TETRA TECH

December 4, 2014

United States Environmental Protection Agency
Region 9, Superfund Division
75 Hawthorne Street
San Francisco, California 94105-3901

Attention: Mr. Raymond Chavira

Subject: 2014 Annual Comprehensive Groundwater Monitoring Report
Puente Valley Operable Unit
Shallow Zone North of Puente Creek
San Gabriel Valley Superfund Site Area 4
Los Angeles County, California

Dear Mr. Chavira:

Please find enclosed:

- One hard copy and one electronic copy (CD) of the Tetra Tech response to the United States Environmental Protection Agency comments on the *Annual Groundwater Monitoring Report, Puente Valley Operable Unit, Shallow Zone North of Puente Creek, San Gabriel Valley Superfund Site Area 4, Los Angeles, County, California* dated April 24, 2014

- One hard copy and one electronic copy of the 2014 Annual Comprehensive Groundwater Monitoring Report.

If you have any questions or require additional information please do not hesitate to call the undersigned at (949) 809-5222.

Sincerely,
Tetra Tech

Scott Parsons

Scott Parsons
Principal Engineer

cc: Bradley Barquest, United Technologies Corporation (e-mail)
Mike Grigorieff /Kerang Sun, CH2M Hill (e-mail and 2 hard copy)

TETRA TECH
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December 3, 2014

United States Environmental Protection Agency
75 Hawthorne Street
San Francisco, California 94105

Attention: Mr. Raymond Chavira

Subject: Response to Comments
Evaluations of Baseline Groundwater Quality Data
Puente Valley Operable Unit
Shallow Zone North of Puente Creek
Los Angeles County, California

Dear Mr. Chavira:

At the request of the United States Environmental Protection Agency, Region 9 (EPA), CH2M HILL reviewed the *Annual Groundwater Monitoring Report, Puente Valley Operable Unit, Shallow Zone North of Puente Creek, San Gabriel Valley Superfund Site Area 4, Los Angeles, County, California,* (prepared for United Technologies Corporation (UTC)/Carrier Corporation (Carrier) by Tetra Tech, dated December 30, 2013, and provided their associated comments to UTC in a letter dated April 24, 2014.

The following presents each of the USEPA's comments, UTC's response to each of the USEPA's comments and UTC's action to address each of the comments as directed by the USEPA:

USEPA General Comment No. 1:
Revisions. The comments below should be addressed in the next GWMR; it is not necessary to revise and resubmit this document. Future GWMRs will also include new wells, changes in the conceptual hydrogeology model, assignment of wells to hydrostratigraphic units, and other changes.

UTC/Carrier Response to General Comment No. 1:
UTC/Carrier acknowledges this comment.

Action Taken in Response to General Comment No. 1:
The USEPA's comments are addressed in the 2014 Annual Groundwater Monitoring Report.

USEPA General Comment No. 2:
Organization. *The SZN Annual Groundwater Monitoring Report (AGWMR)* followed the outline provided by EPA for the Comprehensive (Yearly) Groundwater Monitoring Report in an email dated April 12, 2013. All of the outline components requested by EPA were included in the *SZN Annual Groundwater Monitoring Report.*

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UTC/Carrier Response to General Comment No. 2:
UTC/Carrier acknowledges this comment.

Action Taken in Response to General Comment No. 2:
No action required.

USEPA General Comment No. 3:
Consistent Names for Comprehensive Groundwater Monitoring Reports. The PVOU Shallow Zone North of Puente Creek (SZN), Shallow Zone South of Puente Creek (SZS), and Intermediate Zone (IZ) utilized different names for the annual comprehensive groundwater monitoring reports submitted to EPA for the two semi-annual monitoring events during 2013. In order to maintain consistently, EPA requests that the title of the future comprehensive groundwater monitoring report for the SZN be the Annual Comprehensive Groundwater Monitoring Report, PVOU Shallow Zone North Remedy.

UTC/Carrier Response to General Comment No. 3:
UTC/Carrier acknowledges this comment.

Action Taken in Response to General Comment No. 3:
The current (2014) and future comprehensive groundwater monitoring reports will be entitled "Annual Comprehensive Groundwater Monitoring Report, PVOU Shallow Zone North Remedy".

USEPA General Comment No. 4:
Distribution of GWMR. For future submittals of the *PVOU SZN Annual Comprehensive Groundwater Monitoring Report*, one hard copy should be sent to Tom Perina/CH2M HILL, Riverside and the second copy should be sent to John Dolegowski and Kerang Sun/CH2M HILL, Santa Ana, California to expedite review.

UTC/Carrier Response to General Comment No. 4:
UTC/Carrier acknowledges this comment.

Action Taken in Response to General Comment No. 4:
Given the recent departures of John Dolegowski and Tom Perina from CH2MHill, two hard copies of the *PVOU SZN Annual Comprehensive Groundwater Monitoring Report*, will be sent to Mike Grigorieff/Kerang Sun/CH2M HILL, Santa Ana, California to expedite review.

USEPA General Comment No. 5:
Data Included in Comprehensive GWMR. The 2013 GWMR focuses primarily on the mid-year groundwater monitoring event. In order to provide a summary of both the winter and mid-year Monitoring Events, EPA requests that the Request for Analysis Tables (or Sampling Work Plans) from both monitoring events be included in the Annual Comprehensive GWMR. A summary description of both monitoring events (dates, wells, analyses, and IDW disposal) should be included in the Comprehensive GWMR. The Comprehensive GWMR should include piezometric head contour maps for both monitoring events, and concentration contour, pie chart, and trend maps for the summer monitoring event. The summary of detected contaminants

should summarize the data from both sampling events. Tabular data summaries should include the water-level and water quality data from both events.

UTC/Carrier Response to General Comment No. 5:
UTC/Carrier acknowledges this comment. This response actions described below apply to the submittal of the current and future AGWMRs.

Action Taken in Response to General Comment No. 5:
The Request for Analysis (RFA) tables for the winter and mid-year monitoring events are provided as Appendix A of the 2014 AGWMR.

Summary descriptions of both monitoring events (dates, wells, and analyses) are provided as Sections 2.3.1 and 2.3.2 of the 2014 AGWMR.

Summary descriptions of IDW disposal for both monitoring events are provided as Sections 2.5.1 and 2.5.2 of the 2014 AGWMR.

Piezometric head contour maps for both monitoring events are provided as Figures 4 through 11 of 2014 AGWMR.

Contaminant distribution pie charts for the fall 2014 monitoring event are provided on Figure 2 of the 2014 AGWMR.

Contaminant concentration contour maps and trend analysis maps are provided as Figures 12 through 16 and Figures 17 through 27, respectively, of the 2014 AGWMR.

Detected contaminants are summarized for both monitoring events in Tables 6 and 7 of the 2014 AGWMR.

Water level data are summarized for both monitoring events in Table 3 of the 2014 AGWMR.

Water quality data are summarized for both monitoring events in Tables 8 through 11 of the 2014 AGWMR.

USEPA General Comment No. 6:
Links to Table of Contents. In the PDF file of the SZN AGWMR, please provide live links for each section heading, table, figure, and appendix listed in the Table of Contents to the corresponding location in the GWMR. This greatly increases the ease of access of information within the GWMR.

UTC/Carrier Response to General Comment No. 6:
UTC/Carrier acknowledges this comment.

Action Taken in Response to General Comment No. 6:
The AGWMR pdf file includes live links for each section heading, table, figure, and appendix listed in the Table of Contents to the corresponding location in the AGWMR.

USEPA General Comment No. 7:
Composite Plume Map(s). Add a composite plume map that shows that maximum VOC contamination extent in the shallow zone.

UTC/Carrier Response to General Comment No. 7:
UTC/Carrier acknowledges this comment.

Action Taken in Response to General Comment No. 7:
A composite plume map is provided as Figure 2 of the 2014 AGWMR.

USEPA General Comment No. 8:
Westernmost Plume Monitoring Program. Add a discussion about the Westernmost Plume monitoring program, monitoring results, and conclusions.

UTC/Carrier Response to General Comment No. 8:
UTC/Carrier acknowledges this comment.

Action Taken in Response to General Comment No. 8:
The Westernmost Plume monitoring program, monitoring results, and conclusions are discussed in Sections 1.2.1, 4.2.1.1, and 5.6, respectively.

USEPA General Comment No. 9:
Future Monitoring of MW-01B. The PCE concentration at MW-01B (screened from 85 ft – 95 ft bgs) exceeded the performance criteria (120 ug/L). MW-01B is located directly upgradient of shallow zone extraction wells S2A and S2B. This well should be closely watched in subsequent sampling events.

UTC/Carrier Response to General Comment No. 9:
UTC/Carrier acknowledges this comment.

Action Taken in Response to General Comment No. 9:
As acknowledged in previously submitted PVOU SZN groundwater monitoring reports the referenced PCE concentration of 120 ug/L (detected in August, 2013) in groundwater monitoring well MW-01B may be an indication of fugitive migration from one of the may uncontrolled sources at the mouth of the Puente Valley, which are not being addressed by the PVOU. Consistent with previous recommendations, UTC/Carrier will continue to monitor groundwater monitoring well MW-01B.

It is noted that PCE concentrations have decreased in groundwater monitoring well MW-01B since August 2013.

USEPA Detailed Review Comment No. 1:
Section 1.1.1, Page 1, Puente Valley Land Use. The AGWMR states that "The majority of the Puente Valley is highly industrialized, and is located primarily in the City of Industry." Although the City of Industry is primarily industrial land use, adjacent land use is residential.

UTC/Carrier Response to Detailed Review Comment No. 1:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 1:
Section 1.1.1 of the AGWMR states that a significant portion of the PVOU SZ Eastern plume extends beneath the residential portions of La Puente and unincorporated Los Angeles County.

USEPA Detailed Review Comment No. 2:
Section 1.1.2.1, Page 1, Groundwater Occurrence. Specify the date of the (measured) groundwater depth range of 60 ft to 120 ft bgs.

UTC/Carrier Response to Detailed Review Comment No. 2:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 2:
Section 1.1.2.2 states the range of the most current depth to water measurements in the PVOU SZ at the mouth of the Puente Valley, and provides the dates of those measurements.

USEPA Detailed Review Comment No. 3:
Section 1.1.3, page 2, Groundwater Contamination in the PVOU SZ at the MOV. Please provide a figure(s) that identify the PVOU SZ Eastern Plume, SZ Middle Plume, SZ Western Plume, and the SZ Westernmost Plume as well as the Mid-Valley Region, the area included in the PVOU SZ North of Puente Creek, the toe of the PVOU SZ Eastern Plume, and the reinjection area located at the toe of the SZ Eastern Plume.

UTC/Carrier Response to Detailed Review Comment No. 3:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 3:
The Mid-Valley Area is identified on Figure 1. The area included in the PVOU SZ North of Puente Creek, the toe of the PVOU SZ Eastern Plume, the reinjection area, the PVOU SZ Eastern Plume, the PVOU SZ Middle Plume, the PVOU SZ Western Plume, and the PVOU SZ Westernmost Plumes are identified on Figure 2.

USEPA Detailed Review Comment No. 4:
Section 1.1.4, Interim Remedies, page 3, fourth bullet. The SZN performance criteria is first introduced at this location. Comparisons to the PVOU SZN performance criteria are frequently used in the AGWMR, but never defined. Please provide a definition of the SZ performance criteria (10 times Maximum Contaminant Levels (MCLs)/Notification Levels (NLs)). in Section 1.1.4.

UTC/Carrier Response to Detailed Review Comment No. 4:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 4:
The PVOU SZ and PVOU IZ performance criteria are defined in Section 1.1.4 of the AGWMR.

USEPA Detailed Review Comment No. 5:

Section 1.1.4.3, Prior Remedial Design Activities. Please list the wells installed by UTC/Carrier for each of the individual bullets, including the Mid-Valley Deep Zone groundwater monitoring wells, the eight Westernmost Plume Area groundwater monitoring wells, the two Westernmost Plume Area groundwater monitoring wells, and the five Mid-Valley Area groundwater monitoring wells. List the dates of the five Mid-Valley Area groundwater monitoring events, and the five Westernmost Plume Area groundwater monitoring events.

UTC/Carrier Response to Detailed Review Comment No. 5:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 5:
The wells installed by UTC/Carrier for each of the individual bullets in Section 1.1.4.3, including the Mid-Valley Deep Zone groundwater monitoring wells, the eight Westernmost Plume Area groundwater monitoring wells, the two Westernmost Plume Area groundwater monitoring wells, and the five Mid-Valley Area groundwater monitoring wells are listed in parentheses at each bullet. The dates of the five Mid-Valley Area groundwater monitoring events, and the five Westernmost Plume Area groundwater monitoring events referenced in Section 1.1.4.3 are listed in parentheses at each bullet.

USEPA Detailed Review Comment No. 6:
Section 1.1.4.5, Toe of the PVOU SZ Eastern Plume Containment, page 7, paragraph 2. Change the phrase "to significantly alter background conditions at and/or downgradient from the reinjection zone" to "to significantly alter background water quality conditions at and/or downgradient of the reinjection zone."

UTC/Carrier Response to Detailed Review Comment No. 6:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 6:
The phrase has been modified as directed by the USEPA.

USEPA Detailed Review Comment No. 7:
Section 1.2.1 Summary of Remedy Monitoring Well Network. Please revise the description of the monitoring by adding subsections or paragraphs describing the Mid-Valley monitoring network and the Westernmost Plume monitoring network. And sentences to state that VCW-01 and VCW-03 are installed in the top portion of the IZ as vertical compliance monitoring wells for the SZ remedy. It is confusing to list the monitoring wells by aquifer zones without stating their purposes.

UTC/Carrier Response to Detailed Review Comment No. 7:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 7:
Section 1.2.1 includes subheadings to identify paragraphs describing the Mid-Valley monitoring network and the Westernmost Plume monitoring network. Section 1.2.1 includes the following sentence "wells VCW-01 and VCW-03 were installed in the top portion of the PVOU IZ as vertical compliance wells for the PVOU SZ remedy

USEPA Detailed Review Comment No. 8:
Section 1.2.1, Summary of Remedy Monitoring Well Network, page 9, last bullet. List the five wells sampled for the analytes required by Los Angeles Regional Water Quality Control Board (LARWQCB) Order No. R4-2007-0019. State that these five wells were sampled to assess background water quality conditions within the area from which groundwater will be extracted for the SZN Early Action. Clarify that in future sampling events, piezometers P-1U, P-1UM, P-1UL, and P-1L and monitoring wells MW8-1A through MW8-1D and MW8-2A through MW8-2D will be sampled to assess water quality conditions in the downgradient injection zone for the PVOU SZ North of Puente Creek Interim Remedy (formerly PVOU SZ Eastern Plume Early Action).

UTC/Carrier Response to Detailed Review Comment No. 8:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 8:
Section 1.2.1 includes a discussion on the baseline groundwater quality sampling that was performed during 2014 and the associated objectives.

USEPA Detailed Review Comment No. 9:
Section 2, Sampling Approach. UTC/Carrier has referenced the PVOU Shallow Zone Quality Assurance Project Plan (QAPP) and Sampling and Analysis Plan (SAP) dated 2005. EPA has previously requested that UTC/Carrier prepare an updated QAPP and SAP for the PVOU SZN. EPA requested that UTC prepare an updated QAPP and SAP for the PVOU SZN in an email dated 7/26/2013 from Ray Chavira/EPA to Scott Parsons/UTC/Carrier, and recently in an email dated 2/27/2014 along with EPA comments on the Groundwater Monitoring and Sampling Work Plan First Half 2014 for the PVOU Shallow Zone North Remedy (dated 27 January 2014). The 2/27/2014 email requested that the updated QAPP be submitted to EPA no later than April 30, 2014. This new QAPP (under review) should be referenced in future GWMRs.

UTC/Carrier Response to Detailed Review Comment No. 9:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 9:
The QAPP is referenced in Section 2.0.

USEPA Detailed Review Comment No. 10:
Section 2.2, Groundwater Sample Collection Methods, Page 12, first paragraph. The "purge and sample method" is not synonymous with the "low flow sampling method." Please rewrite this paragraph using the terms 3-volume purge sampling method and low-flow sampling method to distinguish between these two methods.

UTC/Carrier Response to Detailed Review Comment No. 10:
UTC/Carrier acknowledges this comment, and notes that "purge and sample method" were not used synonymously or defined as being synonymous.

Action Taken in Response to Detailed Review Comment No. 10:
The term 3-volume purge sampling method is utilized in the 2014 AGWMR and will be utilized in future AGWMRs.

USEPA Detailed Review Comment No. 11:
Section 2.2.1, Field Parameters Measurements, page 13, third paragraph. The AGWMR text states that: "Since purging is not required in the Westbay multi-port monitoring wells, field parameters were not collected from the Westbay multi-port monitoring wells." EPA requests that field parameter be measured in the future sampling events if there is sufficient sample volume after filling the required sample bottles. The field parameters provide useful water quality data. The field parameters are not used just for evaluation of sufficient well purging prior to sample collection.

UTC/Carrier Response to Detailed Review Comment No. 11:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 11:
Field parameters were collected from the Westbay multi-port monitoring wells during both 2014 groundwater monitoring and sampling events, and will be collected during future groundwater monitoring and sampling events if there is sufficient sample volume after filling the required sample bottles.

USEPA Detailed Review Comment No. 12:
Section 2.2.2.2, Low Flow Purge and Sampling Method. Page 13, first paragraph. Please verify that the pump discharge tubing is disconnected from the flow-through cell prior to collection of groundwater samples.

UTC/Carrier Response to Detailed Review Comment No. 12:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 12:
Section 2.2.2.2 documents that the pump discharge tubing was disconnected from the flow-through cell prior to collection of groundwater samples.

USEPA Detailed Review Comment No. 13:
Section 3.1, Data Validation Methodology, page 17, first paragraph. The AGWMR refers to the following document for data validation review of inorganic analyses data: USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review, 2007 (NFG), and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, 1994. Please note that the most recent documents are the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-08-01, June 2008 and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review OSWER 9240.1-5, EPA 540-R-10-011, January 2010.

UTC/Carrier Response to Detailed Review Comment No. 13:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 13:

Section 3.1 references the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-08-01, June 2008 and USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review OSWER 9240.1-5, EPA 540-R-10-011, January 2010.

USEPA Detailed Review Comment No. 14:
Section 4.1, Groundwater Elevation Data, page 20. Please clarify whether the PVOU SZN water elevation monitoring event was coordinated with the PVOU SZ South and PVOU Intermediate Zone water level monitoring events. Also, the text indicates that water levels from 78 wells were collected. However, the SZ monitoring network has 70 wells. Please explain/specify the 8 additional wells.

UTC/Carrier Response to Detailed Review Comment No. 14:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 14:
Section 2.1 documents that both 2014 water elevation monitoring events were coordinated with Northrop Grumman, the PVOU SZ South and IZ work party. The monitoring well network is described in Section 2.1.

USEPA Detailed Review Comment No. 15:
Section 4.1.1, Hydrographs, Page 20. Figure 3 reference. Please specify the rainfall station used to demonstrate historical rainfall in the PVOU in the text.

UTC/Carrier Response to Detailed Review Comment No. 15:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 15:
The rainfall station used to demonstrate historical rainfall in the PVOU is defined in Section 4.1.1.

USEPA Detailed Review Comment No. 16:
Section 4.1.3.1, Calculated Hydraulic Gradients, Horizontal Gradients, page 21.

a. UTC/Carrier should verify whether the listed monitoring wells used to calculate the hydraulic gradients in the Upper SZ and Lower SZ are correctly identified. Two of the monitoring wells that were used to calculate the horizontal gradients within the Upper SZ and Lower SZ are listed as being in both the Upper SZ and Lower SZ (MW6-15, MW6-17). For the wells used to estimate the hydraulic gradient in the Lower SZ (Figure 5), some of the wells appear to be in the Upper SZ (MW6-18, MW6-17, and MW6-14).

b. Two of the wells used to estimate the horizontal hydraulic gradient in the northern portion of the Upper SZ (MW6-15, and MW6-17) do not appear to be located in the vicinity of the horizontal flow vector shown on Figure 4. The groundwater elevation for MW-15 (LCW-10) should be 217.93, not 210.90 ft amsl.

c. On the top of page 21, the AGWMR states that "The upper portion of the PVOU SZ (Figure 4) corresponds to the wells that are screened above or across slice 2 of the current PVOU numeric groundwater flow model. The lower portion of the PVOU SZ (Figure 5) corresponds to the wells that are screened between slices 2 and 4 of the current PVOU numeric groundwater flow model." UTC/Carrier should include a figure and a couple of cross sections that identify the zones (Upper SZ or Lower SZ) in which the PVOU SZ wells are screened, so that the reviewers can identify whether appropriate SZN monitoring wells have been selected to calculate the horizontal gradients in the Upper SZ and Lower SZ of the SZN.

UTC/Carrier Response to Detailed Review Comment No. 16:
UTC/Carrier acknowledges this comment. It is our understanding that USEPA and Northrop Grumman are collaborating to update the conceptual site model and numerical groundwater flow model by incorporating the PVOU IZ Remedial Design Investigation data and the PVOU SZ South of Puente Creek Remedial Design Investigation data. In light of these comments, UTC/Carrier respectfully repeats its request to be included in the discussions and other correspondences associated with the joint USEPA/NG effort to update the conceptual site model and numeric groundwater flow model. Hydraulic gradients were calculated utilizing our understanding of the CSM that is being developed by NG and the USEPA.

Action Taken in Response to Detailed Review Comment No. 16:

a. Monitoring wells MW6-19, MW6-09, MW-17D, MW-08, and MW-06 were utilized in the 2014 AGWMR to calculate groundwater gradients in the upper portion of the PVOU SZ. Based on our current understanding of the PVOU CSM that is being developed by NG and the USEPA, all of these wells are screened in the upper portion of the PVOU SZ. Monitoring wells MW6-18, MW6-15, MW6-17, MW6-11, MW6-14, MW6-13 were utilized in the 2014 AGWMR to calculate groundwater gradients in the lower portion of the PVOU SZ. Based on our current understanding of the PVOU CSM that is being developed by NG and the USEPA, all of these wells are screened in the lower portion of the PVOU SZ.

b. See response to Detailed Review Comment No. 16.a.

c. Cross-section Figure 16 had been modified as instructed by the USEPA to show upper and lower portions of the PVOU SZ and the PVOU IZ.

USEPA Detailed Review Comment No. 17:
Section 4.1.3.2, Vertical Gradients, Page 22, first paragraph. Please check the sentence: "Vertical gradient were calculated at multi-port wells MP-20 and MP-21, the MW6-6 well cluster, and the nested-piezometer P-1. The calculated gradients are summarized in table 5 and the table below." There is no table below this paragraph. Briefly state the procedure used to calculate the vertical gradients. Please use (a) the mid-point of well screen for each well that is screened below water level, and (b) midpoint between the bottom of screen and water level for each well screened across the water table as the vertical distance between piezometric heads for calculating the vertical gradients.

UTC/Carrier Response to Detailed Review Comment No. 17:

UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 17:
Section 4.1.3.2 of the 2014 AGWMR does not reference a "table below". The procedure used to calculate the vertical gradients is described in Section 4.1.3.2 of the 2014 AGWMR.

USEPA Detailed Review Comment No. 18:
Section 4.2.1.1, Summary of Detected Contaminants, Volatile Organic Compounds, page 22, first paragraph. The AGWMR should mention that Table 8 (Summary of Detections) provides a tabular summary of most of the information described in the bullets in this section. In each of the bullets in Section 4.2.1.1, the contaminant concentrations are reported to range from ND (not detected) to the maximum reported concentration. Whenever using the term ND, please provide the actual lowest reporting limit.

UTC/Carrier Response to Detailed Review Comment No. 18:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 18:
Contaminant detections are discussed in Section 5.2, 5.2.1 (First Half 2014), and 5.2.2 (Second Half 2014) of the 2014 AGWMR. Tables 6 and 7, which summarize the contaminant detections, are referenced in Section 5.2. The actual lowest reporting limit is provided with the term ND where appropriate.

USEPA Detailed Review Comment No. 19:
Section 5.4.4, 1,4-Dioxane Temporal Concentration Trends, page 39, second bullet. Delete the words "Mid-Valley Monitoring" at the end of this bullet.

UTC/Carrier Response to Detailed Review Comment No. 19:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 19:
This comment does not pertain to the 2014 AGWMR.

USEPA Detailed Review Comment No. 20:
Section 5.4.4 1,4-Dioxane Temporal Concentration Trends, page 39, last paragraph. The AGWMR text states that "The analytical results of groundwater samples collected from the Mid-Valley monitoring wells are summarized in Table 9 (VOCs, 1,4-dioxane, and perchlorate), and depicted on Figure 17." The perchlorate data are included in Table 9, but are not shown on Figure 17.

UTC/Carrier Response to Detailed Review Comment No. 20:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Detailed Review Comment No. 20:
This comment does not pertain to the 2014 AGWMR.

USEPA Figures Comment No. 14:
Figure 2, Monitoring Well Locations. Show and label the outlines of the four SZ groundwater plume areas, and the toe of the SZ Eastern Plume. In addition to the categories of wells shown on Figure 2 (Mid-Valley Monitoring Wells, Westernmost Plume Monitoring Wells, and Other Monitoring Wells), please add the additional categories of PVOU SZ wells: PVOU SZ Remedy extraction wells, SZ Sentinel Wells, SZ Compliance Wells, Westbay monitoring wells, monitoring wells/piezometers at the toe of the SZ Eastern Plume sampled in support of LARWQCB Order No. R4-2007-0019 to monitor groundwater reinjection, Mid-Valley SZ monitoring wells, Mid-Valley IZ monitoring wells, Mid-Valley PZ monitoring wells, and MOV SZ monitoring wells.

UTC/Carrier Response to Figures Comment No. 14:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 14:
The four SZ groundwater plume areas, and the toe of the SZ Eastern Plume are shown on Figure 2 of the 2014 AGWMR. Groundwater monitoring well locations and categories are shown on Figure 3.

USEPA Figures Comment No. 15:
Figures 4 and 5, Groundwater Elevation Contours, Upper PVOU SZ and Lower PVOU SZ - Second Half 2013. Show triangles connecting the well triplets used to calculated groundwater gradients. State the specific time period during which water level measurements were taken for Figures 4 and 5. Tetra Tech should compare their water level contour maps to those generated by CDM as part of their analysis of the mouth of Puente Valley for the SZS and IZ.

UTC/Carrier Response to Figures Comment No. 15:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 15:
Figures 4, 5, 9, and 10 of the 2014 AGWMR show triangles connecting the well triplets used to calculated groundwater gradients, and state the specific time period during which water level measurements were taken. Tetra Tech compared their water level contour maps to those generated by CDM (or other applicable NG contractor that performed the work) as part of their analysis of the mouth of Puente Valley for the SZS and IZ.

USEPA Figures Comment No. 16:
Figure 6, Groundwater Elevation Contours Mid-Valley Area PVOU IZ. It is noted that MW6-45 is screened in the LIZ whereas MW6-17i is screened in the UIZ. The contour lines generated using wells in different hydrostratigraphic units (HSUs) are misleading. MW6-46 is a UIZ well and its water level should be used instead.

UTC/Carrier Response to Figures Comment No. 16:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 16:

Tetra Tech utilized groundwater monitoring well MW6-46 as directed by the USEPA.

USEPA Figures Comment No. 17:
Figure 8 to 11, VOC Concentration Maps. The base map for the VOC concentrations (Figure 8 to 11) should separately label San Jose Creek and Puente Creek. Clarify in the Legend that the number in brackets for each well represents the well screen depth interval in feet below ground level and that the number in blue represents the VOC concentration in ug/L. A greater degree of accuracy for the lateral extent of the VOC plume south of Puente Creek can be incorporated into these figures by reviewing the Annual Groundwater Monitoring Report for the PVOU SZS. The groundwater elevation contours should be added to assess that the interpreted plume extent is consistent with flow of contaminated groundwater perpendicular to the lines of equal groundwater elevation.

UTC/Carrier Response to Figures Comment No. 17:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 17:
Puente Creek and San Jose Creek are labeled separately in the 2014 AGWMR figures. The 2014 AGWMR figure legends clarify that the number in brackets for each well represents the well screen depth interval in feet below ground level and that the number in blue represents the VOC concentration in ug/L. PVOU SZS data were incorporated into the plume contours. The composite plume map is shown on the groundwater elevation contour maps to assess that the interpreted plume extent is consistent with flow of contaminated groundwater perpendicular to the lines of equal groundwater elevation. The groundwater elevation contours are not shown on Figures 8 through 11 of the AGWMR to make the figures more readable.

USEPA Figures Comment No. 18:
Figure 8, Tetrachloroethene Isoconcentration Contours. The MCL contour should be extended to cover the P-1 well cluster, given the PCE concentration of 8.1 ug/L at P-1UM.

UTC/Carrier Response to Figures Comment No. 18:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 18:
This comment does not pertain to the 2014 AGWMR.

USEPA Figures Comment No. 19:
Figure 11, 1,-4-Dioxane Isoconcentration Contours. It appears that the 1-4-dioxane plume, specifically, the Eastern plume, is not supported by the data. The plume extent should be smaller.

UTC/Carrier Response to Figures Comment No. 19:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 19:
This comment does not pertain to the 2014 AGWMR.

USEPA Figures Comment No. 20:
Figure 12, Cross Section B-B'. Please add annotation to the cross section to identify the vertical extent of the Upper SZ and Lower SZ. Provide a reference to Figure 2 for the location of Cross Section B-B'.

UTC/Carrier Response to Figures Comment No. 20:
UTC/Carrier acknowledges this comment. It is our understanding that USEPA and NG are collaborating to update the conceptual site model and numerical groundwater flow model by incorporating the PVOU IZ Remedial Design Investigation data and the PVOU SZ South of Puente Creek Remedial Design Investigation data. In light of these comments, Tetra Tech respectfully repeats its request to be included in the discussions and other correspondences associated with the joint USEPA/NG effort to update the conceptual site model and numeric groundwater flow model.

Action Taken in Response to Figures Comment No. 20:
Figure 16 of the 2014 AGWMR identifies the vertical extent of the upper portion of the PVOU SZ and lower portion of the PVOU SZ based on our understanding of the conceptual site model that is being developed by NG and the USEPA. Figure 2 shows the location of cross Section B-B'.

USEPA Figures Comment No. 21:
Figures 13 to 16, Mann-Kendall Trend Analysis: PCE Second Half 2013 for PCE, TCE, 1,1-DCE, 1,4-Dioxane. Add the lateral extent of the respective SZ VOC contamination to Figure 13, so that the reader can easily assess the locations where the VOC concentrations are statistically increasing or decreasing relative to the known plume extent. For the eastern SZ plume, identify whether the wells are screened in the Upper SZ or Lower SZ. If any of the other wells are not screened in the SZ, then identify the hydrogeologic unit in which they are screened. Add the words "Shallow Zone" to the title so that it is clear to the reader that these figures show only wells screened in the PVOU SZ.

UTC/Carrier Response to Figures Comment No. 21:
UTC/Carrier acknowledges this comment. It is our understanding that USEPA and NG are collaborating to update the conceptual site model and numerical groundwater flow model by incorporating the PVOU IZ Remedial Design Investigation data and the PVOU SZ South of Puente Creek Remedial Design Investigation data. In light of these comments, Tetra Tech respectfully repeats its request to be included in the discussions and other correspondences associated with the joint USEPA/NG effort to update the conceptual site model and numeric groundwater flow model.

Action Taken in Response to Figures Comment No. 21:
The plume contours have been added to the 2014 AGWMR PCE, TCE, 1,1-DCE, and 1,4-dioxane Mann-Kendall maps (Figures 17 through 19, and Figure 22, respectively). Tables correlating well screen intervals to hydrogeological units including the lower portion of the PVOU SZ and the upper portion of the SZ have been added to Figures 17 through 22 of the 2014 AGWMR, and the associated figure titles make it clear to the reader that these figures show only wells screened in the PVOU SZ.

USEPA Tables Comment No. 22:
Table 1, Monitoring Well Construction Details: Please add the following information to Table 1 for each well: Well Installation Date (month/year if available); Dedicated Pump (Yes/ No); Pump type, diameter and depth of installed pump (e.g. submersible pump [2-inch diameter, 4-inch diameter], bladder pump).

UTC/Carrier Response to Tables Comment No. 22:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 22:
Table 1 of the 2014 AGWMR now includes well installation date (month/year if available), dedicated pump information and depth of installed pump (if available).

USEPA Tables Comment No. 23:
Table 2 Other Facility Monitoring Well Construction Details: It is suggested Table 2 be combined with Table 1, given that these wells are part of the SZ remedy monitoring network, specifically, the Westernmost Plume Monitoring Network. Also, the names of the four wells listed in this table and their X-coordinates have not been provided. Please add this information to Table 2.

UTC/Carrier Response to Tables Comment No. 23:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 23:
Table 2 has been combined with Table 1. The names of the four wells and their coordinates are provided in Table 1.

USEPA Tables Comment No. 24:
Table 5, Summary of Vertical Gradients for Cluster Wells Winter/Summer 2013: As stated in the comment for Section 4.1.2.2, please use the mid-point of each monitoring well to calculate the vertical gradient, not the bottom of the well screen Please add a column to Table 5 that indicates the hydrogeologic unit in which each of the wells is screened, so that it is clear if the vertical gradients are within or across the individual hydrostratigraphic units.

UTC/Carrier Response to Tables Comment No. 24:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 24:
The calculated vertical gradients are summarized in Table 4 of the 2014 AGWMR. The mid-point of each monitoring well had been used to calculate the vertical gradient. The column that indicates the hydrogeologic unit in which each of the wells is screened has been added to Table 4.

USEPA Tables Comment No. 25:
Table 6, Summary of Background Groundwater Quality Data: The header line for "Chlorinated Herbicides (EPA 515.3)" has been misspelled. Please correct this misspelling. Detected values in Table 6 should be shown in bold type to make them stand out more.

UTC/Carrier Response to Tables Comment No. 25:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 25:
This comment does not pertain to the 2014 AGWMR.

USEPA Tables Comment No. 21:
Table 7, Summary Matrix of Trend Analysis: Please modify the notes at the bottom of Table 7 to clarify that the numbers listed in the columns with the DEC, INC, and NT headers represent the total number of the 4 VOCs (i.e. PCE, TCE, 1,1-DCE, and 1,4-Dioxane) that have demonstrated statistically significant increases (INC), decreases (DEC), or no trend (NT) in VOC concentrations. Please add 1,1-DCA, cis-1,2-DCE, hexavalent chromium, nitrate, perchlorate, and TDS to the trend analysis if (or when) sufficient data are available.

UTC/Carrier Response to Tables Comment No. 21:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 21:
The Summary Matrix of Trend Analysis is presented in Table 5 of the AGWMR. The note at the bottom of Table 5 has been added to clarify that the numbers listed in the columns with the DEC, INC, and NT headers represent the total number of the 10 analytes (i.e. PCE, TCE, 1,1-DCE, 1,4-Dioxane, 1,1-DCA, cis-1,2-DCE, hexavalent chromium, nitrate, perchlorate, and TDS) that have demonstrated statistically significant increases (INC), decreases (DEC), or no trend (NT) in the concentrations.1,1-DCA, cis-1,2-DCE, hexavalent chromium, nitrate, perchlorate, and TDS have been added to the trend analysis.

USEPA Tables Comment No. 26:
Table 8, Summary of Detections Summer 2013: Add the units (ug/L) for the Range of Detected Concentrations to Table 8. The first column should be the total number of wells sampled for each chemical. The PVOU SZ Performance Level (10 x MCL/NL) and number of locations exceeding the SZ. Performance Level should be added as separate columns.

UTC/Carrier Response to Tables Comment No. 26:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 26:
The Summary of Detections for the Spring (First Half) 2014 and Fall (Second Half) 2014 sampling events are provided in the Table 6 and 7 of 2014 AGWMR, respectively. Separate columns have been added to the Table 6 and 7 to display the units, the total number of wells sampled for each chemical, and the PVOU SZ Performance level.

USEPA Tables Comment No. 27:
Table 8, Summary of Detections Summer 2013: Please add 1,1-DCA, cis-1,2-DCE, hexavalent chromium, nitrate, perchlorate, and TDS to the trend analysis if (when) sufficient data are available.

UTC/Carrier Response to Tables Comment No. 27:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 27:
Please see response to comment 21.

USEPA Comment No. 28:
Section 7.0, References: Many documents were referenced in Section 1.1.4 (Interim Remedies) that are not listed in the References. Please review Section 1.1.4 and add missing documents to the list of References

UTC/Carrier Response to Tables Comment No. 28:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 28:
Missing references were added to the References Section 7.0.

USEPA Appendices Comment No. 29:
Appendix G, Hydrographs:

a. Hydrograph for MW6-37. For the wells that were dry when sampled, please show the elevation of the well screen bottom and indicate so on the hydrographs. This comment is applicable to other water table wells such as MW16S, MW17S, MW18S, etc.
b. Oakite facility wells. It is noted that the well name on the hydrographs (e.g., MW-1 (Oakite Plume)) are different from those used in the summary tables. Please use consistent well IDs.
c. S-11A Hydrograph. The hydrograph for S-11A shows the rainfall data. Please make corrections.

UTC/Carrier Response to Tables Comment No. 29:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 29:

a. Hydrographs are provided as Appendix H of the 2014 AGWMR. For the wells that were dry when sampled the elevation of the well screen bottom is indicated on the hydrograph.
b. Consistent well IDs were used for Oakite facility wells on the hydrographs and the summary tables.
c. S-11A Hydrograph has been removed from Appendix H.

USEPA Comment No. 30:
Appendix H, S-11A, Water Level Elevation, Page 223 of pdf file: This figure is labeled to represent the water elevation data for S-11A is provided from 1939 to 2013. However, comparison of this figure to Figure 3 (annual rainfall totals, Covina, California, 1929 - 2013) indicates that this Appendix H graph displays the annual rainfall totals from 1929 to 2013, not the hydrograph data for well S11A.

UTC/Carrier Response to Tables Comment No. 30:

UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 30:
This comment does not pertain to the 2014 AGWMR.

USEPA Appendices Comment No. 31:
Appendix I, Contaminant Time Series Plots:

a. The same concentration range for the Y-axis (concentration of VOCs in ug/L) has been used for each figure in Appendix I. This results in a very compressed graph for most of the concentration values, thus making it illegible for many of the graphs. Please use logarithmic scale for concentrations.

b. Many of the wells within Appendix I have two names (e.g. MW6-18 [LCW-04]) and in the text, the well is most commonly referred by to the MW-series names. Please organize the wells in Appendix I by the MW-series names, not be by the LCW- or SW-series names, so that the reader can more easily locate graphs of the individual wells. Alternatively, modify the text so that the LCW-, SW-, and VCW-series wells are consistently referred by those names with the MW-series name following in brackets.

UTC/Carrier Response to Tables Comment No. 31:
UTC/Carrier acknowledges this comment.

Action Taken in Response to Figures Comment No. 31:

a. Contaminant Time Series Plots are provided as Appendix J of the 2014 AGWMR. A logarithmic scale has been applied to all time series plots as instructed by the USEPA.

b. All wells had been referenced by the names with the MW-series and were organized in Appendix J by the MW-series names.

I you have any questions or comments concerning the above; please contact either me or Brad Barquest (763) 432-5695.

Sincerely,

Scott Parsons

Scott Parsons
Tetra Tech

cc: Bradley Barquest, United Technologies Corporation (e-mail and 1 hard copy)
Mike Grigorieff /Kerang Sun, CH2M Hill (e-mail and 1 hard copy)
David Platt, United Technologies Corporation (e-mail and 1 hard copy)
Jack Krill, Kirkpatrick & Lockhart Preston Gates Ellis LLP (e-mail and 1 hard copy)

ANNUAL COMPREHENSIVE GROUNDWATER MONITORING REPORT
PUENTE VALLEY OPERABLE UNIT
SHALLOW ZONE NORTH REMEDY
SAN GABRIEL VALLEY SUPERFUND SITE AREA 4
LOS ANGELES COUNTY, CALIFORNIA

Prepared by:

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December 3, 2014

ANNUAL COMPREHENSIVE GROUNDWATER MONITORING REPORT

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SHALLOW ZONE NORTH REMEDY
SAN GABRIEL VALLEY SUPERFUND SITE AREA 4
LOS ANGELES COUNTY, CALIFORNIA

December 3, 2014

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LIST OF ACRONYMS

amsl	above mean sea level
ARAR	applicable or relevant and appropriate requirement
BACTs	best available control technologies
bgs	below ground surface
COCs	chemicals of concern
CSM	conceptual site model
CTR	California Toxics Rule
DCA	dichloroethane
DCE	dichloroethene
DTSC	Department of Toxic Substances Control
DQI	data quality index
FFS	Focused Feasibility Study
FS	feasibility study
FSP	field sampling plan
gpm	gallons per minute
IDW	investigation derived waste
IROD	Interim Record of Decision
IZ	Intermediate Zone
LARWQCB	Los Angeles Regional Water Quality Control Board
LPGAC	liquid phase granular activated carbon
MOV	Mouth of the Puente Valley
MS/MSD	matrix spike/matrix spike duplicate
MTBE	methyl tert butyl ether
Mg/L	milligrams per liter
NAD 83	North American Datum of 1983
NAVD 88	North American Vertical Datum of 1988
ND	not detected
NG	Northrop Grumman Corporation
ORP	oxidation reduction potential
PCE	tetrachloroethene
POTW	publicly-owned treatment works
PVOU	Puente Valley Operable Unit
PZ	Production Zone or Deep Zone

QA	quality assurance
QAPP	Quality Assurance Project Plan
QC	quality control
RA	remedial action
RCRA	resource conservation recovery act
RD	remedial design
RFA	request for analysis
RI	Remedial investigation
RPD	relative percent difference
SDG	sample delivery group
SOW	Statement of Work
SZ	Shallow Zone
SZN	Shallow Zone North of Puente Creek
TBA	tert-butyl alcohol
TCA	trichloroethane
TCE	trichloroethene
TDS	total dissolved solids
UAO	Unilateral Administrative Order
µg/L	micrograms per liter
USEPA	United States Environmental Protection Agency
UTC/Carrier	United Technologies Corporation/Carrier Corporation
VOA	volatile organic analysis
VOCs	volatile organic compounds
WQO	water quality objectives

1.0 INTRODUCTION

This 2014 Annual Comprehensive Groundwater Monitoring Report (ACGWMR) for the Puente Valley Operable Unit (PVOU) Shallow Zone (SZ) North of Puente Creek (SZN) Remedy was prepared by Tetra Tech on behalf of United Technologies Corporation/Carrier Corporation (UTC/Carrier). UTC/Carrier entered into a Consent Decree with the United States Environmental Protection Agency (USEPA; 2006) to perform the interim remedial design (RD) and remedial action (RA) for the PVOU SZN Remedy in 2006. In addition to the tasks that are required by and described in the Statement of Work (SOW) attached to the Consent Decree (USEPA, 2006) as Appendix D, UTC/Carrier has agreed to conduct comprehensive groundwater monitoring on a semi-annual basis while other investigative activities are ongoing and prior to the initiation of RA activities.

This ACGWMR presents the results of the Spring (First Half) 2014 and Fall (Second Half) 2014 groundwater monitoring and sampling activities. Copies of the USEPA-approved request for analysis (RFA) tables for each of these two groundwater monitoring and sampling events are provided in Appendix A.

1.1 BACKGROUND

1.1.1 Geographical Extent of the PVOU

A site location map is provided as Figure 1. The PVOU of the San Gabriel Valley Superfund Site is located in the eastern part of the Los Angeles County, California. The PVOU comprises approximately 17 square miles within the southeast portion of the San Gabriel Valley. Although, the majority of the Puente Valley is highly industrialized, and is located primarily in the City of Industry, a significant portion of the PVOU SZ Eastern plume lies beneath residential portions of the City of La Puente and unincorporated Los Angeles County.

1.1.2 Hydrogeology in the San Gabriel Basin and the PVOU

1.1.2.1 Groundwater Occurrence

Based on water level measurements collected between August 24 and August 26, 2014 the saturated zone of the PVOU SZ in the Mouth of the Puente Valley (MOV) begins at approximate depths between 35 feet below ground surface (bgs) near Puente Creek to approximately 130 feet bgs at the toe of the PVOU SZ Eastern Plume. Groundwater flow direction is to the north-northwest at the MOV. Water levels in the PVOU SZ fluctuate on an annual basis, typically between eight and twelve feet, with highs usually occurring in the mid- to late-spring and lows usually occurring in the early fall. In unusually wet years such as 2005, water levels in the PVOU SZ may fluctuate by as much as 20 to 25 feet over the course of the year. In unusually dry years such as 2014, water levels in the PVOU SZ may fluctuate by as much as 7 to 16 feet over the course of the year.

1.1.2.2 Major Aquifer Zones

The conceptual site model (CSM) for the PVOU is currently being developed/revised by Northrop Grumman (NG) and the USEPA. Discussions in this Annual Comprehensive Groundwater Monitoring Report reflect Tetra Tech's understanding of the current state of this CSM.

Three primary relatively higher permeable zones within the PVOU were identified during the PVOU Remedial Investigation/Feasibility Study (RI/FS) (CDM, 1997 and CH2M HILL, 1997) based primarily on hydrologic and water quality data from monitoring wells installed throughout the PVOU. These relatively higher permeable zones are informally referred to as the PVOU SZ, PVOU Intermediate Zone (IZ), and PVOU Production Zone (PZ) for the CSM. Relatively fine-grained lower permeability zones dominated by silt and clay separate the more permeable zones and also locally contribute to vertical water-level and some water quality parameter differences between aquifer zones. The alluvial materials that underlie the PVOU are heterogeneous, comprised of inter-fingering lenses of sediments with variable hydraulic properties (USEPA, 2005).

As was defined in the Interim Record of Decision (IROD; USEPA, 1998) and later modified by the ESD (USEPA, 2005), the PVOU SZ at the MOV generally encompasses the upper 150 to 200 feet of the saturated aquifer including the interval between the water table and approximately 250 to 300 feet bgs. This definition may not be consistent with the CSM that is being developed/revised by NG and the USEPA

The PVOU IZ includes the water-bearing strata in the interval between the PVOU SZ and the PVOU PZ. Several production wells at the MOV produce water from the PVOU IZ, e.g. San Gabriel Valley Water Company production wells B7C and B11B and Suburban Water Systems production well 147W3. Consequently the PVOU IZ is characterized by a lower water level than the PVOU SZ.

The PVOU PZ is the main portion of the aquifer that is used for groundwater production. In general, at the MOV, the PVOU PZ extends from a depth of approximately 400 to 1,300 feet bgs. Because production wells at the MOV produce most of their water from the PVOU PZ, water levels are lower in the PVOU PZ than in the PVOU SZ and the PVOU IZ (USEPA, 2005).

1.1.3 Groundwater Contamination in the PVOU SZ at the MOV

A total of four distinct groundwater plumes, which are referred to as the PVOU SZ Eastern Plume, the PVOU SZ Middle Plume, the PVOU SZ Western Plume, and the PVOU SZ Westernmost Plume, were identified in the PVOU SZ at the MOV during the RI (CDM, 1997) and the FS (CH2MHill, 1997). See Figure 2. As is discussed in more detail in Sections 4 and 5 of this Annual Comprehensive Groundwater Monitoring Report, recent groundwater monitoring data indicate that the PVOU SZ Middle, Western and Westernmost Plumes are stable and/or receding, and the length of the PVOU SZ Eastern Plume may be expanding.

1.1.4 Interim Remedies

The USEPA adopted the original Cleanup Plan for the PVOU in the PVOU IROD (USEPA, 1998) with the selection of *Remedial Alternative 3: Groundwater Control in the Shallow and Intermediate Zones at the Mouth of the Valley* as the remedy for the PVOU. The State of California, acting through the Department of Toxic Substances Control (DTSC) and the Los Angeles Regional Water Quality Control Board (LARWQCB) concurred with the selected remedy, which included the following components:

- Groundwater extraction of 1,000 gallons per minute (gpm) in the PVOU IZ and 700 gpm in the PVOU SZ. The PVOU IROD (USEPA, 1998) noted that the actual extraction rates and locations would be determined during a remedial design investigation (RDI);

- Groundwater treatment by "*either air stripping with off-gas treatment or liquid phase GAC adsorption to remove VOCs prior to discharge*". Both of these technologies are best available control technologies (BACTs) for volatile organic compounds (VOCs) but are not considered to be effective for treating metals or inorganic chemicals. The PVOU IROD (USEPA, 1998) noted that if "*water is discharged to a municipal water supply system, treatment to reduce concentrations of total dissolved solids (TDS) and nitrate would probably be required for shallow groundwater*";

- The PVOU IROD-approved discharge options for the treated groundwater consisted of the following: to "*surface waters or to a municipal water supply line for municipal use*"; and

- The PVOU IROD also required groundwater monitoring to: (1) "ensure compliance with RAOs and performance criteria in the shallow, intermediate, and deep zones at Mid-Valley and the mouth of the valley"; and (2) provide "an early warning system for the extraction and treatment systems".

In addition to the authorized discharge options mentioned above, the following discharge options were evaluated in the PVOU FS Report (CH2MHill, 1997): (1) discharge to a publicly-owned treatment works (POTW); and (2) injection wells. The discharge to a POTW, i.e., sanitary sewer option was eliminated from further consideration as a feasible discharge option during the preliminary screening of technologies and process options, because approval to discharge large volumes of treated (or untreated) water would be difficult to obtain and sewer connection fees were deemed to be "*very high*". The injection well discharge option was eliminated from consideration as a feasible discharge option following an evaluation based on effectiveness, implementability, and cost. The reasons for eliminating the injection wells option as a feasible discharge option were not explicitly stated in the PVOU FS Report (CH2MHill, 1997), however the following disadvantages of injection wells were cited: (1) injection wells are difficult and costly to operate and maintain; and (2) injection may not be feasible due to variable lithology with depth. Following the elimination of the discharge to a POTW and the use of injection wells as viable discharge options, the only discharge options that were retained for the evaluation and comparison stages of the PVOU FS Report (CH2MHill, 1997) were surface-water discharge, which was deemed to be inexpensive and moderately easy to implement, and reuse (either

potable or non-potable). Surface-water discharge and reuse were subsequently identified as feasible discharge options for the PVOU Interim Remedy.

1.1.4.1 Explanation of Significant Differences

Field investigation activities continued after the PVOU IROD (USEPA, 1998) was issued. These field investigation activities generated data that showed 1,4-dioxane and perchlorate are present in groundwater at the MOV, and that the PVOU SZ Eastern Plume extends much further (laterally and vertically) than available data indicated at the time of the PVOU FS Report (CH2MHill, 1997) and PVOU IROD (USEPA, 1998). In response to these findings, the USEPA updated the cleanup plan for the PVOU and documented the update in an ESD (USEPA, 2005). The remedy as modified by the ESD (USEPA, 2005) included the following components:

- Groundwater extraction of 1,000 gpm in the PVOU IZ, which is the same extraction rate that was estimated for the PVOU IZ in the PVOU IROD (USEPA, 1998); and 1,700 gpm in the PVOU SZ, which is more than twice the extraction rate that was estimated for the PVOU SZ in the PVOU IROD (USEPA, 1998); and

- Groundwater treatment for 1,4-dioxane and potentially perchlorate in addition to components described in the PVOU IROD (USEPA, 1998), which included air stripping with off-gas treatment or liquid phase granular activated carbon (LPGAC) adsorption.

The ESD (USEPA, 2005) did not modify the authorized discharge options. Discharge of the treated groundwater to either surface waters or to a municipal water supply line for potable or non-potable reuse remained as the only USEPA-approved methods of discharge.

The applicable or relevant and appropriate requirements (ARARs) listed in the PVOU IROD (USEPA, 1998) were unchanged in the ESD (USEPA, 2005) except as noted below:

- Tables 2 and 3 of Attachment 1 of the ESD (USEPA, 2005) replaced Table 1 of the PVOU IROD (USEPA, 1998). Table 2 of Attachment 1 of the ESD (USEPA, 2005) lists the chemicals of concern (COCs) requiring containment and the associated containment levels (the Performance Criteria). Table 3 of Attachment 1 of the ESD (USEPA, 2005) lists the chemical specific ARARs that apply to discharges to surface water;

- The ESD (USEPA, 2005) clarified that the ARARs set forth in the PVOU IROD (USEPA, 1998) do not apply to the service of water into a public water supply, and that any treated groundwater to be used as drinking water must meet all applicable federal, state, and local drinking water standards in existence at the time the water is served, including any permit requirements; and

- Containment levels were not provided for certain chemicals listed in Table 2 of Attachment 1 of the ESD (USEPA, 2005). The USEPA clarified that these chemicals would be monitored and evaluated during the remedial action to determine whether the Performance Criteria are being met.

The PVOU SZ and PVOU IZ Performance Criteria (USEPA, 2005) are listed below:

Compound	Performance Criteria (µg/L)		Compound	Performance Criteria (µg/L)	
	IZ	SZ		IZ	SZ
1,1-Dichloroethane	5	50	Chloroethane	-	-
1,1-Dichloroethene	6	60	Chloroform	100	1000
1,1,1-Trichloroethane	200	2000	cis-1,2-Dichloroethene	6	60
1,1,2-Trichloro-1,2,2-trifluoroethane	1200	12000	cis-1,3-Dichloropropane	-	-
1,1,2-Trichloroethane	3	30	Dibromochloromethane	100	1000
1,1,2,2-Tetrachloroethane	1	10	Dibromochloropropane	0.2	2
1,2-Dichlorobenzene	600	6000	Di-n-butylphthalate	-	-
1,2-Dichloroethane	0.5	5	Dichlorofluoromethane	C	C
1,2-Dichloroethane (total)	6	60	Ethylbenzene	700	7000
1,2-Dichloropropane	5	50	Isopropyl alcohol	-	-
1,2,4-Trichlorobenzene	70	700	Isopropyl benzene	-	-
1,2,4-Trimethylbenzene	-	-	Methylene Chloride	5	50
1,3-Dichlorobenzene	600	6000	Naphthalene	-	-
1,3-Dichloropropene	0.5	5	Styrene	100	1000
1,3,5-Trimethylbenzene	-	-	Tetrachloroethene	5	50
1,4-Dichlorobenzene	5	50	Total petroleum hydrocarbons	-	-
Benzene	1	10	Total petroleum hydrocarbons-volatiles	-	-
bis(2-Ethylhexyl)phthalate	4	40	trans-1,2-Dichloroethene	10	100
Bromochloromethane	-	-	trans-1,3-Dichloropropane	-	-
Bromodichloromethane	100	1000	Trichloroethylene	5	50
Bromoform	100	1000	Trichlorofluoromethane	150	1500
Bromomethane	-	-	Toluene	150	1500
n-Butylbenzene	-	-	Vinyl Chloride	0.5	5
sec-Butylbenzene	-	-	m,p-Xylene	-	-
tert-Butylbenzene	-	-	o-Xylene	-	-
Carbon Disulfide	-	-	Xylene (total)	1750	17500
Carbon Tetrachloride	0.5	5	1,4-dioxane	1	10
Chlorobenzene	70	700			

1.1.4.2 Consent Decree

In 2001 USEPA issued a Unilateral Administrative Order (UAO) to UTC/Carrier, and later a separate UAO to TRW Inc., which was later acquired by NG is hereinafter referred to as NG. The UAOs allocated PVOU remedial responsibilities for the PVOU IZ at the MOV to NG and PVOU remedial responsibilities for the PVOU SZ at the MOV to UTC/Carrier. After Carrier submitted a Statement of Sufficient Cause declining to perform the work as specified in its UAO, USEPA initiated the RD work for the PVOU SZ as a USEPA Fund-lead project.

While the USEPA pursued the PVOU SZ RD, discussions between UTC/Carrier and the USEPA continued. The USEPA and UTC/Carrier entered into a Consent Decree (USEPA, 2006) in March 2006 in which UTC/Carrier was directed to design, construct, operate, maintain, monitor, and evaluate the PVOU SZN Interim Remedy, as well as implement Mid-Valley Monitoring in accordance with the SOW that was attached to the Consent Decree (USEPA, 2006) as Exhibit D. The SOW stipulated that: (1) the PVOU SZ treatment system "shall provide treatment for VOCs and 1, 4-dioxane"; (2) that perchlorate "*may need to be treated to comply with surface water discharge ARARs"*; and (3) "*as provided in the PVOU IROD and Los Angeles Regional Water Quality Control Board's (LARWQCB) Resolution 98-16, treatment for TDS and nitrates will not be necessary as long as discharges to surface water is monitored and the estimated impacts on receiving waters are correc*t."

UTC/Carrier began work on the PVOU SZ RD/RA while the Consent Decree (USEPA, 2006) was being finalized, and completed the Final RD Workplan (GeoTrans, 2005a) prior to entry of the Consent Decree (USEPA, 2006). The following required submittals were attached to the RD Workplan as appendices: the Conceptual Design (GeoTrans, 2005b), The Extraction Well Installation and Testing Workplan (GeoTrans, 2004), the Mid-Valley Area Monitoring Well Installation Workplan (GeoTrans, 2005c), and the Westernmost Plume Area Monitoring Well Installation Workplan (GeoTrans, 2005d).

1.1.4.3 Prior Remedial Design Activities

UTC/Carrier continued work on the PVOU SZ RD following the completion of the Consent Decree (USEPA, 2006), and attempted unsuccessfully, due to lack of demand, to find a water utility that would accept delivery of the treated PVOU SZ groundwater for potable and/or non-potable reuse. Given that potable and non-potable reuse could not be implemented, UTC/Carrier proceeded with the intent of implementing the only remaining USEPA approved discharge remedial alternative (i.e., discharge to surface waters). Accordingly, UTC/Carrier completed the following work activities through April 30, 2010:

- Installed and tested nine SZ extraction wells (S02A, S02B, S03, S05, S06, S07, S09, S10, and S11) in accordance with the Extraction Well Installation and Testing Workplan (GeoTrans, 2004), and one additional extraction well, S11A that was later confirmed by USEPA to be screened in the PVOU upper IZ and not the PVOU SZ;

- Installed two Mid-Valley Deep Zone groundwater monitoring wells (MW-D1 and MW-D-2);

- Installed eight monitoring wells (VCW-01, VCW-02, VCW-03, VCW-06, VCW-07, VCW-09, SW-04, SW-05) that may be utilized as sentinel and compliance wells following startup of the PVOU SZ groundwater extraction, conveyance, and treatment system;

- Installed two Westernmost Plume Area groundwater monitoring wells (MW6-20A and MW6-20B);

- Completed six Mid-Valley Area groundwater monitoring events (July 2008, October 2008, May 2010, August 2010, November 2010, and May 2011);

- Completed five Westernmost Plume Area monitoring events (December 2008, May 2010, August 2010, November 2010, and May 2011) ;

- Submitted the Extraction Well Completion Report for USEPA approval (GeoTrans, 2008a);

- Submitted the Westernmost Plume Monitoring Wells Completion Report for USEPA approval (GeoTrans, 2009a);

- Submitted the Design Basis Report for USEPA approval (GeoTrans, 2009b);

- Submitted the Construction Health and Safety for USEPA approval (GeoTrans, 2008b);

- Submitted an Aquifer Testing and Numerical Modeling Analysis Report (GeoTrans, 2008c) for USEPA approval. The Aquifer Testing and Numerical Modeling Analysis Report documents modifications that were made to the groundwater flow model after the PVOU IZ and SZ extraction wells were installed and tested;

- Submitted the Compliance and Sentinel Network Well Network Plan for USEPA approval (GeoTrans, 2008d); and

- Submitted the PVOU SZ Final Design (GeoTrans, 2009c) for USEPA approval.

The USEPA notified UTC/Carrier and NG in 2008 (while the PVOU SZ and IZ remedial designs were in the final stages of preparation) that naturally-occurring selenium concentrations in both the PVOU SZ and IZ exceed the California Toxics Rule (CTR) water quality objective of 5 micrograms per liter (µg/L), which is intended to protect freshwater aquatic life (CH2MHill, 2008). Although Table 3 of Attachment 1 to the ESD does not include an ARAR for discharging naturally-occurring selenium to surface water, the USEPA was concerned that both the PVOU SZ RD and the PVOU IZ RD would result in discharges to surface water that would exceed the CTR water quality objective for naturally occurring selenium. Subsequent to the USEPA notification, UTC/Carrier simultaneously: (1) continued with a PVOU SZ RD that would comply with its Consent Decree (USEPA, 2006) and the ESD (USEPA, 2005) by treating extracted PVOU SZ groundwater for VOCs, 1,4-dioxane, and perchlorate; and (2) actively worked with the USEPA to address various discharge issues (including the naturally occurring selenium).

