NS (5) | NA (3) | NS (5) | NA (3) | 0 | 0 | 8 | 5 | 13 |
| MW7-7D | DEC (4) | NS (4) | NS (4) | NS (4) | NS (4) | NA (3) | NS (4) | NA (3) | NA (3) | NS (4) | NA (3) | NS (4) | NA (3) | 1 | 0 | 7 | 5 | 13 |
| MW7-7E | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 13 | 13 |
| MW7-8A | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 13 | 13 |
| MW7-8B | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 13 | 13 |
| MW7-9A | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 13 | 13 |
| MW7-9B | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 13 | 13 |
| MW7-9C | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 13 | 13 |

**Table 4-13**
**Summary Matrix of Trend Analysis - 2014 Annual Comprehensive Groundwater Monitoring Event**
**Intermediate Zone Remedy**
**Puente Valley Operable Unit**

| Well ID | 1,1-DCA | 1,1-DCE | 1,2,3-TCP | 1,2-DCA | 1,4-dioxane | bis(2-Ethylhexyl)phthalate (DEHP) | cis-1,2-DCE | Hex Chrome | Nitrate | PCE | Perchlorate | TCE | TDS | DEC | INC | NS | NA | Total |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| MW7-10 | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | NA (3) | 0 | 0 | 0 | 13 | 13 |
| MW7-11A | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| MW7-11B | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| MW7-12A | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (1) | 0 | 0 | 0 | 13 | 13 |
| MW7-12B | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| MW7-13A | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| MW7-13B | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| MW7-14A | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (0) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | 0 | 0 | 0 | 13 | 13 |
| MW7-14B | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (0) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | 0 | 0 | 0 | 13 | 13 |
| MW7-14C | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | 0 | 0 | 0 | 13 | 13 |
| MW7-15A | 100% ND (16) | >50% ND (16) | 100% ND (16) | 100% ND (16) | 100% ND (15) | >50% ND (8) | 100% ND (16) | NA (3) | NS (9) | >50% ND (16) | NS (14) | >50% ND (16) | NS (9) | 0 | 0 | 3 | 1 | 4 |
| MW7-15B | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | 0 | 0 | 0 | 13 | 13 |
| MW7-15C | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | NA (1) | 0 | 0 | 0 | 13 | 13 |
| S11A | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | NA (2) | 0 | 0 | 0 | 13 | 13 |
| IZ-East LIZ1 | NS (4) | NS (4) | NS (4) | NS (4) | NS (4) | NA (0) | NS (4) | NA (0) | NA (0) | NS (4) | NA (0) | NS (4) | NA (0) | 0 | 0 | 8 | 5 | 13 |
| IZ-East LIZ2 | NS (4) | NS (4) | NS (4) | INC (4) | NS (4) | NA (0) | NS (4) | NA (0) | NA (0) | NS (4) | NA (0) | NS (4) | NA (0) | 0 | 1 | 7 | 5 | 13 |
| IZ-East UIZ | NS (4) | NS (4) | NS (4) | NS (4) | NS (4) | NA (0) | NS (4) | NA (0) | NA (0) | NS (4) | NA (0) | NS (4) | NA (0) | 0 | 0 | 8 | 5 | 13 |
| **Summary** | | | | | | | | | | | | | | | | | | |
| DEC | 4 | 6 | 0 | 2 | 0 | 0 | 6 | 0 | 2 | 3 | 2 | 5 | 3 | 33 | 12 | 173 | 397 | 615 |
| INC | 1 | 1 | 0 | 1 | 2 | 0 | 0 | 0 | 1 | 1 | 2 | 1 | 2 | 12 | | | | |
| NS | 13 | 19 | 10 | 7 | 17 | 1 | 15 | 3 | 12 | 24 | 18 | 21 | 13 | 173 | | | | |
| NA | 24 | 24 | 24 | 24 | 23 | 40 | 24 | 49 | 43 | 24 | 31 | 24 | 43 | 397 | | | | |
| Total | 42 | 50 | 34 | 34 | 42 | 41 | 45 | 52 | 58 | 52 | 53 | 51 | 61 | 615 | | | | |

| Symbol | Coding |
|---|---|
| DEC | Decreasing trend |
| INC | Increasing trend |
| NS | No significant trend |
| NA | Data insufficient to test for trend |
| 100% ND | No detections available |
| >50% ND | Less than half of the data are detections |
| | Analyte not quantified in well |

# Section 5
# Summary of Findings

The following sections provide a summary of the findings of the Early 2014 Semi-Annual and the 2014 Annual Events.

## 5.1 Groundwater Flow

Hydrographs, updated with depth to water measurements collected through the 2014 Annual Event, indicate that the piezometric heads in the UIZ, LIZ, and DZ measured in the 2014 Annual event were at a low point in the Basin water level cycle. Piezometric levels have been declining in the PVOU since January 2012. These declines are consistent with groundwater elevations at the San Gabriel Basin Key Well, which Watermaster monitors to establish the annual operating safe yield for the Basin. Water levels in the Key Well are presently near the lower bound of the operating range established by Watermaster for the San Gabriel Basin (MSGBW, 2013). Local weather station rainfall data indicate that total annual rainfall amounts in 2013 and through to the present are well below average.

Piezometric head contours for the UIZ indicate a general northwesterly direction of groundwater flow across the PVOU, changing to westerly-northwesterly directed flow in the area north and west of the active San Gabriel production wells B7C and B11B, and Suburban production well147-W3. There is a flattening of the UIZ piezometric surface in the vicinity of these active production wells and monitoring well piezometric head data indicate cones of depression in the LIZ1 and LIZ2, centered on the production wells. Cones of depression in the UIZ centered on B7C, B11B, and 147-W3 are inferred because these wells are known to be pumping in part from the UIZ. The magnitude and direction of the horizontal gradient in the UIZ, LIZ1, and LIZ2 at different locations within the PVOU based on calculations from water level elevations at selected wells are shown on Figures 4-9, 4-10, and 4-11, respectively.

Vertical gradients for wells in the PVOU, calculated using the March 2014 and August 2014 measurements, generally indicate a downward vertical gradient between the SZ, UIZ, LIZ1, LIZ2, and DZ. An exception to this was at well clusters MW7-4, MW7-7, MW7-13, and MW7-14, where an upward vertical gradient from LIZ to the UIZ was observed. An upward vertical from the DZ to the LIZ2 was also observed at MP21 and the MW6-1 and MW7-2 well clusters. Within the DZ, upward vertical gradients were observed at the MW6-1, MW6-3, MW6-4, and MW6-5 well clusters. In general, the upward vertical gradient observed at these well clusters was of lower magnitude than the typical downward vertical gradient that is seen between the SZ, UIZ, LIZ1, LIZ2, and DZ in other areas of the PVOU.

Vertical gradient directions were the same for a given well during the August 2013, March 2014, and 00August 2014 monitoring events but were typically of differing magnitudes. The magnitude of the vertical gradient appears to be highest during the summer months and lowest during the winter, which indicates a possible correlation between increased pumping rates during the summer and higher vertical gradients during the summer months.

## 5.2 Constituents of Concern

As presented in Table 4-10, PCE, TCE, and 1,1-DCE are the most commonly detected contaminants in the PVOU, and were detected in 35, 44, and 45 wells, respectively, out of 58 wells that were sampled

during the Annual 2014 event. Observed concentrations of these parameters exceeded their respective MCLs in 17, 22, and 16 wells of the 58 wells that were sampled, respectively.

1,4-Dioxane was detected in 29 out of 58 wells in August 2014 and exceeded the NL in 20 wells. 1,2,3-TCP was detected in 14 of 58 wells, and exceeded the NL of 0.005 µg/L in 10 of the wells in which the compound was detected. NDMA was detected in 26 wells out of 58 wells and exceeded the NL in 1 of the 58 wells sampled in August 2014.

For every compound that was detected during this event, Tables 4-10 and 4-11 present the percentage of wells in which the contaminant was detected, the wells with the maximum concentrations, the range of contaminant concentrations, and the percentage of wells exceeding regulatory criteria for the Early 2014 Semi-Annual and 2014 Annual Events, respectively.

Pie charts that show the relative concentrations of the key contaminants (PCE, TCE, 1,1-DCE, and 1,4-dioxane) in the PVOU are presented in Appendix K for the UIZ and LIZ. These figures present all the data collected for the UIZ and LIZ during the Annual 2014 event, including data from the SZ-North and SZ-South remedies. The size of each pie chart is a function of the log of the sum of the four key contaminant concentrations; although the size of the pies on each individual figure are then uniformly scaled such that the pies are generally of legible size. As a result, the contaminant concentrations may be quite different in pies of similar size on different figures. The pie charts provide a means of visualizing the "fingerprint" of contamination, and observing patterns that can be used to help distinguish different origins of contaminant releases.

Of the four key contaminants, in much of the UIZ, PCE and TCE generally predominate in most wells. However, 1,1-DCE is the predominant contaminant at several wells screened in the UIZ (e.g., Westbay well MP20-03, IZ-East, MW7-7A, and MW7-14A). In the LIZ, PCE and TCE are the principal contaminants in most wells; however, some of the wells with highest VOC concentrations in the LIZ have a TCE and 1,1-DCE fingerprint and are located near the B11B and 147-W3 production wells (e.g., IZ-East-LIZ1, MW7-7C, MW7-13B, and MW7-14B).