1.1.4.4 Focused Feasibility Study

On July 22, 2009 the USEPA notified UTC/Carrier that it would not authorize the discharge of treated PVOU SZ groundwater to surface waters. Instead the USEPA requested that UTC/Carrier prepare a PVOU SZ Focused Feasibility Study (FFS) (GeoTrans, 2010) to evaluate other alternatives for the PVOU SZ Interim Remedy. The Draft PVOU SZ FFS (GeoTrans, 2010), which evaluated nine PVOU SZ Remedial Alternatives using the nine CERCLA criteria, was submitted to the USEPA in May 2010 for review.

The Draft PVOU SZ FFS (GeoTrans, 2010) focused on the portion of the PVOU SZ North of Puente Creek RD that required revision (i.e. the discharge options). A total of nine Remedial

Alternatives were evaluated in the PVOU SZ FFS (GeoTrans, 2010) of which three Remedial Alternatives (Alternatives 4, 5, and 9) were deemed to be feasible (based on the current understanding of the effluent limitations and/or other applicable criteria that could affect potential discharge alternatives). Based on the results of the Draft PVOU SZ FFS (GeoTrans, 2010), UTC/Carrier worked cooperatively with the USEPA in pursuit of a remedy in which the treated PVOU SZ groundwater would be returned to the PVOU SZ via reinjection well(s) at 13811 Amar Road, La Puente, California.

1.1.4.5 Toe of the PVOU SZ Eastern Plume Containment

In approximately August 2011, the USEPA requested that UTC/Carrier address the expanding length of the PVOU SZ Eastern Plume by implementing the PVOU SZ North of Puente Creek Early Action. Consistent with the USEPA's request, the PVOU SZ North of Puente Creek Interim Remedy would be implemented in phases with the PVOU SZ Eastern Plume Early Action being the first phase. Tetra Tech on behalf of UTC/Carrier submitted a draft RD Work Plan for the PVOU SZ Eastern Plume Early Action (Tetra Tech GEO, 2011) in September 2011.

In December 2011, Tetra Tech on behalf of UTC/Carrier began semi-annual collection and analysis of groundwater samples to assess baseline PVOU SZ aquifer conditions consistent with the requirements LARWQCB Order No. R4-2007-0019 (the General Permit). The USEPA has informed UTC/Carrier and Tetra Tech that the General Permit will be the ARAR used to determine water quality objectives (WQO) for the reinjection of treated PVOU SZ North of Puente Creek groundwater back into the PVOU SZ. A subset of five of the 50 MOV monitoring wells were sampled for the analytes required by paragraph A.2.b of the General Permit. These data allow for a preliminary assessment of whether or not reinjecting treated PVOU SZ groundwater has the potential to significantly alter background water quality conditions at and/or downgradient from the reinjection zone.

The USEPA is actively pursuing LARWQCB concurrence on the decision to return PVOU SZ treated groundwater to the PVOU SZ via reinjection well(s) at 13811 Amar Road, La Puente, California. Consequently, and subsequent to the submittal of RD Work Plan for the PVOU SZ Eastern Plume Early Action (Tetra Tech GEO, 2011), the USEPA directed UTC/Carrier to perform additional activities at the toe of the PVOU SZ Eastern Plume, which have included:

- Submitting a Reinjection Well Installation and Pilot Study Work Plan (Tetra Tech, 2013);
- Installing monitoring well MW6-21 to monitor the upper portion of the PVOU SZ East Plume;
- Installing piezometers P-1A (U), P-1B (UM), P-1C (LM), and P-1D (L) at the reinjection area located at 13811 Amar Road (Figure 3);
- Installing groundwater monitoring wells MW8-1A through MW8-1D and MW8-2A through MW8-2D, within the five year travel zone of the PVOU SZ North of Puente Creek reinjection area (at and adjacent to 13811 Amar Road; Figure 3), and MW8-3A through MW8-3D located immediately adjacent to and cross gradient of PVOU SZ North of Puente Creek reinjection area; and

- Baseline groundwater quality sampling and initiating statistical analysis to assess the potential impacts of reinjecting at 13811 Amar Road the treated effluent from an Operational and Functional (O&F) PVOU SZN Interim RA for the full eight-year term of the PVOU SZN Interim RA.

1.2 MONITORING WELLS

1.2.1 Summary of Remedy Monitoring Well Network

The PVOU SZN Interim Remedy monitoring well network consists of a total of 81 groundwater monitoring wells. The well construction details are summarized in Table 1. The well locations are shown on Figure 3.

It is noted that the PVOU SZN Interim Remedy monitoring well network includes wells screened in the PVOU IZ and the PVOU PZ, as well as the PVOU SZ. See Section 1.1.2.2 for details on the USEPA's revised/current interpretation of the PVOU SZN.

The four PVOU PZ wells, which are all located in the mid-valley area, in the PVOU SZN Interim Remedy monitoring well network are:

- MW6-44;
- MW6-61;
- MW-D1; and
- MW-D2.

The IZ wells in the PVOU SZN Interim Remedy monitoring well network are monitoring wells VCW-01 and VCW-03, which are intended to be utilized as vertical compliance wells after the PVOU SZ interim remedy commences, and the following mid-valley area wells:

- MW6-17I;
- MW6-45;
- MW6-62
- MW6-63; and
- MW6-71;

The sampling objectives for these wells are summarized in Table 2.

Westernmost Plume Monitoring Well Network

The westernmost plume groundwater monitoring well network consists of 6 monitoring wells and includes four wells (OP-MW-1, OP-MW-02, OP-MW-04, and OP-MW-06) which were installed by Oakite Products, Inc. (Oakite) under the oversight of LARWQCB. Oakite performed periodic groundwater monitoring at this property for a period of time under the oversight of the LARWQCB. Despite the elevated levels of VOCs detected in the groundwater at this site, neither the USEPA nor the LARWQCB required Oakite to design or implement a groundwater remedial action at this site. Instead, Oakite discontinued groundwater monitoring prior to 2005, and the USEPA assigned responsibility for this local groundwater plume to UTC/Carrier as part of the Consent Decree (USEPA, 2006).

Following entry of the Consent Decree, Tetra Tech, on behalf of UTC/Carrier, installed offsite (hydraulically downgradient) monitoring wells MW6-20A and MW6-20B. These two offsite wells with the four wells groundwater monitoring wells that Oakite installed on the Oakite property (OP-MW-1, OP-MW-02, OP-MW-04, and OP-MW-06) make up the Westernmost Plume groundwater monitoring well network.

Mid-Valley Area Monitoring Well Network

The Mid-Valley Area Monitoring Well Network consists of five PVOU IZ wells (MW6-62, MW6-63, MW6-17I, MW6-45, and MW6-71) and four PVOU PZ wells (MWD-1, MW6-61, MWD-2, and MW6-44). The objective of the Mid-Valley Area Monitoring Well Network is to monitor potential migration of contamination from the PVOU IZ to the PVOU PZ, and to provide an early warning of potential "up-valley" conditions that may eventually impact the MOV. In addition, PVOU SZ monitoring wells MW6-64 and MW6-65 are included in the sampling per a USEPA request (USEPA, 2011).

Mouth of the Valley Wells

The PVOU SZ MOV monitoring well network consists of 64 groundwater monitoring wells as summarized below and shown of Figure 3. As noted below groundwater monitoring wells VCW-03 and VCW-01 are screened in the PVOU IZ. The other 62 groundwater monitoring wells and the extraction wells are screened in the PVOU SZ. The PVOU SZ MOV monitoring wells are sampled to evaluate baseline COC conditions at the MOV prior to commencing operation of the PVOU SZ North of Puente Creek Interim Remedy:

MP-20-4	MW-08	MW-17D (LCW-08)	MW6-14 (SW-03)	MW8-1A	MW8-3C	VCW-03 (IZ)
MP20-5	MW-09	MW-17S	MW6-15	MW8-1B	MW8-3D	VCW-06
MP-21-6	MW-10	MW-18D	MW6-16	MW8-1C	P-1A	VCW-07
MW-01A	MW-11	MW-18S	MW6-17	MW8-1D	P-1B	VCW-09
MW-01B	MW-12	MW-19	MW6-18 (LCW-04)	MW8-2A	P-1C	
MW-02	MW-13	MW6-09	MW6-19 (LCW-05)	MW8-2B	P-1D	
MW-03	MW-14	MW6-10	MW6-21	MW8-2C	SW-04	
MW-05	MW-15	MW6-11	MW6-35	MW8-2D	SW-05	
MW-06	MW-16D	MW6-12	MW6-36	MW8-3A	VCW-01(IZ)	
MW-07 (SW-01)	MW-16S	MW6-13	MW6-37	MW8-3B	VCW-02	

Baseline Groundwater Quality Sampling

Baseline groundwater quality sampling was performed during the Spring (First Half) 2014 and Fall (Second Half) 2014 groundwater monitoring events at piezometers P-1A , P-1B, P-1C, and P-1D, monitoring wells MW8-1A through MW8-1D, MW8-2A through MW8-2D, and MW8-3A through MW8-3D, and PVOU SZ extraction wells S-05, S-06, S-07, S-09, S-10, and S-11 to confirm compliance with LARWQCB order No. R4-2007-0019, which is the general permit for

reinjecting treated groundwater. These data allow for a preliminary assessment of whether or not reinjecting treated PVOU SZ groundwater has the potential to significantly alter background aquifer conditions at and/or downgradient from the reinjection zone. Baseline groundwater quality sampling was performed during the Spring (First Half) 2014 at PVOU SZ extraction wells S-02A, S-02B, and S-03.

1.3 REPORT ORGANIZATION

This Annual Comprehensive Groundwater Monitoring Report is organized as follows:

- Section 1 - Introduction. Introduces the groundwater investigation, including background information, monitoring well information, wells sampled, and report organization;
- Section 2 – Sampling Approach. Describes sampling methods including quality assurance/quality control (QA/QC) and laboratory analysis;
- Section 3 – Data Validation and Findings;
- Section 4 – Results and Discussion;
- Section 5 – Summary of Findings;
- Section 6 – Recommendations; and
- Section 7 – References.

The appendices to this document include the following:

- Appendix A USEPA-Approved Request for Analysis Tables;
- Appendix B Notification and Permits;
- Appendix C Field Sampling Forms (on CD only);
- Appendix D IDW Disposal Documentation (on CD only);
- Appendix E Data Validation Reports;
- Appendix F Fall 2014 Laboratory Analytical Reports and Chain-of-Custody Records (on CD only);
- Appendix G Spring (First Half) 2014 Groundwater Monitoring Submittal (on CD only);
- Appendix H Hydrographs;
- Appendix I Historical Rainfall Data;

- Appendix J Contaminant Time Series Plots; and
- Appendix K Statistical Assessment (on CD only).

2.0 SAMPLING APPROACH

Sampling procedures and protocols utilized for this sampling event are detailed in the following USEPA-approved documents:

- The Spring (First Half) 2014 and Fall (Second Half) 2014 RFA Tables (Appendix A);
- Quality Assurance Project Plan (QAPP; Tetra Tech, 2014a);
- Field Sampling Plan (FSP; Tetra Tech; 2014b); and
- Health and Safety Plan (Health and Safety Plan, 2014c).

Field work notification was provided to the USEPA, City of Industry, City of La Puente, and Los Angeles County approximately two weeks prior to the start of field work. Encroachment permits from the City of Industry, City of La Puente, and Los Angeles County for accessing monitoring wells located on public right-of-ways were also obtained prior to conducting field work. Some of the permits utilized were obtained in 2013 and were still valid, and therefore, permit renewal was not necessary for these events. Copies of the permits are provided in Appendix B.

2.1 WATER LEVEL MEASUREMENTS

Tetra Tech performed synoptic groundwater level measurement in cooperation with NG on March 12 and 13, 2014 and August 25 and 26, 2014. Current and historical groundwater level measurements and groundwater elevations are summarized in Table 3.

2.1.1 Monitoring Wells and Extraction Wells

Depth to groundwater measurements were collected to the nearest 0.01 feet at the PVOU SZN groundwater monitoring and extraction wells (the extraction wells have not yet been outfitted with pumps) using an electronic flat tape water level meter as described below:

- The electronic flat tape water level meter was washed with non-phosphate detergent, followed by potable water rinse and laboratory reagent-grade deionized water rinse prior to use;
- The well cap was removed, the sampler checked for any unusual pressure or odor and reviewed the previous water level measurement;
- Proper operation of electronic flat tape water level meter was checked by depressing the meter's test button;
- The tape and weighted-probe were slowly lowered into the well until the audio alarm was heard and the indicator light illuminated. A reading was taken directly off the tape relative to the measuring point located at the top of the well casing;

- The static water level measurements were verified by raising the sampling device, then lowering it again to re-measure and record the water level;

- The verified water level reading was recorded to the nearest 0.01 feet along with the water level measurement method used, water level depth, total well depth, date, time of measurement, water level status, and measuring point; and

- The electronic flat tape water level meter was removed and decontaminated.

2.1.2 Westbay Wells

Water level measurement is obtained from multiple intervals within a single Westbay multiport well by collecting pressure measurements from a measurement port at each interval. A Westbay pressure transducer attached to the water sampling probe is used to collect the pressure measurements at the time of water sampling. As such, the procedures for collecting pressure measurements are included in Westbay water sampling section (Section 2.2.2.4).

2.2 GROUNDWATER SAMPLE COLLECTION METHODS

Sampling methods used during this monitoring and sampling event included the low flow sampling method, 3-casing volume purge sampling method, HydraSleeve bag sampling method, and Westbay sampling method. In general, monitoring wells that are currently equipped with four-inch dedicated submersible pumps were sampled using the 3-casing volume purge sampling method utilizing a flow splitter (reducing tee) on the pump discharge to control the flow rate for groundwater during sampling while the purge pump remained in operation, monitoring wells that are equipped with two-inch dedicated pumps were sampled using the low flow purge and sample method, multi-port Westbay wells were sampled using Westbay equipment, and all other wells were sampled using the HydraSleeve bag sampling method. The RFA tables in Appendix A summarize the sample collection method that was used at each well. Field parameters measurement and well sampling procedures for each method are described below in Sections 2.2.1 and 2.2.2.

2.2.1 Field Parameters Measurements

Field parameters were monitored using a flow-through cell and multi-parameter water quality checker, Horiba U-53 series. Measured field parameters included temperature, pH, turbidity, specific conductance, dissolved oxygen, and oxidation reduction potential (ORP) and were recorded on the field sampling forms.

For conventional three casing volume purge method, field parameters were monitored during the purging activities until three casing volumes were purged and the parameters stabilized generally to within 10 percent over a minimum of three readings.

The low flow purge method was performed on the wells equipped with dedicated submersible two-inch centrifugal pumps. The pump controller was set to control the purge rate to 400 to 500 milliliters per minute (0.1 to 0.13 gallons per minute) to minimize drawdown and induce inflow of fresh groundwater. The pump discharge water passed through a flow-through cell field water analyzer for continuous monitoring of field parameters (temperature, pH, turbidity, specific

conductance, dissolved oxygen, and ORP). Field parameters were monitored every three to five minutes and were recorded on the field sampling form (Appendix C) during purging. Purging was considered complete when the parameter readings and water level stabilized or after a maximum of one hour of purging.

Field parameter measurements were collected from the wells equipped with the HydraSleeves sampling bags only if there was sufficient water sample available after collecting the laboratory samples. This procedure consisted of inserting the probe's sensor into a sampling cup filled with groundwater sample and the reading was recorded on the field sampling form (Appendix C).

Field parameter measurements were collected from the Westbay multi-port monitoring wells after filling the required sample bottles. This procedure consisted of inserting the probe's sensor into a sampling cup filled with groundwater sample and the reading was recorded on the field sampling form (Appendix C).

2.2.2 Well Sampling Procedures

2.2.2.1 Three-Casing-Volumes Purge and Sample Method

Groundwater monitoring wells MW6-44, MW6-61, MW6-62, MW6-63, MW6-64, and MW-6-71 were sampled by the three-casing-volumes purge and sample method using dedicated submersible four-inch centrifugal pumps. Groundwater monitoring well MW6-65 and PVOU SZ extraction wells S02A, S02B, S03, S05, S06, S07, S09 S10, and S11 were sampled by the three-casing-volumes purge and sample method using portable submersible pumps. It is noted that an inoperable dedicated submersible four-inch centrifugal pump was removed from groundwater monitoring well MW6-65, prior to sampling.

A minimum of three well volumes were purged. Field parameters (temperature, pH, turbidity, specific conductance, dissolved oxygen, and ORP) were monitored during the purging activities.

Groundwater samples were collected after three casing volumes were purged and field parameters stabilized. Sample containers for analytical parameters with highest volatility were filled first. The laboratory supplied sample bottles were filled by allowing the pump discharge to flow gently down the inside of the bottle with minimal turbulence. Each sample bottle was capped once filled. Sample volumes and the appropriate preservatives are listed in the RFA table provided in Appendix A. The samples were placed in an iced cooler for shipment to the laboratory under appropriate chain-of-custody procedures.

2.2.2.2 Low Flow Purge and Sampling Method

Groundwater monitoring wells MW6-14, MW6-18, MW6-9, MW6-10, MW6-13, MW6-15, MW6-16, and MW6-17 were sampled by the low flow purge and sampling method using dedicated submersible two-inch centrifugal pumps. The purge rate was set to 400 to 500 milliliters per minute (0.1 to 0.13 gallons per minute) to minimize drawdown and induce inflow of fresh groundwater. The pump discharge water passed through a flow-through cell field water analyzer for continuous monitoring of field parameters (temperature, pH, turbidity, specific conductance, dissolved oxygen, and ORP).

After field parameters stabilized the pump discharge tubing was disconnected from the flow-through cell and groundwater samples were collected directly from the end of the dedicated sample tubing. Sample containers for analytical parameters with highest volatility were filled first. The sample bottles were filled by allowing the pump discharge to flow gently down the inside of the bottle with minimal turbulence. Each bottle was capped as it filled. Sample volumes and preservatives are listed in the RFA table provided in Appendix A. The samples were placed in an iced cooler for shipment to the laboratory with chain-of-custody procedures.

2.2.2.3 HydraSleeve Method

HydraSleeve sampling bags were previously installed in all groundwater monitoring wells that are not equipped with a dedicated pump. HydraSleeve groundwater samplers are designed to recover groundwater samples from monitoring wells without purging or drawdown. The HydraSleeve samplers' length and diameter varies with the volume of the bag sampler. The bag samplers, which are weighted at the bottom, are installed deflated for minimal agitation of the water column, and held in place by a polypropylene tether rope secured to the well cap. The bag samplers were positioned in the well for sampling a three to six-foot interval centered approximately at the middle of the well's screened zone. A reed valve at the top of the bag keeps the device closed except during sample collection, thereby assuring that the sample is collected from the desired interval within the well's screened zone. Samples were retrieved by pulling up the rope to the surface at a rate similar to retrieving a sample bailer from a well. The sample containers were filled by using a new short plastic discharge tube that is supplied with each sample bag. After sampling at each monitoring well was completed, a new HydraSleeve sampling bag was installed for use during future sampling.

Sample containers for analytical parameters with highest volatility were filled first. The laboratory supplied sample bottles were filled by allowing the bag discharge to flow gently down the inside of the bottle with minimal turbulence. Each filled bottle was capped. Sample volumes and preservatives are listed in Appendix A. The samples were placed in an iced cooler for shipment to the laboratory under appropriate chain-of-custody procedures.

2.2.2.4 Westbay Multi-Port Well Sampling

Multi-Port monitoring wells MP-20-4 and MP21-6 were sampled using specialized Westbay equipment. The equipment included a wireline-operated sampler probe and surface control unit. The groundwater samples were collected from each sampling port/screen interval using the sample container/bottle attached to the sampler probe. The sample containers for analytical parameters with highest volatility were filled first. Each sample bottle was capped as it filled. Sample volumes and preservatives are listed in the RFA tables (Appendix A). The samples were placed in an iced cooler for shipment to the laboratory with chain-of-custody documentation.

2.3 SAMPLING EVENT, SAMPLE ANALYSIS, AND LABORATORY ASSIGNMENTS

Each sampling event, associated sample analysis, and associated laboratory assignments are summarized in the RFA tables (Appendix A). The groundwater samples collected during the Spring (First Half) 2014 and Fall (Second Half) 2014 sampling events were submitted to state

certified laboratories for analyses that meet the project requirement for analytical data and the data quality objectives for precision, accuracy and completeness.

2.3.1 Spring (First Half) 2014 Groundwater Monitoring and Sampling Event

The Spring (First Half) 2014 groundwater monitoring and sampling event was performed from April 1 through April 28, 2014 in accordance with the USEPA-approved Work Plan (Tetra Tech, 2014a). Analytical methods and associated laboratory assignments are summarized in the RFA table (Appendix A). Tetra Tech attempted to sample 90 groundwater monitoring and extraction wells. Fifteen of these 90 wells could not be sampled because of insufficient water in the well, the dedicated pump was not working, or they could not be accessed. Hence groundwater samples were collected from 75 groundwater monitoring and PVOU SZ extraction wells as summarized below.

Analytical methods and associated laboratory assignments are summarized in the RFA table (Appendix A) and discussed below.

- Groundwater samples collected from 75 groundwater monitoring and PVOU SZ extraction wells were submitted to Accutest Laboratories (Accutest) for analysis. Accutest performed VOCs analysis by USEPA Method 8260B and 1,4-dioxane analysis by USEPA Method 8270C. Weck Laboratories (Weck), under contract to Accutest, performed VOCs analysis by USEPA Method 524.2 and hexavalent chromium analysis by USEPA Method 218.6.

- Groundwater samples were collected from 13 groundwater monitoring wells and submitted to Accutest for perchlorate analysis by USEPA Method 331. Weck performed the USEPA Method 331 analyses under contract to Accutest.

- At the request of the USEPA, groundwater samples were collected from PVOU SZ extraction wells S-02A, S-02B, and S-03, and submitted to Accutest for analysis for the full suite of analytes required by the LARWQCB Order No. R4-2007-0019 (paragraph A.2.b), which is the general permit requirements for reinjecting treated groundwater.

- Groundwater samples were collected from 16 groundwater monitoring wells (P-1A , P-1B, P-1C, P-1D, MW8-1A through MW8-1D, MW8-2A through MW8-2D, and MW8-3A through MW8-3D) and 6 PVOU SZ extraction wells (S-05, S-06, S-07, S-09, S-10, and S-11) and submitted to Accutest for analysis for the following specific baseline groundwater quality parameters including cations/anions as listed below:

    - Sulfate by USEPA Method 300;
    - Chloride by USEPA Method 300;
    - Nitrogen-nitrite by USEPA Method 300;
    - Nitrogen-nitrate by USEPA Method 300;
    - Total dissolved solids by USEPA Method SM18 2540C;
    - Boron by USEPA Method 200.8;
    - Fluoride by USEPA Method 300;

- Carbonate by USEPA Method SM18 2320B;
- Bicarbonate by USEPA Method SM18 2320B;
- Magnesium by USEPA Method 6010B;
- Potassium by USEPA Method 6010B;
- Calcium by USEPA Method 6010B; and
- Sodium by USEPA Method 6010B.

Carbonate, bicarbonate, magnesium, potassium, calcium, sodium, sulfate, chloride, fluoride, nitrogen-nitrite, nitrogen-nitrate, and total dissolved solids analyses were performed by Accutest. Boron analyses were performed by Weck under contract to Accutest.

2.3.2 Fall (Second Half) 2014 Sampling Event

The Fall (Second Half) 2014 groundwater monitoring and sampling event was performed from August 25 through September 22, 2014 in accordance with the USEPA-approved Work Plan (Tetra Tech, 2014a). Tetra Tech attempted to sample 90 groundwater monitoring and extraction wells. Twenty one of these 90 wells could not be sampled because of insufficient water in the well. Hence groundwater samples were collected from 69 groundwater monitoring and PVOU SZ extraction wells as summarized below.

Analytical methods and associated laboratory assignments are summarized in the RFA table (Appendix A) and discussed below.

- Groundwater samples were collected from 63 groundwater monitoring wells and PVOU SZ extraction wells and submitted to Eurofins Calscience, Inc. (Calscience) for analysis for VOCs by USEPA Method 8260B, 1,4-dioxane by USEPA Method 522, hexavalent chromium by USEPA Method 218.6, perchlorate by USEPA Method 331, and selenium (Dissolved) by USEPA Method 6010B.

- Groundwater samples were collected from 16 groundwater monitoring wells (P-1A , P-1B, P-1C, P-1D, MW8-1A through MW8-1D, MW8-2A through MW8-2D, and MW8-3A through MW8-3D) and 6 PVOU SZ extraction wells (S-05, S-06, S-07, S-09, S-10, and S-11), and submitted to Calscience for analysis for the following specific baseline groundwater quality parameters including cations/anions as listed below:

    - Sulfate by USEPA Method 300;
    - Chloride by USEPA Method 300;
    - Nitrogen-nitrite by USEPA Method 300;
    - Nitrogen-nitrate by USEPA Method 300;
    - Total dissolved solids by USEPA Method SM18 2540C;
    - Boron by USEPA Method 200.8;
    - Fluoride by USEPA Method 300;
    - Carbonate by USEPA Method SM18 2320B;
    - Bicarbonate by USEPA Method SM18 2320B;
    - Magnesium by USEPA Method 6010B;

- Potassium by USEPA Method 6010B;
- Calcium by USEPA Method 6010B; and
- Sodium by USEPA Method 6010B.

2.4 QUALITY ASSURANCE AND QUALITY CONTROL SAMPLES

The QA/QC activities conducted during both monitoring events included analysis of field blank samples (ambient blanks), field duplicate samples, matrix spike/ matrix spike duplicate (MS/MSD), trip blank samples, equipment blank samples, and temperature blanks. QA/QC samples for each analytical parameter are summarized in the RFA tables (Appendix A).

Field blank samples (ambient blanks) were prepared by pouring de-ionized water provided by the analytical laboratory in a sample container immediately prior to the primary groundwater sample collection. Field blank samples were collected to assess potential ambient contaminant sources unrelated to subsurface conditions at the time of sample collection. One field blank per day was collected for analyses.

Field duplicate samples were collected from the same location and in the same manner as a primary sample to assess sampling method and analysis variance. Field duplicates were collected and analyzed at the rate of 10 percent of the total samples collected.

MS/MSD samples were collected to evaluate the efficiency of the sample extraction and analysis procedures. MS/MSD samples were collected and analyzed at the rate of 5 percent of the total samples collected.

Trip blanks were provided by the contract laboratory. The samples consisted of filled volatile organic analysis (VOA) vials that are transported from the analytical laboratory to the sampling site and back to the analytical laboratory without having been opened in the field. Trip blank samples were analyzed to provide a means of evaluating potential sample contamination from ambient conditions during storage and shipment prior to analysis. One trip blank per shipment was submitted to the laboratory for analysis for VOCs.

Equipment blank samples were prepared by pouring de-ionized water provided by the analytical laboratory over or through decontaminated field sampling equipment into a sample container. Equipment blank samples were collected to access the adequacy of the decontamination process. Equipment blank samples were collected and analyzed at the rate 5 percent of the total samples collected by using non-dedicated equipment.

Temperature blanks were provided by the contract laboratory in the sample coolers and were shipped from the site with the samples containers, and then returned to the laboratory along with the field samples. Temperature blank samples were included in each cooler to verify that proper sample temperature has been maintained.

2.5 COLLECTION AND DISPOSAL OF INVESTIGATION-DERIVED WASTE

2.5.1 Spring (First Half) 2014

Approximately 14,300 gallons of investigation derived waste (IDW) wastewater were generated during well purging and equipment decontamination operations. The IDW was temporarily containerized in a storage tank at 13811 Amar Road, La Puente, California, pending waste characterization and disposal. The storage tank was labeled to note the site name, date, type of materials stored, and origin of materials stored. A sample was collected from the storage tank on April 25, 2014, and submitted to Accutest for analysis for VOCs by USEPA Method 8260B, 1,4-dioxane by USEPA Method 8270D, perchlorate by USEPA Method 314, total metals by USEPA Method 6010B/7470A, total petroleum hydrocarbons (TPH) by USEPA Method 8015B, and pH. Based on the analytical results, the IDW wastewater was characterized as non-hazardous waste. On May 22 and 23, 2014, the IDW wastewater was transported to Crosby & Overton, Inc. in Long Beach, California for disposal. Copies of the IDW waste disposal documentation, analytical report, and chain-of-custody record are provided in Appendix D.

2.5.2 Fall (Second Half) 2014

Approximately 11,800 gallons of IDW wastewater were generated during well purging and equipment decontamination operations. The IDW wastewater was temporarily containerized in a storage tank at the 13811 Amar Road, La Puente, California, pending waste characterization and disposal. The storage tank was labeled to note the site name, date, type of materials stored, and origin of materials stored. A sample was collected from the storage tank on September 22, 2014, and submitted to Calscience for analysis for VOCs by USEPA Method 8260B, 1,4-dioxane by USEPA Method 522, perchlorate by USEPA Method 314, total metals by USEPA Method 6010B/7470A, hexavalent chromium by USEPA Method 218.6, TPH by USEPA Method 8015B and pH. Based on the analytical results, the IDW wastewater was characterized as non-hazardous waste. On October 10, 2014, the IDW wastewater was transported to Crosby & Overton, Inc. in Long Beach, California for disposal. Copies of the IDW waste disposal documentation, analytical report, and chain-of-custody record are provided in Appendix D.

3.0 DATA VALIDATION AND FINDINGS

This section summarizes the procedures and findings for validation of analytical data from the Spring (First Half) 2014 and Fall (Second Half) 2014 groundwater monitoring events.

3.1 DATA VALIDATION METHODOLOGY

All data was subject to validation by an internal "third party" reviewer with no involvement in or knowledge of the project. All data was subjected to a Level II review, and 10% of the samples were also subject to a Level III data validation per the QAPP (Tetra Tech, 2014). All validation was performed per the USEPA Contract Laboratory Program National Functional Guidelines for Superfund Organic Methods Data Review, EPA-540-R-08-01, June 2008 and the USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review, OSWER 9240.1-5, EPA 540-R-10-01, January 2010.

Data was flagged by this review as discussed below, and have been included in all data presented in this Annual Comprehensive Groundwater Monitoring Report.

3.2 REPORTING

Data validation reports for the Spring (First Half) 2014 and Fall (Second Half) 2014 groundwater monitoring events are provided in Appendix E. Data validation findings and qualifications/flags for the Spring (First Half) 2014 and Fall (Second Half) 2014 groundwater monitoring events are summarized in Appendix E.

3.3 DATA VALIDATION FINDINGS

All data (100%) were found to be useable with qualifications as appropriate and provided in Table 4 of the Appendix E. There was no evidence of systemic laboratory error or data bias.

3.4 DATA STORAGE

Backup information for the data evaluation and validation findings includes the following:

- Laboratory hardcopy data packages, assembled in sample delivery group (SDG) units, which include all QC data (Appendix E);
- Project and laboratory electronic databases, which include all sample concentration data with laboratory data flags. The project and laboratory electronic data are stored in Tetra Tech computer servers with centralized data backup management; and
- Chain-of-Custody forms, tracking records and laboratory bench records and sample custody logs maintained by the laboratory (included in laboratory data reports).

3.5 DATA QUALITY ASSESSMENT AND QC DATA

Sample results were evaluated to determine whether the quantitative and qualitative needs of the sampling and analysis program were within industry standards with respect to precision, accuracy, representativeness, and comparability.

Qualitative DQIs: Qualitative data quality indeces (DQIs) are comparability and representativeness.

- **Comparability**: Comparability expresses the confidence with which one data set can be compared to another. All USEPA Methods used are consistent with the current standards of practice as approved by USEPA. The methods specified allow the data to be evaluated for trends or changes (in space or time) at or near the Site. All groundwater data were calculated and reported in units consistent with standard procedures (i.e., µg/L) so that the results of the analyses can be compared with those of other laboratories, if necessary. The DQI for comparability is acceptable.

- **Representativeness**: Representativeness is the degree to which data accurately and precisely represent the actual Site conditions (in terms of a population, parameter variations at a sampling point, process condition, or environmental condition). To address representativeness, the approved field sampling plan (FSP) specified sufficient and proper number and locations of samples; incorporating appropriate sampling methodologies; specifying and performing proper sample collection and preservation techniques; selecting appropriate methods to prepare and analyze groundwater samples; and establishing proper field and laboratory QA/QC procedures for the parameters of interest. Samples were collected and analyzed in accordance with the FSP (Tetra Tech, 2014). The DQI for representativeness is acceptable.

Quantitative DQIs: Quantitative DQIs are precision and accuracy. If matrix bias is suspected, the associated data will be qualified and the direction of the bias indicated in the data validation report.

- **Precision**: Precision measures the reproducibility of repetitive measurements by assessing the relative percent difference (RPD) between field sample and field duplicate analyses. The FSP requires that a minimum of one duplicate sample be collected for every 20 samples (or 5%). A total of 69 primary samples and eight duplicate samples were collected, meeting this requirement. The duplicate samples were collected on the same day as the associated original samples. RPDs for duplicate samples were within the standard control limit of 30% except where noted and qualified in Table 4 of the Tier II report. Duplicate samples are further discussed in the Level II validation memorandum.

- **Accuracy**: Accuracy is a statistical measurement (the degree of agreement of a measurement with a known or true value) of correctness and includes components of random error (variability due to imprecision) and systematic error. Laboratory accuracy is expressed as the percent recovery by assessing MS/MSD (analyte-dependent control limits as listed in the laboratory reports). All recoveries were reported within the corresponding laboratory-established, constituent-specific, control limits, except where

discussed in Table 4 of the Level II report (Appendix E). The accuracy DQI is acceptable.

- **Completeness**: All data was found to be usable and the data set is considered to be 100% complete.

4.0 RESULTS AND DISCUSSION

This section summarizes the results of the Spring (First Half) 2014 and Fall (Second Half) 2014 groundwater monitoring and sampling events. Copies of the laboratory analytical reports and chain of custody records associated with the Fall (Second Half) 2014 groundwater monitoring and sampling event are provided as Appendix F. A copy of the Spring 2014 groundwater monitoring and sampling event data submittal including all testing, tables, figures, and attachments is provided as Appendix G to this Annual Comprehensive Groundwater Monitoring Report.

4.1 GROUNDWATER ELEVATION DATA

Synoptic static groundwater elevation measurements were collected from PVOU SZ, PVOU IZ, and PVOU PZ monitoring and extraction wells on March 12 and 13, 2014 and August 25 and 26, 2014 in cooperation with NG.

Groundwater elevation measurements were obtained utilizing a reference point marked on the top of each well casing, which were established by a licensed land surveyor. The groundwater elevations presented in this Annual Comprehensive Groundwater Monitoring Report are based on a common vertical datum, (North American Vertical Datum 1988 [NAVD 88]). Depth to groundwater measurements were collected to the nearest 0.01 feet at conventional monitoring wells using an electronic flat tape water level meter.

Groundwater elevations were calculated by subtracting the measured depth to the groundwater surface reading from the top of casing reference elevation point. Groundwater elevations for the multi-port Westbay monitoring wells were calculated from their respective pressure readings. Current and historical groundwater level measurements and groundwater elevations are summarized in Table 3.

Tetra Tech attempted to collect static groundwater elevation measurements from 90 groundwater monitoring wells and PVOU SZ extraction wells during the Spring (First Half) 2014 groundwater monitoring and sampling event. Groundwater elevation measurements could not be obtained from the following eleven groundwater monitoring wells, which were dry due to declining water levels within the PVOU: MP20-5, MW-01A, MW-02, MW-03, MW-10, MW-13, MW-14, MW-16S, MW-17S, MW-18D and MW6-37. Hence, groundwater elevation measurements were collected from 79 groundwater monitoring and PVOU SZ extraction wells during the Spring (First Half) 2014 groundwater monitoring and sampling event.

Tetra Tech attempted to collect static groundwater elevation measurements from 90 groundwater monitoring wells and PVOU SZ extraction wells during the Fall (Second Half) 2014 groundwater monitoring and sampling event. Groundwater elevation measurements could not be obtained from the following 18 groundwater monitoring wells, which were “dry” due to declining water levels within the PVOU: MP20-5, MW-01A, MW-02, MW-03, MW-09, MW-10, MW-13, MW-14, MW-15 (LCW-10), MW16S, MW-16D, MW-17S, MW-18S, MW-18D, MW-19, MW6-37, OP-MW-01, and OP-MW-04. Hence, groundwater elevation measurements were collected from 72 groundwater monitoring and PVOU SZ extraction wells during the Spring (First Half) 2014 groundwater monitoring and sampling event.

4.1.1 Hydrographs

Hydrographs illustrating groundwater elevation fluctuations over time are provided as Appendix H. For the wells that were dry when sampled the elevation of the well screen bottom is indicated on the hydrograph. Monitoring well clusters (e.g., the MW6-6 well cluster) and multi-port wells are shown on the same hydrograph. All other wells are shown on individual hydrographs. Historical rainfall data for Covina, California (Station 042090) and cumulative departure of the most recent 12 months of rainfall from the mean annual rainfall are shown in Appendix I. Total rainfall from January 2014 to November 2014 was 4.78 inches, which is 12.09 inches below the annual mean value of 16.87 inches.

4.1.2 Water Level Contour Maps

Although the PVOU SZ is interpreted to be a single aquifer zone, the PVOU SZ was divided into an upper and lower portion at the request of the USEPA. Tetra Tech selected slice 2 as defined in the numeric PVOU groundwater flow model that is currently available to Tetra Tech and UTC/Carrier as the dividing line between the upper portion of the PVOU SZ and the lower portion of the PVOU SZ. The upper portion of the PVOU SZ corresponds to the wells that are screened above or across slice 2 of the current PVOU numeric groundwater flow model. The lower portion of the PVOU SZ corresponds to the wells that are screened between slices 2 and 4 of the current PVOU numeric groundwater flow model.

Groundwater elevation contour maps were prepared for the upper portion of the PVOU SZ (Figures 4 and 8), the lower portion of the PVOU SZ (Figures 5 and 9), the PVOU IZ in the Mid-Valley area (Figures 6 and 10), and the PVOU PZ in the Mid-Valley area (Figures 7 and 11) for both Spring (First Half) and Fall (Second Half) 2014 sampling events.

Groundwater elevations in the upper portion of the PVOU SZ at the MOV ranged from 195.66 feet above mean sea level (amsl) in monitoring well MW8-1A to 251.57 feet amsl in monitoring well MW-05, respectively. The average groundwater elevation in the upper portion of the PVOU SZ at the MOV during the Fall (Second Half) 2014 event was 210.25 feet, which is 6.5 feet lower than the Spring 2013 (First Half) 2014 event average, based on the wells that were monitored in both sampling events. Groundwater flow direction in the upper portion of the PVOU SZ at the MOV, based on groundwater elevations measured during these two 2014 sampling events, are generally toward the northwest. See Figures 4 and 8.

Groundwater elevations in the lower portion of the PVOU SZ at the MOV ranged from 188.14 feet amsl in monitoring well MW8-2D to 217.07 feet amsl in monitoring well MP21-6, respectively. The average groundwater elevation in the lower portion of the PVOU SZ at the MOV during the Fall (Second Half) 2014 event was 201.18 feet, which is 6.76 feet lower than the Spring 2013 (First Half) 2014 event average, based on the wells that were monitored in both sampling events. Groundwater flow direction in the lower portion of the PVOU SZ at the MOV, based on groundwater elevations measured during these two 2014 sampling events, are generally toward the north and northwest. See Figures 5 and 9.

The groundwater elevations in the PVOU IZ Mid-Valley monitoring wells ranged from 195.51 feet amsl in MW6-45 to 278.01 feet amsl in MW6-63. The average groundwater elevation in the

PVOU IZ Mid-Valley monitoring wells in the Fall (Second Half) 2014 event was 242.37 feet amsl, which is 4.6 feet lower than the Spring (First Half) 2014 event average. Groundwater flow direction was generally toward the north and northwest for the PVOU IZ in the Mid-Valley area during the Spring (First Half) 2014 and Fall (Second Half) 2014 groundwater monitoring and sampling events. See Figures 6 and 10.

The groundwater elevations in the PVOU PZ Mid-Valley monitoring wells ranged from 154.52 feet amsl in MW-D2 to 321.06 feet amsl in MW-D1. The average groundwater elevation in the PVOU PZ Mid-Valley monitoring wells in the Fall (Second Half) 2014 event was 237.17 feet amsl, which is 16.18 feet lower than the Spring (First Half) 2014 event average. Groundwater flow direction was generally toward the northwest for the PVOU PZ in the Mid-Valley Area during the Spring (First Half) 2014 and Fall (Second Half) 2014 monitoring and sampling events. See Figures 7 and 11.

4.1.3 Calculated Hydraulic Gradients

4.1.3.1 Horizontal Gradients

Horizontal groundwater gradients were calculated for upper and lower portions of the PVOU SZ at the MOV. The horizontal gradients were calculated by utilizing triangulation methods. The results are provided below and shown on Figures 4 and 5 for the Spring First Half) 2014 groundwater monitoring and sampling event, and Figure 8 and 9 for Fall (Second Half) 2014 groundwater monitoring and sampling event.

Spring (First Half) 2014			
Monitoring Wells	**Groundwater Elevation (feet amsl)**	**Horizontal Gradient (feet/foot, dimensionless)**	**Flow Direction/Degrees from North**
Upper Portion of the PVOU SZ			
MW6-19 (LCW-05) MW6-09 MW-17D (LCW-08)	209.51 213.26 214.66	0.0073	NW/348.5°
MW-17D (LCW-08) MW-08 MW-06	214.66 225.56 222.88	0.0084	NW/318.3°
Lower Portion of the PVOU SZ			
MW6-18 (LCW-04) MW6-15 MW6-17	205.47 208.27 208.46	0.0052	NW/339.4°
MW6-11 MW6-14 (SW-03) MW6-13	213.34 210.52 214.61	0.0069	NW/357.1°

Fall (Second Half) 2014			
Monitoring Wells	**Groundwater Elevation (feet amsl)**	**Horizontal Gradient (feet/foot, dimensionless)**	**Flow Direction/Degrees from North**
Upper Portion of the PVOU SZ			
MW6-19 (LCW-05) MW6-09 MW-17D (LCW-08)	204.50 208.87 210.53	0.0086	NW/348.3°
MW-17D (LCW-08) MW-08 MW-06	210.53 221.91 219.95	0.0100	NW/331°
Lower Portion of the PVOU SZ			
MW6-18 (LCW-04) MW6-15 MW6-17	198.64 201.46 202.00	0.0059	NW/343.8°
MW6-11 MW6-14 (SW-03) MW6-13	207.20 203.98 208.39	0.0075	N/0.40°

4.1.3.2 Vertical Gradients

Water levels in nested well clusters or wells located closely together were used to indicate upward or downward flow between adjacent geologic units. Vertical hydraulic gradients were calculated by subtracting the hydraulic head value in the deeper well from the value in the shallower well and dividing the remainder by the vertical distance between the midpoints of the well screens if the well screen is below the water level. If the well is screened across the water table, midpoint between the water table and the bottom of the well screen was used in the calculation. A downward flow direction is indicated if the gradient is negative, meaning the hydraulic head is less at depth. Conversely, an upward flow direction is indicated if the gradient is positive, meaning the hydraulic head is greater at depth. The magnitude of the gradient indicates its significance. Vertical gradients were calculated at multi-port wells MP-20 and MP-21, and the MW6-3, MW6-4, and MW6-6 well cluster.

The calculated vertical gradients are as follows:

- Downward vertical gradients were measured in the PVOU SZ ranging from -0.1115 to -0.0225 feet/foot during the Spring (First Half) 2014 sampling event, and ranging from -0.1369 to -0.0298 feet/foot during the Fall (Second Half) 2014 sampling event;

- Downward vertical gradients were meaured in the IZ ranging from -0.4340 to -0.0173 feet/foot during the Spring (First Half) 2014 monitoring event, and ranging from -0.8190 to -0.0771 feet/foot during the Fall (Second Half) 2014 sampling;

- Downward vertical gradients were meaured in the PZ ranging from -0.4418 to -0.0728 feet/foot during the Spring (First Half) 2014 sampling event, and ranging from -0.2238 to -0.0815 feet/foot during the Fall 2014 sampling event.

4.2 GROUNDWATER QUALITY DATA

This section summarizes the groundwater quality data associated with the Fall (Second Half) 2014 groundwater monitoring and sampling event. Copies of the laboratory analytical reports and chain of custody records associated with the Fall (Second Half) 2014 groundwater monitoring and sampling event are provided as Appendix F.

4.2.1 Volatile Organic Compounds, 1,4-Dioxane and Perchlorate

The Fall (Second Half) 2014 groundwater analytical results are summarized in Table 8 and discussed in the following subsections. Isoconcentration contour maps are presented for tetrachloroethene (PCE; Figure 12), trichloroethene (TCE; Figure 13), 1,1-dichloroethene (1,1-DCE; Figure 14), and 1,4-dioxane (Figure 15). USEPA's cross-section B-B' has been updated to reflect the analytical data collected during this monitoring and sampling event (Figure 16). Contaminant time series plots are provided as Appendix J.

4.2.1.1 Mouth of the Valley Groundwater Monitoring and Sampling

As discussed in Section 1.2 and summarized in the table below, the PVOU SZN MOV monitoring well network consists of 64 groundwater monitoring wells. See Figure 2. Groundwater monitoring wells VCW-01 and VCW-03 are screened in the PVOU IZ. The other 62 MOV groundwater monitoring wells are screened in the PVOU SZ.

Tetra Tech attempted to collect groundwater samples from these 64 groundwater monitoring wells during the Fall (Second Half 2014) groundwater monitoring and sampling event. Due to declining groundwater levels in the PVOU, 19 groundwater monitoring wells (marked with an asterisk in the table below) did not contain sufficient water for sample collection. Therefore, groundwater samples were collected from 43 PVOU SZ wells and two PVOU IZ wells (VCW-01 and VCW-03), and submitted to Calscience for analysis VOCs by USEPA Method 8260B, 1,4-dioxane by USEPA Method 522, and perchlorate by USEPA Method 331.

MP-20-4	MW-08	MW-17D (LCW-08)	MW6-14 (SW-03)	MW8-1A	MW8-3C	VCW-03 (IZ)
MP20-5*	**MW-09***	**MW-17S***	MW6-15	MW8-1B	MW8-3D	VCW-06
MP-21-6	**MW-10***	**MW-18D***	MW6-16	MW8-1C	**P-1A***	VCW-07
MW-01A *	MW-11	**MW-18S***	MW6-17	MW8-1D	P-1B	VCW-09
MW-01B*	MW-12	**MW-19***	MW6-18 (LCW-04)	MW8-2A	P-1C	
MW-02*	**MW-13***	MW6-09	MW6-19 (LCW-05)	MW8-2B	P-1D	
MW-03*	**MW-14***	MW6-10	MW6-21	MW8-2C	SW-04	
MW-05*	**MW-15***	MW6-11	MW6-35	MW8-2D	SW-05	
MW-06	**MW-16D***	MW6-12	MW6-36	MW8-3A	VCW-01(IZ)	
MW-07 (SW-01)	**MW-16S***	MW6-13	**MW6-37***	MW8-3B	VCW-02	

The VOC, 1,4-dioxane, and perchlorate analytical associated with the Fall (Second Half 2014) PVOU SZN MOV groundwater monitoring and sampling are discussed below.

- 1,1-DCE concentrations ranged between not detected above the laboratory reporting limit of 0.5 µg/L (ND (0.5 µg/L)) and 370 µg/L (groundwater monitoring well MW6-13) during the Fall (Second Half) 2014 groundwater monitoring event. 1,1-DCE exceeded the PVOU SZ Performance Criteria of 60 µg/L in three of the 43 PVOU SZ wells associated with the Fall (Second Half) 2014 groundwater monitoring event. 1,1-DCE concentrations did not exceeded the PVOU IZ Performance Criteria of 6.0 µg/L in two PVOU IZ wells (VCW-01 and VCW-03);

- 1,4-dioxane concentrations ranged between ND (0.1 µg/L) and 56 µg/L (groundwater monitoring well MW 6-13) during the Fall (Second Half) 2014 groundwater monitoring event. 1,4-dioxane exceeded the PVOU SZ Performance Criteria of 10 µg/L in five of the 43 PVOU SZ wells. 1,4-dioxane concentrations exceeded the PVOU IZ Performance Criteria of 1.0 µg/L in both PVOU IZ wells (VCW-01 and VCW-03);

- TCE concentrations ranged between ND (0.5 µg/L) and 210 µg/L (groundwater monitoring well MW 6-17) during the Fall (Second Half) 2014 groundwater monitoring event. TCE concentrations exceeded the PVOU SZ Performance Criteria of 50 µg/L in five of the 43 PVOU SZ monitoring wells. TCE concentrations exceeded the PVOU IZ Performance Criteria of 5.0 µg/L in one of two PVOU IZ wells (VCW-03);

- PCE concentrations ranged between ND (0.5 µg/L) and 110 µg/L (monitoring well SW-04) during the Fall (Second Half) 2014 groundwater monitoring event. PCE concentrations exceeded the PVOU SZ Performance Criteria of 50 µg/L in two of the 43 PVOU SZ monitoring wells. PCE concentrations exceeded the PVOU IZ Performance Criteria of 5.0 µg/L in one of the two PVOU IZ wells (VCW-01);

- Cis-1,2 DCE concentrations ranged between ND (0.5 µg/L) and 17 µg/L (groundwater monitoring well MW-07 and SW-04) during the Fall (Second Half) 2014 groundwater monitoring event. Cis-1,2 DCE did not exceed the PVOU SZ Performance Criteria of 60 µg/L in any of the 43 PVOU SZ wells associated with the Fall (Second Half) 2014 groundwater monitoring event. cis-1,2 DCE concentrations did not exceeded the PVOU IZ Performance Criteria of 6.0 µg/L in either of the two PVOU IZ wells (VCW-01 and VCW-03);

- 1,2-dichloroethane (1,2-DCA) concentrations ranged between ND (0.5 µg/L) and 0.70 µg/L (groundwater monitoring well MW6-13) during the Fall (Second Half) 2014 groundwater monitoring event. 1,2-DCA did not exceed the PVOU SZ Performance Criteria of 5 µg/L in any of the 43 PVOU SZ wells or the IZ Performance Criteria of 0.5 µg/L in the two PVOU IZ groundwater monitoring wells (VCW-01 and VCW-03);

- Perchlorate concentrations ranged between ND (0.01 µg/L) and 13 µg/L (groundwater monitoring well MW8-3A) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ or PVOU IZ Performance Criteria for perchlorate;

- 1,1,2-trichloroethane (1,1,2-TCA) concentrations ranged between ND (0.5 µg/L) and 1.3 µg/L (groundwater monitoring well MW6-13) during the Fall (Second Half) 2014 groundwater monitoring event. 1,1,2-TCA did not exceed the PVOU SZ Performance Criteria of 30 µg/L in any of the 43 PVOU SZ groundwater monitoring wells or the IZ Performance Criteria of 3.0 µg/L in the two PVOU IZ groundwater monitoring wells (VCW-01 and VCW-03);

- 1,1-DCA concentrations ranged between ND (0.5 µg/L) and 23 µg/L (groundwater monitoring well MW6-13) during the during the Fall (Second Half) 2014 groundwater monitoring event. 1,1-DCA did not exceed the PVOU SZ Performance Criteria of 50 µg/L in any of the 43 PVOU SZ wells or the PVOU IZ Performance Criteria of 5.0 µg/L in the two PVOU IZ groundwater monitoring wells (VCW-01 and VCW-03);

- Bromoform concentrations ranged between ND (0.5 µg/L) and 0.5 µg/L (groundwater monitoring well MW6-36) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ or PVOU IZ Performance Criteria for bromoform;

- Carbon disulfide concentrations ranged between ND (1.0 µg/L) and 0.92J µg/L (monitoring well VCW-07) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ or PVOU IZ Performance Criteria for carbon disulfide;

- Carbon tetrachloride concentrations ranged between ND (0.5 µg/L) and 0.49J µg/L (monitoring well P-1B) during the Fall (Second Half) 2014 groundwater monitoring event. Carbon tetrachloride did not exceed the PVOU SZ Performance Criteria of 5 µg/L in any of the 43 PVOU SZ wells or the PVOU IZ Performance Criteria of 0.5 µg/L in the two PVOU IZ groundwater monitoring wells (VCW-01 and VCW-03);

- Chloroform (a common laboratory contaminant) concentrations ranged between ND (0.5 µg/L) and 2.8 µg/L (groundwater monitoring well MW8-2C) during the Fall (Second Half) 2014 groundwater monitoring event. Chloroform did not exceed the PVOU SZ Performance Criteria of 1,000 µg/L in any of the 43 PVOU SZ wells or the PVOU IZ Performance Criteria of 100 µg/L in the two PVOU IZ groundwater monitoring wells (VCW-01 and VCW-03);

- 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) concentrations ranged between ND (0.5 µg/L) and 2.8 µg/L (groundwater monitoring well MW-07) during the Fall (Second Half) 2014 groundwater monitoring event. 1,1,2-Trichloro-1,2,2-trifluoroethane did not exceed the PVOU SZ Performance Criteria of 12,000 µg/L in any of the in any of the 43 PVOU SZ wells or the PVOU IZ Performance Criteria of 1,200 µg/L in the two PVOU IZ groundwater monitoring wells (VCW-01 and VCW-03);

- Dichlorodifluoromethane concentrations ranged between ND (0.5 µg/L) and 0.76 µg/L (monitoring well P-1B) during the Fall (Second Half) 2014 groundwater monitoring

event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ or PVOU IZ Performance Criteria for dichlorodifluoromethane;

- Methyl tert-butyl ether (MTBE) concentrations ranged between ND (0.5 µg/L) and 47 µg/L (monitoring well VCW-06) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ Performance Criteria for MTBE;

- Methylene chloride concentrations ranged between ND (1.0 µg/L) and 0.45J µg/L (monitoring well VCW-07) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ or PVOU IZ Performance Criteria for methylene chloride;

- Tert-Butyl Alcohol (TBA) concentrations ranged between ND (10 µg/L) and 5.6J µg/L (groundwater monitoring well MW6-09) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ or PVOU IZ Performance Criteria for TBA;

- Trans-1,2-DCE concentrations ranged between ND (0.5 µg/L) and 2.2 µg/L (groundwater monitoring well MW-07) during the Fall (Second Half) 2014 groundwater monitoring event. Trans 1,2-DCE did not exceed the PVOU SZ Performance Criteria of 100 µg/L or the PVOU IZ Performance Criteria of 10 µg/L in the two PVOU IZ groundwater monitoring wells (VCW-01 and VCW-03);

- Trichlorofluoromethane concentrations ranged between ND (0.5 µg/L) and 1.9 µg/L (monitoring well VCW-02) during the Fall (Second Half) 2014 groundwater monitoring event. Trichlorofluoromethane did not exceed the PVOU SZ Performance Criteria of 1,500 µg/L in any of the 43 PVOU SZ wells or the PVOU IZ Performance Criteria of 150 µg/L in the two PVOU IZ groundwater monitoring wells (VCW-01 and VCW-03); and

- Acetone concentrations ranged between ND (10 µg/L) and 5.7J µg/L (groundwater monitoring well MW-11) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ or PVOU IZ Performance Criteria for acetone.

Westernmost Plume Monitoring

Tetra Tech attempted to collect groundwater samples from the six Westernmost Plume Monitoring Wells (OP-MW-01, OP-MW-02, OP-MW-04, OP-MW-06, MW6-20A, and MW6-20B) during the Fall (Second Half 2014) groundwater monitoring and sampling event. Due to declining groundwater levels in the PVOU, Westernmost Plume monitoring wells OP-MW-01, OP-MW-02 did not contain sufficient water for sample collection. Therefore, groundwater

samples were collected from Westernmost Plume Monitoring Wells OP-MW-04, OP-MW-06, MW6-20A, and MW6-20B, and submitted to Calscience for analysis VOCs by USEPA Method 8260B, 1,4-dioxane by USEPA Method 522, and perchlorate by USEPA Method 331.

A summary of the analytical results for the detected compounds in the Westernmost Plume monitoring wells is provided below.

- 1,1-DCE concentrations ranged between ND (0.5 µg/L) and 4.7 µg/L (monitoring well OP-MW-04) during the Fall (Second Half) 2014 groundwater monitoring event. 1,2-DCA did not exceed the PVOU SZ Performance Criteria of 60 µg/L in any of the four Westernmost Plume monitoring wells associated with the Fall (Second Half) 2014 groundwater monitoring event;

- 1,4-dioxane concentrations ranged between ND (0.1 µg/L) and 1.5 µg/L (monitoring well OP-MW-04) during the Fall (Second Half) 2014 groundwater monitoring event. 1,4-dioxane did not exceed the PVOU SZ Performance Criteria of 10 µg/L in any of the four Westernmost Plume monitoring wells associated with the Fall (Second Half) 2014 groundwater monitoring event;

- Chloroform (a common laboratory contaminant) concentrations ranged between ND (0.5 µg/L) and 0.23J µg/L (monitoring well OP-MW-04) during the Fall (Second Half) 2014 groundwater monitoring event. Chloroform did not exceed the PVOU SZ Performance Criteria of 1,000 µg/L in any of the four Westernmost Plume monitoring wells associated with the Fall (Second Half) 2014 groundwater monitoring event;

- Perchlorate concentrations ranged between ND (0.1 µg/L) and 4.4 µg/L (monitoring well OP-MW-04) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ Performance Criteria for perchlorate; and

- PCE concentrations ranged between ND (0.5 µg/L) and 0.3J µg/L (monitoring well OP-MW-06) during the Fall (Second Half) 2014 groundwater monitoring event. PCE concentrations did not exceed the PVOU SZ Performance Criteria of 50 µg/L in any of the 4 Westernmost Plume monitoring wells associated with the Fall (Second Half) 2014 groundwater monitoring event.

<u>Mid-Valley Monitoring</u>

Groundwater samples were collected from PVOU IZ wells MW6-71, MW6-62, MW6-63, MW6-17I, and MW6-45, PVOU PZ wells MW-D1, MW6-61, MW-D2, and MW6-44, and PVOU SZ groundwater monitoring wells MW 6-64, and MW 6-65 during the Fall (Second Half 2014) groundwater monitoring and sampling event, and submitted to Calscience for analysis for VOCs by USEPA Method 8260B, 1,4-dioxane by USEPA Method 522, and perchlorate by USEPA Method 331. A summary of the analytical results for the VOCs detected in the Mid-Valley monitoring wells is provided below.

- 1,1-DCE concentrations ranged between ND (0.5 µg/L) and 2.5 µg/L (groundwater monitoring well MW6-71) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. 1,1-DCE concentrations did not exceed the PVOU SZ Performance Criteria of 60 µg/L in either of the two PVOU SZ wells. 1,1-DCE concentrations did not exceed the PVOU IZ and PZ Performance Criteria of 6 µg/L in any of the PVOU IZ and PZ wells;

- 1,4-dioxane concentrations ranged between ND (0.1 µg/L) and 1.5 µg/L (groundwater monitoring well MW 6-17I) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. 1,4-dioxane concentrations did not exceed the PVOU SZ Performance Criteria of 10 µg/L in either of the two PVOU SZ wells. 1,4-dioxane concentrations exceeded the PVOU IZ Performance Criteria of 1 µg/L in one of the 4 PVOU IZ wells (groundwater monitoring well MW 6-17I) and did not exceed the PVOU PZ Performance Criteria of 1 µg/L in any of the four PVOU PZ Mid-Valley monitoring wells;

- Carbon Tetrachloride concentrations ranged between ND (0.5 µg/L) and 1.5 µg/L (groundwater monitoring well MW6-62) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. Carbon Tetrachloride concentrations did not exceed the PVOU SZ Performance Criteria of 5 µg/L in either of the two PVOU SZ Mid-Valley wells. Carbon tetrachloride concentrations exceeded the PVOU IZ performance criteria of 0.5 µg/L in twoof the five PVOU IZ Mid-Valley monitoring wells (MW6-71 and MW6-62) associated with the Fall (Second Half) 2014 groundwater monitoring event;

- Chloroform (a common laboratory contaminant) concentrations ranged between ND (0.5 µg/L) and 0.53 µg/L (groundwater monitoring well MW6-62) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. Chloroform concentrations did not exceed the PVOU SZ Performance Criteria of 1,000 µg/L in either of the two PVOU SZ Mid-Valley wells. Chloroform concentrations did not exceed the PVOU IZ Performance Criteria of 100 µg/L in any of the four PVOU IZ or the four PVOU PZ Mid-Valley monitoring wells;

- Cis-1,2-Dichloroethene concentrations ranged between ND (0.5 µg/L) and 12.0 µg/L (groundwater monitoring well MW 6-65) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. Cis-1,2-dichloroethene concentrations did not exceed the PVOU SZ Performance Criteria of 60 µg/L in either of the two PVOU SZ Mid-Valley wells. Cis-1,2-dichloroethene concentrations did not exceed the PVOU IZ and PZ Performance of 6 µg/L in any of the four PVOU IZ or the four PVOU PZ Mid-Valley monitoring wells;

- 1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113) concentrations ranged between ND (0.5 µg/L) and 0.47J µg/L (groundwater monitoring well MW6-64) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. 1,1,2-Trichloro-1,2,2-trifuoroethane

concentrations did not exceed the PVOU SZ Performance Criteria of 12,000 µg/L in either of the two PVOU SZ Mid-Valley wells. 1,1,2-Trichloro-1,2,2-trifuoroethane concentrations did not exceed the PVOU IZ and PZ Performance Criteria of 1,200 µg/L in any of the four PVOU IZ or the four PVOU PZ Mid-Valley monitoring wells;

- MTBE concentrations ranged between ND (0.5 µg/L) and 0.35J µg/L (groundwater monitoring well MW6-65) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ Performance Criteria for MTBE. MTBE concentrations did not exceed the IZ Performance Criteria of 13 µg/L in any of the five PVOU IZ monitoring wells or the four PVOU PZ Mid-Valley monitoring wells;

- Perchlorate concentrations ranged between ND (0.01 µg/L) and 14 µg/L (groundwater monitoring well MW6-62) during the Fall (Second Half) 2014 groundwater monitoring event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ Performance Criteria for perchlorate. Perchlorate concentrations exceeded the PVOU MCL in one of the five PVOU IZ Mid-Valley monitoring wells (MW6-62). Perchlorate concentrations did not exceed the MCL of 6 µg/L in any of the four PVOU IZ monitoring wells (groundwater monitoring well), and;

- Trans-1,2-Dichloroethene concentrations ranged between ND (0.5 µg/L) and 0.37J (groundwater monitoring well MW6-65) µg/L in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. Trans 1,2-DCE concentrations did not exceed the PVOU SZ Performance Criteria of 100 µg/L in either of the two PVOU SZ Mid-Valley wells. Trans 1,2-DCE concentrations did not exceed the PVOU IZ and PZ Performance Criteria of 10 µg/L in any of the five PVOU IZ Mid-Valley monitoring wells or the four PVOU PZ Mid-Valley monitoring wells;

- Trichlorofluoromethane concentrations ranged between ND (0.5 µg/L) and 0.53 µg/L (groundwater monitoring well MW6-62) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. Trichlorofluoromethane concentrations did not exceed the PVOU SZ Performance Criteria of 1,500 µg/L in either of the two PVOU SZ Mid-Valley wells. Trichlorofluoromethane concentrations did not exceed the PVOU IZ Performance Criteria of 150 µg/L in any of the five PVOU IZ or four PVOU PZ Mid-Valley monitoring wells;

- PCE concentrations ranged between ND (0.5 µg/L) and 27 µg/L (groundwater monitoring well MW6-65) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. PCE concentrations did not exceed the PVOU SZ Performance Criteria of 50 µg/L in either of the two PVOU SZ Mid-Valley wells. PCE concentrations exceeded the PVOU IZ and PZ Performance Criteria of 5 µg/L in three of the five PVOU IZ Mid-

Valley monitoring wells and one of the four PVOU PZ Mid-Valley monitoring wells; and

- TCE concentrations ranged between ND (0.5 µg/L) and 22.0 µg/L (groundwater monitoring well MW6-65) in the groundwater samples collected from the Mid-Valley monitoring wells during the Fall (Second Half) 2014 groundwater monitoring event. TCE concentrations did not exceed the PVOU SZ Performance Criteria of 50 µg/L in either of the two PVOU SZ Mid-Valley wells associated with the Fall (Second Half) 2014 groundwater monitoring event. TCE concentrations did not exceed the PVOU IZ and PZ Performance Criteria of 5 µg/L in any of the five PVOU IZ Mid-Valley monitoring wells or the four PVOU PZ Mid-Valley monitoring wells.

4.2.1.2 Inorganic Constituents

A total of 63 groundwater monitoring and PVOU extraction wells were sampled and analyzed during the Fall (Second Half) 2014 comprehensive sampling event for hexavalent chromium by USEPA Method 218.6 and selenium (dissolved) by USEPA Method 6010B. Analytical results are summarized in Tables 9 and 10 and are discussed below.

- Hexavalent chromium (Cr VI) concentrations ranged between ND (0.02 µg/L) and 19.0 µg/L (groundwater monitoring well MW-08) during the Fall (Second Half) 2014 groundwater monitoring event. Cr VI concentrations exceed the MCL of 10 µg/L in three (groundwater monitoring wells MW-08, MW6-14 (SW-03), P-1D) of the PVOU monitoring wells associated with the Fall (Second Half) 2014 groundwater monitoring event; and

- Selenium (dissolved) concentrations ranged between ND (0.015 mg/L) and 0.0308 mg/L (monitoring well SW-04 during the Fall (Second Half) 2014 groundwater monitoring event. Selenium concentrations did not exceed the MCL of 0.050 mg/L in any of the PVOU monitoring wells associated with the Fall (Second Half) 2014 groundwater monitoring event.

4.2.1.3 Inorganic Constituents (Baseline Groundwater Quality Assessment)

The analytical results for inorganic constituents of groundwater samples collected from piezometers P-1A , P-1B, P-1C, and P-1D, monitoring wells MW8-1A through MW8-1D, MW8-2A through MW8-2D, and MW8-3A through MW8-3D, and PVOU SZ extraction wells S-05, S-06, S-07, S-09, S-10, and S-11 during the Fall (Second Half) 2014 groundwater monitoring event are summarized in the Table 11 and discussed below.

- Bicarbonate concentrations ranged between 180 and 443 mg/L (groundwater monitoring well MW8-1A) during the Fall (Second Half) 2014 groundwater monitoring event;

- Calcium concentrations ranged between 62.9 and 457 mg/L (extraction well S-09 during the Fall (Second Half) 2014 groundwater monitoring event;

- Magnesium concentrations ranged between 15.8 and 1,260 mg/L (extraction well S-09 during the Fall (Second Half) 2014 groundwater monitoring event;

- Potassium concentrations ranged between 2.16 and 537 mg/L (extraction well S-09 during the Fall (Second Half) 2014 groundwater monitoring event;

- Sodium concentrations ranged between 20.7 and 10,400 mg/L (extraction well S-09 during the Fall (Second Half) 2014 groundwater monitoring event;

- Boron concentrations ranged between 0.0199J and 0.248 mg/L (extraction well S-11) during the Fall (Second Half) 2014 groundwater monitoring event;

- Chloride concentrations ranged between 17 and 97 mg/L (extraction well S-07) during the Fall (Second Half) 2014 groundwater monitoring event;

- Fluoride concentrations ranged between 0.18 and 0.58 mg/L (groundwater monitoring well MW8-3D) during the Fall (Second Half) 2014 groundwater monitoring event;

- Nitrate concentrations ranged between 4.2 and 17.0 mg/L (groundwater monitoring well MW8-2C) during the Fall (Second Half) 2014 groundwater monitoring event;

- Nitrite concentrations ranged between ND (0.10 mg/L) and 2.1 mg/L (groundwater monitoring well MW8-2B) during the Fall (Second Half) 2014 groundwater monitoring event;

- Sulfate concentrations ranged between 32 and 230 mg/L (extraction well S-11) during the Fall (Second Half) 2014 groundwater monitoring event; and

- TDS concentrations ranged between 320 and 1110 mg/L (extraction well S-11) during the Fall (Second Half) 2014 groundwater monitoring event.

4.2.2 Contaminant Distributions

This section discusses the observed changes in lateral and vertical contaminant distributions. Isoconcentration contour maps depicting the distribution for individual COCs are presented as Figures 12 through 15 (PCE, TCE, 1,1-DCE, and 1,4-dioxane respectively). USEPA's cross section B-B' that traverses the site approximately along the axis of the PVOU SZ Eastern Plume has been updated to reflect the analytical data collected during this Fall (Second Half) 2014 groundwater monitoring event and is provided as Figure 16.

Consistent with previous sampling periods, four distinct groundwater plumes, which are referred to as the PVOU SZ Eastern Plume, the PVOU SZ Middle Plume, the PVOU SZ Western Plume, and the PVOU SZ Westernmost Plume are present in the PVOU SZ at the MOV (see Figure 2). The analytical data further indicate that the PVOU SZ Westernmost, Western and Middle Plumes are stable and/or receding. The length of the PVOU SZ Eastern Plume may be expanding. Additional discussion is provided below.

4.2.3 Temporal Trends in Contaminant Concentrations

This section discusses the observed temporal trends in contaminant concentrations. Such trends were evaluated by preparing and reviewing time-series plots to visually display the analyte results and assess potential temporal trends in concentrations (Appendix J). In addition, formal statistical trend analyses were performed to quantify the temporal trend and identify statistical significance in analyte concentration trends at individual monitoring wells (Appendix J). The results of these activities are discussed below:

4.2.3.1 Time –Series Plots for Analyte Concentrations

Analyte time-series plots showing contaminant concentrations versus time for the range of available data associated with TCE, PCE, 1,1-DCE, 1,1-DCA, 1,2-DCA, cis-1,2-DCE, and 1,4-dioxane were prepared and evaluated. At the request of the USEPA, there is one time series plot per well with all the aforementioned VOCs, and a logarithmic scale was applied to all wells. For all non-detected values the reporting limit was used to display on the graph. The time-series plots are provided in Appendix J.

4.2.3.2 Trend Analysis

At the USEPA's request, statistical trend analyses were performed to assist in identifying increasing and/or decreasing concentrations trends at individual wells for the following compounds:

- PCE;
- TCE;
- 1,1-DCE;
- 1,1-DCA;
- cis-1,2-DCE;
- 1,4-dioxane;
- Hexavalent chromium;
- Nitrate;
- Perchlorate; and
- TDS.

The statistical trend analyses were performed by subjecting historical analytical data for each of the 90 wells associated with the PVOU SZN well network to the Mann-Kendall Trend Test in ProUCL 5.0 (EPA, 2013). The results of the Mann-Kendall Trend Test indicate one of the following for a given data set:

- There is statistically significant evidence that there is an increasing trend;
- There is statistically significant evidence that there is a decreasing trend;
- There is insufficient evidence to identify a significant trend; and/or
- There is not enough data to perform a Mann-Kendall Trend analysis.

The Mann-Kendall Trend analysis is a non-parametric method, which means that there is no assumption of a statistical distribution of the data. The Mann-Kendall Trend Test is also capable of analyzing data collected at irregular intervals (e.g., semiannually in 1999, two quarters in 2000, not at all in 2001, semiannually in 2002, once in 2003).

The trend analyses were conducted with a level of confidence of 0.95 (0.05 level of significance). The 0.95 level of confidence represents the very high likelihood that the outcomes of the Mann-Kendall Trend Tests are reliable. The test hypothesizes that there is no temporal trend to the data. If the probability, p, associated with the calculated Mann-Kendall Trend Test statistic is less than the 0.05 level of significance, the hypothesis of no data trend is rejected because there is evidence that supports a trend in the data. If, however, this probability is greater than 0.05 there is not enough evidence to imply a data trend, and the test's underlying hypothesis can be supported.

A dataset of at least 10 to 12 unique sample events (per well) is preferred for the Mann-Kendall Trend Test (Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009, EPA 530/R-09-007). A minimum of four unique observations were the defining criteria required to perform the Mann-Kendall Trend Test; less than four unique observations were identified to be an insufficient amount of data to perform the Mann-Kendall Trend Test (Recommended Approach for Evaluating Completion of Groundwater Restoration Remedial Actions at a Groundwater Monitoring Well, OSWER 9283.1-44, August 2014).

The data used in the trend analyses were extracted from groundwater data collected on behalf of UTC/Carrier since inception of the PVOU SZN Interim Remedy as well as data collected by others that are available in the San Gabriel Basin database that is maintained by the USEPA. These data include results for samples collected from 1994 through 2014. In accordance with the ProUCL User's Guide, the data were "prepared" for the trend analysis in the following manner:

- Estimated concentrations ("J" flagged results) were used as actual concentrations;
- Analytical results without qualifiers ("J", "U", "=", etc.) were assumed to be equal to the reported concentrations;
- The quantitation limit was identified and used for non-detected results;
- Duplicate samples were omitted from the analysis;
- If replicate results were associated with a specific day, only one result was used in the analysis. A single result was chosen using random selection (coin flip); and
- Nitrate concentrations expressed as nitrate as N were converted to nitrate as NO_3 prior to being evaluated in the trend analysis.

The Mann-Kendall Trend Test results for the PVOU SZ are summarized in Table 5 and on Figures 17 through 26. The Mann Kendall Trend Test results for the PVOU IZ and the PVOU PZ wells monitored and sampled by UTC/Carrier are summarized in Table 5 and Figure 27. Copies of the Mann-Kendall Trend Test output for each of the individual compounds are included in Appendix K.

The Mann-Kendall Trend Test results indicate that there is insufficient evidence to identify a significant trend for the selected compounds in most of the monitoring wells. Stated another way, the concentrations of the selected compounds at these wells appear to be stable. The Mann-Kendall Trend Test results are discussed below.

VOCs and 1,4-dioxane Trend Analysis Results

The trend analyses indicate that the VOCs and 1,4-dioxane concentrations in most of the monitoring wells are stable, i.e. there is insufficient evidence to identify a significant trend (either increasing or decreasing), or are decreasing, as discussed below:

- Of the 82 groundwater monitoring wells and 9 groundwater extraction wells, 50 of the monitoring wells have at least one compound with decreasing concentration trends:
    - 11 of the 50 monitoring wells have decreasing concentration trends for all six compounds;
    - 13 of the 50 monitoring wells have decreasing concentration trends for five of the six compounds;
    - 8 of the 50 monitoring wells have decreasing concentration trends for four of the six compounds;
    - 4 of the 50 monitoring wells have decreasing concentration trends for three of the six compounds;
    - 7 of the 50 monitoring wells have decreasing concentration trends for two of the six compounds; and
    - 7 of the 50 monitoring wells have decreasing concentration trends for one of the six compounds.
- The concentrations of all six of the organic compounds are stable in 27 of the 82 wells; nine of the 27 wells with stable concentrations are extraction wells. The trend analysis for 68 of the 82 wells indicates that the concentration of at least one organic compound is stable;
- Concentration trends are increasing in 13 of the 82 monitoring wells:
    - 7 of the 13 monitoring wells have increasing concentrations trends for only one compound;
    - 3 of the 13 monitoring wells have increasing concentration trends for two compounds;
    - none of the 13 monitoring wells have increasing concentration trends for three compounds;
    - 1 of the 13 monitoring wells has increasing concentration trends for four compounds;
    - 1 of the 13 monitoring wells has increasing concentration trends for five compounds; and

- 1 of the 13 monitoring well has increasing concentration trends for all six compounds.

- For the remaining compounds at the monitoring wells analyzed there is not enough data to perform a Mann-Kendall analysis.

The 13 monitoring wells with increasing compound trends are reviewed in more detail below.

<u>Wells with an increasing concentration trend for one compound:</u>

- The trend analysis indicated an increasing trend for PCE concentrations in PVOU SZ monitoring well MW-06 (see Figure 17). The PCE concentrations have ranged from 1.0 µg/L to 55.2 µg/L at this well. The maximum PCE concentration detected in groundwater monitoring well MW-06 occurred in May 2009. The PCE concentrations in monitoring well MW-06 have all been well below the PVOU SZ Performance Criteria of 50 µg/L since May 2009.

- The trend analysis indicated an increasing trend for PCE concentrations in PVOU IZ monitoring well MW6-62 (see Figure 17). The PCE concentrations, which range from 5.6 µg/L to 17 µg/L, are all well below the PVOU SZ Performance Criteria of 50 µg/L. The maximum PCE concentration detected in groundwater monitoring well MW6-62 occurred over 12 years ago in March and August 2002. The current PCE concentration in PVOU IZ monitoring well MW6-62 is 14 µg/L.

- The trend analysis indicated an increasing trend for PCE concentrations in PVOU SZ monitoring well MW6-35 (see Figure 17). The PCE concentrations, which range from less than 1.0 µg/L to 25 µg/L, are all well below the PVOU SZ Performance Criteria of 50 µg/L. The maximum PCE concentration was detected in monitoring well MW6-35 in March 1998; the second highest detected concentration was 1.6 µg/L in August 2013.

- The trend analysis indicated an increasing trend for TCE concentrations in PVOU SZ well monitoring MW-18D (see Figure 18). The maximum TCE concentration detected in groundwater monitoring well MW-18D was in August and December 1999. The TCE concentrations, which range from less than 1 µg/L to 18 µg/L, are all well below the PVOU SZ Performance Criteria of 50 µg/L.

- The trend analysis indicated an increasing trend for 1,1-DCE concentrations in PVOU SZ monitoring well MW6-14 (see Figure 19). The 1,1-DCE concentrations in monitoring well MW6-14 have ranged from 0.25 µg/L to 400 µg/L. The maximum 1,1-DCE concentration detected in groundwater monitoring well MW6-14 was in September 2006; The 1,1-DCE concentrations have all been well below the PVOU SZ Performance Criteria of 60 µg/L since 2007.

- The trend analysis indicated an increasing trend for 1,1-DCE concentrations in PVOU PZ monitoring well MW6-71 (see Figure 19). The 1,1-DCE concentrations, which range from ND to 2.5 µg/L, are all well below the PVOU SZ Performance Criteria of 60 µg/L. The

maximum 1,1-DCE concentration detected in groundwater monitoring well MW6-62 occurred in August 2013 and September 2014.

- The trend analysis indicated an increasing trend for cis-1,1-DCE concentrations in PVOU SZ monitoring well MP21-6 (see Figure 21). The cis-1,1-DCE concentrations, which range from 0.38 µg/L to 0.52 µg/L, are all well below the PVOU SZ Performance Criteria of 60 µg/L. The maximum PCE concentration detected in groundwater monitoring well MP-21 occurred in September 2014.

Wells with increasing concentration trends for two compounds:

- The trend analysis indicated increasing trends for PCE and cis-1,2-DCE concentrations in PVOU SZ monitoring well MW-01B (see Figures 17, and 21), which is currently dry due to the declining groundwater levels in the PVOU. The PCE concentrations in monitoring well MW-01B have ranged between 1.4 µg/L and 124 µg/L. The maximum PCE concentration was detected in groundwater monitoring well MW-01B in August 2013 before decreasing to 60 µg/L in the subsequent (April 2014) groundwater monitoring event. PCE concentrations in monitoring well MW- 01B have exceeded the PVOU SZ Performance Criteria of 50 µg/L five times since 2002, including the two most current sampling events in August 2013 and April 2014. The cis-1,2-DCE concentrations, which range from ND to 20 µg/L, are all well below the PVOU SZ Performance Criteria of 60 µg/L at groundwater monitoring well MW-01B.

- The trend analysis indicated increasing trends for TCE and cis-1,2-DCE concentrations in PVOU SZ monitoring well MW6-65 (see Figure 18). The TCE concentrations, which range from 14.6 µg/L to 22 µg/L, are all well below the PVOU SZ Performance Criteria of 50 µg/L. Additionally, cis-1,2-DCE concentrations range from 8.6 µg/L to 12.0 µg/L and are all well below the PVOU SZ Performance Criteria of 60 µg/L.

- The trend analysis indicated an increasing trend for PCE and cis-1,2-DCE concentrations in PVOU SZ monitoring well P-1B (see Figure 17 and 21). The PCE concentrations, which range from 8.1 µg/L to 15 µg/L, are all well below the PVOU SZ Performance Criteria of 50 µg/L. Additionally, cis-1,2-DCE concentrations range from 0.64 µg/L to 1.3 µg/L and are all well below the PVOU SZ Performance Criteria of 60 µg/L. It is noted that this well was installed in April 2013, and has only been sampled four times, which is less than the preferred minimum of 10 to 12 unique sample events per well for the Mann-Kendall Trend Test (Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance, March 2009, EPA 530/R-09-007).

Well with increasing concentration trends for four compounds:

- The trend analysis indicated increasing trends for PCE, 1,1-DCE, 1,1-DCA, and cis-1,2-DCE concentrations in PVOU SZ monitoring well MW6-17 (see Figures 17, 19, 20, and 21). The PCE concentrations in monitoring well MW6-17 have ranged between 16 and 47.5 µg/L. The maximum PCE concentration was detected in April 2014. PCE concentrations in monitoring well MW6-17 have not exceeded the PVOU SZ

Performance Criteria of 50 µg/L. The 1,1-DCE concentrations in monitoring well MW6-17 have ranged between 23 and 220 µg/L. The maximum 1,1-DCE concentration was detected in January 2004; 1,1-DCE concentrations in monitoring well MW6-17 have consistently exceeded the PVOU SZ Performance Criteria of 60 µg/L since August 2009. The 1,1-DCA concentrations in monitoring well MW6-17 have ranged between 5.5 and 16 µg/L. The maximum 1,1-DCA concentration was detected in August 2014; 1,1-DCA concentrations in monitoring well MW6-17 have consistently remained well below the PVOU SZ Performance Criteria of 60 µg/L. This condition will be addressed by the PVOU SZN Interim Remedy.

Well with increasing concentration trends for five compounds:

- The trend analysis indicated increasing trends for PCE, TCE, 1,1-DCE, 1,1-DCA, and cis-1,2-DCE concentrations in PVOU SZ monitoring well MW6-21 (see Figures 17 through 21). Current concentrations of these COCs are all below their respective PVOU SZ Performance Criteria.

Well with increasing concentration trends for six compounds:

- Consistent with prior observations, the trend analysis indicated increasing trends for PCE, TCE, 1,1-DCE, 1,1-DCA, cis-1,2-DCE and 1,4-dioxane concentrations in PVOU SZ monitoring well MW 6-18 (see Figures 17 through 22). Current concentrations of these COCs are all well below their respective PVOU SZ Performance Criteria, with the exception of TCE, which was detected at a concentration of 77.0 µg/L. This condition will be addressed by the PVOU SN Interim Remedy.

Hexavalent Chromium, Nitrate as NO3, Perchlorate, and TDS Trend Analysis Results

The inorganic compound trend analyses are described below.

Hexavalent Chromium

A total of 70 PVOU SZN monitoring wells and 2 extraction wells have been sampled a minimum of four times for hexavalent chromium. The hexavalent chromium data from these 72 wells were subjected to the Mann-Kendall Trend Test. The results are summarized below:

- Hexavalent chromium concentrations are decreasing in four of the 72 wells;
- Hexavalent chromium concentrations are increasing in two of the 72 wells; and
- Hexavalent chromium concentrations are stable (insufficient evidence to identify a significant increasing or decreasing trend) in 66 of the 72 wells.

The two monitoring wells with increasing trend for hexavalent chromium are reviewed in more detail below:

- The trend analysis indicated an increasing trend for hexavalent chromium at monitoring well MW-07. The hexavalent chromium concentrations ranged from ND to 4.6 µg/L. The maximum concentration was detected in August 2014; however, this concentration is well below the MCL of 10 µg/L.

- The trend analysis indicated an increasing trend for hexavalent chromium at monitoring well MW6-36. The hexavalent chromium concentrations ranged from ND to 6.4 µg/L. The maximum concentration was detected in August 2014; however, this concentration is less than MCL of 10 µg/L.

Perchlorate

A total of 45 PVOU SZN monitoring wells and five extraction wells have been sampled a minimum of four times for perchlorate. The perchlorate data from these 50 wells were subjected to the Mann-Kendall Trend Test. The results are summarized below:

- Perchlorate concentrations are decreasing in nine of the 50 wells;

- Perchlorate concentrations are increasing in six of the 50 wells; and

- Perchlorate concentrations are stable (insufficient evidence to identify a significant increasing or decreasing trend) in 35 of the 50 wells.

The six monitoring wells with increasing trend for perchlorate are reviewed in more detail below:

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW-01B. The perchlorate concentrations ranged from 1.7 µg/L to 4.0 µg/L. The maximum concentration was detected for four consecutive sampling events: May 2009, August 2009, November 2009, and November 2009. Perchlorate concentrations detected at well MW-01B were all below the MCL of 6 µg/L.

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW-05. Perchlorate concentrations ranged from 4.0 µg/L to 6.8 µg/L. The maximum concentration was detected in the latest sampling event in August 2014; this is the only detection that exceeds the MCL of 6 µg/L.

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW6-15. Perchlorate concentrations have ranged from 4.0 µg/L to 7.6 µg/L. The maximum concentration was detected in May 2012; perchlorate concentrations have exceeded the MCL of 6 µg/L since December 2011.

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW6-16. Perchlorate concentrations ranged from 7.9 µg/L to 12 µg/L. The maximum concentration was detected in December 2012. Perchlorate concentrations detected at MW6-16 exceed the MCL of 6 µg/L.

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW6-17. Perchlorate concentrations ranged from 2.0 µg/L to 4.3 µg/L. The maximum perchlorate concentration was detected in August 2014; however, this concentration is well below the MCL of 6 µg/L.

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW6-19. Perchlorate concentrations ranged from 2.5 µg/L to 10 µg/L. The maximum perchlorate concentration was detected in August 2014. The August 2014 results were the only time that perchlorate has exceeded the MCL of 6 µg/L in a groundwater sample collected from groundwater monitoring well MW6-19.

Nitrate

A total of 51 PVOU SZN monitoring wells and 6 extraction wells have been sampled a minimum of four times for nitrate as NO^3. The nitrate as NO^3 data from these 57 wells were subjected to the Mann-Kendall Trend Test. The results are summarized below:

- Nitrate as NO^3 concentrations are decreasing in one of the 57 wells; and

- Nitrate as NO^3 concentrations are stable (insufficient evidence to identify a significant increasing or decreasing trend) in 56 of the 57 wells.

Total Dissolved Solids

A total of 52 PVOU SZN monitoring wells and 6 extraction wells have been sampled a minimum of four times for TDS. The TDS data from these 58 wells were subjected to the Mann-Kendall Trend Test. The results are summarized below:

- TDS concentrations are decreasing in three of the 58 wells;

- TDS concentrations are not increasing (e.g., stable) in any of the 58 wells; and

- TDS concentrations are stable (insufficient evidence to identify a significant increasing or decreasing trend) in 55 of the 58 wells.

5.0 SUMMARY OF FINDINGS

This section summarizes the findings from the groundwater monitoring data and statistical analyses that were presented in Section 4. This summary of findings is as follows:

- Section 5.1 discusses findings related to groundwater flow including variations and trends (illustrated with hydrographs) associated with depth to groundwater, groundwater flow direction (illustrated with groundwater elevation contour maps), and vertical gradients;

- Section 5.2 discusses all contaminant detections including the number of times each contaminant was detected, the magnitude and location of the maximum concentration, and the percentage of wells exceeding regulatory criteria. This section includes subsections for the Westernmost Plume, the Mid-Valley Area, and the baseline water quality sampling that is being performed as a precursor to reinjection of treated PVOU SZ groundwater at 13811 Amar Road;

- Section 5.3 discusses the lateral and vertical extent of PCE, TCE, 1,1-DCE, and 1,4-dioxane (illustrated with isoconcentration contour maps) associated with each of the four distinct plumes at the MOV; and

- Section 5.4 presents the results of the trend analysis that was discussed in Section 4. Each COC and associated well with an increasing trend is discussed. This discussion includes the magnitude of the increasing trend, the location of the monitoring well exhibiting the increase, the actual concentrations (including a comparison to regulatory criteria) associated with the increasing trend, and an evaluation of the potential implications to the PVOU SZ North of Puente Creek Interim Remedy.

5.1 GROUNDWATER FLOW

Depth to water measurements were collected from PVOU SZ, PVOU IZ, and PVOU PZ monitoring and extraction wells on March 12 and 13, 2014 and August 25 and 26, 2014 with the PVOU Shallow Zone South of Puente Creek and PVOU Intermediate Zone Work party.

During the Spring (First Half) 2014 Tetra Tech also attempted to collect static groundwater elevation measurements from eleven additional monitoring wells (MP20-5, MW-01A, MW-02, MW-03, MW-10, MW-13, MW-14, MW16S, MW-17S, MW-18D and MW6-37) but was unsuccessful as these wells contained insufficient water to obtain measurements.

During the Fall (Second Half) 2014 Tetra Tech also attempted to collect static groundwater elevation measurements from eighteen additional monitoring wells (MP20-5, MW-01A, MW-02, MW-03, MW-09, MW-10, MW-13, MW-14, MW-15 (LCW-10), MW16S, MW-16D, MW-17S, MW-18S, MW-18D, MW-19, MW6-37, OP-MW-01, and OP-MW-04) but was unsuccessful as these wells contained insufficient water to obtain measurements.

As shown in the hydrographs (Appendix H), groundwater elevations in the PVOU SZ at the MOV are subject to temporal fluctuations, most likely caused by climatic conditions (rainy

periods versus drought periods) and potentially production well pumping stresses. Currently groundwater elevations in the PVOU SZ at the MOV are generally decreasing (see Table 3 and Appendix H). The most significant decrease in groundwater elevation was observed in monitoring well MW8-2D where the groundwater elevation has decreased by 9.3 feet since the previous sampling event (Spring [First Half] 2014).

The groundwater elevations in the PVOU IZ and PZ Mid-Valley wells are also declining (see Table 3 and Appendix H). The most significant decrease in the groundwater elevation in the PVOU IZ was observed in monitoring well MW6-45; groundwater elevation decreased by approximately 17.7 feet since the previous sampling event [Spring (First Half) 2014]. The most significant decrease in the groundwater elevation in the PVOU PZ was observed in monitoring well MW-D2; groundwater elevation decreased by 30.9 feet since the previous sampling event [Spring (First Half) 2014].

Groundwater elevation contour maps (Figures 4 through 11) indicate groundwater flows generally towards the north and northwest at the MOV and Mid-Valley area. Groundwater flow gradients were calculated for both 2014 sampling events for Upper and Lower SZ. Horizontal gradients ranged from 0.0073 to 0.0207 feet/foot towards the north and northwest in Upper SZ and 0.0052 to 0.0067 feet/foot towards the north and northwest in the Lower SZ during the Spring (First Half) 2014 sampling event. Horizontal gradients ranged from 0.0086 to 0.0212 feet/foot towards the north and northwest in Upper SZ and 0.0059 to 0.0075 feet/foot towards the north and northwest in the Lower SZ during Fall (Second Half) 2014 sampling event. Vertical groundwater gradients calculated at four PVOU MOV locations indicate downward vertical gradients within the PVOU SZ, while the PZ monitoring well pairs MW6-31/MW6-32, and MW6-41/MW6-43 exhibit upward vertical gradient. Vertical gradients calculations are summarized in Table 4.

5.2 CONTAMINANT DETECTIONS

Contaminant detections are summarized in Table 6 and 7 for Spring (First Half) 2014 and Fall (Second Half) 2014, respectively, and discussed below.

5.2.1 Spring (First Half) 2014

A total of 35 COCs were detected during the PVOU SZN Remedy Spring (First Half) 2014 groundwater monitoring event. The most commonly detected contaminants are hexavalent chromium (detected in all 75 wells sampled during the Spring (First Half) 2014 groundwater monitoring event), TCE (detected in 61 of the 75 wells sampled during the Spring (First Half) 2014 groundwater monitoring event), 1,1-DCE (detected in 59 of the 75 wells sampled during the Spring (First Half) 2014 groundwater monitoring event), PCE (detected in 55 of the 75 wells) sampled during the Spring (First Half) 2014 groundwater monitoring event), 1,4-dioxane (detected in 52 of the 75 wells sampled during the Spring (First Half) 2014 groundwater monitoring event), cis-1,2-DCE (detected in 47 of the 75 wells sampled during the Spring (First Half) 2014 groundwater monitoring event), and 1,1-DCA (detected in 37 of the 75 wells sampled during the Spring (First Half) 2014 groundwater monitoring event).

Hexavalent chromium detections ranged from 0.012J to 28 µg/L. The maximum concentration was detected in monitoring well MW-08 located in the PVOU SZ Eastern Plume. Hexavalent chromium was detected in 100 percent of the wells sampled during Spring (First Half) 2014 sampling event. In all cases, hexavalent chromium concentrations were well below the MCL of 10 µg/L.

TCE detections ranged from 0.26J to 397 µg/L. The maximum concentration was detected in the extraction well S-07 located in the PVOU SZ Eastern Plume. TCE was detected in 81.3 percent of the wells sampled during Spring (First Half) 2014 sampling event, and exceeded the PVOU SZ Performance Criteria in 13.3 percent of the wells sampled during that sampling event.

1,1-DCE detections ranged from 0.24J to 431 µg/L. The maximum concentration was detected in monitoring well MW6-13 located in the PVOU SZ Eastern Plume. 1,1-DCE was detected in 78.7 percent of the wells sampled during Spring 2014 sampling event, and exceeded the PVOU SZ Performance Criteria in 10.7 percent of the wells sampled during this sampling event.

PCE detections ranged from 0.31J to 118 µg/L. The maximum concentration was detected in monitoring well SW-04 in the PVOU SZ Middle Plume. PCE was detected in 73.3 percent of the wells sampled during Spring (First half) 2014 sampling event, and exceeded the PVOU SZ Performance Criteria in 2.7 percent of the wells sampled during that sampling event.

1,4-dioxane detections ranged from 0.48 to 0.57 µg/L. The maximum concentration was detected in monitoring well MW-19 (SW-02) in the PVOU SZ Eastern Plume. 1,4-dioxane was detected in 69.3 percent of the wells sampled during Spring (First Half) 2014 sampling event, and exceeded the PVOU SZ Performance Criteria in 4.0 percent of the wells sampled during this sampling event.

Cis-1,2-DCE detections ranged from 0.24J to 16.7 µg/L. The maximum concentration was detected in monitoring well SW-04 in the PVOU SZ Eastern Plume. Cis-1,2-DCE was detected in 62.7 percent of the wells sampled during Spring (First Half) 2014 sampling event. In all cases, cis-1,2-DCE concentrations were well below the PVOU SZ Performance Criteria.

1,1-DCA detections ranged from 0.22J to 1.3J µg/L. The maximum concentration was detected in extraction well S-09 in the PVOU SZ Eastern Plume. 1,1-DCA was detected in 12.0 percent of the wells sampled during Spring 2014 (First Half) sampling event. In all cases, 1,1-DCA concentrations were well below the PVOU SZ Performance Criteria.

5.2.2 Fall (Second Half) 2014 Sampling Event

A total of 35 COCs were detected during the PVOU SZN Remedy Fall (Second Half) 2014 groundwater monitoring event. The most commonly detected contaminants are perchlorate (detected in 58 out 63 of wells sampled during the Fall (Second Half) 2014 groundwater monitoring event), TCE (detected in 52 of the 63 wells sampled during the Fall (Second Half) 2014 groundwater monitoring event), PCE (detected in 50 of the 63 wells) sampled during the Fall (Second Half) 2014 groundwater monitoring event), 1,1-DCE (detected in 49 of the 63 wells sampled during the Fall (Second Half) 2014 groundwater monitoring event), 1,4-dioxane (detected in 46 of the 63 wells sampled during the Fall (Second Half) 2014 groundwater

monitoring event), hexavalent chromium (detected in 46 of the 63 wells sampled during the Fall (Second Half) 2014 groundwater monitoring event), cis-1,2-DCE (detected in 37 of the 63 wells sampled during the Fall (Second Half) 2014 groundwater monitoring event), 1,1-DCA (detected in 36 of the 63 wells sampled during the Fall (Second Half) 2014 groundwater monitoring event), and selenium (detected in 35 out 63 wells sampled during the Fall (Second Half) 2014 groundwater monitoring event).

Perchlorate detections ranged from 0.092J to 14 µg/L. The maximum concentration was detected in monitoring well MW6-62 in the PVOU IZ in the Mid-Valley area (Figure 27). Perchlorate was detected in 92.1 percent of the wells sampled during Fall (Second Half) 2014 sampling event. The PVOU IROD (USEPA, 1998) as modified by the ESD (USEPA, 2005) does not provide a requirement for a PVOU SZ Performance Criteria for perchlorate.

TCE detections ranged from 0.28J to 210 µg/L. The maximum concentration was detected in monitoring well MW6-17 in the PVOU SZ Eastern Plume. TCE was detected in 82.5 percent of the wells sampled during Fall (Second Half) 2014 sampling event, and exceeded the PVOU SZ Performance Criteria in 7.9 percent of the wells sampled during this sampling event.

PCE detections ranged from 0.28J to 110 µg/L. The maximum concentration was detected in monitoring well SW-04 in the PVOU SZ Middle Plume. PCE was detected in 79.4 percent of the wells sampled during Fall (Second Half) 2014 sampling event, and exceeded the PVOU SZ Performance Criteria in 3.2 percent of the wells sampled during this sampling event.

1,1-DCE detections ranged from 0.29J to 370 µg/L. The maximum concentration was detected in monitoring well MW6-13 in the PVOU SZ Eastern Plume. 1,1-DCE was detected in 77.8 percent of the wells sampled during Fall (Second Half) 2014 sampling event, and exceeded the PVOU SZ Performance Criteria in 4.8 percent of the wells sampled during this sampling event.

1,4-dioxane detections ranged from 0.074J to 56 µg/L. The maximum concentration was detected in monitoring well MW6-13 in the PVOU SZ Eastern Plume. 1,4-dioxane was detected in 73 percent of the wells sampled during Fall (Second Half) 2014 sampling event, and exceeded the PVOU SZ Performance Criteria in 7.9 percent of the wells sampled during this sampling event.

Hexavalent chromium detections ranged from 0.35 to 19 µg/L. The maximum concentration was detected in monitoring well MW-08 in the PVOU SZ Eastern Plume. Hexavalent chromium was detected in 73% of the wells sampled during Fall (Second Half) 2014 sampling event. In all cases, hexavalent chromium concentrations were well below the California MCL of 10 µg/L.

Cis-1,2-DCE detections ranged from 0.29J to 17 µg/L. The maximum concentration was detected in monitoring well MW-07 and SW-04 in the PVOU SZ Eastern Plume. Cis-1,2-DCE was detected in 58.7 percent of the wells sampled during Fall (Second Half) 2014 sampling event. In all cases, cis-1,2-DCE concentrations were well below the PVOU SZ Performance Criteria.

1,1-DCA detections ranged from 0.21J to 23 µg/L. The maximum concentration was detected in monitoring well MW6-13 in the PVOU SZ Eastern Plume. 1,1-DCA was detected in 57.1 percent of the wells sampled during Fall (Second Half) 2014 sampling event. In all cases, 1,1-DCA concentrations were well below the PVOU SZ Performance Criteria.

Selenium detections ranged from 0.00719 mg/L to 0.0308 mg/L. The maximum concentration was detected in monitoring well SW-04 in the PVOU SZ Eastern Plume. Selenium was detected in 55.6% of the wells sampled during Fall (Second Half) 2014 sampling event. In all cases, selenium concentrations were well below the MCL of 0.50 mg/L.

5.3 PLUME EXTENT FOR MAIN CONTAMINANTS

Isoconcentration contour maps depicting the approximate distribution of PCE, TCE, 1,1-DCE, and 1,4-dioxane in the PVOU SZ at the MOV are presented as Figures 12 through 15, respectively.

5.3.1 PCE Isoconcentration Contours

PCE isoconcentration contours are shown on Figure 12. The Fall (Second Half) 2014 groundwater monitoring analytical results indicate that PCE concentrations exceeding the PVOU SZ Performance Criteria are present in the PVOU SZ Eastern Plume, the PVOU SZ Middle Plume, and the PVOU SZ Western Plume. The lateral extent of PCE in the PVOU SZ Eastern Plume exceeding the PVOU SZ Performance Criteria extends approximately 3/4 of a mile along the axis of the PVOU SZ Eastern Plume from known and suspected source area(s) located south of Puente Creek to the downgradient extent of the greater than 50 µg/L contour.

The lateral extent of PCE in the PVOU SZ Middle Plume exceeding the PVOU SZ Performance Criteria extends from known and suspected source area(s) located south of Puente Creek to a maximum distance of approximately 1/3 of a mile at leading edge of the axis of the PVOU SZ Middle Plume to the downgradient extent of the greater than 50 µg/L contour.

5.3.2 TCE Isoconcentration Contours

TCE isoconcentration contours are shown on Figure 13. The Fall (Second Half) 2014 groundwater monitoring analytical results indicate that TCE concentrations exceeding the PVOU SZ Performance Criteria are present in the PVOU SZ Eastern Plume. The lateral extent of TCE exceeding the PVOU SZ Performance Criteria extends approximately 2 miles along the axis of the PVOU SZ Eastern Plume from the known and suspected source area(s) located south of Puente Creek to the downgradient extent of the greater than 50 µg/L contour.

5.3.3 1,1-DCE Isoconcentration Contours

1,1-DCE isoconcentration contours are shown on Figure 14. The Fall (Second Half) 2014 groundwater monitoring analytical results indicate that 1,1-DCE concentrations exceeding the PVOU SZ Performance Criteria are present in the PVOU SZ Eastern Plume. The lateral extent of 1,1-DCE exceeding the PVOU SZ Performance Criteria extends approximately 1.5 miles along the axis of the PVOU SZ Eastern Plume from the known and suspected source area(s) located south of Puente Creek to the downgradient extent of the greater than 50 µg/L contour.

5.3.4 1,4-Dioxane Isoconcentration Contours

1,4-dioxane isoconcentration contours are shown on Figure 15. The Fall (Second Half) 2014 groundwater monitoring analytical results indicate that 1,4-dioxane concentrations exceeding the PVOU SZ Performance Criteria are present in the PVOU SZ Eastern Plume. The lateral extent of 1,4-dioxane exceeding the PVOU SZ Performance Criteria extends approximately 2 miles along the axis of the PVOU SZ Eastern Plume from the known and suspected source area(s) located south of Puente Creek to the downgradient extent of the greater than 50 µg/L contour.

5.4 *Temporal Concentration Trends*

The evaluation of the temporal concentration trends discussed in Section 4.2.3 of this 2014 Annual Comprehensive Groundwater Monitoring Report shows that for the most part COC concentrations are decreasing or have stabilized in the PVOU Shallow Zone North Remedy monitoring area.

5.4.1 PCE Temporal Concentration Trends

As shown on Figure 17, trend analyses were performed on PCE concentrations associated with 81 monitoring and 9 extraction wells. Increasing PCE trends were observed in seven of the MOV wells as discussed below.

- An increasing trend in PCE concentrations was observed in monitoring well MW6-21 located in the PVOU SZ Eastern Plume where PCE concentrations have ranged between 7.8 µg/L and 21.0 µg/L, are all well below the PVOU SZ Performance Criteria of 50 µg/L. The maximum PCE concentration detected in groundwater monitoring well MW6-21 occurred in August 2014;

- An increasing trend in PCE concentrations was observed in monitoring well P-1B located in the PVOU SZ Eastern Plume where PCE concentrations have ranged from 8.1 µg/L to 15 µg/L, and are all well below the PVOU SZ Performance Criteria of 50 µg/L;

- An increasing trend in PCE concentrations was observed in monitoring well MW-01B located in the PVOU SZ Eastern Plume where PCE concentrations have ranged between 1.4 µg/L and 124 µg/L. The maximum PCE concentration was detected in groundwater monitoring well MW-01B in August 2013 before decreasing to 60 µg/L in the subsequent (April 2014) groundwater monitoring event. PCE concentrations in monitoring well MW-01B have exceeded the PVOU SZ Performance Criteria of 50 µg/L five times since 2002, including the two most current sampling events which occurred in August 2013 and April 2014;

- An increasing trend in PCE concentrations was observed in monitoring well MW-06 located in the PVOU SZ Eastern Plume. The PCE concentrations have ranged between 1.0 µg/L to 55.2 µg/L at this well. The maximum PCE concentration detected in groundwater monitoring well MW-06 occurred in May 2009. The PCE concentrations in

monitoring well MW-06 have been well below the PVOU SZ Performance Criteria of 50 µg/L since May 2009;

- An increasing trend in PCE concentrations was observed in monitoring well MW6-35, a PVOU SZ well east of the former Oakite facility (Westernmost Plume). The PCE concentrations, which range from less than 1.0 µg/L to 25 µg/L, and are all well below the PVOU SZ Performance Criteria of 50 µg/L. The maximum PCE concentration was detected in monitoring well MW6-35 in March 1998; the second highest detected concentration occurred 1.6 µg/L in August 2013;

- An increasing trend in PCE concentrations was observed in monitoring well MW6-17 located in the PVOU SZ Eastern Plume where PCE concentrations have ranged between 16 µg/L and 47.5 µg/L. The maximum PCE concentration was detected in April 2014. PCE concentrations in monitoring well MW6-17. None of the detected PCE concentrations associated with MW6-17 have exceeded the PVOU SZ Performance Criteria of 50 µg/L; and

- An increasing trend PCE was observed in monitoring well MW6-18, located in the PVOU SZ Eastern Plume where PCE concentrations have ranged between 0.7 µg/L and 28 µg/L. The PCE concentrations associated with this monitoring well have consistently remained well below the SZ Performance Criteria of 50 µg/L. The PVOU SZN Interim Remedy will address this situation.

5.4.2 TCE Temporal Concentration Trends

As shown on Figure 18, trend analyses were performed on TCE concentrations in 81 monitoring wells. Increasing trends were observed in three of MOV wells as discussed below.

- An increasing trend in TCE concentrations was observed in monitoring well MW6-18 where TCE concentrations have ranged between 19 µg/L and 84 µg/L. The maximum TCE concentration was detected in groundwater monitoring well MW6-18 in August 2014. TCE concentrations detected in monitoring well MW6-18 have exceeded the PVOU SZ Performance Criteria of 50 µg/L. As noted above, the PVOU SZN Interim Remedy will address this condition;

- An increasing trend in TCE concentrations was observed in monitoring well MW-18D in the PVOU SZ Eastern Plume. The maximum TCE concentration detected in groundwater monitoring well MW-18D was in August and December 1999. The TCE concentrations, which range from less than 1 µg/L to 18 µg/L, and are all well below the PVOU SZ Performance Criteria of 50 µg/L; and

- An increasing trend in TCE concentrations was observed in monitoring well MW6-21 in the PVOU SZ Eastern Plume. The TCE concentrations have ranged between 11.7 µg/L and 27 µg/L, all of which are well below the PVOU SZ Performance Criteria of 50 µg/L. The maximum TCE concentration detected in groundwater monitoring well MW6-21 was in August 2014.

5.4.3 1,1-DCE Temporal Concentration Trends

As shown on Figure 19, trend analyses were performed on 1,1-DCE concentrations in 81 monitoring wells. Increasing trends were observed in four of the MOV wells as discussed below.

- An increasing trend in 1,1-DCE concentrations was observed in monitoring well MW6-18 where 1,1-DCE concentrations have ranged between ND (0.5 µg/L) and 37 µg/L. The maximum 1,1-DCE concentration was detected in August 2014. These concentrations of 1,1-DCE are all well below the PVOU SZ Performance Criteria of 60 µg/L. The PVOU SZN Interim Remedy will address this situation;

- An increasing trend in 1,1-DCE concentrations was observed in monitoring well MW6-17 where 1,1-DCE concentrations have ranged between 23 µg/L and 220 µg/L. The maximum 1,1-DCE concentration was detected in January 2004; 1,1-DCE concentrations in monitoring well MW6-17 have consistently exceeded the PVOU SZ Performance Criteria of 60 µg/L since August 2009;

- An increasing trend in 1,1-DCE concentrations was observed in monitoring well MW6-21 where 1,1-DCE concentrations have ranged between 5.4 µg/L and 13 µg/L. These concentrations of 1,1-DCE are all well below the PVOU SZ Performance Criteria of 60 µg/L. The maximum 1,1-DCE concentration detected in groundwater monitoring well MW6-21 was in August 2014; and

- An increasing trend in 1,1-DCE concentrations was observed in monitoring well MW6-14 in the PVOU SZ Eastern Plume where 1,1-DCE concentrations have ranged between 0.25 µg/L to 400 µg/L. The maximum 1,1-DCE concentration detected in groundwater monitoring well MW6-14 was in September 2006. The 1,1-DCE concentrations have been well below the PVOU SZ Performance Criteria of 60 µg/L since 2007.

5.4.4 1,4-Dioxane Temporal Concentration Trends

As shown on Figure 22, trend analyses were performed on 1,4-dioxane concentrations in 81 monitoring wells. Increasing trends were observed in one of the MOV wells as discussed below.

An increasing trend in 1,4-dioxane concentrations was observed in monitoring well MW 6-18 in the PVOU SZ Eastern Plume where 1,4-dioxane concentrations have ranged between 0.81 µg/L and 17 µg/L. The maximum 1,4-dioxane concentration was detected in August 2014. These detected 1,4-dioxane concentrations are all well below the SZ Performance Criteria of 30 µg/L.

5.4.5 1,1-DCA Temporal Concentration Trends

As shown on Figure 20, trend analyses were performed on 1,1-DCA concentrations in 81 monitoring wells. Increasing trends were observed in three of the MOV wells as discussed below.

An increasing trend in 1,1-DCA concentrations was observed in monitoring well MW 6-17 located in the PVOU SZ Eastern Plume well where 1,1-DCA concentrations have ranged between 5.5 µg/L and 16 µg/L. The maximum 1,1-DCA concentration was detected in August 2014; 1,1-DCA concentrations in monitoring well MW6-17 have remained well below the PVOU SZ Performance Criteria of 50 µg/L;

- An increasing trend in 1,1-DCA concentrations was observed in monitoring well MW 6-21 located in the PVOU SZ Eastern Plume well where 1,1-DCA concentrations have ranged between 0.59 µg/L and 1.3 µg/L. The maximum 1,1-DCA concentration was detected in August 2014. 1,1-DCA concentrations in monitoring well MW6-21 have consistently remained well below the PVOU SZ Performance Criteria of 50 µg/L; and

- An increasing trend in 1,1-DCA concentrations was observed in monitoring well MW 6-18 located in the PVOU SZ Eastern Plume well where 1,1-DCA concentrations have ranged between ND (0.5 µg/L) and 3.6 µg/L. The maximum 1,1-DCA concentration was detected in August 2014. 1,1-DCA concentrations in monitoring well MW6-17 have consistently remained well below the PVOU SZ Performance Criteria of 50 µg/L.

5.4.6 Cis-1,2-DCE Temporal Concentration Trends

As shown on Figure 21, trend analyses were performed on cis-1,2-DCE concentrations in 81 monitoring wells. Increasing trends were observed in six of the MOV wells as discussed below.

- An increasing trend in cis-1,2-DCE concentrations was observed in monitoring well MP21-6. The cis-1,1-DCE concentrations, which range from 0.38 µg/L to 0.52 µg/L, and are all well below the PVOU SZ Performance Criteria of 60 µg/L. The maximum PCE concentration detected in groundwater monitoring well MP-21 was in September 2014;

- An increasing trend in cis-1,2-DCE concentrations was observed in PVOU SZ monitoring well MW-01B, which is currently dry due to the declining groundwater levels in the PVOU. The cis-1,2-DCE concentrations, which range from ND to 20 µg/L, and are all well below the PVOU SZ Performance Criteria of 60 µg/L at groundwater monitoring well MW-01B;

- An increasing trend in cis-1,2-DCE concentrations was observed in monitoring well P-1B located in the PVOU SZ Eastern Plume where PCE concentrations have ranged from 0.64 µg/L to 1.3 µg/L, and are all well below the PVOU SZ Performance Criteria of 60 µg/L;

- An increasing trend in cis-1,2-DCE concentrations was observed in monitoring well MW 6-17 located in the PVOU SZ Eastern Plume well where cis-1,2-DCE concentrations have ranged between 3 µg/L and 16 µg/L. The maximum 1,1-DCA concentration was detected in August 2014. 1,1-DCA concentrations in monitoring well MW6-17 have consistently remained well below the PVOU SZ Performance Criteria of 60 µg/L.;

- An increasing trend in cis-1,2-DCE concentrations was observed in monitoring well MW6-21 where cis-1,2-DCE concentrations have ranged between 1.7 µg/L and 4.5 µg/l. These concentrations of cis-1,2-DCE have consistently been well below the PVOU SZ

Performance Criteria of 60 µg/L. The maximum cis-1,2-DCE concentration was detected in August 2014; and

- An increasing trend in cis-1,2-DCE concentrations was observed in monitoring well MW 6-18 located in the PVOU SZ Eastern Plume well where cis-1,2-DCE concentrations have ranged between ND (0.5 µg/L) and 8.5 µg/L. The maximum cis-1,2-DCE concentration was detected in August 2014; 1,1-DCA concentrations in monitoring well MW6-17 and have been consistently well below the PVOU SZ Performance Criteria of 60 µg/L.

5.4.7 Hexavalent Chromium Temporal Concentration Trends

There are two monitoring wells with increasing trends for hexavalent chromium that are reviewed in more detail below:

- The trend analysis indicated an increasing trend for hexavalent chromium at monitoring well MW-07. The hexavalent chromium concentrations ranged from ND to 4.6 µg/L. The maximum concentration was detected in in August 2014. All of the detected hexavalent chromium concentrations associated with monitoring well MW-07 have consistently been well below the MCL of 10 µg/L; and

- The trend analysis indicated an increasing trend for hexavalent chromium at monitoring well MW6-36. The hexavalent chromium concentrations ranged from ND to 6.4 µg/L. The maximum concentration was detected in August 2014. All of the detected hexavalent chromium concentrations associated with monitoring well MW-07 have consistently been well below the MCL of 10 µg/L.

5.4.8 Perchlorate Temporal Concentration Trends

There are six monitoring wells with increasing trend for perchlorate are reviewed in more detail below:

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW-01B. The perchlorate concentrations ranged from 1.7 µg/L to 4.0 µg/L. The maximum concentration was detected for four consecutive sampling events: May 2009, August 2009, November 2009, and November 2009. Perchlorate concentrations detected at well MW-01B are consistently well below the MCL of 6 µg/L;

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW-05. Perchlorate concentrations ranged from 4.0 µg/L to 6.8 µg/L. The maximum concentration was detected in the latest sampling event in August 2014; this is the only detection that exceeds the MCL of 6 µg/L;

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW6-15. Perchlorate concentrations have ranged from 4.0 µg/L to 7.6 µg/L. The maximum concentration was detected in May 2012; perchlorate concentrations have exceeded the MCL of 6 µg/L since December 2011;

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW6-16. Perchlorate concentrations ranged from 7.9 µg/L to 12 µg/L. The maximum concentration was detected in December 2012. Perchlorate concentrations detected at MW6-16 exceed the MCL of 6 µg/L;

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW6-17. Perchlorate concentrations ranged from 2.0 µg/L to 4.3 µg/L. The maximum perchlorate concentration was detected in August 2014. All perchlorate concentrations detected at monitoring well MW-05 have consistently been well below the MCL of 6 µg/L; and

- The trend analysis indicated an increasing perchlorate trend at monitoring well MW6-19. Perchlorate concentrations ranged from 2.5 µg/L to 10 µg/L. The maximum perchlorate concentration was detected in August 2014, the only time that perchlorate has met the MCL of 6 µg/L.

5.5 MID-VALLEY MONITORING AREA

The analytical results of groundwater samples collected from the Mid-Valley monitoring wells are summarized in Table 8 (VOCs, 1,4-dioxane, and perchlorate), and depicted on Figure 27. Hexavalent chromium and selenium data are summarized in Table 9 and 10 respectively. COC concentrations are generally decreasing in the Mid-Valley IZ (see time series plots in Appendix J), and exhibit greater concentrations at the MOV than at the upgradient portion of Mid-Valley.

- An increasing trend in TCE concentrations was observed in PVOU SZ monitoring well MW6-65 where TCE concentrations have ranged between 14.6 µg/L to 22 µg/L. All TCE concentrations detected at monitoring well MW6-65 have consistently been well below the PVOU SZ Performance Criteria of 50 µg/L;

- An increasing trend in cis-1,2-DCE concentrations was observed in PVOU SZ monitoring well MW6-65. The cis-1,2-DCE concentrations range from 8.6 µg/L to 12.0 µg/L. All cis-1,2-DCE concentrations detected at monitoring well MW6-65 have consistently been well below the PVOU SZ Performance Criteria of 60 µg/L;

- An increasing trend in PCE concentrations was observed in IZ monitoring well MW6-62, where PCE concentrations have range from 5.6 µg/L to 17 µg/L, The maximum PCE concentration detected in groundwater monitoring well MW6-62 was in March and August 2002. The current PCE concentration in PVOU IZ monitoring well MW6-62 is 14 µg/L; and

- An increasing trend in 1,1-DCE concentrations was observed in PVOU IZ monitoring well MW6-71 area where 1,1-DCE concentrations have ranged between ND(0.2 µg/L) to 2.5 µg/L. The maximum 1,1-DCE concentration detected in groundwater monitoring well MW6-71 was in September 2014. All 1,1-DCE concentrations detected at monitoring well MW6-71 have consistently been well below the the IZ Performance Criteria of 6 µg/L.

These analytical results indicate that groundwater contamination in the PVOU SZ, PVOU IZ and the production wells at the MOV originates from the various known and suspected sources located within the MOV itself.

5.6 WESTERNMOST PLUME MONITORING

The historical data (Table 8) previously showed a localized “hot spot” of limited extent on the former Oakite facility property at monitoring well OP-MW-1 (occurring in a single vertical interval between approximately 39 and 69 feet bgs; the OP-MW-1 screen interval). Monitoring well OP-MW-01 is currently dry and was last sampled in April 2014 during the Spring (First Half) 2014 sampling event. The concentrations of 1,1 DCE and 1,1- DCA decreased dramatically since the previous sampling event in Spring 2014. Analytical data from adjacent and deeper monitoring well OP-MW-4, which is screened from approximately 65 to 85 feet bgs, indicate that the Oakite VOCs are not migrating vertically. The VOC concentrations detected in the groundwater samples collected from deeper monitoring well OP-MW-4 were 3.8 µg/L for 1,1-DCA and 4.7 µg/L for 1,1-DCE, both well below their PVOU SZ Performance Criteria of 60 µg/L and 60 µg/L, respectively .

The COCs detected during the Fall (Second Half) 2014 groundwater monitoring event associated with the offsite downgradient shallow former Oakite facility monitoring well MW6-20A were all well below the PVOU SZ Performance Criteria and MCLs (i.e., 1,1-DCA at 0.23J µg/L, 1,1-DCE at 0.7 µg/L, and 1,1-dioxane at 0.24 µg/L). None of the COCs were detected in the groundwater samples collected from monitoring well MW6-20B, the deeper offsite downgradient Westernmost Plume area monitoring well. These analytical results indicate that the COCs are not migrating laterally or vertically (i.e., concentrations are stable or declining) from the former Oakite facility and as such have not impacted the deeper portion of the Westernmost Plume. The Westernmost Plume groundwater monitoring data also indicate that the former Oakite facility is solely attributable for the groundwater contamination within this portion of the PVOU, with no contribution from other sources.

6.0 RECOMMENDATIONS

The data provided herein and the associated trend/data analyses indicate that COC concentrations throughout the majority of the PVOU SZ North of Puente Creek area have decreased and/or stabilized. Based on the analytical results collected to date and associated evaluation of those data, Tetra Tech presents the following recommendations concerning the PVOU SZN:

- Given the stability and/or declining nature of the majority of the four distinct groundwater plumes being addressed by PVOU SZN Interim Remedy, as demonstrated by the trend analysis and time series plots presented in this report, it is recommended that UTC/Carrier and USEPA collectively review and evaluate the current groundwater sampling and analyses network with respect to monitoring optimization. As noted in Sections 4 and 5 of this Annual Comprehensive Groundwater Monitoring Report, significant portions of the PVOU area that are currently being monitored exhibit stable and/or declining concentration trends. The stability in COC concentrations indicates that sufficient data can be obtained to monitor continued COC concentration declines as wells as potential plume migration and eventual remedy performance with a less robust groundwater monitoring program. Therefore, an assessment focused on reduction in sampling frequencies and elimination of unnecessary monitoring should be undertaken and implemented;

- UTC/Carrier recommends that USEPA (alone or in collaboration with either the LARWQCB or the DTSC) initiate PVOU source area investigations and implementation of source control actions. These efforts would result in a better understanding the PVOU contaminant source distribution, and a more efficient and timely groundwater remedial effort and ultimate groundwater restoration; and

- Given the considerable investigative activities performed by NG, recently and ongoing, associated with PVOU SZ South of Puente Creek, UTC/Carrier, NG and USEPA should work collaboratively to prepare comprehensive PVOU Shallow Zone groundwater flow and COC distribution maps for future monitoring reports (both PVOU SZ North and PVOU SZ South reports).