## 5.3 Plume Extent for Selected Contaminants

As discussed in Section 4.2.3, isoconcentration maps for PCE, TCE, 1,1-DCE, 1,4-dioxane, and 1,1-DCA in the UIZ and LIZ were prepared to evaluate the lateral extent of the plumes in these hydrostratigraphic units. Isoconcentration contours were generated for each parameter representing concentrations in multiples of the MCL. The PCE, TCE, and 1,4-dioxane plumes exceeding the MCL or NL for the UIZ have a broad areal extent throughout much of the MOV, extending west to well MW7-8A and north to well MW7-6 for TCE and 1,4-dioxane and to well MW7-7A for PCE. UIZ isoconcentration maps indicate that the 1,4-dioxane plume are more narrow than the VOC plume, extending from a narrow zone on Valley Boulevard northward and northwestward to wells MW7-7A and MW7-7B. The footprint of the 1,1-DCE plume at concentrations exceeding its MCL is much narrower than the PCE, TCE, and 1,4-dioxane footprints at 1x MCL or NL. Higher concentrations of PCE, at 5x MCL, are indicative of a plume extending from former Benchmark site northward to MP20 and another plume extending from the intersection of S. 9$^{th}$ Avenue and Proctor Avenue northwesterly to MW7-8A. 1,1-DCA exceeds the MCL in the UIZ in a much more limited area, extending from MP20 to IZ-East.

The LIZ isoconcentration maps indicate two areas where VOCs exceed their MCLs. The first area is centered around IZ-East and the MW7-14 well cluster with concentrations of PCE, TCE, 1,1-DCE, 1,4-dioxane, and 1,1-DCA exceeding 1x MCL in the area between MP20 and the MW7-13 and MW7-7 well

clusters. The other area extends from the vicinity of the former Benchmark site, with PCE and TCE exceeding at 1x MCL extending northwest to the vicinity of MP21. 1,1-DCE, 1,4-dioxane, and 1,1-DCA do not exceed their MCLs in this second plume.

## 5.4 Temporal Concentration Trends

Trend analysis indicates that six wells indicate an increasing trend for at least one compound and fourteen wells have a decreasing trend for at least one compound. The majority of the results show no significant trend.

MW6-10i showed an increasing trend for several compounds including PCE, TCE, 1,1-DCE, 1,4-dioxane, and 1,1-DCA. MP20-03 continued to show an increasing trend for 1,4-dioxane. Increasing trends were observed for perchlorate, TDS, and nitrate in only a few wells, including wells MW6-46 and MW6-56 for perchlorate and wells MW6-34 and MW6-46 for TDS and MW6-13i for nitrate. Decreasing trends were observed for PCE at 4 wells, TCE at 5 wells, 1,1-DCE at 6 wells, and 1,4-dioxane at 1 well.

The newly-installed wells have only been sampled a few times and, therefore, insufficient data are available for the trend analysis.

# Section 6
# Recommendations

The next groundwater monitoring event is proposed for February 2015. The proposed monitoring event will include a comprehensive, synoptic monitoring of water levels for all MOV wells coordinated with the SZ-North and SZ-South remedies. Wells should continue to be sampled using the same methods used during the 2014 Annual Event. A sampling plan describing the wells proposed for sampling and the sampling procedures will be provided for USEPA review approximately 30 days prior to sampling.

Based on a review of the results, no metals with the exception of hexavalent chromium have been detected above their respective regulatory limits in either the Early 2014 Semi-Annual Event or the 2014 Annual Event; and hexavalent chromium was only detected in 2 samples above the MCL of 10 µg/L during the 2014 Annual Event. Therefore, Northrop Grumman is requesting to reduce metals analysis from semi-annually in all wells to annually at selected wells (approximately ten percent of the wells sampled in an event). Additionally, SVOCs have not been detected in the majority of wells; therefore, Northrop Grumman is requesting to reduce the SVOC analysis list to include only DEHP. DEHP has historically been the only to SVOCs with detections above the MCL.

As discussed in the SAP (CDM Smith, 2013a), EDB and DBCP were being analyzed by USEPA Method 504.1 for a period of two years to demonstrate that these two analytes are not detectable at lower reporting limits in the IZ wells. After one year of monitoring (Early 2014 Semi-Annual and 2014 Annual Events), neither compound has been detected in any well. To complete the two years monitoring, analyses for these two compounds by USEPA Method 504.1 will continue through the 2015 Annual Event.

The laboratory has stated that the deionized water provided for equipment blanks cannot be guaranteed free of NDMA. The laboratory strives to ensure NDMA-free water, but contamination can occur from dust. Given the issue of NDMA can be present in the equipment blank water provided by the laboratory, Northrop Grumman is proposing the equipment blanks not be analyzed for NDMA or other N-nitrosoamine compounds and that instead the key contaminants, VOCs, and 1,4-dioxane be used for equipment blank analysis. Northrop Grumman also proposes removing TDS, chloride, and sulfate from the analyte list for equipment blank for the same reason. Currently, there is no need to change the field decontamination, purging, sampling, and preservation techniques and no changes are needed to the monitoring wells (such as rehabilitation, installation of new wells and/or rebuilding of well heads). These items will be revaluated prior to the next sampling event in February 2015. Any necessary changes will be discussed in the sampling plan.

# Section 7
# References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