7.0 REFERENCES

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TABLES

Table 1
Monitoring Well Construction Details
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well ID	Station ID	Well Installation Date	X-Coord	Y-Coord	Screen Interval (ft bgs) Top	Screen Interval (ft bgs) Bottom	Total Depth (ft bgs)	Dedicated Pump (diameter in inches)	Dedicated Pump Depth (ft bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)
MP-20-4	PVMP20_04	NA	410770.1853	3766616.165	194	204	510	No	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MP-20-5	PVMP20_05	NA	410770.1853	3766616.165	75.5	86	510	No	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MP-21-6	PVMP21_06	May-03	410263.5698	3766093.387	150	160	560.5	No	NA	593	NA	4	304 SST	0.02	SCH40 MS blank	60 3	143 145	145 163	Air rotary (0'-140'); Mud rotary (140'-593')	Sand/Cement Slurry Bentonite/Sand seal	0 130	130 143
MW-01A	PVMW001A	Nov-97	409505.625	3767127.75	45	65	65	No	NA	65	NA	4	SST	0.020	Mild Steel	3	40	65	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 36	36 40
MW-01B	PVMW001B	Nov-97	409507.0938	3767129.5	85	95	95	No	NA	95	NA	4	SST	0.020	Mild Steel	3	78	95	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 72	72 78
MW-02	PVMW002	Oct-97	409795.3125	3767178.75	50	70	70	No	NA	70	NA	4	SST	0.020	Mild Steel	3	45	70	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 42	42 45
MW-03	PVMW003	Nov-97	410184.375	3766594.5	53.5	74	75	No	NA	75	NA	4	SST	0.010	Mild Steel	2/12	52	75	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 57	47 52
MW-04	PVMW004	Nov-97	410134.0313	3766372.5	38	58	58	No	NA	61.5	NA	4	SST	0.020	Mild Steel	2/12	33	60	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 31	31 33
MW-05	PVMW005	Nov-97	410326.9063	3766210	37	57	57	No	NA	57.6	NA	4	SST	0.020	Mild Steel	2/12	32	57	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	1 30	30 32
MW-06	PVMW006	Oct-97	410686.6563	3766423.5	85	95	95	No	NA	95	NA	4	SST	0.020	Mild Steel	3	80	95	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 77	77 80
MW-07 (SW-01)	PVMW0007	Nov-97	410888.5	3766217.25	88	98	98	No	NA	100	NA	4	SST	20	SST	3	83	100	Hollow Stem Auger	Cement/Bentonite Grout Bentonite	0 80	80 83
MW-08	PVMW008	Nov-97	411288.625	3766533.5	88	98	98	No	NA	98.5	NA	4	SST	0.020	Mild Steel	3	83	98	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 79	79 83
MW-09	PVMW009	Nov-97	411021.2188	3766628.75	83	93	95	No	NA	95	NA	4	SST	0.020	Mild Steel	3	80	95	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 72	72 80
MW-10	PVMW010	Oct-97	410991.625	3766969.75	85	95	95	No	NA	95	NA	4	SST	0.020	Mild Steel	3	79	95	Hollow Stem Auger	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 74	74 79
MW-11	PVMW011	Nov-97	410689.2188	3766426.25	160	175	175	No	NA	179	NA	4	SST	0.020	Mild Steel	3	155	179	Mud Rotary	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 151	151 155
MW-12	PVMW012	Nov-97	411011.9063	3766542	145	160	160	No	NA	180	NA	4	SST	0.020	Mild Steel	3	138	175	Mud Rotary	Cement/Bentonite Grout Hydrated Bentonite Pellets	0 134	134 138
MW-13	PVMW013	NA	409969.1971	3766387.044	40	60	60	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-14	PVMW014	NA	409561.3469	3766570.16	40	60	60	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-15 (LCW-10)	PVMW0015	Aug-99	409311.6427	3767577.301	83	93	93	No	NA	98	NA	4	SST	0.010	PVC	2/12	77	98	Hollow Stem Auger	Cement/Bentonite Grout Medium Bentonite Chips	0 72	72 77
MW-16D	PVMW016D	NA	409769.4338	3767568.977	88	98	98	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-16S	PVMW016S	NA	409744.4633	3767585.624	50	70	70	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-17D (LCW-08)	PVMW017D	Aug-99	409990.0058	3767111.186	83.5	95.5	95.5	No	NA	103.5	NA	4	SST	0.010	PVC	2/12	81	103.5	Hollow Stem Auger	Cement/Bentonite Grout Medium Bentonite Chips	0 76	76 81
MW-17S	PVMW017S	NA	409969.1971	3767090.377	52	72	72	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18D	PVMW018D	NA	410945.5584	3766800.417	87	97	97	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18S	PVMW018S	NA	410967.7575	3766775.998	52	72	72	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-19 (SW-02)	PVMW0019	Aug-99	411275.56	3766207.54	86.5	96.5	96.5	No	NA	97	NA	4	SST	10	SST	2/12	82.5	97	Hollow Stem Auger	Cement/Bentonite Grout Bentonite	1.5 78.5	78.5 82.5
MW6-09	EPAMW609	Jul-02	409596.98	3767227.81	130	150	155	2-inch Grundfos		188	8	4	SST	0.020	SCH80 PVC	3	125.2	158	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 5% bentonite Bentonite Seal Grout Seal	0 117.9 158	117.9 125.5 188
MW6-10	EPAMW610	Jul-02	410179.86	3766589.96	110	130	135	2-inch Grundfos		180	11	4	SST	0.040	SCH80 PVC	3	106	136	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 5% bentonite Bentonite Seal Grout Seal	0 101.1 136	101.1 106 164
MW6-11	EPAMW611	Jul-02	410923.53	3766815.9	145	165	170	No	NA	237	11	4	SST	0.040	SCH80 PVC	3	139.1	171	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 5% bentonite Bentonite Seal Grout Seal	0 132 171	132 139.1 237
MW6-12	EPAMW612	Jul-02	410962.24	3766976.49	220	240	245	2-inch Grundfos		260	11	4	SST	0.040	SCH80 PVC	3	214.1	248	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 5% bentonite Bentonite Seal Grout Seal	0 207 248	207 214.1 255
MW6-13	EPAMW613	Aug-02	411364.31	3766654.02	173	183	188	2-inch Grundfos		260	11	4	SST	0.020	SCH80 PVC	3	167.9	190	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 5% bentonite Bentonite Seal Grout Seal	0 161.2 190	161.2 167.9 245
MW6-14 (SW-03)	EPAMW614	Aug-02	411282.44	3767243.03	155	165	170	2-inch Grundfos		250	11	4	SST	0.010	SCH80 PVC	2/12	150	174	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 5% bentonite Bentonite Bentonite/Grout	0 142 174	142 150 250
MW6-16	EPAMW616	Sep-02	411695.97	3766644.68	175	185	190	2-inch Grundfos		250	11	4	SST	0.020	SCH80 PVC	2/12	170	195	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 5% bentonite Bentonite Seal Grout Seal	0 163 195	163 170 230
MW6-17	EPAMW617	Sep-02	410899.99	3767568.19	195	205	210	2-inch Grundfos		240	11	4	SST	0.020	SCH80 PVC	3	1819	213	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 5% bentonite Bentonite Seal Grout Seal	0 181.8 213	181.8 189 235

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Los Angeles County, California

Well ID	Station ID	Well Installation Date	X-Coord	Y-Coord	Screen Interval (ft bgs) Top	Screen Interval (ft bgs) Bottom	Total Depth (ft bgs)	Dedicated Pump (diameter in inches)	Dedicated Pump Depth (ft bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)
MW6-17I	PVMW617I	Feb-02	409922.04	3765445.8	212	232	237	No	NA	350	12	4	SST	0.020	SST	60 3	205 207	207 241	Mud Rotary	Sand/Slurry/5% Bentonite Bentonite Seal Bentonite/Sand Slurry	0 202 241	202 205 350
MW6-18 (LCW-04)	EPAMW618	Feb-03	410564.6	3768060.01	215	225	230	2-inch Grundfos		305	9	4	SST	0.040	SCH80 PVC	3	210	230	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 4% bentonite Bentonite seal with coarse 3/4 inch Wyoming bentonite	0 203	203 210
MW6-19 (LCW-05)	EPAMW619	Feb-03	410317.53	3767899.58	142	152	157	No	NA	275	9	4	SST	0.040	SCH80 PVC	3	137	157	Dual Tube Percussion Hammer	Colton Portland Cement, Type II/V with 4% bentonite Bentonite seal	0 130	130 137
MW6-20A	PVMW620A	Sep-08	409053.92	3766175.84	65	75	80	No	NA	85	10	4	SCH80 PVC	0.020	SCH80 PVC	60 2/16	52 60	60 85	Mud Rotary	10.3 Sack Cement	0	52
MW6-20B	PVMW620B	Sep-08	409050.93	3766178.35	130	140	145	No	NA	140	10	4	SCH80 PVC	0.020	SCH80 PVC	60 2/16	122 125	125 140	Mud Rotary	10.3 Sack Cement	0	122
MW6-21	PVMW621	Nov-11	410233	3768254	205	225	230.3	No	NA	350	10	4	SCH80 PVC	0.020	SCH80 PVC	0/30 2/16	195.5 199	199 232	Mud Rotary	10.3 Sack Cement Bentonite Bentonite	4 190.2 232	190.2 195.5 350
MW6-35	PVMW6305	May-95	409616.4688	3766207.5	215	230	230	4-inch Grundfos		1252	14.75	4	SST	10	SST	2/16	194	240	Mud Rotary	Cement/Bentonite Grout Seal Bentonite Seal	105 189	189 194
MW6-36	PVMW6306	May-95	409619.75	3766204.5	80	95	100	No	NA	1252	14.75	4	SST	10	SST	2/16	63	105	Mud Rotary	Cement/Bentonite Grout Seal Bentonite Seal	0 54	54 63
MW6-37	PVMW6307	May-95	409621.9375	3766202.75	40	55	55	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW6-44	PVMW6404	Aug-95	410443.7813	3765556.75	322	332	337	4-inch Grundfos	309	342	NA	4	SST	40	SST	30	316.5	340	Mud Rotary	Grout (Neat Cement) Bentonite/Sand Seal	0 304	304 316.5
MW6-45	PVMW6405	Aug-95	410448.625	3765541	224	234	239	No	NA	244	NA	4	SST	10	SST	30	215.5	244	Mud Rotary	Grout (Neat Cement) Bentonite/Sand Seal	0 199	199 215.5
MW6-61	PVMW6601	Oct-94	411262.2813	3764357.75	446	456	461	4-inch Grundfos	422	717	NA	4	SST	20	SST	60 3	419 423	423 471	Mud Rotary	Neat Cement Bentonite Bentonite	0 413 471	413 419 717
MW6-62	PVMW6602	Oct-94	411267	3764374	315	325	330	4-inch Grundfos	303	392	NA	4	SST	20	SST	60 3	297 300	300 336	Mud Rotary	Neat Cement Bentonite Bentonite	0 291 336	291 297 392
MW6-63	PVMW6603	Oct-94	411265.875	3764368	197	212	217.4	4-inch Grundfos	191	222	NA	4	SST	20	SST	60 3	186.5 189	189 220	Mud Rotary	Neat Cement Bentonite	0 181	181 186.5
MW6-64	PVMW6604	Oct-94	411264.2813	3764363.25	17	37	38	4-inch Grundfos	35	40	NA	4	SST	10	SST	2/16	14	40	Mud Rotary	Neat Cement Bentonite	0 10	10 14
MW6-65	PVMW6605	Oct-94	411284.1563	3764381.5	97	112	117	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW6-71	PVMW6701	Mar-95	412432.875	3763630.75	205	225	235	4-inch Grundfos	205	249	NA	4	SST	10	SST	30	205	244	Mud Rotary	Grout (Neat Cement) Bentonite	0 198	198 205
MW8-1A	PVMW801A	Aug-13	409802.49	3769044.03	115	130	135	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	106.5 109.5	109.5 138	Mud Rotary	Cement - 5% Bentonite Slurry Bentonite	1 72	72 106.5
MW8-1B	PVMW801B	Aug-13	409802.49	3769044.03	185	200	205	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	177 180	180 208	Mud Rotary	Bentonite	138	177
MW8-1C	PVMW801C	Aug-13	409802.49	3769044.03	235	250	255	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	227 230	230 257	Mud Rotary	Bentonite	208	227
MW8-1D	PVMW801D	Aug-13	409802.49	3769044.03	310	325	330	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	301 304	304 334	Mud Rotary	Bentonite Bentonite	257 334	301 350
MW8-2A	PVMW802A	Sep-13	409493.43	3768650.26	115	130	135	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	106 108	108 138	Mud Rotary	Cement - 5% Bentonite Slurry Bentonite	0 75	75 106
MW8-2B	PVMW802B	Sep-13	409493.43	3768650.26	185	200	205	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	177 180	180 209.5	Mud Rotary	Bentonite	138	177
MW8-2C	PVMW802C	Sep-13	409493.43	3768650.26	230	245	250	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	221.5 225	225 254.5	Mud Rotary	Bentonite	209.5	221.5
MW8-2D	PVMW802D	Sep-13	409493.43	3768650.26	310	325	330	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	301 304.5	304.5 335	Mud Rotary	Bentonite Bentonite	254.5 335	301 350
MW8-3A		Oct-13	410518.39	3768929.41	120	130	135	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	112.1 114.8	114.8 136	Mud Rotary	Cement - 5% Bentonite Slurry Bentonite	0 27.5	27.5 112.1
MW8-3B		Oct-13	410518.39	3768929.41	148	158	163	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	140 142.9	142.9 168	Mud Rotary	Bentonite	136	140
MW8-3C		Oct-13	410518.39	3768929.41	210	225	230	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	203.2 205	205 235	Mud Rotary	Bentonite	168	203.2
MW8-3D		Oct-13	410518.39	3768929.41	300	315	320	No	NA	350	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	292.7 295	295 323	Mud Rotary	Bentonite Bentonite	235 323	292.7 350
MW-D1	PVMWD01	Apr-08	412409.03	3763623.02	290	310	315	No	NA	320	10	4	SCH80 PVC	0.020	SCH80 PVC	60 3	282 285	285 320	Mud Rotary	10.3 Sack Cement	0	282
MW-D2	PVMWD02	Feb-08	409917.0962	3765450.11	410	430	435	No	NA	450	10	4	SCH80 PVC	0.020	SCH80 PVC	60 3	402 405	405 450	Mud Rotary	Sand-Cement Grout	0	402
OP-MW-1	W10OPMW1	NA	409100.0625	3765984.25	39	69	69	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OP-MW-2	W10OPMW2	NA	409120.1875	3765857.75	39	69	69	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OP-MW-4	W10OPMW4	NA	409105.9063	3765980	65	85	85	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
OP-MW-6	W10OPMW6	NA	409097.125	3765901.25	70	90	90	No	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
P-1A		Apr-13	409965.07	3768576.32	100	120	125	No	NA	360	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	207 210	210 241.5	Mud Rotary	Bentonite	195	207
P-1B		Apr-13	409965.07	3768576.32	170	185	190	No	NA	360	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	297.5 299.5	299.5 327	Mud Rotary	Bentonite Bentonite	241.5 327	297.5 360
P-1C		Apr-13	409965.07	3768576.32	215	230	235	No	NA	360	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	162 165	165 195	Mud Rotary	Bentonite	129	162
P-1D		Apr-13	409965.07	3768576.32	305	320	325	No	NA	360	12	2	SCH80 PVC	0.020	SCH80 PVC	60 2/12	92 95	95 129	Mud Rotary	Cement - 5% Bentonite Slurry Bentonite	0 30	30 92

Table 1
Monitoring Well Construction Details
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well ID	Station ID	Well Installation Date	X-Coord	Y-Coord	Screen Interval (ft bgs) Top	Screen Interval (ft bgs) Bottom	Total Depth (ft bgs)	Dedicated Pump (diameter in inches)	Dedicated Pump Depth (ft bgs)	Total Depth Drilled (feet bgs)	Borehole Diameter (inches)	Casing Diameter (inches)	Screen Material	Screen Slot Size (inches)	Casing Material	Filter Pack Grade	Filter Pack Top (feet bgs)	Filter Pack Bottom (feet bgs)	Drilling Method	Annular Seal Material	Annular Seal Top (feet bgs)	Annular Seal Bottom (feet bgs)
S02A	PVEWS02A	May-06	409496.47	3767116.69	75	105	110	No	NA	116.6	18	10	SST	30	Copper-Bearing Steel Casing	60 2/12	67 70	70 115	Mud Rotary	Bentonite-Cement-Sand Grout	0	67
S02B	PVEWS02B	Jun-06	409544.69	3767169.78	75	105	110	No	NA	115	18	10	SST	30	Copper-Bearing Steel Casing	60 2/12	67 70	70 115	Mud Rotary	Bentonite-Cement-Sand Grout	0	67
S03	PVEWS03	Aug-06	410177.1	3766586.5	105	130	135	No	NA	163	18	10	SST	70	Copper-Bearing Steel Casing	60 8/12	95.5 99	99 140	Mud Rotary	Bentonite-Cement-Sand Grout	0	95.5
S05	PVEWS05	May-06	410576	3767922.41	185	235	245	No	NA	255	20	12	SST	30	Copper-Bearing Steel Casing	60 2/12	177 180	180 246	Mud Rotary	Bentonite-Cement-Sand Grout	0	177
S06	PVEWS06	Apr-06	410900.67	3767573.47	180	210	215	No	NA	220	20	10	SST	30	Copper-Bearing Steel Casing	60 2/12	172 175	175 220	Mud Rotary	Bentonite-Cement-Sand Grout	0	172
S07	PVEWS07	Sep-06	411174.1	3767068.6	155	245	250	No	NA	270	18	10	SST	35	Copper-Bearing Steel Casing	60 12/20	146.5 150	150 255	Mud Rotary	Bentonite-Cement-Sand Grout	0	146.5
S09	PVEWS09	Jun-06	411176.7	3766632.4	120	215	220	No	NA	258	18	10	SST	20	Copper-Bearing Steel Casing	60 16/40	112 115	115 225	Mud Rotary	Bentonite-Cement-Sand Grout Grout	0 225	112 258
S10	PVEWS10	Aug-06	411402	3766684.7	105,175	150,200	205	No	NA	260	18	10	SST	20	Copper-Bearing Steel Casing	60 2/16 60 2/16	97 100 167 170	100 156 170 210	Mud Rotary	Bentonite-Cement-Sand Grout	0	97
S11	PVEWS11	Mar-06	411236.64	3766353.16	80,135	125,160	165	No	NA	265	18	10	SST	30	Copper-Bearing Steel Casing	60 12/20	71.5 74	74 171	Mud Rotary	Bentonite-Cement-Sand Grout Grout	0 171	71.5 265
S11A	PVEWS11A	Aug-06	411239.81	3766351	190	220	225	No	NA	230	14 1/4	6	SST	35	SST	60 3	181 185	185 230	Mud Rotary	Bentonite/Cement/Sand Grout	0	181
SW-04	PVESW04	Oct-08	410264.27	3766095.4	77	86	92	No	NA	94	10	4	SCH80PVC	0.020	SCH80 PVC	60 2/16	69 72	72 93	Mud Rotary	10.3 Sack Cement	0	69
SW-05	PVESW05	Sep-08	409717.41	3766925.14	80	90	95	No	NA	100	10	4	SCH80PVC	0.020	SCH80 PVC	60 2/16	72 75	75 100	Mud Rotary	10.3 Sack Cement	2	72
VCW-01	PVVCW01	Nov-08	411282.6105	3766976.714	258	268	273	No	NA	288	10	4	SCH80PVC	0.020	SCH80 PVC	2/16	253	273	Mud Rotary	10.3 Sack Cement Bentonite Bentonite	2 250 273	250 253 288
VCW-02	PVVCW02	Nov-08	410904.4554	3767571.541	272	282	287	No	NA	300	10	4	SCH80PVC	0.020	SCH80 PVC	2/16	267	287	Mud Rotary	10.3 Sack Cement Bentonite Bentonite	2 264 290	264 267 300
VCW-03	PVVCW03	Nov-08	411212.1773	3766529.318	215	225	230	No	NA	248	10	4	SCH80PVC	0.020	SCH80 PVC	60 2/16	207 210	210 230	Mud Rotary	10.3 Sack Cement Bentonite	2 232	207 248
VCW-06	PVVCW06	Oct-08	410261.1271	3766089.901	115	125	130	No	NA	160	10	4	SCH80PVC	0.020	SCH80 PVC	60 2/16	107 109	109 135	Mud Rotary	10.3 Sack Cement Bentonite	0 135	107 160
VCW-07	PVVCW07	Oct-08	410568.3682	3766123.605	140	150	155	No	NA	200	10	4	SCH80PVC	0.020	SCH80 PVC	60 2/16	132 135	135 155	Mud Rotary	10.3 Sack Cement Bentonite	0 155	132 200
VCW-09	PVVCW09	Sep-08	409716.5107	3766922.031	110	120	125	No	NA	140	10	4	SCH80PVC	0.020	SCH80 PVC	60 2/16	102 105	105 128	Mud Rotary	10.3 Sack Cement Bentonite	2 125	102 140

Notes

feet amsl - feet above mean sea level

feet bgs - feet below ground surface

NA - not available

SST - stainless steel

SCH - schedule

PVC - polyvinyl chloride

Table 2
Sampling Objectives Summary
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well ID	X-Coord	Y-Coord	Screen Interval (ft bgs)		Aquifer Zone	Sampling Objective
			Top	Bottom		
MW6-17I	409922.04	3765445.8	212	232	PVOU IZ	Mid-Valley Monitoring
MW6-44	410443.7813	3765556.75	322	332	PVOU PZ	Mid-Valley Monitoring
MW6-45	410448.625	3765541	224	234	PVOU IZ	Mid-Valley Monitoring
MW6-61	411262.2813	3764357.75	446	456	PVOU PZ	Mid-Valley Monitoring
MW6-62	411267	3764374	315	325	PVOU IZ	Mid-Valley Monitoring
MW6-63	411265.875	3764368	197	212	PVOU IZ	Mid-Valley Monitoring
MW6-64	411264.2813	3764363.25	17	37	PVOU SZ	Mid-Valley Monitoring
MW6-65	411284.1563	3764381.5	97	112	PVOU SZ	Mid-Valley Monitoring
MW6-71	412432.875	3763630.75	205	225	PVOU PZ	Mid-Valley Monitoring
MW-D1	412409.03	3763623.02	290	310	PVOU PZ	Mid-Valley Monitoring
MW-D2	409917.0962	3765450.11	410	430	PVOU PZ	Mid-Valley Monitoring
MW6-18 (LCW-04)	410564.6	3768060.01	215	225	PVOU SZ	Baseline COCs
MW6-19 (LCW-05)	410317.53	3767899.58	142	152	PVOU SZ	Baseline COCs
MW-17D (LCW-08)	409990.0058	3767111.186	83.5	95.5	PVOU SZ	Baseline COCs
MW-15 (LCW-10)	409311.6427	3767577.301	83	93	PVOU SZ	Baseline COCs
MP-20-4	410770.1853	3766616.165	194	204	PVOU SZ	Baseline COCs
MP-20-5	410770.1853	3766616.165	75.5	86	PVOU SZ	Baseline COCs
MP-21-6	410263.5698	3766093.387	150	160	PVOU SZ	Baseline COCs
MW-01A	409505.625	3767127.75	45	65	PVOU SZ	Baseline COCs
MW-01B	409507.0938	3767129.5	85	95	PVOU SZ	Baseline COCs
MW-02	409795.3125	3767178.75	50	70	PVOU SZ	Baseline COCs
MW-03	410184.375	3766594.5	53.5	74	PVOU SZ	Baseline COCs
MW-05	410326.9063	3766210	37	57	PVOU SZ	Baseline COCs
MW-06	410686.6563	3766423.5	85	95	PVOU SZ	Baseline COCs
MW-08	411288.625	3766533.5	88	98	PVOU SZ	Baseline COCs
MW-09	411021.2188	3766628.75	83	93	PVOU SZ	Baseline COCs
MW-10	410991.625	3766969.75	85	95	PVOU SZ	Baseline COCs
MW-11	410689.2188	3766426.25	160	175	PVOU SZ	Baseline COCs
MW-12	411011.9063	3766542	145	160	PVOU SZ	Baseline COCs
MW-13	409969.1971	3766387.044	40	60	PVOU SZ	Baseline COCs
MW-14	409561.3469	3766570.16	40	60	PVOU SZ	Baseline COCs
MW-16D	409769.4338	3767568.977	88	98	PVOU SZ	Baseline COCs
MW-16S	409744.4633	3767585.624	50	70	PVOU SZ	Baseline COCs
MW-17S	409969.1971	3767090.377	52	72	PVOU SZ	Baseline COCs
MW-18D	410945.5584	3766800.417	87	97	PVOU SZ	Baseline COCs
MW-18S	410967.7575	3766775.998	52	72	PVOU SZ	Baseline COCs
MW6-09	409596.98	3767227.81	130	150	PVOU SZ	Baseline COCs
MW6-10	410179.86	3766589.96	110	130	PVOU SZ	Baseline COCs
MW6-11	410923.53	3766815.9	145	165	PVOU SZ	Baseline COCs
MW6-12	410962.24	3766976.49	220	240	PVOU SZ	Baseline COCs
MW6-13	411364.31	3766654.02	173	183	PVOU SZ	Baseline COCs
MW6-15	411553.64	3767853.24	177	197	PVOU SZ	Baseline COCs
MW6-16	411695.97	3766644.68	175	185	PVOU SZ	Baseline COCs
MW6-17	410899.99	3767568.19	195	205	PVOU SZ	Baseline COCs
MW6-21	410233	3768254	205	225	PVOU SZ	Baseline COCs
MW6-35	409616.4688	3766207.5	215	230	PVOU SZ	Baseline COCs
MW6-36	409619.75	3766204.5	80	95	PVOU SZ	Baseline COCs
MW6-37	409621.9375	3766202.75	40	55	PVOU SZ	Baseline COCs
P-1A	409965.07	3768576.32	100	120	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
P-1B	409965.07	3768576.32	170	185	PVOU SZ	Baseline COCs/Baseline Groundwater Quality

Table 2
Sampling Objectives Summary
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well ID	X-Coord	Y-Coord	Screen Interval (ft bgs)		Aquifer Zone	Sampling Objective
			Top	Bottom		
P-1C	409965.07	3768576.32	215	230	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
P-1D	409965.07	3768576.32	305	320	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-1A	409802.49	3769044.03	115	130	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-1B	409802.49	3769044.03	185	200	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-1C	409802.49	3769044.03	235	250	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-1D	409802.49	3769044.03	310	325	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-2A	409493.43	3768650.26	115	130	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-2B	409493.43	3768650.26	185	200	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-2C	409493.43	3768650.26	230	245	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-2D	409493.43	3768650.26	310	325	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-3A	410518.39	3768929.41	120	130	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-3B	410518.39	3768929.41	148	158	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-3C	410518.39	3768929.41	210	225	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW8-3D	410518.39	3768929.41	300	315	PVOU SZ	Baseline COCs/Baseline Groundwater Quality
MW-07 (SW-01)	410888.5	3766217.25	88	98	PVOU SZ	Baseline COCs
MW-19 (SW-02)	411275.56	3766207.54	86.5	96.5	PVOU SZ	Baseline COCs
MW6-14 (SW-03)	411282.44	3767243.03	155	165	PVOU SZ	Baseline COCs
SW-04	410264.27	3766095.4	77	86	PVOU SZ	Baseline COCs
SW-05	409717.41	3766925.14	80	90	PVOU SZ	Baseline COCs
VCW-01	411282.6105	3766976.714	258	268	PVOU IZ	Baseline COCs
VCW-02	410904.4554	3767571.541	272	282	PVOU SZ	Baseline COCs
VCW-03	411212.1773	3766529.318	215	225	PVOU IZ	Baseline COCs
VCW-06	410261.1271	3766089.901	115	125	PVOU SZ	Baseline COCs
VCW-07	410568.3682	3766123.605	140	150	PVOU SZ	Baseline COCs
VCW-09	409716.5107	3766922.031	110	120	PVOU SZ	Baseline COCs
S02A	409496.47	3767116.69	75	105	PVOU SZ	Baseline Groundwater Quality
S02B	409544.69	3767169.78	75	105	PVOU SZ	Baseline Groundwater Quality
S03	410177.1	3766586.5	105	130	PVOU SZ	Baseline Groundwater Quality
S05	410576	3767922.41	185	235	PVOU SZ	Baseline Groundwater Quality
S06	410900.67	3767573.47	180	210	PVOU SZ	Baseline Groundwater Quality
S07	411174.1	3767068.6	155	245	PVOU SZ	Baseline Groundwater Quality
S09	411176.7	3766632.4	120	215	PVOU SZ	Baseline Groundwater Quality
S10	411402	3766684.7	105,175	150,200	PVOU SZ	Baseline Groundwater Quality
S11	411236.64	3766353.16	80,135	125,160	PVOU SZ	Baseline Groundwater Quality
MW6-20A	409053.92	3766175.84	190	220	PVOU SZ	Westernmost Plume Monitoring
MW6-20B	409050.93	3766178.35	130	140	PVOU SZ	Westernmost Plume Monitoring
OP-MW-1	409100.0625	3765984.25	39	69	PVOU SZ	Westernmost Plume Monitoring
OP-MW-2	409120.1875	3765857.75	39	69	PVOU SZ	Westernmost Plume Monitoring
OP-MW-4	409105.9063	3765980	65	85	PVOU SZ	Westernmost Plume Monitoring
OP-MW-6	409097.125	3765901.25	70	90	PVOU SZ	Westernmost Plume Monitoring

Notes

COC = chemicals of concern

feet bgs - feet below ground surface

NA - not available

PVOU IZ = Puente Valley Operable Unit Intermediate Zone

PVOU SZ = Puente Valley Operable Unit Shallow Zone

Table 3
Groundwater Elevation Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
OP-MW-1	39 - 69	294.71	69	07/19/95	31.48	263.23
				10/17/95	30.06	264.65
				05/25/11	59.16	235.55
				11/17/11	52.15	242.56
				05/17/12	48.32	246.39
				12/05/12	50.68	244.03
				02/25/13	51.57	243.14
				08/20/13	55.88	238.83
				03/13/14	57.63	237.08
				04/03/14	62.26	232.45
				08/25/14	Dry	Dry
OP-MW-2	39 - 69	296.37	69	07/19/95	32.1	264.27
				10/17/95	30.28	266.09
				05/25/11	60.78	235.59
				11/17/11	53.55	242.82
				05/17/12	49.70	246.67
				12/05/12	52.05	244.32
				02/25/13	52.96	243.41
				08/20/13	57.22	239.15
				03/13/14	63.03	233.34
				04/03/14	63.55	232.82
				08/25/14	Dry	Dry
OP-MW-4	65 - 85	294.80	85	07/19/95	31.62	263.18
				10/17/95	30.2	264.60
				05/25/11	59.50	235.30
				11/17/11	52.32	242.48
				05/17/12	48.58	246.22
				12/05/12	52.00	242.80
				02/25/13	51.96	242.84
				08/20/13	56.28	238.52
				03/13/14	63.63	231.17
				04/03/14	62.65	232.15
				08/25/14	68.00	226.80
OP-MW-6	70 - 90	295.75	90	07/19/95	31.72	264.03
				10/17/95	29.9	265.85
				05/25/11	60.75	235.00
				11/17/11	53.51	242.24
				05/17/12	49.67	246.08
				12/05/12	51.98	243.77
				02/25/13	52.90	242.85
				08/20/13	57.18	238.57
				03/13/14	63.02	232.73
				04/03/14	63.49	232.26
				08/25/14	68.09	227.66

Table 3
Groundwater Elevation Data
Puente Valley Operable Unit
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-01A[2]	45-65	298.85	65	11/19/97	53.00	245.85
				02/11/98	52.34	246.51
				07/20/98	45.38	253.47
				10/27/98	41.95	256.90
				08/19/99	44.75	254.10
				12/27/99	49.33	249.52
				03/06/00	51.59	247.26
				07/06/00	54.11	244.74
				03/26/02	DRY	DRY
				08/12/02	DRY	DRY
				02/12/03	63.92	234.93
				06/24/03	63.92	234.93
				10/21/03	63.95	234.90
				09/05/06	57.13	241.72
				01/31/07	56.81	242.04
				07/30/07	60.24	238.61
				02/17/09	DRY	DRY
				05/28/09	DRY	DRY
				08/24/09	DRY	DRY
				11/30/09	DRY	DRY
				03/02/10	DRY	DRY
				11/18/11	DRY	DRY
				05/16/12	DRY	DRY
				12/07/12	DRY	DRY
				02/25/13	DRY	DRY
				08/20/13	DRY	DRY
				03/12/14	DRY	DRY
				04/02/14	DRY	DRY
				08/25/14	DRY	DRY
				08/29/14	DRY	DRY
MW-01B[2]	85-95	298.87	95	11/19/97	53.00	245.87
				02/12/98	41.05	257.82
				07/20/98	45.30	253.57
				10/27/98	41.95	256.92
				08/19/99	44.80	254.07
				12/27/99	49.41	249.46
				03/06/00	51.61	247.26
				07/06/00	54.13	244.74
				03/26/02	67.44	231.43
				08/12/02	71.12	227.75
				02/12/03	76.66	222.21
				06/24/03	79.32	219.55
				10/21/03	81.64	217.23
				01/09/04	82.34	216.53
				09/05/06	57.07	241.80
				01/31/07	56.79	242.08
				07/30/07	60.16	238.71
				02/13/09	78.20	220.67
				05/28/09	80.70	218.17
				08/24/09	83.55	215.32
				11/30/09	86.30	212.57
				03/02/10	87.90	210.97
				11/18/11	71.05	227.82

Table 3
Groundwater Elevation Data
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Los Angeles County, California

Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-01B[2]	85-95	298.87	95	05/16/12	67.40	231.47
				12/07/12	71.87	227.00
				02/25/13	73.33	225.54
				08/20/13	78.15	220.72
				03/12/14	84.77	214.10
				04/02/14	85.31	213.56
				08/25/14	89.08	209.79
				08/29/14	89.13	209.74
MW-02[2]	50-70	302.41	70	11/14/97	54.62	247.79
				02/12/98	55.18	247.23
				07/21/98	49.46	252.95
				10/27/98	45.75	256.66
				08/19/99	47.37	255.04
				12/27/99	51.84	250.57
				03/06/00	54.73	247.68
				07/06/00	56.88	245.53
				03/26/02	DRY	DRY
				08/12/02	DRY	DRY
				02/12/03	DRY	DRY
				06/24/03	DRY	DRY
				10/21/03	DRY	DRY
				01/06/04	DRY	DRY
				09/07/06	60.61	241.80
				01/31/07	60.19	242.22
				07/30/07	63.17	239.24
				02/23/09	DRY	DRY
				05/26/09	DRY	DRY
				08/26/09	DRY	DRY
				11/23/09	DRY	DRY
				03/01/10	DRY	DRY
				11/17/11	DRY	DRY
				05/17/12	DRY	DRY
				12/03/12	DRY	DRY
				02/25/13	DRY	DRY
				08/20/13	DRY	DRY
				03/13/14	DRY	DRY
				04/02/14	DRY	DRY
				08/25/14	DRY	DRY
				09/02/14	DRY	DRY
MW-03[2]	53.5-74	304.01	75	11/19/97	53.00	251.01
				02/13/98	52.04	251.97
				07/21/98	48.40	255.61
				10/27/98	45.05	258.96
				03/27/02	64.80	239.21
				08/15/02	67.20	236.81
				02/12/03	69.86	234.15
				06/24/03	71.73	232.28
				10/21/03	72.75	231.26
				01/07/04	73.60	230.41
				09/15/06	57.93	246.08
				01/31/07	57.81	246.20
				08/03/07	60.00	244.01
				02/25/09	71.23	232.78

Table 3
Groundwater Elevation Data
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-03[2]	53.5-74	304.01	75	05/28/09	DRY	DRY
				08/24/09	DRY	DRY
				11/27/09	DRY	DRY
				03/02/10	DRY	DRY
				11/28/11	72.70	231.31
				5/54/12	67.90	236.11
				12/06/12	68.05	235.96
				02/26/13	68.98	235.03
				08/22/13	71.22	232.79
				03/12/14	DRY	DRY
				04/17/14	DRY	DRY
				08/25/14	DRY	DRY
				09/03/14	DRY	DRY
MW-05[2]	37-57	305.13	57.6	11/16/97	45.00	260.13
				02/16/98	43.60	261.53
				04/01/02	51.28	253.85
				08/15/02	51.80	253.33
				02/12/03	52.36	252.77
				06/24/03	51.73	253.40
				10/21/03	52.37	252.76
				01/07/04	52.85	252.28
				09/15/06	51.12	254.01
				01/31/07	51.16	253.97
				08/17/07	51.14	253.99
				02/25/09	57.00	248.13
				06/03/09	53.80	251.33
				09/02/09	52.15	252.98
				12/03/09	52.75	252.38
				03/03/10	53.00	252.13
				11/28/11	51.40	253.73
				05/24/12	51.97	253.16
				12/06/12	52.25	252.88
				02/26/13	52.58	252.55
				08/22/13	52.90	252.23
				03/12/14	53.42	251.71
				04/22/14	53.46	251.67
				08/26/14	53.56	251.57
				09/03/14	53.54	251.59
MW-06[2]	85-95	308.67	95	11/14/97	56.46	252.21
				02/13/98	57.52	251.15
				12/27/99	53.81	254.86
				03/28/02	70.82	237.85
				08/15/02	74.12	234.55
				02/12/03	78.81	229.86
				06/24/03	81.56	227.11
				10/21/03	83.37	225.30
				01/06/04	84.90	223.77
				09/07/06	64.88	243.79
				01/31/07	63.62	245.05
				07/31/07	65.98	242.69
				02/20/09	80.61	228.06
				05/27/09	82.65	226.02
				09/01/09	84.92	223.75

Table 3
Groundwater Elevation Data
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-06[2]	85-95	308.67	95	11/23/09	87.30	221.37
				03/01/10	88.85	219.82
				11/16/11	81.74	226.93
				05/15/12	75.85	232.82
				12/03/12	76.83	231.84
				02/26/13	77.61	231.06
				08/20/13	80.72	227.95
				03/13/14	85.79	222.88
				04/01/14	86.29	222.38
				08/25/14	88.72	219.95
				08/27/14	88.81	219.86
MW-07 (SW-01)[2]	88-98	310.37	98	11/20/97	54.01	256.36
				02/17/98	51.40	258.97
				08/19/99	46.96	263.41
				12/27/99	50.10	260.27
				03/06/00	53.63	256.74
				07/06/00	54.10	256.27
				03/29/02	64.59	245.78
				08/12/02	67.72	242.65
				02/12/03	70.83	239.54
				06/24/03	72.84	237.53
				10/21/03	74.27	236.10
				01/14/04	74.78	235.59
				01/31/07	56.84	253.53
				05/29/09	74.82	235.55
				08/31/09	76.75	233.62
				11/30/09	79.00	231.37
				03/08/10	80.00	230.37
				12/08/11	69.70	240.67
				05/25/12	68.00	242.37
				12/20/12	70.75	239.62
				08/22/13	74.20	236.17
				03/13/14	77.97	232.40
				04/25/14	78.82	231.55
				08/26/14	81.52	228.85
MW-08[2]	88-98	314.62	98.5	11/14/97	61.71	252.91
				02/12/98	62.15	252.47
				08/19/99	55.21	259.41
				12/27/99	58.97	255.65
				03/06/00	62.12	252.50
				07/06/00	63.30	251.32
				03/27/02	75.42	239.20
				08/13/02	78.20	236.42
				02/12/03	82.03	232.59
				06/24/03	84.70	229.92
				10/21/03	86.77	227.85
				01/09/04	88.10	226.52
				09/12/06	73.57	241.05
				01/31/07	71.22	243.40
				02/13/09	84.15	230.47
				06/02/09	86.25	228.37
				08/31/09	88.00	226.62
				11/24/09	89.90	224.72

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-08[2]	88-98	314.62	98.5	02/26/10	91.80	222.82
				11/16/11	90.60	224.02
				05/15/12	85.00	229.62
				12/03/12	83.50	231.12
				02/26/13	83.75	230.87
				08/21/13	85.56	229.06
				03/12/14	89.06	225.56
				04/02/14	89.12	225.50
				08/26/14	92.71	221.91
				08/27/14	92.78	221.84
MW-09[2]	83-93	312.62	95	11/14/97	62.12	250.50
				02/13/98	62.18	250.44
				08/19/99	55.51	257.11
				12/27/99	59.64	252.98
				03/06/00	61.67	250.95
				07/06/00	64.01	248.61
				03/27/02	76.50	236.12
				08/13/02	79.55	233.07
				02/12/03	84.51	228.11
				06/24/03	87.42	225.20
				10/21/03	89.47	223.15
				01/09/04	90.55	222.07
				09/13/06	70.86	241.76
				01/31/07	69.51	243.11
				02/17/09	86.86	225.76
				05/27/09	89.10	223.52
				08/25/09	90.89	221.73
				11/20/09	92.80	219.82
				02/24/10	DRY	DRY
				11/18/11	87.70	224.92
				05/18/12	82.40	230.22
				12/04/12	83.30	229.32
				02/25/13	83.95	228.67
				08/20/13	87.20	225.42
				03/12/14	91.52	221.10
				04/02/14	91.91	220.71
				08/25/14	DRY	DRY
				09/03/14	DRY	DRY
MW-10[2]	85-95	313.30	95	11/07/97	65.11	248.19
				02/11/98	64.95	248.35
				08/19/99	58.00	255.30
				12/27/99	63.65	249.65
				03/06/00	65.99	247.31
				07/06/00	67.89	245.41
				03/26/02	80.19	233.11
				08/13/02	83.65	229.65
				02/12/03	87.68	225.62
				06/24/03	DRY	DRY
				10/21/03	DRY	DRY
				01/08/04	DRY	DRY
				09/06/06	71.27	242.03
				01/31/07	70.94	242.36
				08/28/09	DRY	DRY

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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-10[2]	85-95	313.30	95	11/24/09	DRY	DRY
				02/25/10	DRY	DRY
				11/23/11	86.00	227.30
				05/16/12	82.70	230.60
				12/20/12	86.25	227.05
				02/26/13	86.73	226.57
				08/21/13	DRY	DRY
				03/12/14	DRY	DRY
				04/04/14	DRY	DRY
				08/26/14	DRY	DRY
				08/29/14	DRY	DRY
MW-11[2]	160-175	308.53	175	11/16/97	55.00	253.53
				02/12/98	56.50	252.03
				08/19/99	53.84	254.69
				12/27/99	57.33	251.20
				03/06/00	58.72	249.81
				07/06/00	63.49	245.04
				03/28/02	74.08	234.45
				03/29/02	74.17	234.36
				08/14/02	78.55	229.98
				02/12/03	82.52	226.01
				06/24/03	84.72	223.81
				10/21/03	85.86	222.67
				01/06/04	85.18	223.35
				09/07/06	61.56	246.97
				01/31/07	63.08	245.45
				08/01/07	69.38	239.15
				02/20/09	83.91	224.62
				05/27/09	84.89	223.64
				09/01/09	90.10	218.43
				11/23/09	92.31	216.22
				03/01/10	93.55	214.98
				11/16/11	73.85	234.68
				05/15/12	73.45	235.08
				12/03/12	78.80	229.73
				02/26/13	78.91	229.62
				08/20/13	85.45	223.08
				03/13/14	90.17	218.36
				04/01/14	97.60	210.93
				08/25/14	96.09	212.44
				08/27/14	96.14	212.39
MW-12[2]	145-160	311.69	160	11/18/97	67.00	244.69
				02/13/98	62.14	249.55
				08/27/99	58.41	253.28
				12/27/99	62.33	249.36
				03/06/00	64.97	246.72
				07/06/00	68.02	243.67
				03/29/02	78.96	232.73
				08/14/02	83.40	228.29
				02/12/03	87.11	224.58
				06/24/03	89.45	222.24
				10/21/03	89.10	222.59
				09/11/06	65.51	246.18

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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-12[2]	145-160	311.69	160	01/31/07	67.34	244.35
				02/12/09	89.14	222.55
				05/27/09	92.72	218.97
				08/25/09	95.89	215.80
				11/20/09	97.30	214.39
				02/26/10	98.80	212.89
				11/18/11	78.20	233.49
				05/18/12	78.00	233.69
				12/03/12	83.61	228.08
				02/25/13	83.56	228.13
				08/21/13	90.42	221.27
				03/12/14	94.92	216.77
				04/01/14	95.67	216.02
				08/25/14	101.03	210.66
MW-13[2]	40-60	298.86	60	07/22/98	39.85	259.01
				10/28/98	34.55	264.31
				03/27/02	52.98	245.88
				08/15/02	57.40	241.46
				02/12/03	DRY	DRY
				06/24/03	DRY	DRY
				10/21/03	DRY	DRY
				01/07/04	DRY	DRY
				09/15/06	50.21	248.65
				02/23/09	DRY	DRY
				06/01/09	DRY	DRY
				08/31/09	DRY	DRY
				12/03/09	DRY	DRY
				03/03/10	DRY	DRY
				11/28/11	DRY	DRY
				05/24/12	DRY	DRY
				12/06/12	DRY	DRY
				02/26/13	DRY	DRY
				08/22/13	DRY	DRY
				03/13/14	DRY	DRY
				04/04/14	DRY	DRY
				08/26/14	DRY	DRY
MW-14[2]	40-60	296.99	60	07/22/98	36.60	260.39
				10/28/98	37.00	259.99
				07/06/00	45.41	251.58
				03/28/02	59.75	237.24
				08/15/02	DRY	DRY
				02/12/03	DRY	DRY
				06/24/03	DRY	DRY
				10/21/03	DRY	DRY
				01/05/04	DRY	DRY
				09/15/06	51.69	245.30
				02/18/09	DRY	DRY
				06/01/09	DRY	DRY
				08/31/09	DRY	DRY
				12/03/09	DRY	DRY
				03/03/10	DRY	DRY
				11/28/11	DRY	DRY
				05/24/12	DRY	DRY

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-14[2]	40-60	296.99	60	12/06/12	DRY	DRY
				02/26/13	DRY	DRY
				08/22/13	DRY	DRY
				03/13/14	DRY	DRY
				04/04/14	DRY	DRY
				08/25/14	DRY	DRY
MW-15 (LCW-10)[3]	88-98	301.11	98	09/03/99	50.36	250.75
				12/27/99	54.85	246.26
				03/06/00	56.96	244.15
				07/06/00	59.59	241.52
				03/25/02	73.43	227.68
				08/12/02	76.82	224.29
				02/12/03	82.32	218.79
				06/24/03	84.97	216.14
				01/06/04	88.16	212.95
				09/07/06	60.96	240.15
				08/02/07	65.10	236.01
				02/18/09	84.05	217.06
				05/26/09	86.28	214.83
				08/27/09	89.36	211.75
				11/23/09	DRY	DRY
				03/01/10	DRY	DRY
				11/16/11	75.75	225.36
				05/15/12	71.59	229.52
				12/03/12	76.78	224.33
				02/25/13	78.45	222.66
				08/20/13	83.18	217.93
				03/13/14	90.81	210.30
				04/01/14	91.31	209.80
				08/25/14	DRY	DRY
MW-16D[3]	88-98	304.15	98	09/03/99	53.24	250.91
				12/27/99	56.42	247.73
				03/06/00	59.57	244.58
				07/06/00	61.57	242.58
				03/25/02	75.92	228.23
				03/26/02	75.40	228.75
				08/12/02	79.32	224.83
				02/12/03	84.67	219.48
				06/24/03	87.08	217.07
				10/21/03	86.98	217.17
				01/13/04	89.96	214.19
				09/05/06	63.43	240.72
				01/31/07	63.57	240.58
				08/02/07	67.61	236.54
				02/18/09	86.43	217.72
				05/26/09	86.45	217.70
				08/26/09	91.05	213.10
				11/23/09	93.70	210.45
				03/01/10	DRY	DRY
				11/17/11	77.75	226.40
				05/25/12	74.10	230.05
				12/03/12	79.20	224.95
				02/25/13	80.81	223.34

Table 3
Groundwater Elevation Data
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Los Angeles County, California

Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-16D[3]	88-98	304.15	98	08/20/13	85.72	218.43
				03/13/14	91.96	212.19
				04/01/14	92.61	211.54
				08/25/14	DRY	DRY
MW-16S[3]	50-70	304.00	70	09/03/99	51.02	252.98
				12/27/99	55.27	248.73
				03/06/00	59.12	244.88
				07/06/00	60.90	243.10
				03/25/02	DRY	DRY
				08/12/02	DRY	DRY
				02/12/03	DRY	DRY
				06/24/03	DRY	DRY
				10/21/03	DRY	DRY
				01/06/04	DRY	DRY
				09/05/06	63.18	240.82
				08/02/07	64.90	236.73
				02/18/09	DRY	DRY
				05/26/09	DRY	DRY
				08/26/09	DRY	DRY
				11/23/09	DRY	DRY
				03/01/10	DRY	DRY
				11/17/11	DRY	DRY
				05/25/12	DRY	DRY
				12/03/12	DRY	DRY
				02/25/13	DRY	DRY
				08/20/13	DRY	DRY
				03/13/14	DRY	DRY
				04/01/14	DRY	DRY
				08/26/14	DRY	DRY
MW-17D (LCW-08)[3]	92-102	303.37	102	08/27/99	49.02	254.35
				12/27/99	53.10	250.27
				03/06/00	55.87	247.50
				07/06/00	58.07	245.30
				03/29/02	71.77	231.60
				08/12/02	75.47	227.90
				02/12/03	80.81	222.56
				06/24/03	83.45	219.92
				10/21/03	85.59	217.78
				01/06/04	86.31	217.06
				09/06/06	61.58	241.79
				01/31/07	60.64	242.73
				07/31/07	64.62	238.75
				02/18/09	82.61	220.76
				05/26/09	84.88	218.49
				08/26/09	87.68	215.69
				11/24/09	90.00	213.37
				03/01/10	91.85	211.52
				11/16/11	75.85	227.52
				05/15/12	71.90	231.47
				12/13/12	76.23	227.14
				02/25/13	77.61	225.76
				08/20/13	82.20	221.17
				03/12/14	88.71	214.66

Table 3
Groundwater Elevation Data
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-17D (LCW-08)[3]	92-102	303.37	102	04/02/14	89.16	214.21
				08/26/14	92.84	210.53
				08/27/14	92.92	210.45
MW-17S[3]	52-72	303.44	72	08/27/99	47.35	256.09
				12/27/99	51.44	252.00
				03/06/00	54.69	248.75
				07/06/00	56.40	247.04
				03/28/02	DRY	DRY
				08/12/02	DRY	DRY
				02/12/03	DRY	DRY
				06/24/03	DRY	DRY
				10/21/03	DRY	DRY
				01/06/04	DRY	DRY
				09/06/06	62.13	241.31
				07/31/07	62.61	240.83
				02/18/09	DRY	DRY
				05/26/09	DRY	DRY
				08/26/09	DRY	DRY
				11/23/09	DRY	DRY
				03/01/10	DRY	DRY
				11/16/11	DRY	DRY
				05/15/12	DRY	DRY
				12/03/12	DRY	DRY
				02/25/13	DRY	DRY
				08/20/13	DRY	DRY
				03/12/14	DRY	DRY
				04/02/14	DRY	DRY
				08/26/14	DRY	DRY
MW-18D[3]	87-97	312.24	97	08/27/99	57.29	254.95
				12/27/99	61.21	251.03
				03/06/00	62.73	249.51
				07/06/00	63.45	248.79
				03/26/02	78.50	233.74
				08/12/02	81.97	230.27
				02/12/03	87.03	225.21
				06/24/03	89.74	222.50
				10/21/03	91.38	220.86
				01/07/04	96.33	215.91
				09/06/06	70.36	241.88
				01/31/07	69.75	242.49
				07/31/07	73.28	238.96
				02/11/09	89.91	222.33
				06/02/09	91.32	220.92
				08/28/09	DRY	DRY
				11/19/09	DRY	DRY
				02/24/10	DRY	DRY
				11/16/11	85.55	226.69
				05/15/12	81.16	231.08
				12/04/12	84.31	227.93
				02/26/13	85.22	227.02
				08/21/13	89.32	222.92
				03/13/14	DRY	DRY
				04/23/14	DRY	DRY
				08/26/14	DRY	DRY

Table 3
Groundwater Elevation Data
Puente Valley Operable Unit
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW-18S[3]	52-72	312.58	72	08/27/99	54.34	258.24
				12/27/99	57.55	255.03
				03/06/00	64.43	248.15
				07/06/00	66.40	246.18
				03/26/02	67.20	245.38
				08/12/02	66.32	246.26
				02/12/03	66.08	246.50
				06/24/03	66.29	246.29
				10/21/03	65.98	246.60
				01/07/04	66.14	246.44
				09/06/06	64.59	247.99
				01/31/07	63.71	248.87
				02/11/09	DRY	DRY
				06/02/09	DRY	DRY
				08/28/09	DRY	DRY
				11/19/09	DRY	DRY
				02/24/10	DRY	DRY
				11/16/11	65.10	247.48
				05/15/12	65.45	247.13
				12/04/12	65.80	246.78
				02/26/13	65.52	247.06
				08/21/13	65.60	246.98
				03/13/14	65.81	246.77
				04/23/14	65.86	246.72
				08/26/14	DRY	DRY
MW-19 (SW-02)[2]	87-97	314.14	97	08/27/99	57.89	256.25
				12/27/99	61.33	252.81
				03/06/00	63.83	250.31
				07/06/00	66.80	247.34
				03/28/02	77.43	236.71
				08/13/02	81.84	232.30
				02/12/03	85.70	228.44
				06/24/03	88.02	226.12
				10/21/03	89.19	224.95
				01/07/04	88.85	225.29
				09/11/06	65.96	248.18
				01/31/07	67.06	247.08
				08/02/07	73.04	241.10
				02/12/09	87.51	226.63
				05/27/09	89.98	224.16
				09/01/09	92.98	221.16
				11/24/09	95.00	219.14
				03/08/10	96.10	218.04
				11/21/11	77.46	236.68
				05/18/12	76.64	237.50
				12/05/12	81.78	232.36
				02/26/13	82.51	231.63
				08/21/13	88.82	225.32
				03/12/14	93.06	221.08
				04/02/14	93.78	220.36
				08/25/14	DRY	DRY
MW6-09[3]	130-150	300.41	155	09/23/02	74.88	225.53
				11/14/02	76.65	223.76
				11/18/02	76.87	223.54

Table 3
Groundwater Elevation Data
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-09[3]	130-150	300.41	155	02/12/03	79.08	221.33
				06/24/03	81.76	218.65
				10/21/03	84.10	216.31
				01/09/04	84.75	215.66
				09/13/06	58.87	241.54
				01/31/07	58.96	241.45
				08/01/07	62.66	237.75
				02/11/09	80.55	219.86
				05/28/09	83.25	217.16
				08/24/09	85.93	214.48
				11/30/09	88.70	211.71
				03/02/10	90.35	210.06
				11/18/11	73.00	227.41
				05/16/12	69.47	230.94
				12/07/12	74.12	226.29
				02/25/13	75.60	224.81
				08/20/13	80.52	219.89
				03/12/14	87.15	213.26
				04/02/14	87.72	212.69
				08/25/14	91.54	208.87
				09/16/14	92.14	208.27
MW6-10[3]	110-130	303.61	135	09/23/02	72.28	231.33
				11/14/02	73.81	229.80
				02/12/03	76.21	227.40
				06/24/03	78.82	224.79
				10/21/03	80.90	222.71
				01/07/04	81.69	221.92
				09/15/06	58.98	244.63
				01/31/07	58.54	245.07
				08/03/07	62.03	241.58
				02/19/09	78.08	225.53
				05/28/09	80.31	223.30
				08/24/09	82.62	220.99
				11/27/09	85.18	218.43
				03/02/10	87.00	216.61
				11/28/11	72.83	230.78
				05/24/12	69.35	234.26
				12/06/12	72.60	231.01
				02/26/13	73.82	229.79
				08/22/13	78.38	225.23
				03/12/14	84.00	219.61
				04/17/14	84.98	218.63
				08/26/14	88.44	215.17
				09/03/14	88.59	215.02
MW6-11[3]	145-165	311.63	170	09/23/02	87.29	224.34
				11/14/02	88.40	223.23
				02/12/03	90.39	221.24
				06/24/03	92.47	219.16
				10/21/03	93.68	217.95
				01/08/04	93.30	218.33
				09/11/06	67.32	244.31
				01/31/07	69.82	241.81
				07/31/07	76.56	235.07
				02/11/09	92.12	219.51

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-11[3]	145-165	311.63	170	06/02/09	95.08	216.55
				08/28/09	98.45	213.18
				11/19/09	101.40	210.23
				02/24/10	101.35	210.28
				11/16/11	81.88	229.75
				05/15/12	79.62	232.01
				12/04/12	85.67	225.96
				02/26/13	86.54	225.09
				08/21/13	93.38	218.25
				03/13/14	98.29	213.34
				04/23/14	NM[6]	NM[6]
				08/26/14	104.43	207.20
				08/27/14	104.39	207.24
MW6-12[3]	220-240	312.52	245	09/23/02	90.30	222.22
				11/18/02	91.91	220.61
				02/12/03	93.18	219.34
				06/24/03	95.30	217.22
				10/21/03	96.21	216.31
				01/12/04	95.62	216.90
				09/12/06	68.74	243.78
				01/31/07	71.69	240.83
				08/03/07	79.60	232.92
				02/10/09	95.30	217.22
				06/01/09	98.18	214.34
				08/28/09	101.78	210.74
				11/20/09	104.00	208.52
				02/25/10	104.38	208.14
				11/23/11	80.57	231.95
				05/16/12	81.40	231.12
				01/09/13	87.40	225.12
				02/25/13	88.78	223.74
				08/21/13	96.47	216.05
				03/12/14	101.05	211.47
				04/04/14	101.80	210.72
				08/25/14	107.81	204.71
				08/29/14	107.80	204.72
MW6-13[3]	173-183	314.75	188	08/26/02	88.55	226.20
				11/21/02	91.03	223.72
				02/12/03	92.42	222.33
				06/24/03	94.47	220.28
				10/21/03	95.39	219.36
				01/08/04	95.04	219.71
				09/12/06	69.42	245.33
				08/03/07	79.43	235.32
				02/11/09	94.41	220.34
				06/01/09	97.22	217.53
				08/31/09	100.55	214.20
				11/24/09	102.75	212.00
				02/26/10	103.28	211.47
				12/07/11	80.92	233.83
				05/22/12	81.55	233.20
				12/19/12	87.45	227.30
				02/25/13	88.46	226.29
				08/21/13	95.55	219.20

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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-13[3]	173-183	314.75	188	03/12/14	100.14	214.61
				04/25/14	101.88	212.87
				08/25/14	106.36	208.39
				09/17/14	107.09	207.66
MW6-14 (SW-03)[3]	155-165	318.25	170	09/23/02	96.53	221.72
				11/15/02	98.15	220.10
				02/12/03	99.43	218.82
				06/24/03	101.64	216.61
				10/21/03	102.54	215.71
				01/08/04	101.89	216.36
				09/11/06	74.97	243.28
				01/31/07	77.72	240.53
				08/02/07	85.55	232.70
				02/10/09	102.00	216.25
				05/29/09	105.00	213.25
				08/27/09	108.22	210.03
				11/19/09	110.32	207.93
				02/24/10	111.00	207.25
				12/07/11	86.45	231.80
				05/23/12	87.58	230.67
				12/18/12	94.08	224.17
				02/26/13	95.52	222.73
				08/21/13	102.85	215.40
				03/13/14	107.73	210.52
				04/23/14	109.32	208.93
				08/26/14	114.27	203.98
				08/29/14	114.24	204.01
MW6-15[3]	177-197	328.28	202	09/23/02	108.66	219.62
				11/15/02	110.30	217.98
				02/12/03	111.78	216.50
				06/24/03	113.81	214.47
				10/21/03	114.25	214.03
				01/12/04	113.58	214.70
				09/12/06	85.23	243.05
				01/31/07	88.83	239.45
				02/09/09	114.35	213.93
				05/29/09	117.40	210.88
				08/27/09	120.85	207.43
				11/19/09	123.10	205.18
				02/24/10	123.60	204.68
				12/06/11	96.75	231.53
				05/22/12	98.46	229.82
				01/09/13	105.60	222.68
				02/25/13	106.99	221.29
				08/21/13	115.03	213.25
				03/13/14	120.01	208.27
				04/04/14	120.59	207.69
				08/26/14	126.82	201.46
				08/28/14	126.79	201.49
MW6-16[3]	175-185	319.99	190	09/17/02	93.46	226.53
				11/14/02	95.03	224.96
				02/12/03	96.54	223.45
				06/24/03	98.84	221.15
				01/05/04	99.35	220.64

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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-16[3]	175-185	319.99	190	09/12/06	74.04	245.95
				08/03/07	83.47	236.52
				02/11/09	98.89	221.10
				06/01/09	101.55	218.44
				09/01/09	104.88	215.11
				11/20/09	107.00	212.99
				02/25/10	107.80	212.19
				12/08/11	84.35	235.64
				05/25/12	86.00	233.99
				12/14/12	91.59	228.40
				02/25/13	92.76	227.23
				08/21/13	99.82	220.17
				03/12/14	104.51	215.48
				04/04/14	105.08	214.91
				08/26/14	110.69	209.30
				09/05/14	111.03	208.96
MW6-17[3]	195-205	317.51	210	09/23/02	97.70	219.81
				11/15/02	99.21	218.30
				12/06/02	99.80	217.71
				02/12/03	99.78	217.73
				06/24/03	102.82	214.69
				10/21/03	103.72	213.79
				01/12/04	103.05	214.46
				09/12/06	75.08	242.43
				01/31/07	78.08	239.43
				08/01/07	86.25	231.26
				02/10/09	103.15	214.36
				05/28/09	106.00	211.51
				08/26/09	109.56	207.95
				11/18/09	111.80	205.71
				02/23/10	112.40	205.11
				12/06/11	86.80	230.71
				05/23/12	88.00	229.51
				12/19/12	95.15	222.36
				02/25/13	95.98	221.53
				08/21/13	103.90	213.61
				03/13/14	109.05	208.46
				04/18/14	110.46	207.05
				08/26/14	115.51	202.00
				08/28/14	115.60	201.91
MW6-17I[4]	212-232	298.11	237	07/23/08	52.50	245.61
				10/28/08	54.40	243.71
				02/25/09	53.78	244.33
				06/03/09	56.72	241.39
				09/02/09	59.95	238.16
				12/03/09	61.80	236.31
				03/03/10	60.60	237.51
				05/26/10	61.00	237.11
				08/31/10	60.61	237.50
				11/30/10	58.97	239.14
				05/24/11	49.36	248.75
				11/28/11	43.90	254.21
				05/24/12	45.65	252.46
				12/06/12	49.40	248.71

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Shallow Zone North Remedy
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-17I[4]	212-232	298.11	237	02/26/13	50.01	248.10
				08/22/13	57.38	240.73
				03/12/14	59.75	238.36
				04/17/14	61.63	236.48
				08/26/14	66.51	231.60
				09/03/14	66.80	231.31
MW6-18 (LCW-04)[3]	215-225	317.65	230	06/24/03	105.80	211.85
				10/21/03	106.72	210.93
				01/05/04	105.82	211.83
				09/13/06	76.72	240.93
				01/31/07	80.23	237.42
				08/03/07	88.70	228.95
				02/09/09	105.85	211.80
				05/29/09	109.10	208.55
				08/26/09	112.68	204.97
				11/18/09	115.20	202.45
				02/23/10	115.55	202.10
				12/05/11	88.35	229.30
				05/22/12	89.87	227.78
				12/18/12	97.64	220.01
				02/25/13	98.71	218.94
				08/21/13	106.75	210.90
				03/13/14	112.18	205.47
				04/01/14	112.69	204.96
				08/26/14	119.01	198.64
				08/28/14	118.94	198.71
MW6-19 (LCW-05)[3]	142-152	313.03	157	06/24/03	97.93	215.10
				10/21/03	99.87	213.16
				01/12/04	100.11	212.92
				09/12/06	72.34	240.69
				01/31/07	73.72	239.31
				08/01/07	79.08	233.95
				02/10/09	97.55	215.48
				06/10/09	100.15	212.88
				08/27/09	102.80	210.23
				11/18/09	105.35	207.68
				02/23/10	107.10	205.93
				11/22/11	86.21	226.82
				05/18/12	83.89	229.14
				12/13/12	90.13	222.90
				02/25/13	91.48	221.55
				08/21/13	96.98	216.05
				03/13/14	103.52	209.51
				04/01/14	104.04	208.99
				08/26/14	108.53	204.50
				08/27/14	108.51	204.52
MW6-20A[4]	65-75	290.65	80	09/17/08	53.00	237.65
				12/23/08	55.06	235.59
				02/17/09	56.47	234.18
				06/02/09	58.55	232.10
				09/02/09	60.62	230.03
				12/04/09	62.90	227.75
				03/09/10	64.00	226.65
				05/25/10	64.65	226.00

Table 3
Groundwater Elevation Data
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-20A[4]	65-75	290.65	80	09/02/10	64.62	226.03
				11/29/10	65.00	225.65
				05/26/11	62.16	228.49
				11/17/11	54.75	235.90
				05/17/12	50.90	239.75
				12/05/12	52.88	237.77
				02/25/13	53.91	236.74
				08/20/13	57.75	232.90
				03/12/14	62.20	228.45
				04/03/14	65.52	225.13
				08/26/14	64.75	225.90
				09/03/14	64.69	225.96
MW6-20B[4]	130-140	290.66	145	09/17/08	55.50	235.16
				12/23/08	57.71	232.95
				02/17/09	58.89	231.77
				06/02/09	61.40	229.26
				09/02/09	64.30	226.36
				12/04/09	67.00	223.66
				03/09/10	68.40	222.26
				05/25/10	69.05	221.61
				09/02/10	68.86	221.80
				11/29/10	68.65	222.01
				05/26/11	61.42	229.24
				11/17/11	54.35	236.31
				05/17/12	51.22	239.44
				12/05/12	54.50	236.16
				02/25/13	55.48	235.18
				08/20/13	60.30	230.36
				03/12/14	66.01	224.65
				04/03/14	66.57	224.09
				08/26/14	71.08	219.58
				09/03/14	71.25	219.41
MW6-21[4]	205-225	316.39	230	12/05/11	86.90	229.49
				05/18/12	88.50	227.89
				12/13/12	96.89	219.50
				02/25/13	97.96	218.43
				08/21/13	106.03	210.36
				03/13/14	111.64	204.75
				04/18/14	113.09	203.30
				08/26/14	118.56	197.83
				08/27/14	118.56	197.83
MW6-35[2]	215-230	294.69	235	08/01/95	38.10	256.59
				08/24/95	38.12	256.57
				09/22/95	37.79	256.90
				10/01/95	37.40	257.29
				10/19/95	37.42	257.27
				11/01/95	37.23	257.46
				12/01/95	37.13	257.56
				01/01/96	37.20	257.49
				01/26/96	37.22	257.47
				02/01/96	36.14	258.55
				03/24/98	42.15	252.54
				09/03/98	35.54	259.15
				01/31/07	48.70	245.99

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Groundwater Elevation Data
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-35[2]	215-230	294.69	235	02/24/09	68.25	226.44
				06/04/09	70.80	223.89
				09/03/09	74.28	220.41
				12/02/09	76.80	217.89
				03/04/10	77.50	217.19
				11/29/11	60.58	234.11
				05/29/12	59.10	235.59
				12/10/12	63.30	231.39
				02/26/13	64.24	230.45
				08/21/13	69.95	224.74
				03/12/14	75.19	219.50
				04/07/14	75.91	218.78
				08/26/14	80.68	214.01
				09/15/14	81.25	213.44
MW6-36[2]	80-95	295.05	100	08/01/95	38.14	256.91
				08/24/95	38.14	256.91
				09/22/95	37.52	257.53
				10/01/95	37.15	257.90
				10/20/95	37.15	257.90
				11/01/95	36.60	258.45
				12/01/95	36.34	258.71
				01/01/96	36.12	258.93
				01/26/96	36.12	258.93
				02/01/96	35.30	259.75
				03/24/98	40.67	254.38
				09/03/98	35.17	259.88
				03/19/02	55.22	239.83
				08/19/02	59.03	236.02
				01/05/04	69.58	225.47
				01/31/07	47.41	247.64
				02/25/09	65.90	229.15
				06/04/09	68.25	226.80
				09/03/09	70.80	224.25
				12/02/09	72.75	222.30
				03/04/10	75.00	220.05
				11/29/11	61.70	233.35
				05/29/12	58.58	236.47
				12/10/12	61.42	233.63
				02/26/13	62.45	232.60
				08/21/13	66.78	228.27
				03/12/14	72.51	222.54
				04/07/14	73.17	221.88
				08/26/14	77.00	218.05
				09/15/14	77.51	217.54
MW6-37[2]	40-55	294.35	60	08/01/95	36.14	258.21
				08/24/95	36.19	258.16
				09/22/95	35.51	258.84
				10/01/95	35.13	259.22
				10/20/95	35.18	259.17
				11/01/95	34.77	259.58
				12/01/95	34.08	260.27
				01/01/96	33.86	260.49
				01/26/96	33.91	260.44
				02/01/96	34.80	259.55

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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-37[2]	40-55	294.35	60	03/24/98	37.12	257.23
				09/03/98	33.10	261.25
				03/28/02	50.37	243.98
				08/13/02	54.16	240.19
				01/05/04	59.70	234.65
				09/14/06	46.59	247.76
				01/31/07	44.53	249.82
				08/03/07	46.08	248.27
				02/19/09	DRY	DRY
				06/04/09	DRY	DRY
				09/03/09	DRY	DRY
				12/02/09	DRY	DRY
				03/04/10	DRY	DRY
				11/29/11	55.75**	NA
				05/29/12	55.55**	NA
				12/10/12	55.80**	NA
				02/26/13	55.99**	NA
				08/21/13	55.94**	NA
				03/12/14	56.20**	NA
				04/07/14	56.21**	NA
				08/26/14	56.24**	NA
				09/19/14	DRY	DRY
MW6-44[4]	322-332	300.60	337	04/01/95	78.67	221.93
				05/01/95	75.05	225.55
				06/01/95	77.96	222.64
				08/01/95	88.35	212.25
				08/30/95	88.76	211.84
				09/01/95	78.48	222.12
				10/01/95	80.84	219.76
				11/01/95	79.58	221.02
				12/01/95	74.42	226.18
				01/01/96	74.05	226.55
				02/01/96	75.45	225.15
				01/31/07	94.62	205.98
				07/24/08	132.80	167.80
				10/27/08	136.65	163.95
				02/24/09	112.91	187.69
				06/04/09	128.90	171.70
				09/02/09	143.00	157.60
				12/02/09	123.00	177.60
				03/04/10	109.85	190.75
				05/26/10	117.00	183.60
				08/31/10	125.20	175.40
				11/30/10	117.30	183.30
				05/24/11	94.30	206.30
				11/29/11	82.35	218.25
				05/29/12	99.35	201.25
				12/10/12	92.25	208.35
				02/26/13	96.52	204.08
				08/22/13	130.35	170.25
				03/12/14	114.72	185.88
				04/07/14	119.49	181.11
				08/26/14	142.75	157.85
				09/15/14	142.76	157.84

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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-45[4]	224-234	300.53	239	04/01/95	57.56	242.97
				05/01/95	52.91	247.62
				06/01/95	54.22	246.31
				08/01/95	59.79	240.74
				08/30/95	59.79	240.74
				09/01/95	56.38	244.15
				10/01/95	56.26	244.27
				11/01/95	55.72	244.81
				12/01/95	52.84	247.69
				01/01/96	52.78	247.75
				02/01/96	53.42	247.11
				01/31/07	65.64	234.89
				07/24/08	88.90	211.63
				10/27/08	91.31	209.22
				02/24/09	82.21	218.32
				06/04/09	91.70	208.83
				09/02/09	98.65	201.88
				12/02/09	92.75	207.78
				03/04/10	86.80	213.73
				05/26/10	90.05	210.48
				08/31/10	93.10	207.43
				11/30/10	87.34	213.19
				05/24/11	73.55	226.98
				11/29/11	64.90	235.63
				05/29/12	73.52	227.01
				12/10/12	73.65	226.88
				02/26/13	75.15	225.38
				08/22/13	94.05	206.48
				03/12/14	87.60	212.93
				04/07/14	92.42	208.11
				08/26/14	105.02	195.51
				09/15/14	105.07	195.46
MW6-61[4]	446-456	326.03	461	04/01/95	49.08	276.95
				05/01/95	45.53	280.50
				06/01/95	46.19	279.84
				08/01/95	49.81	276.22
				08/30/95	51.39	274.64
				09/01/95	51.69	274.34
				10/01/95	50.00	276.03
				11/01/95	49.25	276.78
				12/01/95	48.67	277.36
				01/01/96	47.82	278.21
				02/01/96	47.52	278.51
				03/18/02	64.77	261.26
				08/16/02	75.76	250.27
				01/31/07	58.32	267.71
				07/25/08	85.70	240.33
				10/29/08	84.55	241.48
				02/24/09	75.48	250.55
				06/05/09	82.20	243.83
				09/04/09	88.72	237.31
				03/05/10	76.30	249.73
				05/27/10	76.45	249.58
				09/01/10	81.38	244.65

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-61[4]	446-456	326.03	461	12/01/10	75.82	250.21
				05/25/11	59.15	266.88
				12/01/11	58.40	267.63
				05/31/12	62.00	264.03
				12/12/12	66.12	259.91
				02/26/13	54.21	271.82
				08/20/13	85.60	240.43
				03/12/14	77.53	248.50
				04/09/14	79.09	246.94
				08/25/14	91.08	234.95
				09/22/14	90.01	236.02
MW6-62[2]	310-325	323.90	330	04/01/95	32.12	291.78
				05/01/95	30.79	293.11
				06/01/95	30.69	293.21
				08/01/95	31.97	291.93
				08/30/95	32.87	291.03
				09/01/95	32.60	291.30
				10/01/95	31.55	292.35
				11/01/95	31.31	292.59
				12/01/95	31.01	292.89
				01/01/96	30.78	293.12
				02/01/96	30.65	293.25
				03/18/02	42.16	281.74
				01/31/07	37.97	285.93
				12/07/09	53	270.90
				11/30/11	39.95	283.95
				05/30/12	42.45	281.45
				12/11/12	45.41	278.49
				02/26/13	43.73	280.17
				08/20/13	52.37	271.53
				03/12/14	51.09	272.81
				04/08/14	52.34	271.56
				08/25/14	59.55	264.35
				09/19/14	59.76	264.14
MW6-63[4]	197-212	324.92	217.4	04/01/95	25.18	299.74
				05/01/95	24.23	300.69
				06/01/95	24.09	300.83
				08/01/95	24.58	300.34
				08/30/95	24.57	300.35
				09/01/95	24.60	300.32
				10/01/95	24.44	300.48
				11/01/95	24.34	300.58
				12/01/95	24.16	300.76
				01/01/96	24.34	300.58
				02/01/96	24.21	300.71
				03/18/02	33.85	291.07
				01/31/07	29.52	295.40
				07/24/08	39.90	285.02
				10/29/08	40.48	284.44
				02/24/09	36.71	288.21
				06/04/09	40.05	284.87
				09/04/09	43.95	280.97
				12/01/09	42.75	282.17
				03/04/10	41.50	283.42

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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-63[4]	197-212	324.92	217.4	05/26/10	41.47	283.45
				08/31/10	43.92	281.00
				11/30/10	42.45	282.47
				05/25/11	36.26	288.66
				11/30/11	33.28	291.64
				05/30/12	34.70	290.22
				12/11/12	36.80	288.12
				02/26/13	36.54	288.38
				08/20/13	40.42	284.50
				03/12/14	42.06	282.86
				04/08/14	42.68	282.24
				08/25/14	46.91	278.01
				09/15/14	48.46	276.46
MW6-64[2]	17.4-37.4	324.88	38	02/13/03	22.2	302.68
				06/24/03	22.39	302.49
				10/20/03	22.84	302.04
				06/28/05	21.88	303.00
				12/05/05	21.98	302.90
				06/29/06	21.79	303.09
				02/01/07	22.05	302.83
				06/12/07	22.1	302.78
				01/17/08	23.21	301.67
				09/04/08	22.67	302.21
				12/01/10	23.06	301.82
				12/01/11	22.35	302.53
				05/31/12	22.40	302.48
				12/12/12	22.70	302.18
				02/26/13	22.72	302.16
				08/20/13	23.27	301.61
				03/12/14	23.92	300.96
				04/08/14	23.62	301.26
				08/25/14	25.05	299.83
				09/15/14	25.29	299.59
MW6-65[2]	97-112	324.49	117	08/16/02	36.98	287.51
				07/26/04	31.35	293.14
				12/05/05	27.46	297.03
				09/18/06	26.53	297.96
				02/01/07	26.44	298.05
				06/12/07	27.44	297.05
				01/17/08	29.13	295.36
				09/04/08	29.77	294.72
				12/01/10	32.22	292.27
				12/02/11	29.00	295.49
				05/30/12	28.75	295.74
				12/11/12	29.98	294.51
				02/26/13	29.86	294.63
				08/20/13	31.38	293.11
				03/12/14	32.17	292.32
				04/09/14	33.51	290.98
				08/25/14	34.35	290.14
				09/19/14	38.62	285.87
MW6-71[4]	205-225	345.48	235	04/01/95	14.49	330.99
				05/01/95	14.31	331.17
				06/01/95	14.45	331.03

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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW6-71[4]	205-225	345.48	235	08/01/95	14.84	330.64
				08/30/95	14.88	330.60
				09/01/95	15.08	330.40
				10/01/95	15.06	330.42
				11/01/95	15.00	330.48
				12/01/95	14.94	330.54
				01/01/96	15.10	330.38
				02/01/96	15.00	330.48
				03/19/02	18.67	326.81
				07/26/04	24.83	320.65
				09/15/06	21.19	324.29
				01/31/07	17.65	327.83
				07/22/08	24.70	320.78
				02/25/09	20.84	324.64
				06/05/09	22.30	323.18
				09/04/09	28.22	317.26
				03/05/10	22.35	323.13
				09/01/10	27.90	317.58
				12/01/10	24.00	321.48
				05/25/11	20.62	324.86
				12/01/11	18.54	326.94
				05/31/12	21.55	323.93
				12/12/12	21.98	323.50
				02/26/13	20.28	325.20
				08/20/13	22.78	322.70
				03/13/14	23.23	322.25
				04/09/14	23.42	322.06
				08/25/14	28.02	317.46
				09/22/14	29.46	316.02
MW8-1A	115-130	317.83	135	09/24/13	110.51	207.32
				01/06/14	114.30	203.53
				03/13/14	115.75	202.08
				04/21/14	116.98	200.85
				08/26/14	122.17	195.66
				09/09/14	122.73	195.10
MW8-1B	185-200	317.81	205	09/24/13	112.11	205.70
				01/06/14	115.24	202.57
				03/13/14	116.73	201.08
				04/21/14	118.27	199.54
				08/26/14	123.86	193.95
				09/09/14	124.44	193.37
MW8-1C	235-250	317.82	255	09/24/13	112.89	204.93
				01/06/14	115.58	202.24
				03/13/14	117.08	200.74
				04/21/14	118.81	199.01
				08/26/14	124.65	193.17
				09/09/14	125.21	192.61
MW8-1D	310-325	317.82	330	09/24/13	116.33	201.49
				01/06/14	117.77	200.05
				03/13/14	119.39	198.43
				04/21/14	120.75	197.07
				08/26/14	128.35	189.47
				09/09/14	128.84	188.98

Table 3
Groundwater Elevation Data
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
MW8-2A	115-130	311.32	135	09/24/13	102.18	209.14
				01/07/14	106.45	204.87
				03/13/14	108.05	203.27
				04/22/14	109.15	202.17
				08/26/14	113.38	197.94
				09/04/14	113.72	197.60
MW8-2B	185-200	311.31	205	09/24/13	104.41	206.90
				01/07/14	107.78	203.53
				03/13/14	109.32	201.99
				04/22/14	110.87	200.44
				08/26/14	115.98	195.33
				09/04/14	116.34	194.97
MW8-2C	230-245	311.31	250	09/24/13	105.15	206.16
				01/07/14	108.32	202.99
				03/13/14	109.85	201.46
				04/22/14	111.55	199.76
				08/26/14	116.79	194.52
				09/04/14	117.15	194.16
MW8-2D	310-325	311.33	330	09/24/13	111.17	200.16
				01/07/14	112.49	198.84
				03/13/14	113.89	197.44
				04/22/14	116.54	194.79
				08/26/14	123.19	188.14
				09/04/14	123.57	187.76
MW8-3A	120-130	324.36	135	11/07/13	117.52	206.84
				01/08/14	118.75	205.61
				03/13/14	120.09	204.27
				04/22/14	121.14	203.22
				08/26/14	125.86	198.50
				09/08/14	126.42	197.94
MW8-3B	148-158	324.37	163	11/07/13	117.57	206.80
				01/08/14	118.67	205.70
				03/13/14	119.98	204.39
				04/22/14	121.14	203.23
				08/26/14	126.04	198.33
				09/08/14	126.55	197.82
MW8-3C	210-225	324.35	230	11/07/13	120.45	203.90
				01/08/14	120.82	203.53
				03/13/14	122.18	202.17
				04/22/14	123.86	200.49
				08/26/14	129.81	194.54
				09/08/14	130.32	194.03
MW8-3D	300-315	324.4	320	11/07/13	123.50	200.90
				01/08/14	122.87	201.53
				03/13/14	124.17	200.23
				04/22/14	126.35	198.05
				08/26/14	132.95	191.45
				09/08/14	133.52	190.88
D-1[4]	290-310	345.88	315	07/22/08	20.40	325.48
				02/23/09	19.25	326.63
				06/05/09	19.75	326.13
				09/04/09	22.84	323.04
				03/05/10	20.21	325.67
				09/01/10	22.20	323.68

Table 3
Groundwater Elevation Data
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Los Angeles County, California

Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
D-1[4]	290-310	345.88	315	12/01/10	20.31	325.57
				05/25/11	13.67	332.21
				12/01/11	14.55	331.33
				05/31/12	15.20	330.68
				12/12/12	18.88	327.00
				02/26/13	16.85	329.03
				08/20/13	20.84	325.04
				03/13/14	21.17	324.71
				04/09/14	21.50	324.38
				08/25/14	24.82	321.06
				09/05/14	25.22	320.66
D-2[4]	410-430	298.01	435	07/23/08	133.20	164.81
				10/28/08	138.11	159.90
				02/25/09	113.95	184.06
				06/03/09	127.75	170.26
				09/02/09	143.35	154.66
				12/03/09	125.00	173.01
				03/03/10	109.90	188.11
				05/26/10	116.55	181.46
				08/31/10	126.10	171.91
				11/30/10	117.55	180.46
				05/24/11	93.75	204.26
				11/28/11	79.60	218.41
				05/24/12	98.68	199.33
				12/06/12	92.00	206.01
				02/25/13	95.49	202.52
				08/22/13	130.70	167.31
				03/12/14	112.61	185.40
				04/17/14	123.70	174.31
				08/26/14	143.49	154.52
				09/03/14	142.16	155.85
MP20-4[5]	194-204	309.25	510	12/26/12	-	228.46
				09/11/13	-	219.35
				04/28/14	-	213.79
				09/16/14	-	208.69
MP20-5[5]	75.5-85.5	309.25	510	12/26/12	-	229.84
				09/11/13	-	225.37
				04/28/14	-	225.30
				09/16/14	-	225.32
MP21-6[5]	150-160	302.12	540	12/26/12	-	235.13
				09/11/13	-	227.04
				04/28/14	-	221.43
				09/16/14	-	217.07
P-1A	100-120	318.47	125	05/06/13	101.86	216.61
				08/21/13	106.61	211.86
				01/09/14	112.22	206.25
				03/13/14	113.67	204.80
				04/21/14	114.67	203.80
				08/26/14	119.14	199.33
				09/02/14	119.41	199.06
P-1B	170-185	318.5	190	05/06/13	102.12	216.38
				08/21/13	106.92	211.58
				01/09/14	112.44	206.06
				03/13/14	113.91	204.59

Table 3
Groundwater Elevation Data
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
P-1B	170-185	318.5	190	04/21/14	115.07	203.43
				08/26/14	119.88	198.62
				09/02/14	120.14	198.36
P-1C	215-230	318.48	235	05/06/13	104.62	213.86
				08/21/13	110.27	208.21
				01/09/13	114.64	203.84
				03/13/14	116.03	202.45
				04/21/14	117.66	200.82
				08/26/14	123.20	195.28
				09/02/14	123.50	194.98
P-1D	305-320	318.46	325	05/06/13	108.59	209.87
				08/21/13	115.58	202.88
				01/09/13	115.92	202.54
				03/13/14	119.21	199.25
				04/21/14	121.60	196.86
				08/26/14	128.17	190.29
				09/02/14	128.58	189.88
S-02A[3]	75-105	298.34	110	01/31/07	56.45	241.89
				03/02/10	89.00	209.34
				05/25/10	89.82	208.52
				09/02/10	89.28	209.06
				11/29/10	89.00	209.34
				05/23/11	80.70	217.64
				11/18/11	72.00	226.34
				05/16/12	68.40	229.94
				12/07/12	72.90	225.44
				02/26/13	74.23	224.11
				08/20/13	79.25	219.09
				03/12/14	85.82	212.52
				04/14/14	86.72	211.62
				08/25/14	90.14	208.20
				08/29/14	90.20	208.14
S-02B[3]	75-105	299.48	110	01/31/07	57.70	241.78
				03/02/10	87.40	212.08
				05/26/10	88.30	211.18
				09/02/10	87.80	211.68
				11/29/10	87.50	211.98
				05/23/11	79.49	219.99
				11/18/11	70.71	228.77
				05/16/12	67.02	232.46
				12/07/12	71.49	227.99
				02/25/13	73.05	226.43
				08/20/13	77.74	221.74
				03/12/14	84.41	215.07
				04/14/14	85.36	214.12
				08/25/14	88.74	210.74
				08/29/14	88.74	210.74
S-03[3]	105-130	303.65	135	01/31/07	58.29	245.36
				03/02/10	86.80	216.85
				05/26/10	86.80	216.85

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
S-03[3]	105-130	303.65	135	09/02/10	88.00	215.65
				11/29/10	87.10	216.55
				05/24/11	81.66	221.99
				11/28/11	72.85	230.80
				05/24/12	69.35	234.30
				12/06/12	72.52	231.13
				02/26/13	73.86	229.79
				08/22/13	78.35	225.30
				03/12/14	83.98	219.67
				04/10/14	84.56	219.09
				08/26/14	88.26	215.39
				09/03/14	88.38	215.27
S-05[3]	185-235	317.74	245	01/31/07	79.74	238.00
				03/01/10	114.44	203.30
				05/25/10	113.68	204.06
				09/02/10	110.90	206.84
				11/29/10	109.28	208.46
				05/23/11	95.80	221.94
				11/23/11	88.20	229.54
				05/31/12	89.42	228.32
				12/13/12	96.80	220.94
				02/25/13	97.95	219.79
				08/21/13	105.75	211.99
				12/17/13	109.22	208.52
				03/13/14	111.16	206.58
				04/15/14	112.44	205.30
				08/26/14	117.97	199.77
				09/11/14	118.41	199.33
S-06[3]	180-210	317.45	215	01/31/07	77.93	239.52
				03/03/10	111.90	205.55
				05/25/10	111.32	206.13
				09/02/10	108.72	208.73
				11/29/10	107.12	210.33
				05/23/11	94.42	223.03
				11/22/11	86.10	231.35
				05/21/12	87.78	229.67
				12/07/12	94.70	222.75
				02/25/13	95.75	221.70
				08/21/13	103.55	213.90
				12/16/13	106.80	210.65
				03/13/14	108.65	208.80
				04/11/14	109.25	208.20
				08/26/14	115.21	202.24
				09/12/14	116.72	200.73
S-07[3]	155-245	317.38	250	01/31/07	76.08	241.30
				02/25/10	108.85	208.53
				05/25/10	108.50	208.88
				09/02/10	106.15	211.23

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
S-07[3]	155-245	317.38	250	11/29/10	104.62	212.76
				05/23/11	92.70	224.68
				11/22/11	85.40	231.98
				05/17/12	85.84	231.54
				12/17/12	92.31	225.07
				02/26/13	93.20	224.18
				08/21/13	100.80	216.58
				12/16/13	103.80	213.58
				03/13/14	NM[1]	NM[1]
				04/16/14	106.93	210.45
				08/25/14	112.04	205.34
				09/10/14	112.51	204.87
S-09[3]	120-215	314.47	220	01/31/07	71.14	243.33
				03/10/10	102.30	212.17
				05/26/10	102.30	212.17
				09/02/10	100.45	214.02
				11/29/10	99.15	215.32
				05/23/11	88.21	226.26
				11/23/11	80.85	233.62
				05/17/12	81.00	233.47
				12/14/12	86.65	227.82
				02/26/13	87.60	226.87
				08/21/13	94.72	219.75
				12/17/13	97.58	216.89
				03/12/14	99.34	215.13
				04/15/14	100.55	213.92
				08/26/14	105.52	208.95
				09/12/14	105.91	208.56
S-10[3]	105-150 175-200	316.03	205	01/31/07	72.96	243.07
				02/26/10	104.85	211.18
				05/25/10	104.55	211.48
				09/02/10	102.10	213.93
				11/29/10	101.00	215.03
				05/23/11	89.80	226.23
				12/08/11	82.08	233.95
				05/17/12	82.66	233.37
				12/20/12	87.25	228.78
				02/26/13	89.48	226.55
				08/21/13	96.70	219.33
				12/19/13	99.53	216.50
				03/12/14	101.32	214.71
				04/16/14	102.69	213.34
				08/25/14	107.66	208.37
				09/10/14	108.21	207.82
S-11[3]	80-125 135-160	311.17	165	01/31/07	65.31	245.86
				03/10/10	95.25	215.92

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
S-11[3]	80-125 135-160	311.17	165	05/25/10	95.45	215.72
				09/02/10	94.00	217.17
				11/29/10	92.80	218.37
				05/23/11	82.50	228.67
				11/21/11	75.48	235.69
				05/21/12	75.98	235.19
				12/04/12	81.72	229.45
				02/26/13	81.34	229.83
				08/20/13	87.98	223.19
				12/18/13	90.75	220.42
				03/12/14	92.41	218.76
				04/11/14	93.37	217.80
				08/25/14	98.16	213.01
				09/11/14	98.65	212.52
S-11A[3]	190-220	311.73	225	03/10/10	95.30	216.43
				11/21/11	74.32	237.41
				05/21/12	74.90	236.83
				12/04/12	80.41	231.32
				02/26/13	81.17	230.56
				08/20/13	89.01	222.72
				03/12/14	92.97	218.76
				08/25/14	99.96	211.77
SW-04[4]	77-87	300.64	92	10/27/08	65.30	235.34
				02/20/09	69.60	231.04
				05/26/09	71.98	228.66
				08/25/09	74.35	226.29
				12/04/09	77.35	223.29
				03/09/10	79.25	221.39
				11/25/11	68.59	232.05
				05/31/12	63.60	237.04
				12/17/12	65.55	235.09
				02/26/13	66.58	234.06
				08/22/13	70.58	230.06
				03/12/14	76.45	224.19
				04/17/14	77.39	223.25
				08/26/14	80.31	220.33
				09/03/14	80.32	220.32
SW-05[4]	80-90	298.17	95	10/02/08	73.15	225.02
				02/19/09	77.68	220.49
				05/26/09	80.00	218.17
				08/24/09	82.61	215.56
				11/27/09	85.05	213.12
				03/08/10	87.10	211.07
				11/25/11	71.00	227.17
				05/21/12	67.58	230.59
				12/14/12	71.80	226.37
				02/26/13	72.94	225.23
				08/21/13	77.62	220.55
				03/12/14	83.84	214.33
				04/18/14	84.78	213.39

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
SW-05[4]	80-90	298.17	95	08/26/14	88.05	210.12
				08/29/14	88.11	210.06
VCW-01[4]	258-268	315.47	273	12/04/08	71.24	244.23
				02/18/09	104.19	211.28
				06/01/09	108.52	206.95
				08/31/09	113.00	202.47
				11/19/09	114.25	201.22
				02/25/10	113.50	201.97
				12/02/11	85.32	230.15
				05/17/12	88.79	226.68
				12/17/12	95.59	219.88
				02/25/13	96.89	218.58
				08/20/13	107.40	208.07
				03/12/14	110.62	204.85
				04/04/14	111.47	204.00
				08/25/14	119.07	196.40
				08/28/14	119.16	196.31
VCW-02[4]	272-282	316.02	287	12/17/08	104.42	211.60
				02/10/09	105.01	211.01
				05/28/09	108.46	207.56
				08/26/09	112.36	203.66
				11/18/09	114.30	201.72
				02/23/10	114.10	201.92
				11/22/11	86.87	229.15
				05/21/12	89.20	226.82
				12/07/12	96.40	219.62
				02/25/13	97.40	218.62
				08/21/13	106.62	209.40
				03/13/14	111.03	204.99
				04/18/14	112.68	203.34
				08/26/14	118.49	197.53
				08/28/14	118.55	197.47
VCW-03[4]	215-225	309.99	230	11/14/08	63.90	246.09
				02/12/09	89.09	220.90
				05/27/09	89.88	220.11
				08/25/09	93.55	216.44
				11/20/09	98.20	211.79
				02/26/10	98.10	211.89
				11/21/11	75.55	234.44
				05/21/12	76.86	233.13
				12/13/12	82.22	227.77
				02/25/13	83.13	226.86
				08/20/13	91.68	218.31
				03/12/14	95.21	214.78
				04/02/14	96.10	213.89
				08/25/14	102.39	207.60
				08/27/14	102.39	207.60
VCW-06[4]	115-125	300.37	130	10/27/08	59.78	240.59
				02/20/09	67.90	232.47
				05/26/09	70.68	229.69
				08/25/09	73.15	227.22
				12/04/09	75.65	224.72
				03/09/10	75.45	224.92
				11/25/11	63.05	237.32

Table 3
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Well	Screened Interval (Feet BGS)	TOC Elevation[1] (Feet MSL)	Total Well Depth (Feet BGS)	Date	Depth to Water (Feet TOC)	Water Elevation (Feet MSL)
VCW-06[4]	115-125	300.37	130	05/31/12	61.20	239.17
				12/17/12	64.46	235.91
				02/26/13	64.43	235.94
				08/22/13	69.10	231.27
				03/12/14	73.51	226.86
				04/17/14	74.44	225.93
				08/26/14	78.12	222.25
				09/03/14	78.17	222.20
VCW-07[4]	140-150	303.44	155	10/14/08	76.95	226.49
				02/17/09	77.70	225.74
				06/02/09	80.60	222.84
				09/01/09	83.68	219.76
				11/27/09	85.90	217.54
				02/25/10	84.60	218.84
				11/25/11	67.24	236.20
				05/24/12	67.15	236.29
				12/06/12	71.93	231.51
				02/26/13	72.81	230.63
				08/22/13	79.60	223.84
				03/12/14	83.74	219.70
				04/17/14	85.17	218.27
				08/26/14	89.91	213.53
VCW-09[4]	110-120	298.19	125	10/02/08	59.00	239.19
				02/17/09	77.40	220.79
				05/26/09	79.65	218.54
				08/24/09	82.28	215.91
				11/27/09	84.75	213.44
				03/08/10	86.75	211.44
				11/25/11	70.70	227.49
				05/21/12	67.35	230.84
				12/14/12	71.49	226.70
				02/26/13	72.66	225.53
				08/21/13	77.32	220.87
				03/12/14	83.55	214.64
				04/18/14	84.52	213.67
				08/25/14	87.81	210.38
				08/29/14	109.88	188.31

Notes:
1 = All elevations are based on NAVD 88
2 = Datum was not specified in database. Datum was assumed to be either NGVD 29 or NAVD 88 based on water levels in nearby wells with known datum. If the datum was assumed to be NGVD 29, the datum was converted to NAVD 88 by surveyor
3 = Reported in database as NGVD 29 and converted to NAVD 88 by surveyor
4 = Surveyed as NAVD 88
5 = Westbay multi-port well; water level is based on port pressure measurements
6 = Inaccessible due to parked drill rig
BGS = Below ground surface
MSL = Above mean sea level
NA = Not applicable
NM = Not monitored
TOC = Top of casing
* = Monitored at EPA's request
** = Water level is below the screen interval; data cannot be used.

Table 4
Summary of Vertical Gradients for Cluster Wells
Spring/Fall 2014

Puente Valley Operable Unit Shallow Zone
Los Angeles County, California

Well ID	Hydrogeologic Unit	Screen Location: Top Screen (feet amsl)	Screen Location: Screen Midpoint (feet amsl)	Screen Location: Bottom Screen (feet amsl)	Spring 2014 (feet amsl)	Fall 2014 (feet amsl)	Vertical Gradient: Adjacent Screens	Vertical Gradient: Spring 2014	Vertical Gradient: Fall 2014
MW6-64	SZ	307.48	297.48	287.48	300.96	299.83	MW6-64 - MW6-65	**-0.1115**	**-0.1250**
MW6-65	SZ	227.49	219.99	212.49	292.32	290.14	MW6-65 - MW6-63	**-0.0950**	**-0.1218**
MW6-63	IZ	127.92	120.42	112.92	282.86	278.01	MW6-63 - MW6-62	**-0.0568**	**-0.0771**
MW6-62	PZ	13.90	6.40	-1.10	272.81	264.35	MW6-62 - MW6-61	**-0.1850**	**-0.2238**
MW6-61	PZ	-119.97	-124.97	-129.97	248.50	234.95			
MW6-46[1]	UIZ	154.76	147.26	139.76	238.26	257.53	MW6-46 - MW6-45	**-0.3345**	**-0.8190**
MW6-45	LIZ	76.53	71.53	66.53	212.93	195.51	MW6-45 - MW6-44	**-0.2762**	**-0.3846**
MW6-44	PZ	-21.40	-26.40	-31.40	185.88	157.85	MW6-44 - MW6-43	**-0.0728**	**-0.0815**
MW6-43[1]	PZ	-122.43	-127.43	-132.43	178.52	149.62	MW6-43 - MW6-42	**0.0245**	**0.0545**
MW6-42[1]	PZ	-358.44	-368.44	-378.44	184.42	162.76	MW6-42 - MW6-41	**0.0545**	**0.0875**
MW6-41[1]	PZ	-805.73	-813.23	-820.73	208.65	201.67			
MW6-37	SZ	254.35	246.85	239.35	NA	NA	MW6-37 - MW6-36		
MW6-36	SZ	215.05	207.55	200.05	222.54	218.05	MW6-36 - MW6-35	**-0.0225**	**-0.0298**
MW6-35	SZ	79.69	72.19	64.69	219.50	214.01	MW6-35 - MW6-34	**-0.0841**	**-0.1179**
MW6-34[1]	UIZ	-2.88	-7.88	-12.88	212.77	204.57	MW6-34 - MW6-33	**-0.1829**	**-0.0956**
MW6-33[1]	LIZ	-178.22	-183.22	-188.22	180.70	187.81	MW6-33 - MW6-32	**-0.0173**	**-0.1792**
MW6-32[1]	PZ	-419.94	-424.94	-429.94	176.53	144.50	MW6-32 - MW6-31	**0.0136**	**0.0553**
MW6-31[1]	PZ	-771.39	-778.89	-786.39	181.33	164.06			
MP20-05[1]	SZ	233.75	228.75	223.75	225.30	225.23	MP20-05 - MP20-04	**-0.0849**	**-0.1369**
MP20-04[1]	SZ	115.25	110.25	105.25	215.24	209.01	MP20-04 - MP20-03	**-0.0883**	**-0.1030**
MP20-03[1]	LIZ	21.25	16.25	11.25	206.94	199.33	MP20-03 - MP20-02	**-0.2885**	**-0.3665**
MP20-02[1]	PZ	-26.75	-31.75	-36.75	193.09	181.74	MP20-02 - MP20-01	**-0.1739**	**-0.2045**

Table 4
Summary of Vertical Gradients for Cluster Wells
Spring/Fall 2014

Puente Valley Operable Unit Shallow Zone
Los Angeles County, California

Well ID	Hydrogeologic Unit	Screen Location			Spring 2014 (feet amsl)	Fall 2014 (feet amsl)	Vertical Gradient		
		Top Screen (feet amsl)	Screen Midpoint (feet amsl)	Bottom Screen (feet amsl)			Adjacent Screens	Spring 2014	Fall 2014
MP20-01[1]	PZ	-124.75	-129.75	-134.75	176.05	161.70			
MP21-06[1]	SZ	152.12	147.12	142.12	222.47	216.75	MP21-06 - MP21-05	**-0.0748**	**-0.0927**
MP21-05[1]	UIZ	57.12	52.12	47.12	215.36	207.94	MP21-05 - MP21-04	**-0.4340**	**-0.5521**
MP21-04[1]	LIZ	-17.88	-22.88	-27.88	182.81	166.53	MP21-04 - MP21-03	**-0.1402**	**-0.1040**
MP21-03[1]	LIZ	-62.88	-67.88	-72.88	176.50	161.85	MP21-03 - MP21-02	**0.4917**	**-0.2241**
MP21-02[1]	PZ	-132.88	-137.88	-142.88	210.92	146.16	MP21-02 - MP21-01	**-0.4418**	**-0.1000**
MP21-01[1]	PZ	-227.88	-232.88	-237.88	168.95	136.66			

Notes:

amsl = above mean sea level

IZ -Intermediate Zone

LIZ - Lower Intermediate Zone

NA = Not available

PZ - Production Zone (equivalent to the deep zone or "DZ"). Redesignation of the PZ as including both the LIZ and DZ is not considered in this table.

SZ - Shallow Zone

UIZ - Upper Intermediate Zone (previously referred to as Merged Zone)

* = Water level is below screen interval; data cannot be used.

[1] = CDM data

Negative vertical gradient indicates downward groundwater movement. Positive vertical gradient indicates upward groundwater movement.

Table 5
Summary Matrix of Trend Analysis
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	PCE	TCE	1,1-DCE	1,4-Dioxane	1,1-DCA	CIS 1,2-DCE	Cr VI	Nitrate	Perchlorate	TDS	DEC	INC	NT	ID	NS	Total
MP20-4	NT	NT	NT	NT	NT	NT	NT	NS	ID	NS	0	0	7	1	2	10
MP20-5	ID	ID	ID	NS	ID	ID	ID	NS	ID	NS	0	0	0	7	3	10
MP21-6	NT	NT	NT	NT	NT	INC	NT	NS	ID	NS	0	1	6	1	2	10
MW-01a	NT	NT	NT	ID	NT	DEC	NS	NT	ID	NT	1	0	6	2	1	10
MW-01b	INC	NT	DEC	DEC	NT	INC	NT	NT	INC	NT	2	3	5	0	0	10
MW-02	NT	NT	NT	ID	NT	NT	NS	NT	ID	DEC	1	0	6	2	1	10
MW-03	DEC	DEC	DEC	DEC	NT	DEC	NT	NT	NT	NT	5	0	5	0	0	10
MW-04	DEC	DEC	DEC	ID	NT	DEC	NS	NT	ID	ID	4	0	2	3	1	10
MW-05	DEC	DEC	DEC	DEC	DEC	DEC	DEC	NT	INC	NT	7	1	2	0	0	10
MW-06	INC	NT	NT	NT	NT	NT	NT	NT	NT	NT	0	1	9	0	0	10
MW-07	NT	DEC	DEC	DEC	DEC	DEC	INC	NT	NT	NT	5	1	4	0	0	10
MW-08	DEC	DEC	DEC	DEC	DEC	NT	NT	NT	NT	NT	5	0	5	0	0	10
MW-09	DEC	DEC	DEC	DEC	DEC	DEC	NT	DEC	NT	NT	7	0	3	0	0	10
MW-10	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0	0	10	0	0	10
MW-11	NT	DEC	DEC	DEC	DEC	DEC	NT	NT	DEC	NT	6	0	4	0	0	10
MW-12	DEC	DEC	NT	NT	DEC	DEC	NT	NT	NT	NT	4	0	6	0	0	10
MW-13	NT	NT	NT	ID	DEC	NT	ID	ID	ID	ID	1	0	4	5	0	10
MW-14	NT	NT	NT	ID	NT	NT	NS	NT	ID	NT	0	0	7	2	1	10
MW-15	NT	DEC	DEC	DEC	NT	NT	NT	NT	NT	NT	3	0	7	0	0	10
MW-16D	DEC	DEC	DEC	DEC	NT	DEC	NT	NT	NT	NT	5	0	5	0	0	10
MW-16S	NT	NT	NT	ID	NT	NT	NS	NT	ID	DEC	1	0	6	2	1	10
MW-17D	DEC	DEC	DEC	DEC	NT	NT	NT	NT	DEC	NT	5	0	5	0	0	10
MW-17S	DEC	NT	DEC	ID	NT	NT	NS	NT	ID	NT	2	0	5	2	1	10
MW-18D	DEC	INC	DEC	DEC	DEC	DEC	NT	NT	NT	NT	5	1	4	0	0	10
MW-18S	DEC	DEC	DEC	NT	DEC	DEC	NT	ID	ID	ID	5	0	2	3	0	10
MW-19	DEC	DEC	DEC	NT	DEC	DEC	NT	NT	NT	DEC	6	0	4	0	0	10
MW6-09	DEC	DEC	DEC	DEC	DEC	DEC	NT	NT	NT	NT	6	0	4	0	0	10
MW6-10	DEC	DEC	DEC	DEC	DEC	DEC	NT	NT	NT	NT	6	0	4	0	0	10
MW6-11	NT	NT	NT	DEC	NT	DEC	NT	NT	NT	NT	2	0	8	0	0	10
MW6-12	DEC	DEC	DEC	NT	DEC	DEC	NT	NT	NT	NT	5	0	5	0	0	10
MW6-13	DEC	DEC	DEC	NT	DEC	NT	NT	NT	NT	NT	4	0	6	0	0	10
MW6-14	NT	NT	INC	NT	NT	NT	NT	NT	NT	NT	0	1	9	0	0	10
MW6-15	DEC	DEC	NT	DEC	DEC	DEC	NT	NT	INC	NT	5	1	4	0	0	10
MW6-16	DEC	DEC	DEC	DEC	DEC	DEC	NT	NT	INC	NT	6	1	3	0	0	10
MW6-17	INC	NT	INC	NT	INC	INC	NT	NT	INC	NT	0	5	5	0	0	10
MW6-17I	NT	DEC	DEC	DEC	NT	DEC	NT	NS	NT	NS	4	0	4	0	2	10
MW6-18	INC	INC	INC	INC	INC	INC	DEC	NT	NT	NT	1	6	3	0	0	10
MW6-19	NT	DEC	DEC	DEC	NT	NT	NT	ID	INC	ID	3	1	4	2	0	10
MW6-20A	DEC	DEC	DEC	DEC	DEC	DEC	NT	NS	ID	NS	6	0	1	1	2	10
MW6-20B	DEC	DEC	DEC	DEC	DEC	DEC	NT	NS	ID	NS	6	0	1	1	2	10

Table 5
Summary Matrix of Trend Analysis
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	PCE	TCE	1,1-DCE	1,4-Dioxane	1,1-DCA	CIS 1,2-DCE	Cr VI	Nitrate	Perchlorate	TDS	DEC	INC	NT	ID	NS	Total
MW6-21	INC	INC	INC	NT	INC	INC	NT	NS	ID	NS	0	5	2	1	2	10
MW6-35	INC	DEC	NT	DEC	DEC	DEC	NT	NT	DEC	NT	5	1	4	0	0	10
MW6-36	DEC	DEC	DEC	DEC	DEC	DEC	INC	NT	NT	NT	6	1	3	0	0	10
MW6-37	DEC	DEC	DEC	NT	DEC	NT	ID	ID	NT	NT	4	0	4	2	0	10
MW6-44	DEC	DEC	DEC	DEC	NT	DEC	DEC	NT	DEC	NT	7	0	3	0	0	10
MW6-45	DEC	DEC	DEC	DEC	NT	DEC	DEC	NT	DEC	NT	7	0	3	0	0	10
MW6-61	DEC	NT	DEC	DEC	NT	DEC	NT	ID	DEC	ID	5	0	3	2	0	10
MW6-62	INC	NT	NT	NT	NT	NT	NT	NT	NT	NT	0	1	9	0	0	10
MW6-63	DEC	DEC	DEC	DEC	DEC	DEC	NT	ID	NT	NT	6	0	3	1	0	10
MW6-64	NT	NT	NT	NT	NT	NT	NT	NS	DEC	NS	1	0	7	0	2	10
MW6-65	NT	INC	NT	NT	NT	INC	ID	NS	NT	NS	0	2	5	1	2	10
MW6-71	NT	DEC	INC	DEC	NT	NT	NT	NT	NT	NT	2	1	7	0	0	10
MW8-1A	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-1B	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-1C	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-1D	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-2A	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-2B	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-2C	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-2D	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-3A	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-3B	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW8-3C	NT	NT	NT	ID	NT	NT	NT	ID	ID	ID	0	0	6	4	0	10
MW8-3D	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
MW-D1	NT	NT	NT	DEC	NT	NT	NT	NS	DEC	NS	2	0	6	0	2	10
MW-D2	DEC	DEC	DEC	DEC	DEC	DEC	NT	NS	DEC	NS	7	0	1	0	2	10
OP-MW-1	NT	NT	NT	NT	NT	NT	NT	ID	NT	ID	0	0	8	2	0	10
OP-MW-2	NT	NT	DEC	NT	NT	NT	ID	NS	ID	NS	1	0	5	2	2	10
OP-MW-4	NT	NT	DEC	NT	DEC	NT	NT	ID	NT	ID	2	0	6	2	0	10
OP-MW-6	NT	NT	DEC	DEC	DEC	NT	NT	ID	NT	ID	3	0	5	2	0	10
P-1A	NT	NT	NT	NT	NT	NT	ID	ID	ID	ID	0	0	6	4	0	10
P-1B	INC	NT	NT	NT	NT	INC	NT	NT	ID	NT	0	2	7	1	0	10
P-1C	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
P-1D	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
S02A	NT	NT	NT	NT	NT	NT	ID	ID	NT	ID	0	0	7	3	0	10
S02B	NT	NT	NT	NT	NT	NT	ID	ID	NT	ID	0	0	7	3	0	10
S03	NT	NT	NT	NT	NT	NT	ID	ID	NT	ID	0	0	7	3	0	10
S05	NT	NT	NT	NT	NT	NT	ID	NT	NT	NT	0	0	9	1	0	10
S06	NT	NT	NT	NT	NT	NT	NT	NT	NT	NT	0	0	10	0	0	10
S07	NT	NT	NT	NT	NT	NT	NT	NT	ID	NT	0	0	9	1	0	10
S09	NT	NT	NT	NT	NT	NT	ID	NT	ID	NT	0	0	8	2	0	10
S10	NT	NT	NT	NT	NT	NT	ID	NT	ID	NT	0	0	8	2	0	10

Table 5
Summary Matrix of Trend Analysis
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	PCE	TCE	1,1-DCE	1,4-Dioxane	1,1-DCA	CIS 1,2-DCE	Cr VI	Nitrate	Perchlorate	TDS	DEC	INC	NT	ID	NS	Total
S11	NT	NT	NT	NT	NT	NT	ID	NT	ID	NT	0	0	8	2	0	10
SW-04	NT	NT	DEC	DEC	DEC	NT	NT	NS	NT	NS	3	0	5	0	2	10
SW-05	NT	NT	NT	DEC	NT	NT	NT	NS	NT	NS	1	0	7	0	2	10
VCW-01	NT	NT	NT	DEC	DEC	NT	NT	NS	ID	NS	2	0	5	1	2	10
VCW-02	NT	NT	NT	DEC	NT	NT	NT	NS	ID	NS	1	0	6	1	2	10
VCW-03	DEC	DEC	DEC	NT	DEC	DEC	NT	NS	ID	NS	5	0	2	1	2	10
VCW-06	NT	NT	NT	DEC	DEC	NT	NT	NS	ID	NS	2	0	5	1	2	10
VCW-07	NT	NT	NT	DEC	NT	NT	NT	NS	ID	NS	1	0	6	1	2	10
VCW-09	DEC	DEC	DEC	DEC	DEC	DEC	NT	NS	ID	NS	6	0	1	1	2	10
											213	36	520	94	47	910

Notes:
DEC = statistically significant evidence that there is a decreasing trend
INC = statistically significant evidence that there is a increasing trend
NT = There is insufficient evidence to identify a significant trend
ID = Insuficient number of reported values to provide Mann-Kendall Statistics
The numbers listed in the columns with the DEC, INC, and NT headers represent the total number
of the 10 analytes that have demonstrated statistically significant increases (INC), decreases (DEC), or no trend (NT) in the concentrations.

Table 6
Summary of Detections
Spring 2014 (First Half 2014)
Comprehensive Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Analyte	Units	Total Number of Wells Sampled	Number of Locations with Detects	Percent of Wells with Detections	Range of Reporting Limits of NonDetects	Range of Detected Concentrations	Location of Maximum Detect	Screening Level	Number of Locations >Screening Level	Percent of Wells Exceeding the Listed Screening Level	PVOU SZ Performance Level (10 x MCL/NL)	Number of Locations >PVOU SZ Performance Level (10 x MCL/NL)	Percent of Wells Exceeding the PVOU SZ Performance Level	Screening Level Source
1,1,2-Trichloro-1,2,2-trifuoroethane (Freon-113)	µg/L	75	17	22.7	5 to 100	0.23 J to 1.9 J	S-06	1,200	0	0	12,000	0	0	CA/USEPA Primary MCL
1,1,2-Trichloroethane	µg/L	75	5	6.7	0.50 to 5.0	0.41 J to 1.4 J	MW6-13	3	0	0	30	0	0	Federal MCLG
1,1-Dichloroethane	µg/L	75	37	49.3	0.50	0.25 J to 28.9	S-09	5	9	12.0	50	0	0	CA Primary MCL
1,1-Dichloroethene	µg/L	75	59	78.7	0.50	0.24 J to 431	MW6-13	6	21	28.0	60	8	10.7	CA Primary MCL
1,2-Dichloroethane	µg/L	75	9	12.0	0.50 to 5.0	0.22 J to 1.3 J	S-09	0.5	3	4.0	5	0	0	CA Primary MCL
1,4-Dioxane (p-dioxane)	µg/L	75	52	69.3	0.48 to 0.57	0.11 J to 34.7	MW-19 (SW-02)	3	9	12.0	30	3	4.0	CA Department of Health Services State notification
Acetone	µg/L	72	1	1.4	20 to 200	6.6J	VCW-03	700	0	0	7,000	0	0	Note [1]
Boron	µg/L	25	25	100	NA	34 to 330	S-02A	-	0	0	-	0	0	-
Carbon Dioxide	µg/L	3	3	100	NA	37.9 to 5,930	S-02A	-	0	0	-	0	0	-
Carbon disulfide	µg/L	72	2	2.8	1.0 to 10	0.36 J to 0.88 J	VCW-07	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	75	6	8.0	0.50 to 5.0	0.26 J to 1.5	MW6-62	0.5	3	4.0	5	0	0	CA Primary MCL
Chloride	µg/L	25	25	100	NA	19.8 to 208	S-02A	-	0	0	-	0	0	-
Chloroform	µg/L	75	39	52.0	1.0 to 10	0.16 J to 2.9	MW8-2C	100	0	0	1,000	0	0	Federal MCL
Chromium VI	µg/L	75	75	100	0.02	0.012 J to 28	MW-08	10	7	9.3	100	0	0	Public Health Goal
cis-1,2-Dichloroethene	µg/L	75	47	62.7	0.50	0.24 J to 16.7	SW-04	6	11	14.7	60	0	0	CA Primary MCL
DCPA	µg/L	3	1	33.3	0.10	0.089 J	S-03	-	0	0	-	0	0	-
Dichlorodifluoromethane (Freon-12)	µg/L	75	2	2.7	0.50 to 5.0	0.19 to 0.63	MW6-19 (LCW-05)	-	-	-	-	-	-	-
Fluoride	mg/L	25	13	52.0	0.25	0.14 to 0.36	MW8-2D, P-1D	2	0	0	20	0	0	CA Primary MCL
Hexachlorobenzene	µg/L	3	2	66.7	0.010	0.0043 J to 0.024	S-03	1	0	0	10	0	0	CA Primary MCL
Hexachlorocyclopentadiene	µg/L	3	1	33.3	0.050	0.014 J	S-03	50	0	0	500	0	0	CA Primary MCL
Iron	µg/L	3	1	33.3	200	308	S-02A	-	0	0	-	0	0	-
Methyl tert-butyl ether	µg/L	75	5	6.7	1.0 to 10	0.38 J to 30.3	VCW-06	5	2	2.7	50	0	0	Note [1]
Nitrogen, Nitrate	mg/L	25	24	96.0	0.25	3.8 to 17.3	MW8-2C	45	0	0	450	0	0	CA Primary MCL
Nitrogen, Nitrite	mg/L	25	2	8.0	0.10 to 0.25	0.12 to 0.38	MW8-1C	1	0	0	10	0	0	CA Primary MCL
Perchlorate	µg/L	14	11	78.6	0.10	0.12 to 11	MW6-62	6	2	14.3	60	0	0	Table F of the General Permit has 4 µg/l for perchlorate
Phosphate, Ortho	mg/L	3	3	100	NA	0.059 to 0.076	S-02B	-	0	0	-	0	0	-
Selenium	mg/L	3	3	100	NA	0.0105 to 0.0161	S-03	0.05	0	0	0.5	0	0	CA Primary MCL
Solids, Total Dissolved	mg/L	25	25	100	NA	304 to 1,210	S-02A	-	0	0	-	0	0	-
Sulfate	mg/L	25	25	100	NA	38.2 to 259	S-03	-	0	0	-	0	0	-
Tetrachloroethene	µg/L	75	55	73.3	0.50	0.31 J to 118	SW-04	5	39	52.0	50	2	2.7	Federal MCL
trans-1,2-Dichloroethene	µg/L	75	5	6.7	0.50 to 5.0	0.20 J to 0.37J	SW-04	10	0	0	100	0	0	CA Primary MCL
Trichloroethene	µg/L	75	61	81.3	0.50	0.26 J to 397	S-07	5	32	42.7	50	10	13.3	Federal MCL
Trichlorofluoromethane (Freon-11)	µg/L	75	16	21.3	0.50 to 50	0.29 J to 2.6 J	VCW-02	150	0	0	1,500	0	0	CA Primary MCL
Vinyl chloride	µg/L	75	1	1.3	0.50 to 5.0	0.27 J	VCW-03	0.5	0	0	5	0	0	CA Primary MCL
Zinc	µg/L	3	3	100	NA	0.0973 to 0.164	S-03	-	0	0	-	0	0	-

Notes:

J = Estimated value

µg/L = micrograms per Liter

mg/L = milligrams per Liter

MCL = Maximum Contaminant Level

NA = Not Applicable

- = indicates "no MCL has been established or proposed"

Note [1] = Table F, Effluent Limitations from State of California Regional Water Quality Control Board, Los Angeles Region, Waste Discharge Requirements for Discharge of Treated Groundwater from Investigation and/or Cleanup of Volatile Organic Compound Contaminated Sites to Sutface Water in Coastal Watersheds of Los Angeles and Ventura Counties, (General Permit No. CAG9I4001). All values, except perchlorate and NDMA, are taken from Table F of the General Permit, Table F of the General Permit has 4 ug/L for perchlorate and 0.00069 for NDMA.

Table 7
Summary of Detections
Fall 2014 (Second Half 2014)
Comprehensive Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Analyte	Units	Total Number of Wells Sampled	Number of Locations with Detects	Percent of Wells with Detections	Range of Reporting Limits of NonDetects	Range of Detected Concentrations	Location of Maximum Detect	Screening Level	Number of Locations >Screening Level	Percent of Wells Exceeding the Listed Screening Level	PVOU SZ Performance Level (10 x MCL/NL)	Number of Locations >PVOU SZ Performance Level (10 x MCL/NL)	Percent of Wells Exceeding the PVOU SZ Performance Level	Screening Level Source
1,1,2-Trichloro-1,2,2-trifuoroethane (Freon-113)	µg/L	63	20	31.7	0.50	0.29 J to 2.8	MW-07 (SW-01)	1,200	0	0	12,000	0	0	CA/USEPA Primary MCL
1,1,2-Trichloroethane	µg/L	63	2	3.2	0.50	0.43 J to 1.3	MW6-13	3	0	0	30	0	0	Federal MCLG
1,1-Dichloroethane	µg/L	63	36	57.1	0.50	0.21 J to 23	MW6-13	5	4	6.3	50	0	0	CA Primary MCL
1,1-Dichloroethene	µg/L	63	49	77.8	0.50	0.29 J to 370	MW6-13	6	13	20.6	60	3	4.8	CA Primary MCL
1,2-Dichloroethane	µg/L	63	8	12.7	0.50	0.19 J to 0.7	MW6-13	0.5	1	1.6	5	0	0	CA Primary MCL
1,4-Dioxane (p-dioxane)	µg/L	63	46	73.0	0.10	0.074 J to 56	MW6-13	1	25	39.7	10	5	7.9	CA Department of Health Services State notification
Acetone	µg/L	63	2	3.2	10	4.4 J to 5.7 J	MW-11	700	0	0	7,000	0	0	Note [1]
Bicarbonate (as $CaCO_3$)	mg/L	21	21	100	NA	180 to 443	MW8-2A	-	-	-	-	-	-	-
Boron	µg/L	21	21	100	NA	0.0199 to 0.248	S-11	-	-	-	-	-	-	-
Bromoform	µg/L	63	1	1.6	0.50	0.50	MW6-36	100	0	0	1,000	0	0	Federal MCL
Calcium	mg/L	21	21	100	NA	62.9 to 457	S-09	-	-	-	-	-	-	-
Carbon disulfide	µg/L	63	2	3.2	1.0	0.53 J to 0.92 J	VCW-07	-	-	-	-	-	-	-
Carbon tetrachloride	µg/L	63	7	11.1	0.50	0.3 J to 1.5	MW6-62	0.5	2	3.2	5	0	0	CA Primary MCL
Chloride	µg/L	21	21	100	NA	17 to 97	S-07	-	-	-	-	-	-	-
Chloroform	µg/L	63	33	52.4	0.50	0.22 J to 2.8	MW8-2C	100	0	0	1,000	0	0	Federal MCL
Chromium VI	µg/L	63	46	73.0	0.02	0.35 to 19	MW-08	10	3	4.8	100	0	0	Public Health Goal
cis-1,2-Dichloroethene	µg/L	63	37	58.7	0.50	0.29 J to 17	MW-07 (SW-01), SW-04	6	7	11.1	60	0	0	CA Primary MCL
Dichlorodifluoromethane (Freon-12)	µg/L	63	2	3.2	0.50	0.3 J to 0.76	P-1B	-	-	-	-	-	-	-
Fluoride	mg/L	21	21	100	NA	0.18 to 0.58	MW8-3D	2	0	0	20	0	0	CA Primary MCL
Magnesium	mg/L	21	21	100	NA	15.8 to 1,260	S-09	-	-	-	-	-	-	-
Methyl tert-butyl ether	µg/L	63	4	6.3	0.50	0.35 J to 47	VCW-06	5	2	3.2	50	0	0	Note [1]
Methylene Chloride	µg/L	63	1	1.6	1.0	0.45 J	VCW-07	5	0	0	50	0	0	Federal MCL
Nitrogen, Nitrate	mg/L	21	21	100	NA	4.2 to 17	MW8-2C	45	0	0	450	0	0	CA Primary MCL
Nitrogen, Nitrite	mg/L	21	4	19.0	0.10	0.048 J to 2.1	MW8-2B	1	1	4.8	10	0	0	CA Primary MCL
Perchlorate	µg/L	63	58	92.1	0.10	0.092 J to 14	MW6-62	6	10	15.9	60	0	0	Table F of the General Permit has 4 µg/l for perchlorate
Potassium	mg/L	21	21	100	NA	2.16 to 537	S-09	-	-	-	-	-	-	-
Selenium	mg/L	63	35	55.6	0.015	0.00719 J to 0.0308	SW-04	0.05	0	0	0.5	0	0	CA Primary MCL
Sodium	mg/L	21	21	100	NA	20.7 to 10,400	S-09	-	-	-	-	-	-	-
Solids, Total Dissolved	mg/L	21	21	100	NA	320 to 1,110	S-11	-	-	-	-	-	-	-
Sulfate	mg/L	21	21	100	NA	32 to 230	S-11	-	-	-	-	-	-	-
Tert-Butyl Alcohol	µg/L	63	3	4.8	10	5.3 J to 5.6 J	MW6-09	-	-	-	-	-	-	-
Tetrachloroethene	µg/L	63	50	79.4	0.50	0.28 J to 110	SW-04	5	33	52.4	50	2	3.2	Federal MCL
trans-1,2-Dichloroethene	µg/L	63	6	9.5	0.50	0.20 J to 2.2	MW-07 (SW-01)	10	0	0	100	0	0	CA Primary MCL
Trichloroethene	µg/L	63	52	82.5	0.50	0.28 J to 210	MW6-17	5	30	47.6	50	5	7.9	Federal MCL
Trichlorofluoromethane (Freon-11)	µg/L	63	16	25.4	0.50	0.28 J to 1.9	VCW-02	150	0	0	1,500	0	0	CA Primary MCL

Notes:

J = Estimated value

µg/L = micrograms per Liter

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MCL = Maximum Contaminant Level

NA = Not Applicable

- = indicates "no MCL has been established or proposed"

Note [1] = Table F, Effluent Limitations from State of California Regional Water Quality Control Board, Los Angeles Region, Waste Discharge Requirements for Discharge of Treated Groundwater from Investigation and/or Cleanup of Volatile Organic Compound Contaminated Sites to Sutface Water in Coastal Watersheds of Los Angeles and Ventura Counties, (General Permit No. CAG9I4001). All values, except perchlorate and NDMA, are taken from Table F of the General Permit, Table F of the General Permit has 4 ug/L for perchlorate and 0.00069 for NDMA.

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MP-20-4	194-204	08/13/99	WB	NA	U(1)	U(1)	U(1)	U(1)	1.5	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		09/13/99	WB	NA	U(1)	U(1)	U(1)	0.17	2.1	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	1.5	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		12/27/99	WB	NA	U(1)	U(1)	U(1)	0.21	3.3	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		06/29/00	WB	NA	U(1)	U(1)	U(1)	U(1)	3.3	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		11/06/03	WB	NA	U(1)	U(0.24)	U(0.3)	U(0.27)	4.7	U(0.28)	U(0.45)	U(0.85)	U(0.48)	U(0.23)	U(0.92)	NA	NA	U(0.28)	NA	U(0.26)	NA	NA	NA	U(0.37)	U(0.33)	NA	NA	NA	5.5	NA	NA	U(0.5)	NA	NA	U(0.32)	NA	U(0.34)	NA	U(0.5)
		06/29/05	WB	NA	U(0.2)	U(0.4)	U(0.3)	U(0.2)	2.5	U(0.3)	U(0.4)	U(0.4)	U(0.3)	U(0.3)	U(0.7)	NA	NA	U(0.4)	NA	U(0.2)	NA	NA	NA	U(0.3)	U(0.2)	NA	NA	NA	U(3)	NA	NA	U(0.5)	NA	NA	U(0.3)	NA	U(1)	U(0.3)	U(0.3)
		06/29/05	WB	NA	U(0.2)	U(0.4)	U(0.3)	U(0.2)	2.5	U(0.3)	U(0.4)	U(0.4)	U(0.3)	U(0.3)	U(0.7)	NA	NA	U(0.4)	NA	U(0.2)	NA	NA	NA	U(0.3)	U(0.2)	NA	NA	NA	U(3)	NA	NA	U(0.28)	NA	NA	U(0.3)	NA	U(1)	U(0.3)	U(0.3)
		12/08/05	WB	NA	U(0.2)	U(0.4)	U(0.3)	0.28	5.9	U(0.3)	U(0.4)	U(0.4)	U(0.3)	U(0.3)	U(1)	NA	NA	U(0.4)	NA	U(0.2)	NA	NA	NA	U(0.3)	U(0.2)	NA	NA	NA	U(2)	NA	NA	U(0.3)	NA	NA	U(0.4)	NA	U(1)	U(0.4)	U(0.3)
		12/08/05	WB	NA	U(0.2)	U(0.4)	U(0.3)	0.28	5.9	U(0.3)	U(0.4)	U(0.4)	U(0.3)	U(0.3)	U(1)	NA	NA	U(0.4)	NA	U(0.2)	NA	NA	NA	U(0.3)	U(0.2)	NA	NA	NA	U(2)	NA	NA	U(0.3)	NA	NA	U(0.4)	NA	U(1)	U(0.4)	U(0.3)
		07/03/06	WB	NA	U(0.2)	U(0.4)	U(0.3)	0.23	5.4	U(0.3)	U(0.4)	U(0.4)	U(0.3)	U(0.3)	U(1)	NA	NA	U(0.4)	NA	U(0.2)	NA	NA	NA	U(0.3)	0.46	NA	NA	NA	U(2)	NA	NA	U(0.3)	NA	NA	U(0.4)	NA	U(1)	U(0.4)	U(0.3)
		07/03/06	WB	NA	U(0.2)	U(0.4)	U(0.3)	0.23	5.4	U(0.3)	U(0.4)	U(0.4)	U(0.3)	U(0.3)	U(1)	NA	NA	U(0.4)	NA	U(0.2)	NA	NA	NA	U(0.3)	0.46	NA	NA	NA	U(2)	NA	NA	U(0.3)	NA	NA	U(0.4)	NA	U(1)	U(0.4)	U(0.3)
		02/02/07	WB	NA	U(0.2)	U(0.4)	U(0.3)	1.6	4.9	U(0.3)	U(0.4)	U(0.4)	U(0.3)	U(0.3)	U(1)	NA	NA	U(0.4)	NA	U(0.2)	NA	NA	NA	U(0.3)	0.58	NA	NA	NA	U(2)	NA	NA	U(0.3)	NA	NA	U(0.4)	NA	U(1)	U(0.4)	U(0.3)
		06/13/07	WB	NA	U(0.5)	U(0.4)	U(0.3)	0.63	2.6	U(0.5)	U(0.4)	U(0.4)	U(0.3)	U(0.3)	U(1)	NA	NA	U(0.4)	NA	U(0.3)	NA	NA	NA	U(0.3)	0.48	NA	NA	NA	U(2)	NA	NA	U(0.3)	NA	NA	U(0.5)	NA	U(1)	U(0.4)	U(0.5)
		12/26/12	WB	NA	U(0.5)	U(0.5)	U(0.5)	0.47 J	7.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.55	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/11/13	WB	NA	U(0.5)	U(0.5)	U(0.5)	0.24 J	2.5	NA	U(2)	U(0.005)	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.62	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/28/14	WB	NA	U(0.5)	U(0.5)	U(0.5)	0.61	7.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.44 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/16/14	WB	NA	U(0.5)	U(0.5)	U(0.5)	0.49 J	8.7	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.6	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MP-20-5	75.5-85.5	08/13/99	WB	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		12/27/99	WB	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		09/14/99	WB	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		06/29/00	WB	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		03/14/02	WB	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		09/17/02	WB	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	NA	NA	NA	NA	U(4)	NA	NA	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		07/09/03	WB	NA	U(1)	U(1)	U(1)	U(1)	3.4	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	NA	NA	U(0.5)	NA	U(1)	NA	NA	NA	U(1)	1.2	NA	NA	NA	U(4)	NA	NA	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(0.5)
		12/26/12	WB	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
MP-21-6	150-160	04/22/03	WB	NA	U(0.3)	U(0.29)	U(0.3)	U(0.27)	U(0.32)	U(0.28)	U(0.45)	U(0.34)	U(0.51)	U(0.31)	U(2.8)	NA	NA	U(0.28)	NA	U(0.26)	NA	NA	NA	U(0.37)	NA	NA	NA	NA	NA	NA	NA	U(0.28)	NA	NA	U(0.3)	NA	U(0.2)	NA	U(0.28)
		04/22/03	WB	NA	U(0.3)	U(0.29)	U(0.3)	U(0.27)	U(0.32)	U(0.28)	U(0.45)	U(0.34)	U(0.51)	U(0.31)	U(2.8)	NA	NA	U(0.28)	NA	U(0.26)	NA	NA	NA	U(0.37)	NA	NA	NA	NA	11	NA	NA	U(0.28)	NA	NA	U(0.3)	NA	U(0.2)	NA	U(0.28)
		04/23/03	WB	NA	U(0.3)	U(0.29)	U(0.3)	U(0.27)	U(0.32)	U(0.28)	U(0.45)	U(0.34)	U(0.51)	U(0.31)	U(2.8)	NA	NA	U(0.28)	NA	U(0.26)	NA	NA	NA	U(0.37)	NA	NA	NA	NA	8.2	NA	NA	U(0.28)	NA	NA	U(0.3)	NA	U(0.2)	NA	U(0.28)
		08/21/03	WB	NA	U(1)	U(0.29)	U(0.3)	U(1)	U(1)	U(0.28)	U(0.45)	U(0.34)	U(0.51)	U(0.31)	U(2.8)	NA	NA	U(0.28)	NA	U(0.26)	NA	NA	NA	U(0.37)	U(1)	NA	NA	NA	20	NA	NA	U(0.5)	NA	NA	U(0.3)	NA	U(0.2)	NA	U(0.5)
		11/05/03	WB	NA	U(1)	U(0.24)	U(0.3)	U(1)	U(1)	U(0.28)	U(0.45)	U(0.0019	U(0.48)	U(0.23)	U(0.92)	NA	NA	U(0.28)	NA	U(0.26)	NA	NA	NA	U(0.37)	U(1)	NA	NA	NA	15	NA	NA	U(0.5)	NA	NA	U(0.3)	NA	U(0.34)	NA	U(0.5)
		08/17/07	WB	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(20)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/26/12	WB	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.35 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/11/13	WB	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.3 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/28/14	WB	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.28 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/16/14	WB	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.29 J	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.12	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-01A	45-65	11/19/97		U(5)	U(2)	U(2)	U(2)	U(2)	U(5)	U(2)	U(5)	U(10)	U(5)	U(2)	U(5)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	NA	U(2)	NA	U(2)	U(5)	U(5)	NA	NA	NA	U(2)	U(5)	U(5)	U(2)	U(5)	U(5)	NA	U(5)
		02/11/98		U(1)	U(1)	U(1)	U(1)	U(1)	0.19 J	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		07/20/98		U(1)	U(1)	U(1)	U(1)	U(1)	0.25 J	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		10/27/98		U(1)	U(1)	U(1)	U(1)	0.22 J	U(1)	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/99		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/21/99		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/07/06		U(5)	U(5)	U(5)	U(5)	U(5)	0.6 J	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	NA	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
		07/07/06		NA	NA	NA	NA	NA	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/05/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/30/07		NA	U(0.5)	U(0.5)	U(0.5)	0.23 J	U(0.5)	NA	0.22 J	NA	0.15 J	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
MW-01B	85-95	11/19/97		U(5)	U(2)	U(2)	U(2)	U(2)	U(5)	U(2)	U(5)	U(10)	U(5)	U(2)	U(5)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	NA	U(2)	NA	U(2)	U(5)	U(5)	NA	NA	NA	U(2)	U(5)	U(5)	U(2)	U(5)	U(5)	NA	U(5)
		02/12/98		U(1)	U(1)	U(1)	U(1)	0.47 J	1.8	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	0.58 J	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		07/20/98		U(1)	U(1)	U(1)	U(1)	0.43 J	0.34 J	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	0.65 J	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		10/27/98		U(1)	0.31 J	U(1)	U(1)	0.78 J	5.2	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	0.76
		08/19/99		U(1)	0.23 J	U(1)	U(1)	1.1	5.5	U(1)	U(1)	U(1)	U(1)	0.15 J	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.34 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.31 J
		12/21/99		U(1)	U(1)	U(1)	U(1)	0.29 J	0.9 J	U(1)	U(1)	U(1)	U(1)	0.48 J	U(5)	U(1)	U(1)	U(0.5)	U(1)	0.17 J	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	1.5	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/00		U(1)	U(1)	U(1)	U(1)	0.75 J	3.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.58	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/27/00		U(1)	U(1)	U(1)	U(1)	0.5 J	2	U(1)	U(1)	U(1)	U(1)	0.16 J	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	1.2	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/26/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(0.97)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/12/02		U(1)	U(1)	U(1)	U(1)	0.8	4	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MP-20-4	194-204	08/13/99	U(1)	U(1)	0.62	U(1)	1.9	NA	NA	NA	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	NA	U(1)	0.12	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	10	U(1)	U(1)	NA	11	1.8	U(0.5)	NA
		09/13/99	U(1)	U(1)	0.65	U(1)	3.1	NA	NA	NA	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	20	U(1)	U(1)	NA	17	1	U(0.5)	NA
		12/27/99	U(1)	U(1)	0.55	U(1)	3.7	NA	NA	NA	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	25	U(1)	U(1)	NA	19	0.96	U(0.5)	NA
		06/29/00	U(1)	U(1)	0.61	U(1)	3.5	NA	NA	NA	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	22	U(1)	U(1)	NA	16	1.6	U(0.5)	NA
		11/06/03	U(0.36)	U(0.33)	0.59	U(0.3)	4.4	NA	NA	NA	U(0.79)	NA	NA	U(0.25)	NA	U(0.25)	NA	U(0.32)	U(5)	U(1)	NA	U(0.27)	U(0.24)	NA	3.2	U(0.28)	U(0.25)	NA	NA	NA	U(0.22)	30	U(1)	U(0.27)	NA	16	1.7	U(0.5)	NA
		06/29/05	U(0.3)	U(0.3)	0.48	U(0.3)	3.3	NA	NA	NA	U(0.4)	NA	NA	U(0.2)	NA	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	NA	U(0.4)	U(0.2)	NA	4.2	U(0.3)	U(0.3)	NA	NA	U(6)	U(0.2)	19	U(0.3)	U(0.3)	NA	9.7	0.58	U(0.3)	NA
		06/29/05	U(0.3)	U(0.3)	0.58	U(0.3)	3.3	NA	NA	NA	U(0.4)	NA	NA	U(0.2)	NA	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	NA	U(0.4)	U(0.2)	NA	4.2	U(0.3)	U(0.3)	NA	NA	U(6)	U(0.2)	19	U(0.3)	U(0.3)	NA	9.7	0.58	U(0.3)	NA
		12/08/05	U(0.3)	U(0.4)	0.5	U(0.3)	4.4	NA	NA	NA	U(0.4)	NA	NA	U(0.3)	NA	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	NA	U(0.4)	U(0.2)	NA	3.3	U(0.3)	U(0.3)	NA	NA	U(6)	U(0.2)	35	U(0.3)	U(0.3)	NA	15	1.6	U(0.3)	NA
		12/08/05	U(0.3)	U(0.4)	0.43	U(0.3)	4.4	NA	NA	NA	U(0.4)	NA	NA	U(0.3)	NA	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	NA	U(0.4)	U(0.2)	NA	3.3	U(0.3)	U(0.3)	NA	NA	U(6)	U(0.2)	35	U(0.3)	U(0.3)	NA	15	1.6	U(0.3)	NA
		07/03/06	U(0.3)	U(0.4)	0.58	U(0.3)	4.2	NA	NA	NA	U(0.4)	NA	NA	U(0.3)	NA	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	NA	U(0.4)	U(0.2)	NA	2.3	U(0.3)	U(0.3)	NA	NA	U(6)	U(0.2)	32	U(0.3)	U(0.3)	NA	15	1.6	U(0.3)	NA
		07/03/06	U(0.3)	U(0.4)	0.66	U(0.3)	4.2	NA	NA	NA	U(0.4)	NA	NA	U(0.3)	NA	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	NA	U(0.4)	U(0.2)	NA	2.3	U(0.3)	U(0.3)	NA	NA	U(6)	U(0.2)	32	U(0.3)	U(0.3)	NA	15	1.6	U(0.3)	NA
		02/02/07	U(0.3)	U(0.4)	0.32	U(0.3)	3.9	NA	NA	NA	U(0.4)	NA	NA	U(0.3)	NA	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	NA	U(0.4)	U(0.2)	NA	U(1)	U(0.3)	U(0.3)	NA	NA	U(6)	U(0.2)	24	U(0.3)	U(0.3)	NA	11	1	0.49	NA
		06/13/07	U(0.3)	U(0.5)	0.35	U(0.4)	3.7	NA	NA	NA	U(0.7)	NA	NA	U(0.3)	NA	U(0.4)	NA	U(0.5)	U(0.3)	U(0.5)	NA	U(0.4)	U(0.2)	NA	NA	U(0.3)	U(0.4)	NA	NA	U(7)	U(0.3)	13	U(0.3)	U(0.4)	NA	9.2	0.63	U(0.6)	NA
		12/26/12	U(0.5)	U(0.5)	0.48 J	U(0.5)	4.6	U(0.5)	U(1)	U(1)	0.21 J	U(2)	NA	U(1)	0.27 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.6	NA	U(2)	U(1)	NA	U(10)	U(2)	48.2	U(1)	U(0.5)	U(0.5)	20.6	1.7 J	U(0.5)	U(2)
		09/11/13	U(0.5)	U(0.5)	0.25 J	U(0.5)	2.4	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	16.8	U(1)	U(0.5)	U(0.5)	8.6	0.52 J	U(0.5)	U(2)
		04/28/14	U(0.5)	U(0.5)	0.49 J	U(0.5)	5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	33.9	U(1)	U(0.5)	U(0.5)	18.6	1.1 J	U(0.5)	U(2)
		09/16/14	U(0.5)	U(0.5)	0.46 J	U(0.5)	4.4	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.36 J	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.5	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	39	U(0.5)	U(0.5)	U(0.5)	20	1.7	U(0.5)	NA
MP-20-5	75.5-85.5	08/13/99	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	NA	U(1)	0.12	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(0.5)	NA
		12/27/99	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(0.5)	NA
		09/14/99	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(0.5)	NA
		06/29/00	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(0.5)	NA
		03/14/02	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(0.5)	NA
		09/17/02	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(0.5)	NA
		07/09/03	U(1)	U(1)	U(1)	U(1)	3.4	NA	NA	NA	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	4	U(1)	U(1)	NA	NA	NA	U(1)	24	U(1)	U(1)	NA	17	1.4	U(0.5)	NA
		12/26/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	27	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
MP-21-6	150-160	04/22/03	U(0.36)	U(0.33)	U(0.33)	U(0.14)	U(0.32)	NA	NA	NA	U(1.1)	NA	NA	U(0.25)	NA	U(0.25)	NA	U(0.33)	U(0.33)	U(0.33)	NA	U(0.27)	U(0.24)	NA	NA	U(0.28)	U(0.25)	NA	NA	NA	U(0.22)	U(0.32)	U(0.49)	U(0.27)	NA	U(0.26)	U(0.34)	U(0.19)	NA
		04/22/03	U(0.36)	U(0.33)	U(0.33)	U(0.14)	U(0.32)	NA	NA	NA	U(1.1)	NA	NA	U(0.25)	NA	U(0.25)	NA	U(0.33)	U(0.33)	U(0.33)	NA	U(0.27)	U(0.24)	NA	NA	U(0.28)	U(0.25)	NA	NA	NA	U(0.22)	0.45	U(0.49)	U(0.27)	NA	0.28	U(0.34)	U(0.19)	NA
		04/23/03	U(0.36)	U(0.33)	U(0.33)	U(0.14)	U(0.32)	NA	NA	NA	U(1.1)	NA	NA	U(0.25)	NA	U(0.25)	NA	U(0.33)	U(0.33)	U(0.33)	NA	U(0.27)	U(0.24)	NA	NA	U(0.28)	U(0.25)	NA	NA	NA	U(0.22)	U(0.32)	U(0.49)	U(0.27)	NA	U(0.26)	U(0.34)	U(0.19)	NA
		08/21/03	U(0.36)	U(0.33)	U(1)	0.35	U(1)	NA	NA	NA	U(1.1)	NA	NA	U(1)	NA	U(0.25)	NA	U(0.33)	U(5)	U(1)	NA	U(0.27)	U(0.24)	NA	U(4)	U(0.28)	U(0.25)	NA	NA	NA	U(0.22)	U(1)	U(1)	U(0.27)	NA	U(1)	U(1)	U(0.5)	NA
		11/05/03	U(0.36)	U(0.33)	U(1)	U(1)	U(1)	NA	NA	NA	U(0.79)	NA	NA	U(1)	NA	U(0.25)	NA	U(0.32)	U(5)	U(1)	NA	U(0.27)	U(0.24)	NA	U(2)	U(0.28)	U(0.25)	NA	NA	NA	U(0.22)	U(1)	U(1)	U(0.27)	NA	U(1)	U(1)	U(0.5)	NA
		08/17/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.2	NA	NA	NA	0.64	NA	NA	NA
		12/26/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.38 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	6	U(10)	U(5)	U(2)	NA	NA	NA	0.43	NA	U(2)	U(1)	NA	U(10)	U(2)	2.7	U(1)	U(0.5)	U(0.5)	1.3	U(5)	U(0.5)	U(2)
		09/11/13	U(0.5)	U(0.5)	U(1)	U(0.5)	0.43 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	5.6	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	2.8	U(1)	U(0.5)	U(0.5)	1.3	U(5)	U(0.5)	U(2)
		04/28/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.49 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	10.6	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	2.5	U(1)	U(0.5)	U(0.5)	1.3	U(5)	U(0.5)	U(2)
		09/16/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.52	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(5)	8.8	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.092 J	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	2.7	U(0.5)	U(0.5)	U(0.5)	1.4	U(0.5)	U(0.5)	NA
MW-01A	45-65	11/19/97	U(2)	U(5)	U(2)	U(5)	U(2)	U(2)	NA	U(2)	U(5)	NA	NA	U(2)	NA	U(2)	NA	NA	U(20)	U(5)	U(5)	U(2)	U(2)	U(2)	NA	U(2)	U(5)	U(2)	NA	NA	U(5)	2	U(2)	U(2)	U(2)	U(2)	U(5)	U(5)	NA
		02/11/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	0.96 J	0.34 J	U(1)	U(1)	1	U(1)	U(1)	U(1)
		07/20/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	2.8	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	1.7	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	0.85 J
		10/27/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	3	NA	NA	NA	NA	0.3 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	0.56 J	U(1)	U(1)	U(1)
		08/19/99	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		12/21/99	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.55 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		07/07/06	U(5)	U(5)	U(5)	U(5)	0.7 J	U(5)	U(5)	U(5)	U(5)	NA	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	9.2	U(5)	U(5)	U(5)	3 J	U(5)	U(5)	U(5)
		07/07/06	NA	NA	NA	NA	0.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.2	NA	NA	NA	3	NA	NA	NA
		09/05/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	NA	NA	NA	1.6	U(0.5)	U(0.5)	U(0.5)	1.7	U(0.5)	U(0.5)	NA
		07/30/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.97	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	2.7	NA	NA	NA	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	NA	NA	NA	9.4	U(0.5)	U(0.5)	U(0.5)	3.2	U(0.5)	U(0.5)	NA
MW-01B	85-95	11/19/97	U(2)	U(5)	U(2)	U(5)	U(2)	U(2)	NA	U(2)	U(5)	NA	NA	U(2)	NA	U(2)	NA	NA	U(20)	U(5)	U(5)	U(2)	U(2)	U(2)	NA	U(2)	U(5)	U(2)	NA	NA	U(5)	37	U(2)	U(2)	U(2)	8.9	U(5)	U(5)	NA
		02/12/98	U(1)	U(1)	0.22 J	U(1)	0.32 J	U(1)	U(1)	NA	NA	NA	NA	1.9	NA	NA	NA	NA	0.11 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	9.8	0.39 J	U(1)	U(1)	2.2	U(1)	U(1)	11
		07/20/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	0.61 J	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	1.4	U(1)	U(1)	U(1)	0.39 J	U(1)	U(1)	0.94 J
		10/27/98	U(1)	U(1)	0.92 J	U(1)	0.88 J	U(1)	U(1)	NA	NA	NA	NA	0.65 J	NA	NA	NA	NA	0.52 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	30	U(1)	U(1)	U(1)	7.9	U(1)	U(1)	U(1)
		08/19/99	U(1)	U(1)	0.51 J	U(1)	1.7	U(0.5)	U(1)	U(1)	U(5)	NA	NA	0.47 J	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	0.18 J	0.38 J	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	45	0.4 J	U(1)	U(0.5)	7.7	U(1)	U(0.5)	0.56 J
		12/21/99	U(1)	U(1)	U(1)	U(1)	0.28 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	1.6	NA	U(1)	NA	NA	0.6 J	U(1)	U(1)	U(1)	0.78 J	1.4	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	4	1.4	U(1)	U(0.5)	1.3	U(1)	U(0.5)	2.2
		03/27/00	U(1)	U(1)	U(1)	U(1)	1.4	U(0.5)	U(1)	U(1)	U(5)	NA	NA	0.39 J	NA	U(1)	NA	NA	0.22 J	U(1)	U(1)	U(1)	0.18 J	0.35 J	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	26	0.41 J	U(1)	U(0.5)	3.9	U(1)	U(0.5)	0.53 J
		06/27/00	U(1)	U(1)	U(1)	U(1)	0.88 J	U(0.5)	NA	U(1)	U(5)	NA	NA	0.53 J	NA	U(1)	NA	NA	0.36 J	U(1)	U(1)	U(1)	0.27 J	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	12	0.52 J	U(1)	U(0.5)	1.7	U(1)	U(0.5)	0.27 J
		03/26/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	5	0.7	U(1)	U(0.5)	0.6	U(1)	U(0.5)	NA
		08/12/02	U(1)	U(1)	U(1)	U(1)	7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	0.7	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	90	U(1)	U(1)	U(0.5)	12	U(1)	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW-01B	85-95	06/30/03		U(1)	U(1)	U(1)	U(1)	0.7 J	2.2	U(1)	U(1)	U(1)	U(1)	1.1	U(2)	U(1)	U(1)	U(0.5)	U(1)	0.5 J	U(1)	U(1)	NA	U(1)	1.7	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/30/03*		U(1)	U(1)	U(1)	U(1)	U(1)	1.8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1.8	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/09/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.7	3.3	U(0.5)	U(0.5)	0.0047	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	2.4	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/09/04*		U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.7	3.4	U(0.5)	U(0.5)	0.0037	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	2.5	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/25/05		NA	U(1)	U(1)	U(1)	0.89	3.5	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		07/07/06		U(5)	U(5)	U(5)	U(5)	0.9 J	1.9 J	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	NA	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
		07/07/06		NA	NA	NA	NA	0.9	1.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/05/06		NA	U(0.5)	U(0.5)	U(0.5)	0.82	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.92 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		09/05/06*		NA	U(0.5)	U(0.5)	U(0.5)	0.82	1.8	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.87 J	NA	NA	NA	3.7 J	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/30/07		NA	U(0.5)	U(0.5)	U(0.5)	1.2	3.4	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.2 J
		07/30/07*		NA	U(0.5)	U(0.5)	U(0.5)	1.2	3.4	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.21 J
		02/13/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/13/09	LF	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.4	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/13/09*	LF	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.6	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/28/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.69	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.21 J	U(0.5)
		08/24/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.39 J	1.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.4 J	1.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/02/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.36 J	0.85	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/18/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.81	1.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/16/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.87	1.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.33 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/07/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.55	1.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.51	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/15/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.23 J	0.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.28 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.44 J	1.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.27 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
MW-02	50-70	11/14/97		U(1)	0.18	U(1)	U(1)	0.22	2.5	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/12/98		U(1)	U(1)	U(1)	U(1)	0.77 J	11	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		07/21/98		U(1)	U(1)	U(1)	U(1)	0.46 J	3	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		10/27/98		U(1)	U(1)	U(1)	U(1)	0.44 J	3.4	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/99		U(1)	U(1)	U(1)	U(1)	U(1)	0.57 J	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/21/99		U(1)	U(1)	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.12 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/00		U(1)	U(1)	U(1)	U(1)	0.22 J	1.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/27/00		U(1)	U(1)	U(1)	U(1)	0.28 J	2.2	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		09/07/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/30/07		NA	U(0.5)	U(0.5)	U(0.5)	0.71	2.4	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/30/07*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-03	53.5-74	11/19/97		U(5)	U(2)	U(2)	U(2)	U(2)	6.1	U(2)	U(5)	U(10)	U(5)	U(2)	U(5)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	NA	U(2)	NA	U(2)	U(5)	U(5)	NA	NA	NA	U(2)	U(5)	U(5)	U(2)	U(5)	U(5)	NA	U(5)
		02/13/98		U(1)	U(1)	U(1)	U(1)	0.67 J	8.1	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		07/21/98		U(1)	U(1)	U(1)	U(1)	0.66 J	5.4	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		10/27/98		U(1)	U(1)	U(1)	0.32 J	0.63 J	6.8	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/02		U(1)	U(1)	U(1)	U(1)	U(1)	6	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/02*		U(1)	U(1)	U(1)	U(1)	U(1)	5	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/15/02		U(1)	U(1)	U(1)	U(1)	U(1)	5	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/15/02*		U(1)	U(1)	U(1)	U(1)	U(1)	5	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/02/03		U(1)	U(1)	U(1)	U(1)	0.5 J	6.9	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	3.9	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		09/15/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.6	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.48 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/08/07		NA	U(0.5)	U(0.5)	U(0.5)	0.2 J	3.4	NA	U(0.5)	U(0.005)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		05/08/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		11/19/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		11/19/08*		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		02/25/09	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/24/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.63	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/06/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.55	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/22/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
MW-05	37-57	11/16/97		U(1)	0.37	U(1)	U(1)	0.86	7.4	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/16/98		U(1)	0.34 J	U(1)	U(1)	0.99 J	9	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		04/01/02		U(1)	U(1)	U(1)	U(1)	0.5	7	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.3 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW-01B	85-95	06/30/03	U(1)	U(1)	U(1)	U(1)	17	U(0.5)	U(1)	U(1)	U(1)	NA	NA	0.6 J	U(1)	U(1)	U(4)	U(1)	U(1)	1.1	NA	U(1)	NA	NA	1.9 J	U(1)	U(1)	U(1)	NA	NA	U(1)	110	1.3	U(1)	U(0.5)	19	U(1)	U(0.5)	NA
		06/30/03*	U(1)	U(1)	U(1)	U(1)	20	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	0.5 J	NA	U(1)	NA	NA	1.7 J	U(1)	U(1)	U(1)	NA	NA	U(1)	110	0.6 J	U(1)	U(0.5)	19	U(1)	U(0.5)	NA
		01/09/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	14	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	0.6	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	3.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	120	U(0.5)	U(0.5)	U(0.2)	19	U(0.5)	U(0.2)	NA
		01/09/04*	U(0.5)	U(0.5)	U(0.5)	U(0.5)	14	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	0.6	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	3.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	120	U(0.5)	U(0.5)	U(0.2)	19	U(0.5)	U(0.2)	NA
		01/25/05	U(1)	U(1)	0.27	U(1)	5.1	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	49.2	U(1)	U(1)	U(1)	10	NA	U(1)	U(1)
		07/07/06	U(5)	U(5)	U(5)	U(5)	0.6 J	U(5)	U(5)	U(5)	U(5)	NA	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	12	U(5)	U(5)	U(5)	3.8 J	U(5)	U(5)	U(5)
		07/07/06	NA	NA	NA	NA	0.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	3.8	NA	NA	NA
		09/05/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.53	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	NA	NA	NA	12	U(0.5)	U(0.5)	U(0.5)	2.7	U(0.5)	U(0.5)	NA
		09/05/06*	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.55	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	NA	NA	NA	12	U(0.5)	U(0.5)	U(0.5)	2.7	U(0.5)	U(0.5)	NA
		07/30/07	U(0.5)	U(0.5)	0.47 J	U(0.5)	1.7	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	0.28 J	1.8	NA	NA	NA	U(0.5)	U(0.5)	3.7	NA	NA	U(0.5)	NA	NA	NA	17	U(0.5)	U(0.5)	U(0.5)	8	U(0.5)	U(0.5)	NA
		07/30/07*	U(0.5)	U(0.5)	0.45 J	U(0.5)	1.8	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	0.27 J	1.8	NA	NA	NA	U(0.5)	U(0.5)	3.7	NA	NA	U(0.5)	NA	NA	NA	17	U(0.5)	U(0.5)	U(0.5)	8.4	U(0.5)	U(0.5)	NA
		02/13/09	U(1)	U(5)	U(1)	U(10)	12	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	67	U(1)	U(1)	U(0.5)	14	U(10)	U(0.5)	NA
		02/13/09	U(1)	U(5)	U(1)	U(10)	8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	20	U(1)	U(1)	U(0.5)	8.1	U(10)	U(0.5)	NA
		02/13/09*	U(1)	U(5)	U(1)	U(10)	8.7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	22	U(1)	U(1)	U(0.5)	8.2	U(10)	U(0.5)	NA
		05/28/09	U(0.5)	U(0.5)	U(1)	U(0.5)	5.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	43.5	U(1)	U(0.5)	U(0.5)	7.6	U(5)	U(0.5)	U(2)
		08/24/09	U(0.5)	U(0.5)	U(1)	U(0.5)	5.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	47.7	U(1)	U(0.5)	U(0.5)	8.3	U(5)	U(0.5)	U(2)
		11/30/09	U(0.5)	U(0.5)	U(1)	U(0.5)	7.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	80.4	U(1)	U(0.5)	U(0.5)	12.1	U(5)	U(0.5)	U(2)
		03/02/10	U(0.5)	U(0.5)	U(1)	U(0.5)	3.9	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	39.5	U(1)	U(0.5)	U(0.5)	6.5	U(5)	U(0.5)	U(2)
		11/18/11	U(0.5)	U(0.5)	0.33 J	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	15.4	U(1)	U(0.5)	U(0.5)	5.1	U(5)	U(0.5)	U(2)
		05/16/12	U(0.5)	U(0.5)	0.29 J	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	11.9	U(1)	U(0.5)	U(0.5)	4.4	U(5)	U(0.5)	U(2)
		12/07/12	U(0.5)	U(0.5)	U(1)	U(0.5)	3.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3	NA	U(2)	U(1)	NA	4 J	U(2)	34.5	U(1)	U(0.5)	U(0.5)	7.7	U(5)	U(0.5)	U(2)
		08/15/13	U(0.5)	U(0.5)	0.23 J	U(0.5)	16.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	124	U(1)	0.81	U(0.5)	19	U(5)	U(0.5)	U(2)
		04/02/14	U(0.5)	U(0.5)	0.22 J	U(0.5)	7.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	60.1	U(1)	0.21 J	U(0.5)	10.8	U(5)	U(0.5)	U(2)
MW-02	50-70	11/14/97	U(1)	U(1)	U(1)	U(1)	0.83	U(1)	U(1)	NA	NA	NA	NA	0.15	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	23	0.36	U(1)	U(1)	9.6	U(1)	U(1)	0.7
		02/12/98	U(1)	U(1)	0.24 J	U(1)	1.6	U(1)	U(1)	NA	NA	NA	NA	2.3	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	24	U(1)	U(1)	U(1)	35	U(1)	U(1)	1.6
		07/21/98	U(1)	U(1)	0.35 J	U(1)	1.8	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	38	U(1)	U(1)	U(1)	12	U(1)	U(1)	U(1)
		10/27/98	U(1)	U(1)	0.22 J	U(1)	2.1	U(1)	U(1)	NA	NA	NA	NA	1.4	NA	NA	NA	NA	0.42 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	55	U(1)	U(1)	U(1)	12	U(1)	U(1)	U(1)
		08/19/99	U(1)	U(1)	0.92 J	U(1)	0.43 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	12	0.23 J	U(1)	U(0.5)	3.5	U(1)	U(0.5)	U(1)
		12/21/99	U(1)	U(1)	0.82 J	U(1)	0.5 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.51 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	14	U(1)	U(1)	U(0.5)	4.9	U(1)	U(0.5)	U(1)
		03/27/00	U(1)	U(1)	0.64 J	U(1)	0.93 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	22	U(1)	U(1)	U(0.5)	7.6	U(1)	U(0.5)	U(1)
		06/27/00	U(1)	U(1)	0.19 J	U(1)	1.2	U(0.5)	NA	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.37 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	21	U(1)	U(1)	U(0.5)	8.7	U(1)	U(0.5)	U(1)
		09/07/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	6.7	NA	NA	U(0.5)	NA	NA	NA	5	U(0.5)	U(0.5)	U(0.5)	1.3	U(0.5)	U(0.5)	NA
		07/30/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	1.1	1.1	NA	NA	NA	U(0.5)	U(0.5)	4.7	NA	NA	U(0.5)	NA	NA	NA	18	U(0.5)	U(0.5)	U(0.5)	13	U(0.5)	U(0.5)	NA
		07/30/07*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-03	53.5-74	11/19/97	U(2)	U(5)	U(2)	U(5)	5	U(2)	NA	U(2)	U(5)	NA	NA	U(2)	NA	U(2)	NA	NA	U(20)	U(5)	U(5)	U(2)	U(2)	U(2)	NA	U(2)	U(5)	U(2)	NA	NA	U(5)	52	U(2)	U(2)	U(2)	35	U(5)	U(5)	NA
		02/13/98	U(1)	U(1)	0.3 J	U(1)	6.5	U(1)	U(1)	NA	NA	NA	NA	0.85 J	NA	NA	NA	NA	0.14 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	48	U(1)	U(1)	U(1)	60	0.2 J	U(1)	0.58 J
		07/21/98	U(1)	U(1)	U(1)	U(1)	2.3	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	0.2 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	12	U(1)	U(1)	U(1)	15	U(1)	U(1)	U(1)
		10/27/98	U(1)	U(1)	U(1)	U(1)	2.4	U(1)	U(1)	NA	NA	NA	NA	1.4	NA	NA	NA	NA	0.37 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	17	U(1)	U(1)	U(1)	17	U(1)	U(1)	U(1)
		03/27/02	U(1)	U(1)	0.6	U(1)	5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	NA	NA	U(1)	80	U(1)	U(1)	U(0.5)	70	U(1)	U(0.5)	NA
		03/27/02*	U(1)	U(1)	0.5	U(1)	5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	4	U(1)	U(1)	U(1)	NA	NA	U(1)	58	U(1)	U(1)	U(0.5)	56	U(1)	U(0.5)	NA
		08/15/02	U(1)	U(1)	0.6	U(1)	6	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	80	U(1)	U(1)	U(0.5)	70	U(1)	U(0.5)	NA
		08/15/02*	U(1)	U(1)	0.5	U(1)	5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	80	U(1)	U(1)	U(0.5)	80	U(1)	U(0.5)	NA
		07/02/03	U(1)	U(1)	U(1)	U(1)	4.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	4.3	U(1)	U(1)	U(1)	NA	NA	U(1)	35	U(1)	U(1)	U(0.5)	48	U(1)	U(0.5)	NA
		09/15/06	U(0.5)	U(0.5)	3.7	U(0.5)	2.1	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	3.4	NA	NA	U(0.5)	NA	NA	NA	29	U(0.5)	U(0.5)	U(0.5)	33	U(0.5)	U(0.5)	NA
		08/08/07	U(0.5)	U(0.5)	7.7	U(0.5)	2.3	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	3.1	NA	NA	U(0.5)	NA	NA	NA	28	U(0.5)	U(0.5)	U(0.5)	43	U(0.5)	U(0.5)	NA
		05/08/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	12	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		11/19/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	12	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		11/19/08*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	12	U(1)	U(1)	U(0.5)	1.1	U(10)	U(0.5)	NA
		02/25/09	U(1)	U(5)	1.1	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	8.9	U(1)	U(1)	U(0.5)	11	U(10)	U(0.5)	NA
		05/24/12	U(0.5)	U(0.5)	2.1	U(0.5)	0.38 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	12.8	U(1)	U(0.5)	U(0.5)	11.1	U(5)	U(0.5)	U(2)
		12/06/12	U(0.5)	U(0.5)	1.2	U(0.5)	0.3 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.8	NA	U(2)	U(1)	NA	U(10)	U(2)	14	U(1)	U(0.5)	U(0.5)	10.8	U(5)	U(0.5)	U(2)
		08/22/13	U(0.5)	U(0.5)	0.49 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.8	U(1)	U(0.5)	U(0.5)	1.5	U(5)	U(0.5)	U(2)
MW-05	37-57	11/16/97	U(1)	U(1)	U(1)	U(1)	14	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	160	U(1)	U(1)	U(1)	20	0.2	U(1)	U(1)
		02/16/98	U(1)	U(1)	U(1)	U(1)	15	U(1)	U(1)	NA	NA	NA	NA	0.11 J	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	130	U(1)	U(1)	U(1)	16	U(1)	U(1)	U(1)
		04/01/02	U(1)	U(1)	U(1)	U(1)	4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	44	U(1)	U(1)	U(0.5)	10	U(1)	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW-05	37-57	08/15/02		U(1)	U(1)	U(1)	U(1)	0.7	10	U(1)	U(1)	U(1)	U(1)	0.8	U(2)	U(1)	U(1)	0.7	U(1)	U(1)	U(1)	U(1)	NA	U(1)	4	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/02/03		U(1)	U(1)	U(1)	U(1)	0.7 J	11	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.8	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1.4	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/07/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.5	6.1	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	3.1	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/07/04*		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/27/05		NA	U(1)	U(1)	U(1)	U(1)	3.8	NA	NA	NA	NA	NA	NA	NA	NA	0.52	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/15/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.81 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/17/07		NA	U(0.5)	U(0.5)	U(0.5)	0.43 J	6.2	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/25/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	5.9	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.4	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/03/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.44 J	4.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.6	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.41 J	4.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.4 J	3.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/03/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.38 J	3.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/28/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.42 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.31 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/06/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.35 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/22/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.4 J	3.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.63	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.37 J	1.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.33 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
MW-06	85-95	11/14/97		U(1)	3.3	U(1)	U(1)	7.3	48	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/13/98		U(1)	U(1)	U(1)	U(1)	0.71 J	8.1	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	0.19 J	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		03/28/02		U(1)	U(1)	U(1)	U(1)	U(1)	2	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/28/02*		U(1)	U(1)	U(1)	U(1)	U(1)	2	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/15/02		U(1)	U(1)	U(1)	U(1)	2	12	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/30/03		U(1)	U(1)	U(1)	U(1)	2.2	15	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.4	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/06/04		U(0.5)	0.6	U(0.5)	U(0.5)	8.7	48	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.4	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	8.8	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/27/05		NA	U(1)	U(1)	U(1)	5.4	21.8	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	7.7	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/07/06		NA	U(0.5)	U(0.5)	U(0.5)	U(3.4)	28	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	2.9	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/31/07		NA	0.13 J	U(0.5)	U(0.5)	4.3	19	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	1 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/31/07*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/14/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		05/14/08*		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		11/24/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		02/20/09	HS	U(1)	U(1)	U(1)	U(1)	4	26	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	0.71	U(1)	U(1)	U(1)	U(1)	NA	U(1)	4	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/20/09	LF	U(1)	U(1)	U(1)	U(1)	4.9	26	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	0.79	U(1)	U(1)	U(1)	U(1)	NA	U(1)	5.2	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	4.1	27.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.55	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	5.6	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.35 J	U(0.5)
		05/27/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	4.1	24.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.55	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	5.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.67 J	U(0.5)
		09/01/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.6	26.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.47 J	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	6	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/23/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.3	23.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.56	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	6.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/01/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.1	16.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.34 J	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	6.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/16/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.1	18.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.62	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/15/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.4	22.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.58	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.84	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.1	13.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.24 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/28/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	3	17.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.92	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	18.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/27/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.8	8.6	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.38 J	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	6.5	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-07	85-95	11/20/97		U(5)	U(2)	U(2)	U(2)	12	94	U(2)	U(5)	U(10)	U(5)	U(2)	U(5)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	NA	U(2)	NA	U(2)	U(5)	U(5)	NA	NA	NA	U(2)	U(5)	U(5)	U(2)	U(5)	U(5)	NA	U(5)
(SW-01)		02/17/98		U(1)	3.4	U(1)	0.71 J	28	320	NA	NA	NA	NA	NA	U(1)	NA	U(1)	0.65	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	0.16 J	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/99		U(1)	5.9	U(1)	1.4	40	390	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	0.92	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.16 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/22/99		U(1)	10	U(1)	1.5	50	560	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	0.86	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.21 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/29/02		U(1)	U(1)	U(1)	U(1)	12	120	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.6	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/16/02		U(1)	0.6	U(1)	U(1)	13	140	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	21	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/02/03		U(1)	1.9	U(1)	0.5 J	12	160	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.5	U(1)	U(1)	U(1)	U(1)	NA	U(1)	43	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/14/04		U(0.5)	6.2	U(0.5)	1.1	28	400	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	69	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/14/04*		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/14/04		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW-05	37-57	08/15/02	U(1)	U(1)	U(1)	U(1)	7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	0.6	U(1)	0.5	U(1)	U(1)	2	3	4	U(1)	U(1)	U(1)	NA	NA	U(1)	52	0.5	U(1)	U(0.5)	16	U(1)	U(0.5)	NA
		07/02/03	U(1)	U(1)	U(1)	U(1)	5.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	0.6 J	U(1)	U(1)	NA	U(1)	NA	NA	4.4	U(1)	U(1)	U(1)	NA	NA	U(1)	40	U(1)	U(1)	U(1)	U(0.5)	14	U(1)	U(0.5)	NA
		01/07/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	5.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	40	U(0.5)	U(0.5)	U(0.2)	9.8	U(0.5)	U(0.2)	NA
		01/07/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/27/05	U(1)	U(1)	U(1)	U(1)	3.2	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	29	U(1)	U(1)	U(1)	U(1)	7.6	NA	U(1)	U(1)
		09/15/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.1	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	5.6	NA	NA	U(0.5)	NA	NA	NA	17	U(0.5)	U(0.5)	U(0.5)	3.7	U(0.5)	U(0.5)	NA
		08/17/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.2	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	NA	NA	NA	26	U(0.5)	U(0.5)	U(0.5)	7.2	U(0.5)	U(0.5)	NA
		02/25/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	35	U(1)	U(1)	U(0.5)	6.4	U(10)	U(0.5)	NA
		06/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.81	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	13.2	U(5)	31.8	U(1)	U(0.5)	U(0.5)	6.1	U(5)	U(0.5)	U(2)
		09/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.76	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	31.6	U(1)	U(0.5)	U(0.5)	5.5	U(5)	U(0.5)	U(2)
		12/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.73	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	34	U(1)	U(0.5)	U(0.5)	5.9	U(5)	U(0.5)	U(2)
		03/03/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	29.6	U(1)	U(0.5)	U(0.5)	5.3	U(5)	U(0.5)	U(2)
		11/28/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.49 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	28.8	U(1)	U(0.5)	U(0.5)	3.2	U(5)	U(0.5)	U(2)
		05/24/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.28 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	18.8	U(1)	U(0.5)	U(0.5)	2	U(5)	U(0.5)	U(2)
		12/06/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.32 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	6.8	NA	U(2)	U(1)	NA	U(10)	U(2)	22.1	U(1)	U(0.5)	U(0.5)	2.6	U(5)	U(0.5)	U(2)
		08/22/13	U(0.5)	U(0.5)	0.28 J	0.34 J	0.35 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	32.2	U(1)	U(0.5)	U(0.5)	4.6	U(5)	U(0.5)	U(2)
		04/22/14	U(0.5)	U(0.5)	0.22 J	U(0.5)	0.36 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	21.2	U(1)	U(0.5)	U(0.5)	3.4	U(5)	U(0.5)	U(2)
MW-06	85-95	11/14/97	U(1)	U(1)	U(1)	U(1)	4.4	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	23	U(1)	U(1)	U(1)	39	0.36	U(1)	U(1)
		02/13/98	U(1)	U(1)	0.18 J	U(1)	4.4	U(1)	U(1)	NA	NA	NA	NA	0.77 J	NA	NA	NA	NA	0.18 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	18	U(1)	U(1)	U(1)	30	0.99 J	U(1)	1.4
		03/28/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	1	U(1)	U(1)	U(0.5)	2	U(1)	U(0.5)	NA
		03/28/02*	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	1	U(1)	U(1)	U(0.5)	2	U(1)	U(0.5)	NA
		08/15/02	U(1)	U(1)	U(1)	U(1)	3	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	0.6	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	10	U(1)	U(1)	U(0.5)	13	U(1)	U(0.5)	NA
		06/30/03	U(1)	U(1)	U(1)	U(1)	3.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	1.4 J	U(1)	U(1)	U(1)	NA	NA	U(1)	13	U(1)	U(1)	U(0.5)	20	U(1)	U(0.5)	NA
		01/06/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	18	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	5.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	50	U(0.5)	U(0.5)	U(0.2)	68	1.1	U(0.2)	NA
		01/27/05	U(1)	U(1)	U(1)	U(1)	9.3	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	29	U(1)	U(1)	U(1)	49.9	NA	U(1)	U(1)
		09/07/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(9.3)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.61)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	4	NA	NA	U(0.5)	NA	NA	NA	31	U(0.5)	U(0.5)	U(0.5)	40	U(0.54)	U(0.5)	NA
		07/31/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	13	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	5.9	NA	NA	U(0.5)	NA	NA	NA	41	U(0.5)	0.14 J	U(0.5)	49	0.67	U(0.5)	NA
		07/31/07*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/14/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	3.3	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		05/14/08*	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	3.4	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		11/24/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	5.7	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/20/09	U(1)	U(5)	U(1)	U(10)	11	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	40	U(1)	U(1)	U(0.5)	40	U(10)	U(0.5)	NA
		02/20/09	U(1)	U(5)	U(1)	U(10)	11	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	14	U(1)	U(1)	U(0.5)	32	U(10)	U(0.5)	NA
		05/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	11.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.64 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	55.2	U(1)	0.53	U(0.5)	51.7	0.79 J	U(0.5)	U(2)
		05/27/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	11.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.66 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	52.7	U(1)	0.74	U(0.5)	50.8	0.73 J	U(0.5)	U(2)
		09/01/09	U(0.5)	U(0.5)	U(1)	U(0.5)	11	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	0.68 J	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	40.2	U(1)	U(0.5)	U(0.5)	43.3	0.46 J	U(0.5)	U(2)
		11/23/09	U(0.5)	U(0.5)	U(1)	U(0.5)	9.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	0.99 J	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	31.8	U(1)	U(0.5)	U(0.5)	42.4	0.41 J	U(0.5)	U(2)
		03/01/10	U(0.5)	U(0.5)	U(1)	U(0.5)	8.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	0.55 J	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	27.4	U(1)	U(0.5)	U(0.5)	41.4	U(5)	U(0.5)	U(2)
		11/16/11	U(0.5)	U(0.5)	U(1)	U(0.5)	7.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	1.9	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	27.2	U(1)	U(0.5)	U(0.5)	37.8	0.46 J	U(0.5)	U(2)
		05/15/12	U(0.5)	U(0.5)	0.25 J	U(0.5)	9.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	1.9	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	29.3	U(1)	0.33 J	U(0.5)	35.4	0.47 J	U(0.5)	U(2)
		12/03/12	U(0.5)	U(0.5)	U(1)	U(0.5)	6.2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.21 J	U(10)	U(5)	U(2)	NA	NA	NA	4.7	NA	U(2)	U(1)	NA	U(10)	U(2)	26.2	U(1)	0.28 J	U(0.5)	21.2	0.27 J	U(0.5)	U(2)
		08/28/13	U(0.5)	U(0.5)	0.22 J	U(0.5)	7.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.28 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	33.6	U(1)	0.26 J	U(0.5)	28.8	0.39 J	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/27/14	U(0.5)	U(0.5)	0.22 J	U(0.5)	8.4	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.4 J	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.3	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	24	U(0.5)	0.4 J	U(0.5)	34	0.28 J	U(0.5)	NA
MW-07 (SW-01)	85-95	11/20/97	U(2)	U(5)	U(2)	U(5)	21	U(2)	NA	U(2)	U(5)	NA	NA	U(2)	NA	U(2)	NA	NA	U(20)	U(5)	U(5)	U(2)	U(2)	U(2)	NA	U(2)	U(5)	U(2)	NA	NA	U(5)	50	U(2)	U(2)	U(2)	170	U(5)	U(5)	NA
		02/17/98	U(1)	U(1)	0.74 J	U(1)	41	U(1)	U(1)	NA	NA	NA	NA	0.64 J	NA	NA	NA	NA	0.23 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	77	6.6	1	U(1)	280	2.8	0.37 J	2.1
		08/19/99	U(1)	U(1)	1	U(1)	36	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	87	U(1)	0.6 J	U(0.5)	350	1.7	U(0.5)	U(1)
		12/22/99	U(1)	U(1)	1.1	U(1)	35	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.29 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	100	U(1)	0.73 J	U(0.5)	480	2.3	U(0.5)	U(1)
		03/29/02	U(1)	U(1)	U(1)	U(1)	10	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	25	U(1)	U(1)	U(0.5)	110	U(1)	U(0.5)	NA
		08/16/02	U(1)	U(1)	U(1)	U(1)	14	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	30	U(1)	U(1)	U(0.5)	140	U(1)	U(0.5)	NA
		07/02/03	U(1)	U(1)	U(1)	U(1)	13	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	39	U(1)	U(1)	U(0.5)	160	U(1)	U(0.5)	NA
		01/14/04	U(0.5)	U(0.5)	0.7	U(0.5)	24	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1.7	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	7.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	80	U(0.5)	0.6	U(0.2)	370	1.6	U(0.2)	NA
		01/14/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/14/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW-07	85-95	05/29/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	5.1	60.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	13.8	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
(SW-01)		05/29/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	5.4	63.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	14.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/31/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	5.2	60.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	16.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	5.3	57.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	13.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	5.2	56.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	18.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/08/10	HS	NA	U(0.84)	U(0.84)	U(0.84)	4.9	51	NA	U(8.4)	NA	U(8.4)	U(8.4)	U(17)	U(1.7)	U(0.84)	U(0.84)	U(0.84)	U(8.4)	U(0.84)	U(1.7)	NA	U(0.84)	12.2	NA	NA	NA	U(33)	U(17)	U(8.4)	U(1.7)	NA	U(1.7)	U(0.84)	U(1.7)	U(8.4)	U(1.7)	U(0.84)
		12/08/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	6.6	64.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	7.4	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	4.4	41.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	5.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/12*	HS	NA	U(0.5)	U(0.5)	U(0.5)	4.2	39.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.21 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	4.9	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/20/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.7	38.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	3.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/22/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.3	24.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	3.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/25/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.5	37.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	4.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/26/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	5.4	21	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.26 J	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	11	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-08	88-98	11/14/97		U(1)	2.3	U(1)	U(1)	3.7	32	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	1.5	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/12/98		U(1)	U(1)	U(1)	U(1)	2.5	20	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	0.39 J	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/99		U(1)	0.39 J	U(1)	U(1)	2.1	18	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/21/99		U(1)	0.54 J	U(1)	U(1)	1.7	21	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.25 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/00		U(1)	U(1)	U(1)	U(1)	0.24 J	2	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.31 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/27/00		U(1)	0.21 J	U(1)	U(1)	1.1	12	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.29 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/02		U(1)	U(1)	U(1)	U(1)	0.7	8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/13/02		U(1)	U(1)	U(1)	U(1)	U(1)	4	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/30/03		U(1)	U(1)	U(1)	U(1)	0.8 J	9.9	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.2	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/09/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.5	6.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.8	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/09/04*		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/12/06		NA	U(0.5)	U(0.5)	U(0.5)	1.5	22	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.62 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		09/12/06*		NA	U(0.5)	U(0.5)	U(0.5)	1.3	23	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.54 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		05/14/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		11/21/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		02/13/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	5.3	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.7 J	U(0.5)
		06/02/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.85 J	U(0.5)
		08/31/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/24/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/26/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.27 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/16/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.5	4.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/15/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.42 J	5.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.44 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.24 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/23/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.28 J	5.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.26 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.17 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.1	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.83	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-09	83-93	11/14/97		U(1)	2	U(1)	U(1)	7.9	74	NA	NA	NA	NA	NA	U(1)	NA	U(1)	0.5	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
(SW-02)		02/13/98		U(1)	U(1)	U(1)	U(1)	9	74	NA	NA	NA	NA	NA	U(1)	NA	U(1)	0.57	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/99		U(1)	0.67 J	U(1)	U(1)	5.8	51	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	0.35 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/22/99		U(1)	0.63 J	U(1)	U(1)	5.3	47	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	0.35 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/02		U(1)	U(1)	U(1)	U(1)	4	25	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/13/02		U(1)	U(1)	U(1)	U(1)	4	24	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	13	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/01/03		U(1)	U(1)	U(1)	U(1)	2.1	15	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	10	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		09/13/06		NA	U(0.5)	U(0.5)	U(0.5)	1.3	15	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	2.1	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/17/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	2.5	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	4	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.69	5.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	5.7	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.31 J	U(0.5)
		08/25/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.72	6.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	6.4	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/18/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.3	8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	2.4	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/04/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.49 J	1.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.98	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW-07	85-95	05/29/09	U(0.5)	U(0.5)	U(1)	U(0.5)	17.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	2.1	1.3 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	61	U(1)	0.38 J	U(0.5)	83.4	0.64 J	U(0.5)	U(2)
(SW-01)		05/29/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	18.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.5 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	69.9	U(1)	0.4 J	U(0.5)	92.4	0.73 J	U(0.5)	U(2)
		08/31/09	U(0.5)	U(0.5)	U(1)	U(0.5)	16.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.93 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	44.9	U(1)	0.32 J	U(0.5)	70.9	0.47 J	U(0.5)	U(2)
		11/30/09	U(0.5)	U(0.5)	U(1)	U(0.5)	15.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.4 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	56.1	U(1)	0.35 J	U(0.5)	81.3	0.71 J	U(0.5)	U(2)
		11/30/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	15.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.4 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	54.6	U(1)	0.33 J	U(0.5)	81.7	0.65 J	U(0.5)	U(2)
		03/08/10	U(0.84)	U(0.84)	U(1.7)	U(0.84)	15.9	U(0.84)	U(1.7)	U(1.7)	U(0.84)	U(8.4)	NA	U(1.7)	1.4 J	U(1.7)	U(33)	U(1.7)	U(17)	U(8.4)	U(8.4)	NA	NA	NA	NA	NA	U(8.4)	U(1.7)	NA	U(17)	U(8.4)	49.6	U(1.7)	U(0.84)	U(0.84)	70.9	0.82 J	U(0.84)	U(3.3)
		12/08/11	U(0.5)	U(0.5)	U(1)	U(0.5)	19.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.5 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	59.4	U(1)	0.4 J	U(0.5)	91.6	1 J	U(0.5)	U(2)
		05/25/12	U(0.5)	U(0.5)	0.29 J	U(0.5)	13.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.3 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	54.3	U(1)	0.49 J	U(0.5)	67.5	0.93 J	U(0.5)	U(2)
		05/25/12*	U(0.5)	U(0.5)	0.27 J	U(0.5)	12.8	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.3 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	52.2	U(1)	0.57	U(0.5)	64.4	0.89 J	U(0.5)	U(2)
		12/20/12	U(0.5)	U(0.5)	U(1)	0.32 J	12	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.8 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	2.5	NA	U(2)	U(1)	NA	U(10)	U(2)	52.3	U(1)	0.24 J	U(0.5)	61.6	0.44 J	U(0.5)	U(2)
		08/22/13	U(0.5)	U(0.5)	U(1)	U(0.5)	7.6	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.99 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	29.4	U(1)	0.34 J	U(0.5)	39.5	0.56 J	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/25/14	U(0.5)	U(0.5)	0.25 J	U(0.5)	11.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.4 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	48.5	U(1)	U(0.5)	U(0.5)	55.3	0.76 J	U(0.5)	U(2)
		08/26/14	U(0.5)	U(0.5)	0.4 J	U(0.5)	17	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.8	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	5.1	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	69	U(0.5)	2.2	U(0.5)	86	1.5	U(0.5)	NA
MW-08	88-98	11/14/97	U(1)	U(1)	0.2	U(1)	0.67	U(1)	U(1)	NA	NA	NA	NA	0.72	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	1.6	3.5	U(1)	U(1)	49	U(1)	U(1)	3.9
		02/12/98	U(1)	U(1)	0.18 J	U(1)	0.7 J	U(1)	U(1)	NA	NA	NA	NA	2.2	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	3	0.69 J	U(1)	U(1)	32	U(1)	U(1)	3
		08/19/99	U(1)	U(1)	0.3 J	U(1)	0.64 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	1.8	U(1)	U(1)	U(0.5)	25	U(1)	U(0.5)	U(1)
		12/21/99	U(1)	U(1)	1.1	U(1)	0.49 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.35 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	1.5	U(1)	U(1)	U(0.5)	21	U(1)	U(0.5)	U(1)
		03/27/00	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	0.69 J	U(1)	U(1)	U(0.5)	2.2	U(1)	U(0.5)	U(1)
		06/27/00	U(1)	U(1)	0.81 J	U(1)	0.29 J	U(0.5)	NA	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.43 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	1.1	U(1)	U(1)	U(0.5)	9.9	U(1)	U(0.5)	U(1)
		03/27/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	4	U(1)	U(1)	U(1)	NA	NA	U(1)	0.6	U(1)	U(1)	U(0.5)	8	U(1)	U(0.5)	NA
		08/13/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	1	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	5	U(1)	U(0.5)	NA
		06/30/03	U(1)	U(1)	1	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	5.9	U(1)	U(1)	U(1)	NA	NA	U(1)	0.6 J	U(1)	U(1)	U(0.5)	9.3	U(1)	U(0.5)	NA
		01/09/04	U(0.5)	U(0.5)	0.8	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	4.7	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.2)	5.9	U(0.5)	U(0.2)	NA
		01/09/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/12/06	U(0.5)	U(0.5)	1	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	6.4	NA	NA	U(0.5)	NA	NA	NA	1.7	U(0.5)	U(0.5)	U(0.5)	18	U(0.5)	U(0.5)	NA
		09/12/06*	U(0.5)	U(0.5)	0.93	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	6.4	NA	NA	U(0.5)	NA	NA	NA	1.5	U(0.5)	U(0.5)	U(0.5)	16	U(0.5)	U(0.5)	NA
		05/14/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	9.2	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		11/21/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	8.2	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/13/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	3.1	U(10)	U(0.5)	NA
		06/02/09	U(0.5)	U(0.5)	0.36 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	1.9	U(5)	U(0.5)	U(2)
		06/02/09*	U(0.5)	U(0.5)	0.34 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.22 J	U(1)	U(0.5)	U(0.5)	2.1	U(5)	U(0.5)	U(2)
		08/31/09	U(0.5)	U(0.5)	0.37 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.29 J	U(1)	U(0.5)	U(0.5)	2.9	U(5)	U(0.5)	U(2)
		11/24/09	U(0.5)	U(0.5)	0.33 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	7.2 J	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	2.1	U(5)	U(0.5)	U(2)
		02/26/10	U(0.5)	U(0.5)	0.33 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.22 J	U(1)	U(0.5)	U(0.5)	2	U(5)	U(0.5)	U(2)
		11/16/11	U(0.5)	U(0.5)	0.96 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.66	U(1)	U(0.5)	U(0.5)	5.4	U(5)	U(0.5)	U(2)
		05/15/12	U(0.5)	U(0.5)	0.68 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	0.43 J	U(1)	U(0.5)	U(0.5)	4.2	U(5)	U(0.5)	U(2)
		12/03/12	U(0.5)	U(0.5)	0.27 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	5.7	NA	U(2)	U(1)	NA	U(10)	U(2)	0.31 J	U(1)	U(0.5)	U(0.5)	1.9	U(5)	U(0.5)	U(2)
		08/23/13	U(0.5)	U(0.5)	0.45 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	0.37 J	U(1)	U(0.5)	U(0.5)	3.5	U(5)	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/02/14	U(0.5)	U(0.5)	0.23 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	1.4	U(5)	U(0.5)	U(2)
		08/27/14	U(0.5)	U(0.5)	0.33 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	5.7	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	0.28 J	U(0.5)	U(0.5)	U(0.5)	1.8	U(0.5)	U(0.5)	NA
MW-09	83-93	11/14/97	U(1)	U(1)	0.38	U(1)	5.3	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	10	0.28	U(1)	U(1)	99	0.24	U(1)	0.29
(SW-02)		02/13/98	U(1)	U(1)	0.45 J	U(1)	6.6	U(1)	U(1)	NA	NA	NA	NA	0.62 J	NA	NA	NA	NA	0.17 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	8.7	U(1)	0.13 J	U(1)	73	0.21 J	U(1)	0.44 J
		08/19/99	U(1)	U(1)	0.32 J	U(1)	4.1	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	5.9	U(1)	U(1)	U(0.5)	60	U(1)	U(0.5)	U(1)
		12/22/99	U(1)	U(1)	0.3 J	U(1)	4	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.24 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	7	U(1)	U(1)	U(0.5)	56	U(1)	U(0.5)	U(1)
		03/27/02	U(1)	U(1)	U(1)	U(1)	3	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	2	U(1)	U(1)	U(1)	NA	NA	U(1)	4	U(1)	U(1)	U(0.5)	38	U(1)	U(0.5)	NA
		08/13/02	U(1)	U(1)	U(1)	U(1)	5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	0.7	1	U(1)	U(1)	U(1)	NA	NA	U(1)	3	U(1)	U(1)	U(0.5)	31	U(1)	U(0.5)	NA
		07/01/03	U(1)	U(1)	U(1)	U(1)	1.4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	4.7	U(1)	U(1)	U(1)	NA	NA	U(1)	1.5	U(1)	U(1)	U(0.5)	25	U(1)	U(0.5)	NA
		09/13/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.77	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	3	NA	NA	U(0.5)	NA	NA	NA	1.5	U(0.5)	U(0.5)	U(0.5)	24	U(0.5)	U(0.5)	NA
		02/17/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	4.3	U(10)	U(0.5)	NA
		05/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.51	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	0.71	U(1)	U(0.5)	U(0.5)	8	U(5)	U(0.5)	U(2)
		08/25/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	5.1	NA	U(5)	U(1)	NA	U(10)	U(5)	0.68	U(1)	U(0.5)	U(0.5)	10.4	U(5)	U(0.5)	U(2)
		05/18/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.93	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.4	U(1)	U(0.5)	U(0.5)	16.5	U(5)	U(0.5)	U(2)
		12/04/12	U(0.5)	U(0.5)	U(1)	0.36 J	0.28 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.3	NA	U(2)	U(1)	NA	U(10)	U(2)	0.62	U(1)	U(0.5)	U(0.5)	4.9	U(5)	U(0.5)	U(2)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW-09	83-93	08/23/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.66	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
(SW-02)		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	85-95	11/07/97		U(1)	U(1)	U(1)	U(1)	0.33	1.1	NA	NA	NA	NA	NA	U(1)	NA	U(1)	0.23	U(1)	NA	U(1)	NA	NA	0.42	NA	NA	NA	NA	NA	NA	NA	0.17	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/11/98		U(1)	U(1)	U(1)	U(1)	0.26 J	5	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/99		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/21/99		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.13 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/26/02		U(1)	U(1)	U(1)	U(1)	U(1)	0.6	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(0.94)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/13/02		U(1)	U(1)	U(1)	U(1)	U(1)	2	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/13/02*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/06/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		05/13/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		11/21/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		11/23/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/16/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(1.9)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/20/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.86	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	NA	NA	NA	5.7 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
MW-11	160-175	11/16/97		U(1)	U(1)	U(1)	U(1)	0.95	8.3	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	0.12	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/12/98		U(1)	5.1	U(1)	U(1)	11	76	NA	NA	NA	NA	NA	U(1)	NA	U(1)	0.25 J	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/99		U(1)	0.11 J	U(1)	U(1)	1.6	17	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/21/99		U(1)	U(1)	U(1)	U(1)	0.65 J	6	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.82	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/29/02		U(1)	U(1)	U(1)	U(1)	0.9	9	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/14/02		U(1)	U(1)	U(1)	U(1)	0.9	8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	5	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/01/03		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	NA	NA	0.5 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/01/03		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	18	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	4.2	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/27/05		NA	U(1)	U(1)	U(1)	U(1)	1.2	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/07/06		NA	U(0.5)	U(0.5)	U(0.5)	U(1.5)	U(20)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	3.6	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/01/07		NA	U(0.5)	U(0.5)	U(0.5)	2.4	18	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	2.3	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		05/13/08		U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(25)	U(5)	U(5)	U(25)	U(5)	U(5)	U(2.5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	NA	U(5)	U(5)	U(5)	U(250)	NA	NA	U(2.5)	U(5)	U(5)	U(5)	U(5)	U(50)	U(50)	U(2.5)
		11/25/08		U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(25)	U(5)	U(5)	U(25)	U(5)	U(5)	U(2.5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	NA	U(5)	U(5)	U(5)	U(250)	NA	NA	U(2.5)	U(5)	U(5)	U(5)	U(5)	U(50)	U(50)	U(2.5)
		02/20/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.48 J	5.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/01/09	HS	NA	U(1)	U(1)	U(1)	6.5	72.9	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	18.5	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		09/01/09*	HS	NA	U(1)	U(1)	U(1)	6.3	71.6	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	18.4	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		11/23/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.46 J	5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/23/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.43 J	5.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/01/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/01/10*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/16/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/15/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.2 J	NA	NA	NA	10.5 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/28/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.58	6.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.82	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/01/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.15 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.66	NA	NA	NA	5.7 J	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-12	145-160	11/18/97		U(1)	0.11	U(1)	U(1)	0.96	9.4	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/13/98		U(1)	U(1)	U(1)	U(1)	0.75 J	7.4	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	0.58 J	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		08/27/99		U(1)	U(1)	U(1)	U(1)	0.51 J	5	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.57	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/27/99		U(1)	U(1)	U(1)	U(1)	U(1)	5.4	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.64	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/29/02		U(1)	U(1)	U(1)	U(1)	0.6	4	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/14/02		U(1)	U(1)	U(1)	U(1)	0.6	5	U(1)	U(1)	U(1)	U(1)	1	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/01/03		U(1)	U(1)	U(1)	U(1)	1	7.2	U(1)	U(1)	U(1)	U(1)	0.8 J	U(2)	U(1)	U(1)	U(0.5)	U(1)	0.5 J	U(1)	U(1)	NA	U(1)	3.2	U(1)	U(1)	U(1)	2.5 J	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/09/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.1	13	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	2.5	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/09/04*		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/30/05		NA	U(1)	U(1)	U(1)	0.94	8.8	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	13.9	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/11/06		NA	U(0.5)	U(0.5)	U(0.5)	0.83	12	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.44 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW-09	83-93	08/23/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	2.1	U(5)	U(0.5)	U(2)
(SW-02)		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-10	85-95	11/07/97	U(1)	U(1)	0.13	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	5.1	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	1.4	0.45	U(1)	U(1)	4.3	U(1)	U(1)	6.2
		02/11/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	9	U(1)	U(1)	0.25 J
		08/19/99	U(1)	U(1)	0.35 J	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		12/21/99	U(1)	U(1)	0.42 J	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	0.36 J	NA	NA	0.38 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		03/26/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	18	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	0.7	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		08/13/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	11	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	3	U(1)	U(0.5)	NA
		08/13/02*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/06/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	9.1	NA	NA	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
		05/13/08	U(1)	U(1)	4	U(10)	1.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	35	U(1)	U(1)	U(0.5)	1.6	U(10)	U(0.5)	NA
		11/21/08	U(1)	U(5)	3	U(10)	1.3	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	28	U(1)	U(1)	U(0.5)	1.6	U(10)	U(0.5)	NA
		11/23/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	1.9	U(5)	U(0.5)	U(2)
		05/16/12	U(0.5)	U(0.5)	0.3 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	1.6	U(5)	U(0.5)	U(2)
		12/20/12	U(0.5)	U(0.5)	U(1)	0.43 J	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	9.6	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.86	U(5)	U(0.5)	U(2)
MW-11	160-175	11/16/97	U(1)	U(1)	0.19	U(1)	2.8	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	12	U(1)	U(1)	U(1)	39	0.64	U(1)	U(1)
		02/12/98	U(1)	U(1)	0.19 J	U(1)	6.9	U(1)	U(1)	NA	NA	NA	NA	0.81 J	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	26	U(1)	U(1)	U(1)	50	0.63 J	U(1)	0.9 J
		08/19/99	U(1)	U(1)	0.27 J	U(1)	8.9	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	47	U(1)	U(1)	U(0.5)	51	1.5	U(0.5)	U(1)
		12/21/99	U(1)	U(1)	U(1)	U(1)	2.9	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.47 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	11	0.14 J	U(1)	U(0.5)	17	U(1)	U(0.5)	U(1)
		03/29/02	U(1)	U(1)	U(1)	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	1	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	12	U(1)	U(1)	U(0.5)	34	U(1)	U(0.5)	NA
		08/14/02	U(1)	U(1)	U(1)	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	1	U(1)	U(1)	U(1)	U(1)	U(1)	0.5	16	U(1)	U(1)	U(1)	NA	NA	U(1)	9	U(1)	U(1)	U(0.5)	28	U(1)	U(0.5)	NA
		07/01/03	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	9.1	U(1)	U(1)	NA	U(1)	NA	NA	4.6	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	0.5 J	U(1)	U(0.5)	0.5 J	U(1)	U(0.5)	NA
		07/01/03	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/06/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	9.1	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1.2	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	3	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	44	U(0.5)	U(0.5)	U(0.2)	33	2.1	U(0.2)	NA
		01/27/05	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	0.6	U(1)	U(1)	U(1)	1.2	NA	U(1)	U(1)
		09/07/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(7.1)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.86)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	3.3	NA	NA	U(0.5)	NA	NA	NA	43	U(0.5)	U(0.5)	U(0.5)	34	U(1.5)	U(0.5)	NA
		08/01/07	U(0.5)	U(0.5)	0.29 J	U(0.5)	7.2	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	3.7	NA	NA	U(0.5)	NA	NA	NA	35	U(0.5)	U(0.5)	U(0.5)	48	1.8	U(0.5)	NA
		05/13/08	U(5)	U(5)	U(5)	U(50)	29	U(2.5)	U(5)	U(5)	U(5)	NA	NA	U(5)	U(50)	U(5)	U(50)	U(5)	U(50)	U(50)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	U(5)	U(5)	NA	NA	U(5)	500	U(5)	U(5)	U(2.5)	7.4	U(50)	7	NA
		11/25/08	U(5)	U(25)	U(5)	U(50)	14	U(2.5)	U(5)	U(5)	U(5)	NA	NA	U(5)	U(50)	U(5)	U(50)	U(5)	U(50)	U(50)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	U(5)	U(5)	NA	NA	U(5)	630	U(5)	U(5)	U(2.5)	15	U(50)	3.8	NA
		02/20/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		05/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	2.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	28	U(1)	U(0.5)	U(0.5)	11.6	0.49 J	U(0.5)	U(2)
		09/01/09	U(1)	U(1)	U(2)	U(1)	13.2	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.3 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	45	U(2)	U(1)	U(1)	134	0.9 J	U(1)	U(4)
		09/01/09*	U(1)	U(1)	U(2)	U(1)	12.9	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.2 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	45.4	U(2)	U(1)	U(1)	132	0.9 J	U(1)	U(4)
		11/23/09	U(0.5)	U(0.5)	0.31 J	U(0.5)	2.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	22.6	U(1)	U(0.5)	U(0.5)	12.1	0.57 J	U(0.5)	U(2)
		11/23/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	2.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	23.9	U(1)	U(0.5)	U(0.5)	13.1	0.62 J	U(0.5)	U(2)
		03/01/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.4 J	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		03/01/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.4 J	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/16/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.7	U(1)	U(0.5)	U(0.5)	0.63	U(5)	U(0.5)	U(2)
		05/15/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.22 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	0.85	U(1)	U(0.5)	U(0.5)	1	U(5)	U(0.5)	U(2)
		12/03/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.24 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.32	NA	U(2)	U(1)	NA	U(10)	U(2)	4.2	U(1)	U(0.5)	U(0.5)	2.9	U(5)	U(0.5)	U(2)
		08/28/13	U(0.5)	U(0.5)	U(1)	U(0.5)	1.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	13.2	U(1)	U(0.5)	U(0.5)	13.5	0.21 J	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/01/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.52	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	6.4	U(1)	U(0.5)	U(0.5)	3.9	U(5)	U(0.5)	U(2)
		08/27/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.45 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.2	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	8.5	U(0.5)	U(0.5)	U(0.5)	3	U(0.5)	U(0.5)	NA
MW-12	145-160	11/18/97	U(1)	U(1)	0.36	U(1)	3.6	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	17	0.27	U(1)	U(1)	13	1.6	U(1)	0.35
		02/13/98	U(1)	U(1)	0.25 J	U(1)	2.7	U(1)	U(1)	NA	NA	NA	NA	1.6	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	9	0.45 J	U(1)	U(1)	8.6	0.86 J	U(1)	3.9
		08/27/99	U(1)	U(1)	U(1)	U(1)	1.9	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	0.15 J	0.22 J	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	9.6	0.18 J	U(1)	U(0.5)	8.7	U(1)	U(0.5)	0.37 J
		12/27/99	U(1)	U(1)	U(1)	U(1)	2.2	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	10	U(1)	U(1)	U(0.5)	9.7	2.7	U(0.5)	U(1)
		03/29/02	U(1)	U(1)	U(1)	U(1)	0.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	6	U(1)	U(1)	U(0.5)	8	U(1)	U(0.5)	NA
		08/14/02	U(1)	U(1)	U(1)	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	0.6	NA	U(1)	NA	U(1)	U(1)	0.7	U(1)	U(1)	2	4	1	U(1)	U(1)	U(1)	NA	NA	U(1)	9	1	U(1)	U(0.5)	10	U(1)	U(0.5)	NA
		07/01/03	U(1)	U(1)	U(1)	U(1)	1.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	0.7 J	U(1)	U(1)	U(4)	U(1)	U(1)	1	NA	U(1)	NA	NA	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	6.5	1.1	U(1)	U(0.5)	11	U(1)	U(0.5)	NA
		01/09/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.7	U(0.2)	U(0.5)	U(0.5)	0.5	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	5	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	28	U(0.5)	U(0.5)	U(0.2)	22	2.3	U(0.2)	NA
		01/09/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/30/05	U(1)	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	5.4	U(1)	U(1)	U(1)	16.1	NA	U(1)	U(1)
		09/11/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.1	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	5.1	NA	NA	U(0.5)	NA	NA	NA	28	U(0.5)	U(0.5)	U(0.5)	19	1.9	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW-12	145-160	05/07/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		05/07/08*		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		11/18/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		02/12/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	6.8	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.8	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.7	6.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.76 J	U(0.5)
		08/25/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.69	6.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.87 J	U(0.5)
		11/20/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.75	6.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.9 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/26/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.85	7.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.4 J	U(0.5)
		11/18/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.74	9.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.65 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/18/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.61	5.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.48 J	4.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.75	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/23/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.37 J	2.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.5	NA	NA	NA	4.1 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/01/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.53	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/25/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.53	4.2	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	2.5	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-13	40-60	07/22/98		U(1)	U(1)	U(1)	U(1)	U(1)	1.3	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		10/28/98		U(1)	U(1)	U(1)	U(1)	U(1)	1.7	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/02		U(1)	U(1)	U(1)	U(1)	0.7	6	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/15/02		U(1)	U(1)	U(1)	U(1)	0.7	5	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/15/02*		U(1)	U(1)	U(1)	U(1)	0.6	4	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		09/15/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.34 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
MW-14	40-60	07/22/98		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		10/28/98		U(1)	0.45 J	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/00		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/27/00		U(1)	0.16 J	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/28/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		09/15/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		05/13/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
		11/24/08		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(50)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(10)	U(10)	U(0.5)
MW-15	88-98	09/03/99		U(1)	U(1)	U(1)	U(1)	0.23 J	1.6	U(1)	U(1)	U(1)	U(1)	2.8	U(5)	U(1)	U(1)	0.23 J	U(1)	0.81 J	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	11	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.32 J
(LCW-10)		12/20/99		U(1)	U(1)	U(1)	U(1)	U(1)	2.2	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.56
		03/28/00		U(1)	U(1)	U(1)	U(1)	0.22 J	1.5	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.16 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.45 J
		06/27/00		U(1)	U(1)	U(1)	U(1)	0.2 J	1.2	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	1	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.17 J
		03/25/02		U(1)	U(1)	U(1)	U(1)	U(1)	1	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/12/02		U(1)	U(1)	U(1)	U(1)	U(1)	0.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/12/02*		U(1)	U(1)	U(1)	U(1)	U(1)	0.8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/30/03		U(1)	U(1)	U(1)	U(1)	U(1)	1.4	U(1)	U(1)	U(1)	U(1)	0.5 J	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/06/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.8	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/25/05		NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	3.8	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		01/25/05*		NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/07/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.8)	U(3.9)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	1.2 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/02/07		NA	U(0.5)	U(0.5)	U(0.5)	0.94	3.7	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.22 J
		02/18/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	1.7	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.44 J	0.42 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.4 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/16/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.7	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.51 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/15/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.46 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.4 J	1.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.39 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/16/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.31 J	0.29 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.29 J	NA	NA	NA	4.5 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
MW-16D	88-98	09/03/99		U(1)	U(1)	U(1)	U(1)	0.46 J	3.1	U(1)	U(1)	U(1)	U(1)	0.22 J	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.36 J
		12/20/99		U(1)	U(1)	U(1)	U(1)	U(1)	4.2	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/28/00		U(1)	U(1)	U(1)	U(1)	0.44 J	3.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.27 J
		06/28/00		U(1)	0.15 J	U(1)	U(1)	0.49 J	4.3	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.38 J
		03/26/02		U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	0.74	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/12/02		U(1)	U(1)	U(1)	U(1)	U(1)	0.9	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW-12	145-160	05/07/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	70	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		05/07/08*	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	78	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		11/18/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	180	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/12/09	U(1)	U(5)	U(1)	U(10)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	5.4	U(1)	U(1)	U(0.5)	6.6	U(10)	U(0.5)	NA
		05/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	7	U(1)	U(0.5)	U(0.5)	6.6	U(5)	U(0.5)	U(2)
		08/25/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	5.2	U(1)	U(0.5)	U(0.5)	6.4	U(5)	U(0.5)	U(2)
		11/20/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	4.6	U(1)	U(0.5)	U(0.5)	7.8	U(5)	U(0.5)	U(2)
		02/26/10	U(0.5)	U(0.5)	U(1)	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	4.5	U(1)	U(0.5)	U(0.5)	9	U(5)	U(0.5)	U(2)
		11/18/11	U(0.5)	U(0.5)	U(1)	U(0.5)	2.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	16.2	U(1)	U(0.5)	U(0.5)	14.7	U(5)	U(0.5)	U(2)
		05/18/12	U(0.5)	U(0.5)	U(1)	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	3.4	U(1)	U(0.5)	U(0.5)	7.4	U(5)	U(0.5)	U(2)
		12/03/12	U(0.5)	U(0.5)	U(1)	0.37 J	0.77	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.19	NA	U(2)	U(1)	NA	U(10)	U(2)	4.1	U(1)	U(0.5)	U(0.5)	6.6	U(5)	U(0.5)	U(2)
		08/23/13	U(0.5)	U(0.5)	U(1)	U(0.5)	0.63	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	3.8	U(1)	U(0.5)	U(0.5)	5.6	U(5)	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/01/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	2.5	U(1)	U(0.5)	U(0.5)	4.2	U(5)	U(0.5)	U(2)
		08/25/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.79	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.1)	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	2.9	U(0.5)	U(0.5)	U(0.5)	6.1	U(0.5)	U(0.5)	NA
MW-13	40-60	07/22/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	9	U(1)	U(1)	U(1)	5.1	U(1)	U(1)	U(1)
		10/28/98	U(1)	U(1)	U(1)	U(1)	0.43 J	U(1)	U(1)	NA	NA	NA	NA	3.7	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	14	U(1)	U(1)	U(1)	8	U(1)	U(1)	0.64 J
		03/27/02	U(1)	U(1)	U(1)	U(1)	5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	47	U(1)	U(1)	U(0.5)	34	U(1)	U(0.5)	NA
		08/15/02	U(1)	U(1)	U(1)	U(1)	5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	0.7	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	NA	NA	U(1)	42	U(1)	U(1)	U(0.5)	34	U(1)	U(0.5)	NA
		08/15/02*	U(1)	U(1)	U(1)	U(1)	4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	0.6	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	NA	NA	U(1)	34	U(1)	U(1)	U(0.5)	25	U(1)	U(0.5)	NA
		09/15/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	5.2	NA	NA	U(0.5)	NA	NA	NA	15	U(0.5)	U(0.5)	U(0.5)	9	U(0.5)	U(0.5)	NA
MW-14	40-60	07/22/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	17	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)
		10/28/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	5.5	NA	NA	NA	NA	0.28 J	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	24	U(1)	U(1)	U(1)	0.61 J	U(1)	U(1)	0.97 J
		03/27/00	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.23 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	31	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		06/27/00	U(1)	U(1)	U(1)	U(1)	0.16 J	U(0.5)	NA	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.41 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	65	U(1)	U(1)	U(0.5)	0.26 J	U(1)	U(0.5)	U(1)
		03/28/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	2	U(1)	U(1)	U(1)	NA	NA	U(1)	24	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		09/15/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	1.4	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	2.3	NA	NA	U(0.5)	NA	NA	NA	9.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
		05/13/08	U(1)	U(1)	U(1)	U(10)	3.4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	46	U(1)	U(1)	U(0.5)	3.6	U(10)	U(0.5)	NA
		11/24/08	U(1)	U(5)	U(1)	U(10)	5.9	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	80	U(1)	U(1)	U(0.5)	4.4	U(10)	U(0.5)	NA
MW-15	88-98	09/03/99	U(1)	U(1)	2	U(1)	1.5	U(0.5)	U(1)	U(1)	U(5)	NA	NA	2.8	NA	0.16 J	NA	NA	U(10)	0.81 J	U(1)	0.28 J	4.4	8.8	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	13	14	U(1)	U(0.5)	9.5	U(1)	U(0.5)	13.2
(LCW-10)		12/20/99	U(1)	U(1)	0.89 J	U(1)	0.74 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	1.7 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	29	U(1)	U(1)	U(0.5)	8	U(1)	U(0.5)	U(1)
		03/28/00	U(1)	U(1)	0.73 J	U(1)	0.48 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	18	U(1)	U(1)	U(0.5)	5.6	U(1)	U(0.5)	U(1)
		06/27/00	U(1)	U(1)	0.78 J	U(1)	0.48 J	U(0.5)	NA	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.52 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	14	U(1)	U(1)	U(0.5)	5	U(1)	U(0.5)	U(1)
		03/25/02	U(1)	U(1)	U(1)	U(1)	0.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	0.6	2	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	34	2	U(1)	U(0.5)	5	U(1)	U(0.5)	NA
		08/12/02	U(1)	U(1)	U(1)	U(1)	0.7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	18	U(1)	U(1)	U(0.5)	3	U(1)	U(0.5)	NA
		08/12/02*	U(1)	U(1)	U(1)	U(1)	0.7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	20	U(1)	U(1)	U(0.5)	3	U(1)	U(0.5)	NA
		06/30/03	U(1)	U(1)	U(1)	U(1)	1.1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	0.5 J	NA	U(1)	NA	NA	1.8 J	U(1)	U(1)	U(1)	NA	NA	U(1)	30	0.5 J	U(1)	U(0.5)	7	U(1)	U(0.5)	NA
		01/06/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.6	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	1.1	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	36	U(0.5)	U(0.5)	U(0.2)	7.8	U(0.5)	U(0.2)	NA
		01/25/05	U(1)	U(1)	U(1)	U(1)	0.42	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	12.8	U(1)	U(1)	U(1)	2.4	NA	U(1)	U(1)
		01/25/05*	U(1)	U(1)	U(1)	U(1)	0.48	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	13.3	U(1)	U(1)	U(1)	2.3	NA	U(1)	U(1)
		09/07/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.74)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	2.6	NA	NA	U(0.5)	NA	NA	NA	25	U(0.5)	U(0.5)	U(0.5)	U(7.9)	U(0.5)	U(0.5)	NA
		08/02/07	U(0.5)	U(0.5)	0.36 J	U(0.5)	2.1	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	2.7	NA	NA	U(0.5)	NA	NA	NA	32	0.5	U(0.5)	U(0.5)	8.2	U(0.5)	U(0.5)	NA
		02/18/09	U(1)	U(5)	U(1)	U(10)	1.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	13	U(1)	U(1)	U(0.5)	4.7	U(10)	U(0.5)	NA
		05/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	21.6	U(1)	U(0.5)	U(0.5)	4.2	U(5)	U(0.5)	U(2)
		08/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.46 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	4.8	U(1)	U(0.5)	U(0.5)	2.1	U(5)	U(0.5)	U(2)
		11/16/11	U(0.5)	U(0.5)	U(1)	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	19.6	U(1)	U(0.5)	U(0.5)	5.6	U(5)	U(0.5)	U(2)
		05/15/12	U(0.5)	U(0.5)	0.35 J	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	21.5	U(1)	U(0.5)	U(0.5)	6.4	U(5)	U(0.5)	U(2)
		12/03/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.95	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	2.5	NA	U(2)	U(1)	NA	U(10)	U(2)	15.2	U(1)	U(0.5)	U(0.5)	4	U(5)	U(0.5)	U(2)
		08/16/13	U(0.5)	U(0.5)	U(1)	U(0.5)	0.76	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	13.1	U(1)	U(0.5)	U(0.5)	3.7	U(5)	U(0.5)	U(2)
MW-16D	88-98	09/03/99	U(1)	U(1)	0.35 J	0.22 J	1.1	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	0.62 J	U(1)	U(1)	0.2 J	0.38 J	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	15	0.38 J	U(1)	U(0.5)	11	U(1)	U(0.5)	0.58 J
		12/20/99	U(1)	U(1)	U(1)	U(1)	1.3	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.71 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	28	U(1)	U(1)	U(0.5)	17	U(1)	U(0.5)	U(1)
		03/28/00	U(1)	U(1)	0.33 J	U(1)	1.1	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	25	U(1)	U(1)	U(0.5)	15	U(1)	U(0.5)	U(1)
		06/28/00	U(1)	U(1)	0.37 J	U(1)	1.3	U(0.5)	NA	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.43 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	27	U(1)	U(1)	U(0.5)	17	U(1)	U(0.5)	U(1)
		03/26/02	U(1)	U(1)	U(1)	U(1)	0.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	5	U(1)	U(1)	U(1)	NA	NA	U(1)	20	U(1)	U(1)	U(0.5)	13	U(1)	U(0.5)	NA
		08/12/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	4	U(1)	U(1)	U(0.5)	2	U(1)	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW-16D	88-98	07/01/03		U(1)	U(1)	U(1)	U(1)	U(1)	3.8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1.5	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/13/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	1.6	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/13/04*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/25/05		NA	U(1)	U(1)	U(1)	U(1)	2.7	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/05/06		NA	U(0.5)	U(0.5)	U(0.5)	0.63	4.1	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	1.2 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/02/07		NA	U(0.5)	U(0.5)	U(0.5)	0.68	3.5	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.18 J
		02/18/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/18/09*	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.2 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/23/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/17/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.99	2.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.54 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.57	1.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.44 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.33 J	0.75	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.32 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/15/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.23 J	0.57	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.2 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/01/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.39 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.13 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
MW-16S	50-70	09/03/99		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	0.26 J	U(1)	U(1)	0.18 J	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/20/99		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/27/00		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/27/00		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		09/05/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
MW-17D	92-102	08/27/99		U(1)	0.18 J	U(1)	U(1)	0.35 J	3.4	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
(LCW-08)		12/21/99		U(1)	U(1)	U(1)	U(1)	0.24 J	2.3	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.69	U(1)	U(1)	0.36 J	U(1)	U(1)	NA	U(0.5)
		03/27/00		U(1)	U(1)	U(1)	U(1)	0.19 J	1.9	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	1	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/27/00		U(1)	0.14 J	U(1)	U(1)	0.38 J	3.3	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.45 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/29/02		U(1)	U(1)	U(1)	U(1)	U(1)	1	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/12/02		U(1)	U(1)	U(1)	U(1)	U(1)	0.6	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/01/03		U(1)	U(1)	U(1)	U(1)	U(1)	1.9	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	0.8 J	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/06/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.8	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/25/05		NA	U(1)	U(1)	U(1)	U(1)	1.6	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/06/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.57 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/31/07		NA	U(0.5)	U(0.5)	U(0.5)	0.19 J	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/18/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/24/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.21 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/01/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.28 J	U(0.5)
		11/16/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/15/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.3 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/13/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.75	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.14 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/15/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.73	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.18	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-17S	52-72	08/27/99		U(1)	0.25 J	U(1)	U(1)	0.17 J	3.1	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/20/99		U(1)	0.48 J	U(1)	U(1)	0.39 J	5.9	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/28/00		U(1)	0.21 J	U(1)	U(1)	0.27 J	3.5	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/28/00		U(1)	0.24 J	U(1)	U(1)	0.23 J	1.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		09/06/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/31/07		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
MW-18D	87-97	08/27/99		U(1)	0.33 J	U(1)	U(1)	1.3	9.9	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/20/99		U(1)	U(1)	U(1)	U(1)	1.5	12	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/26/02		U(1)	U(1)	U(1)	U(1)	U(1)	0.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(0.94)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/12/02		U(1)	U(1)	U(1)	U(1)	U(1)	1	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		06/30/03		U(1)	U(1)	U(1)	U(1)	0.7 J	4.8	U(1)	U(1)	U(1)	U(1)	1	U(2)	U(1)	U(1)	U(0.5)	U(1)	0.6 J	U(1)	U(1)	NA	U(1)	1.3	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/07/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	8.5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	2.4	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW-16D	88-98	07/01/03	U(1)	U(1)	U(1)	U(1)	1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	5.3	U(1)	U(1)	U(1)	NA	NA	U(1)	18	0.5 J	U(1)	U(0.5)	14	U(1)	U(0.5)	NA
		01/13/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	5.3	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	19	U(0.5)	U(0.5)	U(0.2)	13	U(0.5)	U(0.2)	NA
		01/13/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/25/05	U(1)	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	19.8	U(1)	U(1)	U(1)	13.3	NA	U(1)	U(1)
		09/05/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.7	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.7	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	3.6	NA	NA	U(0.5)	NA	NA	NA	28	U(0.5)	U(0.5)	U(0.5)	19	U(0.5)	U(0.5)	NA
		08/02/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.7	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	0.18 J	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	0.12 J	0.52	3.7	NA	NA	U(0.5)	NA	NA	NA	28	2.2	U(0.5)	U(0.5)	17	U(0.5)	U(0.5)	NA
		02/18/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	1.6	U(1)	U(1)	U(0.5)	1.6	U(10)	U(0.5)	NA
		02/18/09*	U(1)	U(5)	U(1)	U(10)	1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	1.7	U(1)	U(1)	U(0.5)	2	U(10)	U(0.5)	NA
		05/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.3	U(1)	U(0.5)	U(0.5)	0.72	U(5)	U(0.5)	U(2)
		08/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.6	U(1)	U(0.5)	U(0.5)	1.1	U(5)	U(0.5)	U(2)
		11/23/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	3.9	U(1)	U(0.5)	U(0.5)	2.4	U(5)	U(0.5)	U(2)
		11/17/11	U(0.5)	U(0.5)	U(1)	U(0.5)	1.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	18.4	U(1)	U(0.5)	U(0.5)	9.4	U(5)	U(0.5)	U(2)
		05/25/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.99	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	2.9 J	U(2)	10.1	U(1)	U(0.5)	U(0.5)	5.4	U(5)	U(0.5)	U(2)
		12/03/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.73	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	2.1	NA	U(2)	U(1)	NA	U(10)	U(2)	6.8	U(1)	U(0.5)	U(0.5)	3.4	U(5)	U(0.5)	U(2)
		08/15/13	U(0.5)	U(0.5)	U(1)	U(0.5)	0.77	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	4.3	U(1)	U(0.5)	U(0.5)	2.8	U(5)	U(0.5)	U(2)
		04/01/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.32 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	4.4	U(1)	U(0.5)	U(0.5)	2.5	U(5)	U(0.5)	U(2)
MW-16S	50-70	09/03/99	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	0.63 J	U(1)	U(1)	0.14 J	0.31 J	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	0.25 J	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	0.45 J
		12/20/99	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.67 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		03/27/00	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.27 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		06/27/00	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	NA	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.37 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	0.56 J	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		09/05/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	11	NA	NA	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
MW-17D	92-102	08/27/99	U(1)	U(1)	0.42 J	U(1)	1.5	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	8.7	0.14 J	U(1)	U(0.5)	27	U(1)	U(0.5)	U(1)
(LCW-08)		12/21/99	U(1)	U(1)	2.2	U(1)	1	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	1.2 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	5.4	0.2 J	U(1)	U(0.5)	15	U(1)	U(0.5)	U(1)
		03/27/00	U(1)	U(1)	0.49 J	U(1)	0.71 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	5.2	0.22 J	U(1)	U(0.5)	11	U(1)	U(0.5)	U(1)
		06/27/00	U(1)	U(1)	0.24 J	U(1)	2	U(0.5)	NA	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.38 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	9.8	U(1)	U(1)	U(0.5)	26	U(1)	U(0.5)	U(1)
		03/29/02	U(1)	U(1)	U(1)	U(1)	0.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	2	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	2	U(1)	U(1)	U(1)	NA	NA	U(1)	6	U(1)	U(1)	U(0.5)	9	U(1)	U(0.5)	NA
		08/12/02	U(1)	U(1)	U(1)	U(1)	0.6	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	0.9	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	3	U(1)	U(1)	U(0.5)	7	U(1)	U(0.5)	NA
		07/01/03	U(1)	U(1)	U(1)	U(1)	2.7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	4.4	U(1)	U(1)	U(0.5)	22	U(1)	U(0.5)	NA
		01/06/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	3	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	3	U(0.5)	U(0.5)	U(0.2)	12	U(0.5)	U(0.2)	NA
		01/25/05	U(1)	U(1)	U(1)	U(1)	1.6	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	7.6	U(1)	U(1)	U(1)	17.4	NA	U(1)	U(1)
		09/06/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	1.9	NA	NA	U(0.5)	NA	NA	NA	4.6	U(0.5)	U(0.5)	U(0.5)	13	U(0.5)	U(0.5)	NA
		07/31/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.5	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	1.8	NA	NA	U(0.5)	NA	NA	NA	5.8	U(0.5)	0.081 J	U(0.5)	18	U(0.5)	U(0.5)	NA
		02/18/09	U(1)	U(5)	U(1)	U(10)	1.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	2.2	U(1)	U(1)	U(0.5)	8.2	U(10)	U(0.5)	NA
		05/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	4.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	5.1	U(1)	U(0.5)	U(0.5)	16.7	U(5)	U(0.5)	U(2)
		08/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	2.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.79	U(1)	U(0.5)	U(0.5)	3.9	U(5)	U(0.5)	U(2)
		11/24/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.26 J	U(1)	U(0.5)	U(0.5)	4.5	U(5)	U(0.5)	U(2)
		03/01/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.48 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	1.9	U(5)	U(0.5)	U(2)
		11/16/11	U(0.5)	U(0.5)	U(1)	U(0.5)	3.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	3.7	U(1)	U(0.5)	U(0.5)	20.1	U(5)	U(0.5)	U(2)
		05/15/12	U(0.5)	U(0.5)	U(1)	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.1	U(1)	U(0.5)	U(0.5)	6.8	U(5)	U(0.5)	U(2)
		12/13/12	U(0.5)	U(0.5)	U(1)	U(0.5)	2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.99	NA	U(2)	U(1)	NA	7.4 J	U(2)	2.5	U(1)	U(0.5)	U(0.5)	9.6	U(5)	U(0.5)	U(2)
		08/15/13	U(0.5)	U(0.5)	U(1)	U(0.5)	2.8	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	2.9	U(1)	U(0.5)	U(0.5)	9.1	U(5)	U(0.5)	U(2)
		04/02/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.77	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	0.38 J	U(1)	U(0.5)	U(0.5)	3.1	U(5)	U(0.5)	U(2)
		08/27/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.29 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.79	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	0.41 J	U(0.5)	U(0.5)	U(0.5)	1.6	U(0.5)	U(0.5)	NA
MW-17S	52-72	08/27/99	U(1)	U(1)	0.38 J	U(1)	0.41 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	14	U(1)	U(1)	U(0.5)	14	U(1)	U(0.5)	U(1)
		12/20/99	U(1)	U(1)	0.38 J	U(1)	1.1	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.52 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	21	U(1)	U(1)	U(0.5)	23	U(1)	U(0.5)	U(1)
		03/28/00	U(1)	U(1)	0.22 J	U(1)	0.76 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	13	U(1)	U(1)	U(0.5)	16	U(1)	U(0.5)	U(1)
		06/28/00	U(1)	U(1)	U(1)	U(1)	0.62 J	U(0.5)	NA	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.52 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	14	U(1)	U(1)	U(0.5)	15	U(1)	U(0.5)	U(1)
		09/06/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	15	NA	NA	U(0.5)	NA	NA	NA	4	U(0.5)	U(0.5)	U(0.5)	1.1	U(0.5)	U(0.5)	NA
		07/31/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	15	NA	NA	U(0.5)	NA	NA	NA	3.9	U(0.5)	U(0.5)	U(0.5)	1.6	U(0.5)	U(0.5)	NA
MW-18D	87-97	08/27/99	U(1)	U(1)	0.27 J	U(1)	0.89 J	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	2.5	U(1)	U(1)	U(0.5)	18	U(1)	U(0.5)	U(1)
		12/20/99	U(1)	U(1)	U(1)	U(1)	1	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.7 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	2.3	U(1)	U(1)	U(0.5)	18	U(1)	U(0.5)	U(1)
		03/26/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	0.8	U(1)	U(0.5)	NA
		08/12/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	0.6	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	0.9	U(1)	U(0.5)	NA
		06/30/03	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	0.8 J	U(1)	U(1)	U(4)	U(1)	U(1)	1.4	NA	U(1)	NA	NA	5.4	U(1)	U(1)	U(1)	NA	NA	U(1)	2.1	1.4	U(1)	U(0.5)	5.5	U(1)	U(0.5)	NA
		01/07/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.7	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	8.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	2.3	U(0.5)	U(0.5)	U(0.2)	10	U(0.5)	U(0.2)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW-18D	87-97	01/07/04*		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/06/06		NA	U(0.5)	U(0.5)	U(0.5)	1.2	8.3	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.99 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		07/31/07		NA	U(0.5)	U(0.5)	U(0.5)	1.1	6.3	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/11/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/11/09	HS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.4 J	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	2.8 J	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		06/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.41 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/16/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.55	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	NA	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/22/11	HS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.61 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/15/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.63	2.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.4 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/04/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.27 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.36 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/19/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.28 J	0.93	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.21 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18S	52-72	08/27/99		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/20/99		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/26/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(0.94)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/12/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/27/05		NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/06/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		11/16/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/15/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/04/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/19/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	0.29 J	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/23/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.53)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
MW-19	52-72	08/27/99		U(1)	87	U(1)	3.7	41	390	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	1.4	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
(SW-02)		12/22/99		U(1)	98	U(1)	3.1	44	340	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	1.2	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	0.13 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/28/02		U(1)	8	U(1)	1	16	130	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.4 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/28/02*		U(1)	8	U(1)	1	16	140	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.4 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/13/02		U(1)	8	U(1)	1	15	190	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.5	U(1)	U(1)	U(1)	U(1)	NA	U(1)	50	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	1
		06/30/03		U(1)	2.5	U(1)	1.6	37	440	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	1.1	U(1)	U(1)	U(1)	U(1)	NA	U(1)	61	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/07/04		U(0.5)	0.9	U(0.5)	1.6	31	450	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	1	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	77	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/07/04*		U(0.5)	0.7	U(0.5)	1.5	31	460	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	1	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	81	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/07/04		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/28/05		NA	U(1)	U(1)	1.6	40.3	304	NA	NA	NA	NA	NA	NA	NA	NA	1.1	U(1)	NA	NA	NA	NA	NA	112	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/11/06		NA	0.6	U(0.5)	U(0.5)	4.4	70	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	1.8 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		09/11/06*		NA	0.58	U(0.5)	U(0.5)	4.6	67	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	2.8	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/02/07		NA	0.83	U(0.5)	U(0.5)	13	160	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	6.8	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/02/07*		NA	0.83	U(0.5)	U(0.5)	13	160	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	7.7	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/12/09	HS	U(1)	U(1)	U(1)	U(1)	12	82	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	47	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/27/09	HS	NA	U(2.5)	U(2.5)	1.5 J	33.1	U(2.5)	NA	U(25)	NA	U(25)	U(25)	U(50)	U(5)	U(2.5)	U(2.5)	U(2.5)	U(25)	U(2.5)	U(5)	NA	U(2.5)	96.4	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
		09/01/09	HS	NA	U(2.5)	U(2.5)	1.4 J	32	U(2.5)	NA	U(25)	NA	U(25)	U(25)	U(50)	U(5)	U(2.5)	U(2.5)	U(2.5)	U(25)	U(2.5)	U(5)	NA	U(2.5)	115	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
		11/24/09	HS	NA	U(2.5)	U(2.5)	1.4 J	28.9	2 J	NA	U(25)	NA	U(25)	U(25)	U(50)	U(5)	U(2.5)	U(2.5)	U(2.5)	U(25)	U(2.5)	U(5)	NA	U(2.5)	87.5	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
		11/18/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.1	10.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.6	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/21/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.8	47.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	8.4	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/18/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.1	16.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/05/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	5.6	74.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	6.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/28/13	HS	NA	U(0.5)	U(0.5)	0.99	16.9	147	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.64	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/02/14	HS	NA	U(1.3)	U(1.3)	1.3	18.8	78.7	NA	U(5)	NA	U(5)	U(5)	U(5)	U(2.5)	U(1.3)	0.82 J	U(1.3)	U(5)	U(1.3)	U(2.5)	NA	U(1.3)	34.7	NA	NA	NA	U(50)	U(25)	U(13)	U(2.5)	NA	U(2.5)	U(1.3)	U(2.5)	U(13)	U(2.5)	U(1.3)
MW6-09	130-150	09/23/02		U(1)	0.6	U(1)	U(1)	2	7	U(1)	U(1)	U(1)	U(1)	4	U(2)	U(1)	U(1)	U(0.5)	U(1)	2	U(1)	U(1)	NA	U(1)	3	U(1)	U(1)	U(1)	U(4)	NA	NA	8	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.3
		09/23/02*		U(1)	0.6	U(1)	U(1)	1	6	U(1)	U(1)	U(1)	U(1)	4	U(2)	U(1)	U(1)	U(0.5)	U(1)	2	U(1)	U(1)	NA	U(1)	3	U(1)	U(1)	U(1)	U(4)	NA	NA	8	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.3
		11/18/02		U(1)	U(1)	U(1)	U(1)	2	6	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.36
		11/18/02*		U(1)	0.5	U(1)	U(1)	2	6	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.35
		11/18/02		U(1)	0.6	U(1)	U(1)	2	6	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.34)
		07/08/03		U(1)	0.6 J	U(1)	U(1)	2	6.2	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	3.3	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW-18D	87-97	01/07/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/06/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.73	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	6.1	NA	NA	U(0.5)	NA	NA	NA	3	U(0.5)	U(0.5)	U(0.5)	6.6	U(0.5)	U(0.5)	NA
		07/31/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.67	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	4.3	NA	NA	U(0.5)	NA	NA	NA	1.8	U(0.5)	U(0.5)	U(0.5)	6.6	U(0.5)	U(0.5)	NA
		02/11/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/11/09	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(4)	U(2)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.6	U(0.5)	U(0.5)	NA
		06/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.39 J	U(5)	U(0.5)	U(2)
		11/16/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.36 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.91	U(1)	U(0.5)	U(0.5)	4.1	U(5)	U(0.5)	U(2)
		11/22/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/15/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.39 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.8	U(1)	U(0.5)	U(0.5)	5.3	U(5)	U(0.5)	U(2)
		12/04/12	U(0.5)	U(0.5)	U(1)	0.38 J	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	2.8	NA	U(2)	U(1)	NA	U(10)	U(2)	0.4 J	U(1)	U(0.5)	U(0.5)	1.2	U(5)	U(0.5)	U(2)
		08/19/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	0.51	U(1)	U(0.5)	U(0.5)	2.3	U(5)	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-18S	52-72	08/27/99	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		12/20/99	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.78 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)
		03/26/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		08/12/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		01/27/05	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)
		09/06/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	3.9	NA	NA	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
		11/16/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/15/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	2.4 J	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/04/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	7	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/19/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/23/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
MW-19	52-72	08/27/99	U(1)	U(1)	0.91 J	U(1)	16	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	40	U(1)	0.34 J	U(0.5)	170	0.38 J	U(0.5)	U(1)
(SW-02)		12/22/99	U(1)	U(1)	0.97 J	U(1)	16	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	0.29 J	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	51	0.15 J	0.53 J	U(0.5)	200	0.63 J	U(0.5)	U(1)
		03/28/02	U(1)	U(1)	0.8	U(1)	6	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	9	U(1)	U(1)	U(1)	NA	NA	U(1)	21	U(1)	U(1)	U(0.5)	80	U(1)	U(0.5)	NA
		03/28/02*	U(1)	U(1)	0.8	U(1)	6	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	9	U(1)	U(1)	U(1)	NA	NA	U(1)	24	U(1)	U(1)	U(0.5)	90	U(1)	U(0.5)	NA
		08/13/02	U(1)	U(1)	0.9	U(1)	6	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	0.6	10	U(1)	U(1)	U(1)	NA	NA	U(1)	22	U(1)	U(1)	U(0.5)	130	U(1)	U(0.5)	NA
		06/30/03	U(1)	U(1)	1.3	U(1)	9.4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	0.5 J	NA	U(1)	NA	NA	13	U(1)	U(1)	U(1)	NA	NA	U(1)	21	0.6 J	U(1)	U(0.5)	380	0.5 J	U(0.5)	NA
		01/07/04	U(0.5)	U(0.5)	1.2	U(0.5)	8.5	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	14	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	23	U(0.5)	U(0.5)	U(0.2)	490	U(0.5)	U(0.2)	NA
		01/07/04*	U(0.5)	U(0.5)	1.2	U(0.5)	8.1	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	13	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	22	U(0.5)	U(0.5)	U(0.2)	490	U(0.5)	U(0.2)	NA
		01/07/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/28/05	U(1)	U(1)	1.3	U(1)	10.7	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	22.8	U(1)	0.59	U(1)	351	NA	U(1)	U(1)
		09/11/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.1	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	10	NA	NA	U(0.5)	NA	NA	NA	9.6	U(0.5)	U(0.5)	U(0.5)	42	U(0.5)	U(0.5)	NA
		09/11/06*	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.1	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	10	NA	NA	U(0.5)	NA	NA	NA	9.4	U(0.5)	U(0.5)	U(0.5)	38	U(0.5)	U(0.5)	NA
		08/02/07	U(0.5)	U(0.5)	0.71	U(0.5)	8.8	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	0.4 J	1.4	NA	NA	NA	U(0.5)	U(0.5)	6.7	NA	NA	U(0.5)	NA	NA	NA	35	0.58	0.21 J	U(0.5)	140	0.26 J	U(0.5)	NA
		08/02/07*	U(0.5)	U(0.5)	0.74	U(0.5)	9.5	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	1.1	NA	NA	NA	U(0.5)	U(0.5)	7.1	NA	NA	U(0.5)	NA	NA	NA	35	0.5	0.24 J	U(0.5)	150	U(0.5)	U(0.5)	NA
		02/12/09	U(1)	U(5)	U(1)	U(10)	3.7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	4.5	U(1)	U(1)	U(1)	NA	NA	U(1)	4	U(1)	U(1)	U(0.5)	86	U(10)	U(0.5)	NA
		05/27/09	U(2.5)	U(2.5)	U(5)	U(2.5)	7.1	U(2.5)	U(5)	U(5)	U(2.5)	U(25)	NA	U(5)	U(50)	U(5)	U(100)	U(5)	U(50)	U(25)	U(25)	NA	NA	NA	9	NA	U(25)	U(5)	NA	U(50)	U(25)	17	U(5)	U(2.5)	U(2.5)	294	U(25)	U(2.5)	U(10)
		09/01/09	U(2.5)	U(2.5)	U(5)	U(2.5)	7.7	U(2.5)	U(5)	U(5)	U(2.5)	U(25)	NA	U(5)	U(50)	U(5)	U(100)	U(5)	U(50)	U(25)	U(25)	NA	NA	NA	9.5	NA	U(25)	U(5)	NA	U(50)	U(25)	14.7	U(5)	U(2.5)	U(2.5)	254	U(25)	U(2.5)	U(10)
		11/24/09	U(2.5)	U(2.5)	U(5)	U(2.5)	7.9	U(2.5)	U(5)	U(5)	U(2.5)	U(25)	NA	U(5)	U(50)	U(5)	U(100)	U(5)	U(50)	U(25)	U(25)	NA	NA	NA	9.8	NA	U(25)	U(5)	NA	U(50)	U(25)	15.9	U(5)	U(2.5)	U(2.5)	285	U(25)	U(2.5)	U(10)
		11/18/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.78	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.3	U(1)	U(0.5)	U(0.5)	19.5	U(5)	U(0.5)	U(2)
		11/21/11	U(0.5)	U(0.5)	0.61 J	U(0.5)	1.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	6.4	U(1)	U(0.5)	U(0.5)	34.3	U(5)	U(0.5)	U(2)
		05/18/12	U(0.5)	U(0.5)	2.3	U(0.5)	0.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	2.9	U(1)	U(0.5)	U(0.5)	11.9	U(5)	U(0.5)	U(2)
		12/05/12	U(0.5)	U(0.5)	0.66 J	U(0.5)	2.6	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.35 J	U(10)	U(5)	U(2)	NA	NA	NA	9.2	NA	U(2)	U(1)	NA	U(10)	U(2)	8.1	U(1)	U(0.5)	U(0.5)	43.1	U(5)	U(0.5)	U(2)
		08/28/13	U(0.5)	U(0.5)	0.85 J	U(0.5)	4.7	U(0.5)	6.6	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	10.4	U(1)	0.4 J	U(0.5)	120	U(5)	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/02/14	U(1.3)	U(1.3)	0.89 J	U(1.3)	5.7	U(1.3)	U(2.5)	U(2.5)	U(1.3)	U(5)	NA	U(2.5)	U(25)	U(2.5)	U(25)	U(2.5)	U(25)	U(13)	U(5)	NA	NA	NA	NA	NA	U(5)	U(2.5)	NA	U(25)	U(5)	8.9	U(2.5)	U(1.3)	U(1.3)	113	U(13)	U(1.3)	U(5)
MW6-09	130-150	09/23/02	U(1)	U(1)	0.5	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	5	1	U(1)	U(4)	0.5	U(1)	5	U(1)	U(1)	19	28	3	U(1)	U(1)	U(1)	NA	NA	U(1)	22	21	U(1)	U(0.5)	9	U(1)	U(0.5)	NA
		09/23/02*	U(1)	U(1)	0.5	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	5	1	U(1)	U(4)	U(1)	U(1)	5	U(1)	U(1)	19	27	3	U(1)	U(1)	U(1)	NA	NA	U(1)	22	21	U(1)	U(0.5)	9	U(1)	U(0.5)	NA
		11/18/02	U(1)	U(1)	0.5	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	1	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(35)	U(1)	U(1)	U(0.5)	U(8)	U(1)	U(0.5)	NA
		11/18/02*	U(1)	U(1)	0.5	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	34	U(1)	U(1)	U(0.5)	8	1	U(0.5)	NA
		11/18/02	U(1)	U(1)	0.5	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	1	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	37	U(1)	U(1)	U(0.5)	8	U(1)	U(0.5)	NA
		07/08/03	U(1)	U(1)	U(1)	U(1)	2.7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	1.2	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	3.7	U(1)	U(1)	U(1)	NA	NA	U(1)	33	U(1)	U(1)	U(0.5)	8.5	U(1)	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-09	130-150	01/09/04		U(0.5)	0.5	U(0.5)	U(0.5)	1.3	4.9	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	3.4	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	0.3
		01/25/05		NA	U(1)	U(1)	U(1)	1	4	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	0.41
		09/11/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/01/07		NA	U(0.5)	U(0.5)	U(0.5)	0.96	2.9	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.38 J
		02/11/09	LF	U(1)	U(1)	U(1)	U(1)	1.3	3.4	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/11/09	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.9	2.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	1.6	U(0.5)	U(0.5)	U(0.5)	2 J	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		05/28/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.1	1.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.8 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/28/09*	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.1	0.74	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/24/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	1	2.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.9 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.92	2.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/02/10	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.86	2.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/18/11	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/18/11*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/16/12	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.83	2.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.39 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/16/12*		NA	U(0.5)	U(0.5)	U(0.5)	0.89	2.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.28 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/07/12	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.63	1.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.31 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/07/12*	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.61	1.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.34 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/13	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.72	1.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	2.9	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/13*	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.85	1.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.36 J	NA	NA	NA	6.4 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/02/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.93	1.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.28 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/02/14*	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.99	1.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.28 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/16/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.88	1.4	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.95	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
		09/16/14*	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.82	1.4	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.86	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-10	110-130	09/23/02		U(1)	U(1)	U(1)	U(1)	3	13	U(1)	U(1)	U(1)	U(1)	4	U(2)	U(1)	U(1)	U(0.5)	U(1)	2	U(1)	U(1)	NA	U(1)	2	U(1)	U(1)	U(1)	U(4)	NA	NA	4	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/14/02		U(1)	U(1)	U(1)	U(1)	U(1)	10	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/14/02*		U(1)	U(1)	U(1)	U(1)	3	10	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/02/03		U(1)	U(1)	U(1)	U(1)	2.5	13	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1.6	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/07/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	7.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/07/04*		NA	NA	NA	NA	NA	NA	NA	NA	0.016	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/27/05		NA	U(1)	U(1)	U(1)	1.6	7.7	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		08/08/07		NA	U(0.5)	U(0.5)	U(0.5)	0.61	2.7	NA	U(0.5)	0.0051	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	12	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/19/09	LF	U(1)	U(1)	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/19/09*	LF	U(1)	U(1)	U(1)	U(1)	U(1)	2.9	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/19/09	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.7	2.9	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	1.4	U(0.5)	U(0.5)	U(0.5)	U(4)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		05/28/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.84	4.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/24/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.98	4.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.8 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/24/09*	LF	NA	U(0.5)	U(0.5)	U(0.5)	1	4.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/27/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	1	4.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/02/10	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.2	4.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/02/10*	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.2	4.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/28/11	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.46 J	2.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.2 J	U(0.5)
		11/28/11*	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.47 J	2.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.98)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/12	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.35 J	1.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.23 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/12*		NA	U(0.5)	U(0.5)	U(0.5)	0.35 J	1.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.35 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/06/12	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.35 J	1.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.2 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/22/13	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.44 J	2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.3 J	NA	NA	NA	4.5 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/17/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.57	2.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.23 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.92	3	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.81	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-11	145-165	09/23/02		U(1)	0.6	U(1)	U(1)	8	80	U(1)	U(1)	U(1)	U(1)	4	U(2)	U(1)	U(1)	U(0.5)	U(1)	2	U(1)	U(1)	NA	U(1)	22	U(1)	U(1)	U(1)	U(4)	NA	NA	3	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/14/02		U(1)	U(1)	U(1)	U(1)	9	60	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.38	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/14/02*		U(1)	0.6	U(1)	U(1)	9	70	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.38	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/09/03		U(1)	U(1)	U(1)	U(1)	9.8	84	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.4 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	27	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/08/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	7.2	90	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.2	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	26	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/08/04		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/27/05		NA	1.3	U(1)	0.36	17	188	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	43.2	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-09	130-150	01/09/04	U(0.5)	U(0.5)	0.5	U(0.5)	2.5	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	0.8	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	4.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	32	U(0.5)	U(0.5)	U(0.2)	7.9	U(0.5)	U(0.2)	NA
		01/25/05	U(1)	U(1)	0.75	U(1)	1.3	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	21.9	U(1)	U(1)	U(1)	6.4	NA	U(1)	U(1)
		09/11/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	5.2	NA	NA	U(0.5)	NA	NA	NA	4.6	U(0.5)	U(0.5)	U(0.5)	1.2	U(0.5)	U(0.5)	NA
		08/01/07	U(0.5)	U(0.5)	0.62	U(0.5)	0.75	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	0.23 J	0.5	NA	NA	NA	U(0.5)	U(0.5)	3.7	NA	NA	U(0.5)	NA	NA	NA	17	U(0.5)	U(0.5)	U(0.5)	5.2	U(0.5)	U(0.5)	NA
		02/11/09	U(1)	U(5)	U(1)	U(10)	1.1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	11	U(1)	U(1)	U(0.5)	5.3	U(10)	U(0.5)	NA
		02/11/09	U(0.5)	U(0.5)	0.4 J	U(0.5)	0.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	0.3 J	U(0.5)	U(4)	U(2)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(1)	3.1	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	19	U(0.5)	U(0.5)	U(0.5)	5.7	U(0.5)	U(0.5)	NA
		05/28/09	U(0.5)	U(0.5)	0.45 J	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	15.4	U(1)	U(0.5)	U(0.5)	4.9	U(5)	U(0.5)	U(2)
		05/28/09*	U(0.5)	U(0.5)	0.4 J	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	14.5	U(1)	U(0.5)	U(0.5)	4.8	U(5)	U(0.5)	U(2)
		08/24/09	U(0.5)	U(0.5)	0.45 J	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	14.2	U(1)	U(0.5)	U(0.5)	5	U(5)	U(0.5)	U(2)
		11/30/09	U(0.5)	U(0.5)	0.46 J	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	12.6	U(1)	U(0.5)	U(0.5)	4.8	U(5)	U(0.5)	U(2)
		03/02/10	U(0.5)	U(0.5)	0.46 J	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	15.2	U(1)	U(0.5)	U(0.5)	5	U(5)	U(0.5)	U(2)
		11/18/11	U(0.5)	U(0.5)	0.39 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.4	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/18/11*	U(0.5)	U(0.5)	0.45 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.6	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/16/12	U(0.5)	U(0.5)	0.39 J	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	14.1	U(1)	U(0.5)	U(0.5)	5	U(5)	U(0.5)	U(2)
		05/16/12*	U(0.5)	U(0.5)	0.42 J	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	15	U(1)	U(0.5)	U(0.5)	5.3	U(5)	U(0.5)	U(2)
		12/07/12	U(0.5)	U(0.5)	0.3 J	U(0.5)	0.77	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3.9	NA	U(2)	U(1)	NA	U(10)	U(2)	10.6	U(1)	U(0.5)	U(0.5)	3.6	U(5)	U(0.5)	U(2)
		12/07/12*	U(0.5)	U(0.5)	0.32 J	U(0.5)	0.79	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3.2	NA	U(2)	U(1)	NA	U(10)	U(2)	10.9	U(1)	U(0.5)	U(0.5)	3.7	U(5)	U(0.5)	U(2)
		08/29/13	U(0.5)	U(0.5)	0.26 J	U(0.5)	0.84	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	10.8	U(1)	U(0.5)	U(0.5)	3.7	U(5)	U(0.5)	U(2)
		08/29/13*	U(0.5)	U(0.5)	0.32 J	U(0.5)	0.81	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	11.8	U(1)	U(0.5)	U(0.5)	4.2	U(5)	U(0.5)	U(2)
		04/02/14	U(0.5)	U(0.5)	0.33 J	U(0.5)	0.99	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	11.3	U(1)	U(0.5)	U(0.5)	4.3	U(5)	U(0.5)	U(2)
		04/02/14*	U(0.5)	U(0.5)	0.34 J	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	11.5	U(1)	U(0.5)	U(0.5)	4.3	U(5)	U(0.5)	U(2)
		09/16/14	U(0.5)	U(0.5)	0.4 J	U(0.5)	0.93	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.2	NA	U(0.5)	U(0.5)	U(0.5)	5.6 J	U(0.5)	9.2	U(0.5)	U(0.5)	U(0.5)	3.9	U(0.5)	U(0.5)	NA
		09/16/14*	U(0.5)	U(0.5)	0.36 J	U(0.5)	0.9	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.4	NA	U(0.5)	U(0.5)	U(0.5)	6.7 J	U(0.5)	8.6	U(0.5)	U(0.5)	U(0.5)	3.6	U(0.5)	U(0.5)	NA
MW6-10	110-130	09/23/02	U(1)	U(1)	U(1)	U(1)	8	U(0.5)	U(1)	U(1)	1	NA	NA	4	4	U(1)	U(4)	U(1)	U(1)	3	U(1)	U(1)	15	22	3	U(1)	U(1)	U(1)	NA	NA	U(1)	45	14	U(1)	U(0.5)	33	U(1)	U(0.5)	NA
		11/14/02	U(1)	U(1)	U(1)	U(1)	8	U(0.5)	U(1)	U(1)	0.9	NA	NA	U(1)	4	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	65	U(1)	U(1)	U(0.5)	33	U(1)	U(0.5)	NA
		11/14/02*	U(1)	U(1)	U(1)	U(1)	7	U(0.5)	U(1)	U(1)	0.9	NA	NA	U(1)	4	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	80	U(1)	U(1)	U(0.5)	41	U(1)	U(0.5)	NA
		07/02/03	U(1)	U(1)	U(1)	U(1)	5.1	U(0.5)	U(1)	U(1)	1.4	NA	NA	U(1)	4.6	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	4	U(1)	U(1)	U(1)	NA	NA	U(1)	47	U(1)	U(1)	U(0.5)	29	U(1)	U(0.5)	NA
		01/07/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4	U(0.2)	U(0.5)	U(0.5)	0.8	NA	NA	U(0.5)	2.9	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	5	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	45	U(0.5)	U(0.5)	U(0.2)	25	U(0.5)	U(0.2)	NA
		01/07/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/27/05	U(1)	U(1)	U(1)	U(1)	3.4	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	37	U(1)	U(1)	U(1)	20.7	NA	U(1)	U(1)
		08/08/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	2.6	0.5	NA	NA	NA	U(0.5)	U(0.5)	2.4	NA	NA	U(0.5)	NA	NA	NA	18	U(0.5)	U(0.5)	U(0.5)	9	U(0.5)	U(0.5)	NA
		02/19/09	U(1)	U(5)	U(1)	U(10)	1.9	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	6.2	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	15	U(1)	U(1)	U(0.5)	8.6	U(10)	U(0.5)	NA
		02/19/09*	U(1)	U(5)	U(1)	U(10)	2.3	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	6.2	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	24	U(1)	U(1)	U(0.5)	12	U(10)	U(0.5)	NA
		02/19/09	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.4	U(0.5)	U(0.5)	U(0.5)	0.5	NA	NA	U(0.5)	1	U(0.5)	U(4)	6.1	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	25	U(0.5)	U(0.5)	U(0.5)	14	U(0.5)	U(0.5)	NA
		05/28/09	U(0.5)	U(0.5)	U(1)	U(0.5)	2.9	U(0.5)	U(1)	U(1)	0.32 J	U(5)	NA	U(1)	1.4 J	U(1)	U(20)	6.7	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	26	U(1)	U(0.5)	U(0.5)	14.2	U(5)	U(0.5)	U(2)
		08/24/09	U(0.5)	U(0.5)	U(1)	U(0.5)	3.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.2 J	U(1)	U(20)	5	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	21.5	U(1)	U(0.5)	U(0.5)	14.7	U(5)	U(0.5)	U(2)
		08/24/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	3.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.2 J	U(1)	U(20)	5.2	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	21.7	U(1)	U(0.5)	U(0.5)	15.1	U(5)	U(0.5)	U(2)
		11/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	3.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.2 J	U(1)	U(20)	2	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	20.5	U(1)	U(0.5)	U(0.5)	15.2	U(5)	U(0.5)	U(2)
		03/02/10	U(0.5)	U(0.5)	U(1)	U(0.5)	3.4	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.1 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	24.5	U(1)	U(0.5)	U(0.5)	16.5	U(5)	U(0.5)	U(2)
		03/02/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	3.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.1 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	24.2	U(1)	U(0.5)	U(0.5)	16.7	U(5)	U(0.5)	U(2)
		11/28/11	U(0.5)	U(0.5)	U(1)	U(0.5)	1.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.65 J	U(1)	U(20)	1.1	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	16.2	U(1)	U(0.5)	U(0.5)	8.7	U(5)	U(0.5)	U(2)
		11/28/11*	U(0.5)	U(0.5)	U(1)	U(0.5)	1.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.68 J	U(1)	U(20)	1.1	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	15.8	U(1)	U(0.5)	U(0.5)	8.4	U(5)	U(0.5)	U(2)
		05/24/12	U(0.5)	U(0.5)	U(1)	U(0.5)	1.4	U(0.5)	U(1)	U(1)	0.27 J	U(2)	NA	U(1)	0.52 J	U(1)	U(10)	3.4	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	12.6	U(1)	U(0.5)	U(0.5)	7.3	U(5)	U(0.5)	U(2)
		05/24/12*	U(0.5)	U(0.5)	U(1)	U(0.5)	1.5	U(0.5)	U(1)	U(1)	0.27 J	U(2)	NA	U(1)	0.54 J	U(1)	U(10)	3.4	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	12.7	U(1)	U(0.5)	U(0.5)	7.2	U(5)	U(0.5)	U(2)
		12/06/12	U(0.5)	U(0.5)	U(1)	U(0.5)	1.4	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	1.2	U(10)	U(5)	U(2)	NA	NA	NA	3.4	NA	U(2)	U(1)	NA	U(10)	U(2)	12.6	U(1)	U(0.5)	U(0.5)	6.8	U(5)	U(0.5)	U(2)
		08/22/13	U(0.5)	U(0.5)	U(1)	0.48 J	1.7	U(0.5)	U(1)	U(1)	0.27 J	U(2)	NA	U(1)	0.67 J	U(1)	U(10)	0.4 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	13.9	U(1)	U(0.5)	U(0.5)	8.9	U(5)	U(0.5)	U(2)
		04/17/14	U(0.5)	U(0.5)	U(1)	U(0.5)	2.3	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.65 J	U(1)	U(10)	0.8 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	15.1	U(1)	U(0.5)	U(0.5)	9.4	U(5)	U(0.5)	U(2)
		09/03/14	U(0.5)	U(0.5)	0.26 J	U(0.5)	3.1	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.87	U(0.5)	U(5)	0.48 J	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.4	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	17	U(0.5)	U(0.5)	U(0.5)	13	U(0.5)	U(0.5)	NA
MW6-11	145-165	09/23/02	U(1)	U(1)	0.5	U(1)	18	U(0.5)	U(1)	U(1)	U(1)	NA	NA	4	3	U(1)	U(4)	U(1)	U(1)	4	U(1)	U(1)	13	20	3	U(1)	U(1)	U(1)	NA	NA	U(1)	50	12	U(1)	U(0.5)	160	2	U(0.5)	NA
		11/14/02	U(1)	U(1)	0.5	U(1)	21	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	50	U(1)	U(1)	U(0.5)	160	3	U(0.5)	NA
		11/14/02*	U(1)	U(1)	0.5	U(1)	21	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	60	0.8	U(1)	U(0.5)	160	2	U(0.5)	NA
		07/09/03	U(1)	U(1)	0.5 J	U(1)	17	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	3.8	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	3.6	U(1)	U(1)	U(1)	NA	NA	U(1)	60	U(1)	U(1)	U(0.5)	230	2.8	U(0.5)	NA
		01/08/04	U(0.5)	U(0.5)	0.5	U(0.5)	9	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	3.1	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	3.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	29	U(0.5)	U(0.5)	U(0.2)	180	2.3	U(0.2)	NA
		01/08/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/27/05	U(1)	U(1)	0.59	U(1)	19.1	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	67.9	U(1)	U(1)	U(1)	248	NA	U(1)	U(1)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-11	145-165	09/11/06		NA	U(0.5)	U(0.5)	U(0.5)	4	52	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	4.2	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		06/02/09	HS	NA	U(1)	U(1)	U(1)	6	65.6	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	17.2	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		08/28/09	HS	NA	U(1)	U(1)	U(1)	8.3	104	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	26.6	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		08/28/09*	HS	NA	U(1)	U(1)	U(1)	8.1	96.1	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	25.9	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		11/19/09	HS	NA	U(1)	U(1)	U(1)	9.5	119	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	29.7	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		02/24/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.7	16.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	9.6	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.44 J	U(0.5)
		02/24/10*	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.7	16.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	9.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.43 J	U(0.5)
		11/16/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	10.4	85.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.5	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	NA	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/22/11	HS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/15/12	HS	NA	U(0.5)	U(0.5)	0.26 J	11	110	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.44 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	10.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/04/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.5	30.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	9.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/19/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.2	11.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/27/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	7.9	84	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.27 J	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	13	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-12	220-240	09/23/02		U(1)	U(1)	U(1)	U(1)	3	28	U(1)	U(1)	U(1)	U(1)	3	U(2)	U(1)	U(1)	0.3	U(1)	2	U(1)	U(1)	NA	U(1)	1	U(1)	U(1)	U(1)	12	NA	NA	3	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/18/02		U(1)	U(1)	U(1)	U(1)	6	50	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.39	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/18/02*		U(1)	U(1)	U(1)	U(1)	5	U(40)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.39	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/21/03		U(1)	U(1)	U(1)	U(1)	3.8	38	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.3 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.1	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/12/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.6	39	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.3	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	2	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/12/04*		U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.6	40	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.3	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	1.9	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/12/04		NA	NA	NA	NA	NA	NA	NA	NA	0.0022	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/28/05		NA	U(1)	U(1)	U(1)	7.9	116	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/12/06		NA	U(0.5)	U(0.5)	U(0.5)	4.2	64	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.51 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		09/12/06*		NA	U(0.5)	U(0.5)	U(0.5)	4	58	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.53 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/03/07		NA	0.12 J	U(0.5)	U(0.5)	5.2	31	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/03/07*		NA	0.11 J	U(0.5)	U(0.5)	5.3	34	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/10/09	LF	U(1)	U(1)	U(1)	U(1)	4	53	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.8	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/01/09	LF	NA	U(0.2)	U(0.2)	U(0.2)	3.3	47.9	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(10)	U(0.2)	U(0.3)	0.37	U(0.3)	U(0.5)	U(0.3)	U(0.3)	NA	U(0.3)	3.1	NA	NA	NA	U(10)	U(10)	U(1)	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	U(1.5)	U(0.2)	U(0.2)
		06/01/09*	LF	NA	U(0.2)	U(0.2)	U(0.2)	3.4	49.1	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(10)	U(0.2)	U(0.3)	U(0.3)	U(0.3)	U(0.5)	U(0.3)	U(0.3)	NA	U(0.3)	2.9	NA	NA	NA	U(10)	U(10)	U(1)	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	U(1.5)	0.28	U(0.2)
		08/28/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	2.6	38.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/20/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	3	43.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.33 J	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.33 J	U(0.5)
		11/20/09*	LF	NA	U(0.5)	U(0.5)	U(0.5)	3	36.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/25/10	LF	NA	U(0.5)	U(0.5)	U(0.5)	2.6	36	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/25/10*	LF	NA	U(0.5)	U(0.5)	U(0.5)	2.9	40.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/23/11	LF	NA	U(0.5)	U(0.5)	U(0.5)	2.3	31.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.76 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/16/12	LF	NA	U(0.5)	U(0.5)	U(0.5)	3.2	51.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.32 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.77	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		01/09/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.2	12.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.7	23	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/04/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	2	26.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.22 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.6	20	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	4.7	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-13	173-183	08/26/02		NA	1.6	U(1)	2.6	39	850	NA	NA	NA	NA	NA	NA	NA	NA	1.7	U(1)	NA	NA	NA	NA	NA	110	NA	NA	NA	U(10)	NA	NA	0.26 J	NA	U(1)	U(1)	U(1)	U(2)	U(1)	0.31 J
		08/26/02*		NA	1.3	U(1)	2.2	33	1200	NA	NA	NA	NA	NA	NA	NA	NA	1.4	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(10)	NA	NA	0.56 J	NA	U(1)	U(1)	U(1)	U(2)	U(1)	0.27 J
		11/21/02		U(1)	U(1)	U(1)	3	80	1500	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.4
		11/21/02*		U(1)	2	U(1)	3	U(1)	1600	U(1)	1	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	2	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	10	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.4
		11/21/02		U(1)	1	U(1)	2	60	1000	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	2	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.3
		07/21/03		U(1)	0.9 J	U(1)	2.4	42	1400	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	1.7	U(1)	U(1)	U(1)	U(1)	NA	U(1)	94	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.3 J
		07/21/03*		U(1)	1	U(1)	2.3	46	1300	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	1.7	U(1)	U(1)	U(1)	U(1)	NA	U(1)	90	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.3 J
		01/08/04		U(0.5)	0.8	U(0.5)	2.3	47	1000	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	1.5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	110	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	0.3
		01/08/04*		NA	NA	NA	NA	NA	NA	NA	NA	0.0053	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/12/06		NA	U(0.5)	U(0.5)	2.1	33	640	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	1.3	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	48	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/06/07		NA	0.31 J	U(0.5)	3.1	50	930	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	2	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	84	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.19 J
		08/06/07*		NA	0.31 J	U(0.5)	2.7	53	890	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	1.8	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	72	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.2 J
		08/06/07		NA	NA	NA	NA	NA	NA	NA	NA	0.0076	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/11/09	LF	U(1)	U(1)	U(1)	2	31	NA	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	1.2	U(1)	U(1)	U(1)	U(1)	NA	U(1)	68	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-11	145-165	09/11/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.3	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	1.8	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	3	NA	NA	U(0.5)	NA	NA	NA	17	U(0.5)	U(0.5)	U(0.5)	140	1.3	U(0.5)	NA
		06/02/09	U(1)	U(1)	U(2)	U(1)	7.5	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.2 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	31.3	U(2)	U(1)	U(1)	124	1.1 J	U(1)	U(4)
		08/28/09	U(1)	U(1)	U(2)	U(1)	13	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.6 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	50.4	U(2)	U(1)	U(1)	149	1.1 J	U(1)	U(4)
		08/28/09*	U(1)	U(1)	U(2)	U(1)	12.7	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.6 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	47	U(2)	U(1)	U(1)	139	1.1 J	U(1)	U(4)
		11/19/09	U(1)	U(1)	U(2)	U(1)	13.8	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	U(20)	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	53.5	U(2)	U(1)	U(1)	187	1.9 J	U(1)	U(4)
		02/24/10	U(0.5)	U(0.5)	U(1)	0.62	2.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	8.3	U(1)	U(0.5)	U(0.5)	34.9	U(5)	U(0.5)	U(2)
		02/24/10*	U(0.5)	U(0.5)	U(1)	0.63	2.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	8.2	U(1)	U(0.5)	U(0.5)	34.6	U(5)	U(0.5)	U(2)
		11/16/11	U(0.5)	U(0.5)	0.7 J	U(0.5)	13	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	3.2 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	43.9	U(1)	U(0.5)	U(0.5)	183	2.7 J	U(0.5)	U(2)
		11/22/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/15/12	U(0.5)	U(0.5)	0.69 J	U(0.5)	12.2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	3.9 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	47	U(1)	0.21 J	U(0.5)	196	3.1 J	U(0.5)	U(2)
		12/04/12	U(0.5)	U(0.5)	U(1)	0.32 J	3	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.81 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	2	NA	U(2)	U(1)	NA	U(10)	U(2)	16.1	U(1)	U(0.5)	U(0.5)	58.1	0.57 J	U(0.5)	U(2)
		08/19/13	U(0.5)	U(0.5)	U(1)	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.59 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	9.8	U(1)	U(0.5)	U(0.5)	28.8	U(5)	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/27/14	U(0.5)	U(0.5)	0.43 J	U(0.5)	14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	2.2	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	48	U(0.5)	0.47 J	U(0.5)	130	1.2	U(0.5)	NA
MW6-12	220-240	09/23/02	U(1)	U(1)	1	U(1)	7	U(0.5)	U(1)	U(1)	0.6	NA	NA	2	0.9	U(1)	U(4)	U(1)	U(1)	3	U(1)	U(1)	13	18	5	U(1)	U(1)	U(1)	NA	NA	U(1)	24	10	U(1)	U(1)	U(0.5)	31	5	U(0.5)	NA
		11/18/02	U(1)	U(1)	1	U(1)	9	U(0.5)	U(1)	U(1)	0.5	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	36	U(1)	U(1)	U(0.5)	37	5	U(0.5)	NA
		11/18/02*	U(1)	U(1)	1	U(1)	8	U(0.5)	U(1)	U(1)	0.6	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	40	U(1)	U(1)	U(0.5)	40	5	U(0.5)	NA
		07/21/03	U(1)	U(1)	1	U(1)	6.7	U(0.5)	U(1)	U(1)	1.3	NA	NA	U(1)	1.1	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	5.3	U(1)	U(1)	U(1)	NA	NA	U(1)	29	U(1)	U(1)	U(0.5)	32	4.8	U(0.5)	NA
		01/12/04	U(0.5)	U(0.5)	1	U(0.5)	6.6	U(0.2)	U(0.5)	U(0.5)	0.6	NA	NA	U(0.5)	0.9	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	5.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	34	U(0.5)	U(0.5)	U(0.2)	30	4.6	U(0.2)	NA
		01/12/04*	U(0.5)	U(0.5)	0.9	U(0.5)	6.5	U(0.2)	U(0.5)	U(0.5)	0.6	NA	NA	U(0.5)	0.8	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	6	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	34	U(0.5)	U(0.5)	U(0.2)	29	4.7	U(0.2)	NA
		01/12/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/28/05	U(1)	U(1)	0.82	U(1)	8.4	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	41.4	U(1)	U(1)	U(1)	47.2	NA	U(1)	U(1)
		09/12/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	7.7	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	0.73	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	5.6	NA	NA	U(0.5)	NA	NA	NA	35	U(0.5)	U(0.5)	U(0.5)	29	3.7	U(0.5)	NA
		09/12/06*	U(0.5)	U(0.5)	U(0.5)	U(0.5)	7	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	5.6	NA	NA	U(0.5)	NA	NA	NA	37	U(0.5)	U(0.5)	U(0.5)	30	3.4	U(0.5)	NA
		08/03/07	U(0.5)	U(0.5)	0.7	U(0.5)	8.6	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	5.8	NA	NA	U(0.5)	NA	NA	NA	23	0.5	U(0.5)	U(0.5)	25	3.7	U(0.5)	NA
		08/03/07*	U(0.5)	U(0.5)	0.73	U(0.5)	8.7	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	0.71	0.5	NA	NA	NA	U(0.5)	U(0.5)	5.6	NA	NA	U(0.5)	NA	NA	NA	24	0.89	0.14 J	U(0.5)	28	3.7	U(0.5)	NA
		02/10/09	U(1)	U(5)	U(1)	U(10)	7.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	33	U(1)	U(1)	U(0.5)	32	U(10)	U(0.5)	NA
		06/01/09	U(0.3)	U(0.3)	0.87	U(0.3)	6.6	U(0.5)	U(0.2)	U(0.2)	0.48	U(0.5)	NA	U(0.3)	0.58	U(0.2)	U(20)	0.62	U(10)	U(0.5)	U(0.5)	NA	NA	NA	NA	NA	U(0.5)	U(0.2)	NA	U(10)	U(0.5)	36.7	U(0.5)	U(0.3)	U(0.2)	29.2	2.8	U(0.3)	U(0.7)
		06/01/09*	U(0.3)	U(0.3)	0.9	U(0.3)	6.8	U(0.5)	U(0.2)	U(0.2)	0.52	U(0.5)	NA	U(0.3)	0.61	U(0.2)	U(20)	0.67	U(10)	U(0.5)	U(0.5)	NA	NA	NA	NA	NA	U(0.5)	U(0.2)	NA	U(10)	U(0.5)	36.5	U(0.5)	U(0.3)	U(0.2)	28.3	2.9	U(0.3)	U(0.7)
		08/28/09	U(0.5)	U(0.5)	0.76 J	U(0.5)	6.3	U(0.5)	U(1)	U(1)	0.37 J	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	32.9	U(1)	U(0.5)	U(0.5)	25.1	2.3 J	U(0.5)	U(2)
		11/20/09	U(0.5)	U(0.5)	0.95 J	U(0.5)	6.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	0.55 J	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	37	U(1)	U(0.5)	U(0.5)	31.5	3.6 J	U(0.5)	U(2)
		11/20/09*	U(0.5)	U(0.5)	1	U(0.5)	6.4	U(0.5)	U(1)	U(1)	0.69	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	34.2	U(1)	U(0.5)	U(0.5)	27	3.7 J	U(0.5)	U(2)
		02/25/10	U(0.5)	U(0.5)	0.79 J	U(0.5)	6	U(0.5)	U(1)	U(1)	0.41 J	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	32.4	U(1)	U(0.5)	U(0.5)	24.8	2.4 J	U(0.5)	U(2)
		02/25/10*	U(0.5)	U(0.5)	0.9 J	U(0.5)	6.8	U(0.5)	U(1)	U(1)	0.44 J	U(5)	NA	U(1)	0.58 J	U(1)	U(20)	0.53 J	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	31.1	U(1)	U(0.5)	U(0.5)	27.2	2.7 J	U(0.5)	U(2)
		11/23/11	U(0.5)	U(0.5)	0.9 J	U(0.5)	5.6	U(0.5)	U(1)	U(1)	0.42 J	U(5)	NA	U(1)	U(10)	U(1)	U(20)	0.62 J	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	33.1	U(1)	U(0.5)	U(0.5)	23.7	2.6 J	U(0.5)	U(2)
		05/16/12	U(0.5)	U(0.5)	1	U(0.5)	7.4	U(0.5)	U(1)	U(1)	0.51	U(2)	NA	U(1)	0.58 J	U(1)	U(10)	0.77 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	45.3	U(1)	U(0.5)	U(0.5)	32.4	4 J	U(0.5)	U(2)
		01/09/13	U(0.5)	U(0.5)	0.43 J	U(0.5)	2.8	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.3 J	U(10)	U(5)	U(2)	NA	NA	NA	2.2	NA	U(2)	U(1)	NA	U(10)	U(2)	14.7	U(1)	U(0.5)	U(0.5)	11.7	0.82 J	U(0.5)	U(2)
		08/29/13	U(0.5)	U(0.5)	0.34 J	U(0.5)	3	U(0.5)	U(1)	U(1)	0.25 J	U(2)	NA	U(1)	0.25 J	U(1)	U(10)	0.32 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	18.4	U(1)	U(0.5)	U(0.5)	13.9	1.1 J	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/04/14	U(0.5)	U(0.5)	0.36 J	U(0.5)	3.3	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.38 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	22.2	U(1)	U(0.5)	U(0.5)	16.2	1.3 J	U(0.5)	U(2)
		08/29/14	U(0.5)	U(0.5)	0.25 J	U(0.5)	2.6	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.88	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	13	U(0.5)	U(0.5)	U(0.5)	11	0.78	U(0.5)	NA
MW6-13	173-183	08/26/02	U(1)	U(2)	2.2	U(2)	6	U(1)	U(1)	NA	NA	NA	NA	0.54 J	NA	NA	U(10)	U(5)	U(1)	NA	NA	NA	NA	NA	8	NA	NA	U(1)	NA	NA	NA	35	0.65 J	0.55 J	U(1)	390	1.8	U(1)	5.8
		08/26/02*	U(1)	U(2)	2	U(2)	5.3	U(1)	U(1)	NA	NA	NA	NA	1	NA	NA	U(10)	U(5)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	33	1.7	0.55 J	U(1)	580	1.6	U(1)	12
		11/21/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	0.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	70	U(1)	0.6	U(0.5)	1000	2	U(0.5)	NA
		11/21/02*	U(1)	U(1)	2	U(1)	10	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	0.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	60	U(1)	0.6	U(0.5)	900	2	U(0.5)	NA
		11/21/02	U(1)	U(1)	2	U(1)	8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	0.8	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	60	U(1)	U(1)	U(0.5)	700	2	U(0.5)	NA
		07/21/03	U(1)	U(1)	2.5	U(1)	8.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	2.8	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	9.5	U(1)	U(1)	U(1)	NA	NA	U(1)	34	U(1)	0.8 J	U(0.5)	700	1.7	1.2	NA
		07/21/03*	U(1)	U(1)	2.2	U(1)	7.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	2.5	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	9.4	U(1)	U(1)	U(1)	NA	NA	U(1)	36	U(1)	0.6 J	U(0.5)	690	1.5	0.8	NA
		01/08/04	U(0.5)	U(0.5)	2.4	U(0.5)	8.4	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	3.9	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	10	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	33	U(0.5)	0.8	U(0.2)	610	1.7	0.4	NA
		01/08/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/12/06	U(0.5)	U(0.5)	1.7	U(0.5)	7.6	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	9.4	NA	NA	U(0.5)	NA	NA	NA	28	U(0.5)	U(0.5)	U(0.5)	340	1.1	U(0.5)	NA
		08/06/07	U(0.5)	U(0.5)	1.9	U(0.5)	11	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	0.19 J	U(0.5)	U(0.5)	U(5)	U(0.5)	1.5	NA	NA	NA	U(0.5)	0.53	10	NA	NA	U(0.5)	NA	NA	NA	46	0.5	0.51	U(0.5)	420	1.1	U(0.5)	NA
		08/06/07*	U(0.5)	U(0.5)	1.8	U(0.5)	10	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	0.2 J	U(0.5)	U(0.5)	U(5)	U(0.5)	1.3	NA	NA	NA	0.12 J	0.55	9.7	NA	NA	U(0.5)	NA	NA	NA	48	0.5	0.38 J	U(0.5)	450	0.97	U(0.5)	NA
		08/06/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		02/11/09	U(1)	U(5)	1.4	U(10)	5.9	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	4.3	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	NA	U(10)	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-13	173-183	02/11/09*	LF	U(1)	U(1)	U(1)	2.4	38	NA	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	1.5	U(1)	U(1)	U(1)	U(1)	NA	U(1)	76	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/11/09	LF	U(0.5)	U(0.5)	U(0.5)	2.1	30	680	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	1.3	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	80	U(0.5)	U(0.5)	U(0.5)	2.8 J	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		06/01/09	LF	NA	U(13)	U(13)	U(13)	47.6	1110	NA	U(13)	NA	U(13)	U(13)	U(130)	U(25)	U(13)	U(13)	U(13)	U(13)	U(13)	U(25)	NA	U(13)	119	NA	NA	NA	U(250)	U(250)	U(130)	U(25)	NA	U(13)	U(13)	U(13)	U(130)	U(25)	U(13)
		08/31/09	LF	NA	U(10)	U(10)	U(10)	50.9	1140	NA	U(100)	NA	U(100)	U(100)	U(200)	U(20)	U(10)	U(10)	U(10)	U(100)	U(10)	U(20)	NA	U(10)	140	NA	NA	NA	U(400)	U(200)	U(100)	U(20)	NA	U(20)	U(10)	U(20)	U(100)	4.2 J	U(10)
		08/31/09*	LF	NA	U(10)	U(10)	U(10)	51.9	1160	NA	U(100)	NA	U(100)	U(100)	U(200)	U(20)	U(10)	U(10)	U(10)	U(100)	U(10)	U(20)	NA	U(10)	139	NA	NA	NA	U(400)	U(200)	U(100)	U(20)	NA	U(20)	U(10)	U(20)	U(100)	5.9 J	U(10)
		11/24/09	LF	NA	U(10)	U(10)	U(10)	56.1	1190	NA	U(100)	NA	U(100)	U(100)	U(200)	U(20)	U(10)	U(10)	U(10)	U(100)	U(10)	U(20)	NA	U(10)	158	NA	NA	NA	U(400)	U(200)	U(100)	U(20)	NA	U(20)	U(10)	U(20)	U(100)	U(20)	U(10)
		11/24/09*	LF	NA	U(10)	U(10)	U(10)	54.6	1040	NA	U(100)	NA	U(100)	U(100)	U(200)	U(20)	U(10)	U(10)	U(10)	U(100)	U(10)	U(20)	NA	U(10)	150	NA	NA	NA	U(400)	U(200)	U(100)	U(20)	NA	U(20)	U(10)	U(20)	U(100)	U(20)	U(10)
		02/26/10	LF	NA	U(10)	U(10)	U(10)	53	1030	NA	U(100)	NA	U(100)	U(100)	U(200)	U(20)	U(10)	U(10)	U(10)	U(100)	U(10)	U(20)	NA	U(10)	154	NA	NA	NA	U(400)	U(200)	U(100)	U(20)	NA	U(20)	U(10)	U(20)	U(100)	U(20)	U(10)
		12/07/11	LF	NA	U(0.5)	U(0.5)	2.2	39	745	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	1.4	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	25	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/22/12	LF	U(0.5)	U(5)	U(5)	U(5)	29.8	556	U(0.5)	U(20)	U(0.5)	U(20)	U(20)	U(20)	U(10)	U(5)	U(5)	U(5)	U(20)	U(5)	U(10)	NA	U(5)	38.1	U(0.5)	U(0.5)	U(0.5)	U(200)	U(100)	U(50)	U(10)	U(0.5)	U(10)	U(5)	U(10)	U(50)	U(10)	U(5)
		12/19/12	LF	U(0.5)	U(5)	U(5)	U(5)	27.6	479	U(0.5)	U(20)	U(0.5)	U(20)	U(20)	U(20)	U(10)	U(5)	U(5)	U(5)	U(20)	U(5)	U(10)	NA	U(5)	25.1	U(0.5)	U(0.5)	U(0.5)	U(200)	U(100)	U(50)	U(10)	U(0.5)	U(10)	U(5)	U(10)	U(50)	U(10)	U(5)
		09/03/13	LF	U(0.5)	U(5)	U(5)	U(5)	24.7	337	U(0.5)	U(20)	U(0.005)	U(20)	U(20)	U(20)	U(10)	U(5)	U(5)	U(5)	U(20)	U(5)	U(10)	NA	U(5)	24.9	U(0.5)	U(0.5)	U(0.5)	U(200)	U(100)	U(50)	U(10)	U(0.5)	U(10)	U(5)	U(10)	U(50)	U(10)	U(5)
		09/03/13*	LF	NA	U(2.5)	U(2.5)	1.6 J	27.9	490	NA	U(10)	NA	U(10)	U(10)	U(10)	U(5)	U(2.5)	U(2.5)	U(2.5)	U(10)	U(2.5)	U(5)	NA	U(2.5)	25.7	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	1.1 J	U(2.5)
		09/05/13	LF	U(0.5)	U(0.5)	U(0.5)	1.6	26	350	U(0.5)	U(0.5)	U(0.005)	U(0.5)	U(0.5)	NA	NA	U(0.5)	0.96	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.5	U(0.5)	NA	U(0.5)
		04/25/14	LF	NA	U(2.5)	U(2.5)	1.4 J	27.2	431	NA	U(10)	NA	U(10)	U(10)	U(10)	U(5)	U(2.5)	U(2.5)	U(2.5)	U(10)	U(2.5)	U(5)	NA	U(2.5)	30.4	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
		04/25/14*	LF	NA	U(0.5)	U(0.5)	1.9	29.4	357	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	1	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	33.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/17/14	LF	NA	U(0.5)	U(0.5)	1.3	23	370	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.7	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	56	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
		09/17/14*	LF	NA	U(0.5)	U(0.5)	1.4	24	330	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.71	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	62	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-14	173-183	09/23/02		U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	U(1)	3	U(2)	U(1)	U(1)	U(0.5)	U(1)	2	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	NA	NA	3	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/15/02		U(1)	U(1)	U(1)	U(1)	0.5	5	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	0.8	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/15/02*		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/09/03		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/08/04		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(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/08/04*		NA	NA	NA	NA	NA	NA	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/27/05		NA	U(1)	U(1)	U(1)	U(1)	5.8	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		01/27/05*		NA	U(1)	U(1)	U(1)	U(1)	5.7	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/11/06		NA	2.9	U(0.5)	1.2	27	400	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	44	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/02/07		NA	1.1	U(0.5)	0.87	17	220	NA	0.5	NA	0.5	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	32	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/10/09	LF	U(1)	U(1)	U(1)	U(1)	2.3	8	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	4.9	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/29/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.7	0.25 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.1	7.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3.8	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/19/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.99	9.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.9 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/24/10	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.81	9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.9 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/07/11	LF	NA	0.28 J	U(0.5)	0.67	15.3	13.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.53	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	16.9	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/23/12	LF	U(0.5)	U(1)	U(1)	0.6 J	13.5	11.4	U(0.5)	U(4)	U(0.5)	U(4)	U(4)	U(4)	U(2)	U(1)	0.53 J	U(1)	U(4)	U(1)	U(2)	NA	U(1)	14.5	U(0.5)	U(0.5)	U(0.5)	U(40)	U(20)	U(10)	U(2)	U(0.5)	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		12/18/12	LF	U(0.5)	U(1)	U(1)	U(1)	9	55.4	U(0.5)	U(4)	U(0.5)	U(4)	U(4)	U(4)	U(2)	U(1)	U(1)	U(1)	U(4)	U(1)	U(2)	NA	U(1)	9.7	U(0.5)	U(0.5)	U(0.5)	U(40)	U(20)	U(10)	U(2)	U(0.5)	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		09/04/13	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.3	51.1	U(0.5)	U(2)	U(0.005)	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	5.4	U(0.5)	U(0.5)	U(0.5)	U(20)	U(10)	U(5)	U(1)	U(0.5)	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/23/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.9	22.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/23/14*	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.8	21.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.4	15	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	4.5	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
		08/29/14*	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.4	15	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	3.7	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-15	177-197	09/23/02		U(1)	U(1)	U(1)	U(1)	U(1)	1	U(1)	U(1)	U(1)	U(1)	3	U(2)	U(1)	U(1)	U(0.5)	U(1)	2	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	NA	NA	3	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/15/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/15/02*		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/09/03		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/12/04		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(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/12/04*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/26/05		NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		02/09/09	LF	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/29/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.2 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/09*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.4 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/19/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/19/09*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/24/10	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-13	173-183	02/11/09*	U(1)	U(5)	1.8	U(10)	6.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	4.1	U(1)	U(1)	U(1)	NA	NA	U(1)	20	U(1)	U(1)	U(0.5)	NA	U(10)	U(0.5)	NA
		02/11/09	U(0.5)	U(0.5)	1.5	U(0.5)	6.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1.4	U(0.5)	U(4)	U(2)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(1)	13	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	36	U(0.5)	0.5	U(0.5)	300	0.8	U(0.5)	NA
		06/01/09	U(13)	U(13)	U(25)	U(13)	9.1 J	U(13)	U(25)	U(25)	U(13)	U(13)	NA	U(25)	U(13)	U(25)	U(130)	U(13)	U(130)	U(13)	U(13)	NA	NA	NA	U(1.8)	NA	U(13)	U(25)	NA	U(130)	U(13)	42.9	U(13)	U(13)	U(13)	387	U(130)	U(13)	U(18)
		08/31/09	U(10)	U(10)	U(20)	U(10)	10.2	U(10)	U(20)	U(20)	U(10)	U(100)	NA	U(20)	U(200)	U(20)	U(400)	U(20)	U(200)	U(100)	U(100)	NA	NA	NA	7.1	NA	U(100)	U(20)	NA	U(200)	U(100)	40.5	U(20)	U(10)	U(10)	397	U(100)	U(10)	U(40)
		08/31/09*	U(10)	U(10)	U(20)	U(10)	9.8 J	U(10)	U(20)	U(20)	U(10)	U(100)	NA	U(20)	U(200)	U(20)	U(400)	U(20)	U(200)	U(100)	U(100)	NA	NA	NA	NA	NA	U(100)	U(20)	NA	U(200)	U(100)	39.3	U(20)	U(10)	U(10)	401	U(100)	U(10)	U(40)
		11/24/09	U(10)	U(10)	U(20)	U(10)	10.8	U(10)	U(20)	U(20)	U(10)	U(100)	NA	U(20)	U(200)	U(20)	U(400)	U(20)	U(200)	U(100)	U(100)	NA	NA	NA	6.2	NA	U(100)	U(20)	NA	U(200)	U(100)	33.8	U(20)	U(10)	U(10)	418	U(100)	U(10)	U(40)
		11/24/09*	U(10)	U(10)	U(20)	U(10)	10.8	U(10)	U(20)	U(20)	U(10)	U(100)	NA	U(20)	U(200)	U(20)	U(400)	U(20)	U(200)	U(100)	U(100)	NA	NA	NA	7.2	NA	U(100)	U(20)	NA	U(200)	U(100)	35.3	U(20)	U(10)	U(10)	430	U(100)	U(10)	U(40)
		02/26/10	U(10)	U(10)	U(20)	U(10)	10.1	U(10)	U(20)	U(20)	U(10)	U(100)	NA	U(20)	U(200)	U(20)	U(400)	U(20)	U(200)	U(100)	U(100)	NA	NA	NA	8.1	NA	U(100)	U(20)	NA	U(200)	U(100)	41.4	U(20)	U(10)	U(10)	399	U(100)	U(10)	U(40)
		12/07/11	U(0.5)	U(0.5)	1.8	U(0.5)	9	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.86 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	8.4	NA	U(5)	U(1)	NA	U(10)	U(5)	38.5	U(1)	0.44 J	U(0.5)	327	0.83 J	U(0.5)	U(2)
		05/22/12	U(5)	U(5)	U(10)	U(5)	7.6	U(5)	U(10)	U(10)	U(5)	U(20)	U(2)	U(10)	U(100)	U(10)	U(100)	U(10)	U(100)	U(50)	U(20)	U(0.5)	U(0.5)	U(0.5)	9.9	U(0.5)	U(20)	U(10)	NA	U(100)	U(20)	30.4	U(10)	U(5)	U(5)	265	U(50)	U(5)	U(20)
		12/19/12	U(5)	U(5)	U(10)	U(5)	7	U(5)	U(10)	U(10)	U(5)	U(20)	U(2)	U(10)	U(100)	U(10)	U(100)	U(10)	U(100)	U(50)	U(20)	U(0.5)	U(0.5)	U(0.5)	9.6	U(0.5)	U(20)	U(10)	NA	U(100)	U(20)	32.5	U(10)	U(5)	U(5)	250	U(50)	U(5)	U(20)
		09/03/13	U(5)	U(5)	U(10)	U(5)	6.9	U(5)	U(10)	U(10)	U(5)	U(20)	U(2)	U(10)	U(100)	U(10)	U(100)	U(10)	U(100)	U(50)	U(20)	U(0.5)	U(0.5)	U(0.5)	8.1	U(0.5)	U(20)	U(10)	NA	U(100)	U(20)	22.3	U(10)	U(5)	U(5)	192	U(50)	U(5)	U(20)
		09/03/13*	U(2.5)	U(2.5)	1.6 J	U(2.5)	7.3	U(2.5)	U(5)	U(5)	U(2.5)	U(10)	NA	U(5)	U(50)	U(5)	U(50)	U(5)	U(50)	U(25)	U(10)	NA	NA	NA	NA	NA	U(10)	U(5)	NA	U(50)	U(10)	30	U(5)	U(2.5)	U(2.5)	239	U(25)	U(2.5)	U(10)
		09/05/13	U(0.5)	U(0.5)	1.5	U(0.5)	7	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	8.3	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	23	U(0.5)	U(0.5)	U(0.5)	180	0.7	U(0.5)	U(0.5)
		04/25/14	U(2.5)	U(2.5)	1.5 J	U(2.5)	6.2	U(2.5)	U(5)	U(5)	U(2.5)	U(10)	NA	U(5)	U(50)	U(5)	U(50)	U(5)	U(50)	U(25)	U(10)	NA	NA	NA	NA	NA	U(10)	U(5)	NA	U(50)	U(10)	24.5	U(5)	U(2.5)	U(2.5)	179	U(25)	U(2.5)	U(10)
		04/25/14*	U(0.5)	U(0.5)	1.8	U(0.5)	6.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.57 J	U(1)	U(10)	0.26 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	28	U(1)	0.25 J	U(0.5)	160	0.46 J	U(0.5)	U(2)
		09/17/14	U(0.5)	U(0.5)	1.5	U(0.5)	5.1	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	8.8	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	20	U(0.5)	U(0.5)	U(0.5)	170	0.36 J	U(0.5)	NA
		09/17/14*	U(0.5)	U(0.5)	1.5	U(0.5)	5.3	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	8.6	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	20	U(0.5)	0.26 J	U(0.5)	170	0.38 J	U(0.5)	NA
MW6-14	173-183	09/23/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	2	U(1)	U(1)	U(4)	U(1)	U(1)	4	U(1)	U(1)	12	17	1	U(1)	U(1)	U(1)	NA	NA	U(1)	3	9	U(1)	U(0.5)	5	U(1)	U(0.5)	NA
		11/15/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	0.5	U(1)	U(1)	U(0.5)	4	U(1)	U(0.5)	NA
		11/15/02*	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		07/09/03	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		01/08/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.2)	NA
		01/08/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/27/05	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	0.4	U(1)	U(1)	U(1)	3.2	NA	U(1)	U(1)
		01/27/05*	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	3.4	NA	U(1)	U(1)
		09/11/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	12	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	8.1	NA	NA	U(0.5)	NA	NA	NA	31	U(0.5)	U(0.5)	U(0.5)	190	0.51	U(0.5)	NA
		08/02/07	U(0.5)	U(0.5)	0.5	U(0.5)	6.9	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	0.17 J	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	0.11 J	0.48 J	6.4	NA	NA	U(0.5)	NA	NA	NA	17	0.92	0.17 J	U(0.5)	150	0.37 J	U(0.5)	NA
		02/10/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	2.1	U(1)	U(1)	U(0.5)	16	U(10)	U(0.5)	NA
		05/29/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.62	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.8	U(1)	U(0.5)	U(0.5)	12.5	U(5)	U(0.5)	U(2)
		08/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.39 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(12)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.2	U(1)	U(0.5)	U(0.5)	8.3	U(5)	U(0.5)	U(2)
		11/19/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.35 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.1	U(1)	U(0.5)	U(0.5)	7.3	U(5)	U(0.5)	U(2)
		02/24/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.33 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	0.9	U(1)	U(0.5)	U(0.5)	6.1	U(5)	U(0.5)	U(2)
		12/07/11	U(0.5)	U(0.5)	0.69 J	U(0.5)	6.4	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	7.5	NA	U(5)	U(1)	NA	U(10)	U(5)	20.4	U(1)	0.93	U(0.5)	125	0.34 J	U(0.5)	U(2)
		05/23/12	U(1)	U(1)	0.64 J	U(1)	5.8	U(1)	U(2)	U(2)	U(1)	U(4)	U(2)	U(2)	U(20)	U(2)	U(20)	U(2)	U(20)	U(10)	U(4)	U(0.5)	U(0.5)	U(0.5)	8.3	U(0.5)	U(4)	U(2)	NA	U(20)	U(4)	19.1	U(2)	0.89 J	U(1)	113	U(10)	U(1)	U(4)
		12/18/12	U(1)	U(1)	0.45 J	U(1)	4.1	U(1)	U(2)	U(2)	U(1)	U(4)	U(2)	U(2)	U(20)	U(2)	U(20)	U(2)	U(20)	U(10)	U(4)	U(0.5)	U(0.5)	U(0.5)	6.2	U(0.5)	U(4)	U(2)	NA	U(20)	U(4)	13	U(2)	U(1)	U(1)	80.1	U(10)	U(1)	U(4)
		09/04/13	U(0.5)	U(0.5)	U(1)	0.44 J	1.9	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	U(2)	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	U(0.5)	U(0.5)	U(0.5)	3.1	U(0.5)	U(2)	U(1)	NA	U(10)	U(2)	7.4	U(1)	U(0.5)	U(0.5)	42.2	U(5)	U(0.5)	U(2)
		04/23/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.83	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	2.2	U(1)	U(0.5)	U(0.5)	14	U(5)	U(0.5)	U(2)
		04/23/14*	U(0.5)	U(0.5)	U(1)	U(0.5)	0.77	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	2.3	U(1)	U(0.5)	U(0.5)	13.8	U(5)	U(0.5)	U(2)
		08/29/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.61	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	1.7	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	1.5	U(0.5)	U(0.5)	U(0.5)	9.9	U(0.5)	U(0.5)	NA
		08/29/14*	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.61	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	1.7	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	1.4	U(0.5)	U(0.5)	U(0.5)	9.9	U(0.5)	U(0.5)	NA
MW6-15	177-197	09/23/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	2	U(1)	U(1)	U(4)	U(1)	U(1)	2	U(1)	U(1)	12	17	4	U(1)	U(1)	U(1)	NA	NA	U(1)	4	9	U(1)	U(0.5)	5	U(1)	U(0.5)	NA
		11/15/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		11/15/02*	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		07/09/03	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	4.3	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		01/12/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.2)	NA
		01/12/04*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/26/05	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)
		02/09/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	1.8	U(10)	U(0.5)	NA
		05/29/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	2.4	0.75 J	U(0.5)	U(2)
		08/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	2.2	0.66 J	U(0.5)	U(2)
		08/27/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	2.1	0.66 J	U(0.5)	U(2)
		11/19/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	2.6	1.2 J	U(0.5)	U(2)
		11/19/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	2.4	1.1 J	U(0.5)	U(2)
		02/24/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	2.2	1.1 J	U(0.5)	U(2)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-15	177-197	12/06/11	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/22/12	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.47)	U(0.5)	U(0.5)	U(0.5)	U(20)	U(10)	U(5)	U(1)	U(0.5)	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		01/09/13	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	U(0.5)	U(0.5)	U(0.5)	U(20)	U(10)	U(5)	U(1)	U(0.5)	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/04/13	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.005)	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	U(0.5)	U(0.5)	U(0.5)	U(20)	U(10)	U(5)	U(1)	U(0.5)	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/04/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/04/14*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/28/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.085 J	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
		08/28/14*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.13	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-16	175-185	09/17/02		U(1)	U(1)	U(1)	U(1)	1	20	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/14/02		U(1)	U(1)	U(1)	U(1)	1	17	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/14/02*		U(1)	U(1)	U(1)	U(1)	0.9	16	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/10/03		U(1)	U(1)	U(1)	U(1)	0.7 J	11	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1.2	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/05/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	9.5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.2	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	2	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/28/05		NA	U(1)	U(1)	U(1)	0.65	14.9	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	5.6	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/12/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	6.3	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/03/07		NA	U(0.5)	U(0.5)	U(0.5)	0.39 J	6.6	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.11 J
		02/11/09	LF	U(1)	U(1)	U(1)	U(1)	U(1)	5	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/11/09	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.3 J	4.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.7 J	U(0.5)	U(0.5)	U(0.5)	3.2 J	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		06/01/09	LF	NA	U(0.2)	U(0.2)	U(0.2)	0.4	5.9	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(10)	U(0.2)	U(0.3)	U(0.3)	U(0.3)	U(0.5)	U(0.3)	U(0.3)	NA	U(0.3)	1.3	NA	NA	NA	U(10)	U(10)	U(1)	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	U(1.5)	U(0.2)	U(0.2)
		09/01/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	5.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/20/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/25/10	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/08/11	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/08/11*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.59	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/12	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.14 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/14/12	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.22 J	4.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.12 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/14/12*	LF	NA	U(0.5)	U(0.5)	U(0.5)	0.23 J	4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.13 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/13	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/13*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	LF	NA	NA	NA	NA	NA	NA	NA	NA	0.019	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/04/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.12 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/04/14*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.13 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/05/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.3	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
		09/05/14*	LF	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.26	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-17	195-205	09/23/02		U(1)	U(1)	U(1)	U(1)	7	23	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.3	U(1)	U(1)	U(1)	U(1)	NA	U(1)	25	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		11/15/02		U(1)	U(1)	U(1)	U(1)	7	80	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.3	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		12/06/02		U(1)	U(1)	U(1)	U(1)	6	90	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.3 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	17	NA	NA	U(1)	U(1)	NA	U(1)	NA	U(1)	NA	U(0.5)
		12/06/02*		U(1)	U(1)	U(1)	U(1)	6	100	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.3 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	9	NA	NA	U(1)	U(1)	NA	U(1)	NA	U(1)	NA	U(0.5)
		02/20/03		NA	U(1)	U(1)	U(1)	7	90	NA	NA	NA	NA	NA	U(2)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)
		02/20/03*		NA	U(1)	U(1)	U(1)	7	120	NA	NA	NA	NA	NA	U(2)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)
		07/08/03		U(1)	U(1)	U(1)	U(1)	7.8	110	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.4 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	30	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/08/03*		U(1)	U(1)	U(1)	U(1)	8.1	110	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	0.4 J	U(1)	U(1)	U(1)	U(1)	NA	U(1)	30	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/12/04		NA	NA	NA	NA	NA	220	NA	NA	U(0.002)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		01/12/04*		U(0.5)	U(0.5)	U(0.5)	U(0.5)	8.7	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.4	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	34	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		08/01/07		NA	U(0.5)	U(0.5)	0.39 J	9.6	92	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	25	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.13 J
		02/10/09	LF	U(1)	U(1)	U(1)	U(1)	6.4	63	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	19	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/10/09*	LF	U(1)	U(1)	U(1)	U(1)	7.2	67	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	16	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/28/09	LF	NA	U(1)	U(1)	U(1)	5.5	33.4	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	19.9	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		08/26/09	LF	NA	U(1)	U(1)	U(1)	5.6	76.3	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	20.3	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		08/26/09*	LF	NA	U(1)	U(1)	U(1)	6.3	85.4	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	20.6	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		11/18/09	LF	NA	U(1)	U(1)	U(1)	7	59.3	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	24	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		02/23/10	LF	NA	U(1)	U(1)	U(1)	9.7	116	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	27.6	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		02/23/10*	LF	NA	U(1)	U(1)	U(1)	9.6	118	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	25.9	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		12/06/11	LF	NA	U(1)	U(1)	U(1)	7.6	93.4	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	13.7	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		05/23/12	LF	U(0.5)	U(1)	U(1)	U(1)	7.4	92.1	U(0.5)	U(4)	U(0.5)	U(4)	U(4)	U(4)	U(2)	U(1)	U(1)	U(1)	U(4)	U(1)	U(2)	NA	U(1)	9.7	U(0.5)	U(0.5)	U(0.5)	U(40)	U(20)	U(10)	U(2)	U(0.5)	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-15	177-197	12/06/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	6.2	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	1.1 J	U(0.5)	U(2)
		05/22/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	U(2)	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	U(0.5)	U(0.5)	U(0.5)	7.6	U(0.5)	U(2)	U(1)	NA	3.8 J	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	1 J	U(0.5)	U(2)
		01/09/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	U(2)	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	U(0.5)	U(0.5)	U(0.5)	7	U(0.5)	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	0.99 J	U(0.5)	U(2)
		09/04/13	U(0.5)	U(0.5)	U(1)	0.71	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	U(2)	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	U(0.5)	U(0.5)	U(0.5)	6.8	U(0.5)	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	1.6 J	U(0.5)	U(2)
		04/04/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.31 J	1.3 J	U(0.5)	U(2)
		04/04/14*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.32 J	1.3 J	U(0.5)	U(2)
		08/28/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	7.5	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.34 J	1.4	U(0.5)	NA
		08/28/14*	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	7	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.34 J	1.5	U(0.5)	NA
MW6-16	175-185	09/17/02	U(1)	U(1)	2	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	10	U(1)	U(1)	U(1)	NA	NA	U(1)	18	U(1)	U(1)	U(0.5)	41	0.9	U(0.5)	NA
		11/14/02	U(1)	U(1)	2	U(1)	U(1)	U(0.5)	U(1)	U(1)	0.8	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	16	U(1)	U(1)	U(0.5)	36	U(1)	U(0.5)	NA
		11/14/02*	U(1)	U(1)	2	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	30	0.8	U(0.5)	NA
		07/10/03	U(1)	U(1)	1.4	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	7.9	U(1)	U(1)	U(1)	NA	NA	U(1)	13	U(1)	U(1)	U(0.5)	22	0.6 J	U(0.5)	NA
		01/05/04	U(0.5)	U(0.5)	1.5	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	9.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	12	U(0.5)	U(0.5)	U(0.2)	16	0.5	U(0.2)	NA
		01/28/05	U(1)	U(1)	1.5	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	11.8	U(1)	U(1)	U(1)	23.1	NA	U(1)	U(1)
		09/12/06	U(0.5)	U(0.5)	1.2	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	9.5	NA	NA	U(0.5)	NA	NA	NA	9.8	U(0.5)	U(0.5)	U(0.5)	8.5	U(0.5)	U(0.5)	NA
		08/03/07	U(0.5)	U(0.5)	1.2	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	10	NA	NA	U(0.5)	NA	NA	NA	11	1.3	0.099 J	U(0.5)	10	0.41 J	U(0.5)	NA
		02/11/09	U(1)	U(5)	1.2	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	5.7	U(1)	U(1)	U(0.5)	7.6	U(10)	U(0.5)	NA
		02/11/09	U(0.5)	U(0.5)	0.9	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(4)	U(2)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	9.5	U(0.5)	U(0.5)	U(0.5)	9.4	0.3 J	U(0.5)	NA
		06/01/09	U(0.3)	U(0.3)	1.2	U(0.3)	U(0.3)	U(0.5)	U(0.2)	U(0.2)	U(0.3)	U(0.5)	NA	U(0.3)	U(0.5)	U(0.2)	U(20)	U(0.5)	U(10)	U(0.5)	U(0.5)	NA	NA	NA	NA	NA	U(0.5)	U(0.2)	NA	U(10)	U(0.5)	10.3	U(0.5)	U(0.3)	U(0.2)	9	0.34	U(0.3)	U(0.7)
		09/01/09	U(0.5)	U(0.5)	0.84 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	9.4	U(1)	U(0.5)	U(0.5)	7.5	U(5)	U(0.5)	U(2)
		11/20/09	U(0.5)	U(0.5)	0.93 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	9.3	U(1)	U(0.5)	U(0.5)	7.6	U(5)	U(0.5)	U(2)
		02/25/10	U(0.5)	U(0.5)	0.92 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	8.1	U(1)	U(0.5)	U(0.5)	7.1	U(5)	U(0.5)	U(2)
		12/08/11	U(0.5)	U(0.5)	0.6 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	2.1	U(1)	U(0.5)	U(0.5)	0.8	U(5)	U(0.5)	U(2)
		12/08/11*	U(0.5)	U(0.5)	0.61 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	2	U(1)	U(0.5)	U(0.5)	0.82	U(5)	U(0.5)	U(2)
		05/25/12	U(0.5)	U(0.5)	0.81 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.21 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	8.7	U(1)	U(0.5)	U(0.5)	5.1	U(5)	U(0.5)	U(2)
		12/14/12	U(0.5)	U(0.5)	0.89 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.23 J	U(10)	U(5)	U(2)	NA	NA	NA	11	NA	U(2)	U(1)	NA	U(10)	U(2)	12.3	U(1)	U(0.5)	U(0.5)	5.3	0.21 J	U(0.5)	U(2)
		12/14/12*	U(0.5)	U(0.5)	0.85 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.23 J	U(10)	U(5)	U(2)	NA	NA	NA	12	NA	U(2)	U(1)	NA	U(10)	U(2)	12.2	U(1)	U(0.5)	U(0.5)	5.2	0.21 J	U(0.5)	U(2)
		08/29/13	U(0.5)	U(0.5)	0.61 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	8.2	U(1)	U(0.5)	U(0.5)	3	U(5)	U(0.5)	U(2)
		08/29/13*	U(0.5)	U(0.5)	0.79 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	9.9	U(1)	U(0.5)	U(0.5)	3.7	0.23 J	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/04/14	U(0.5)	U(0.5)	0.69 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	8.2	U(1)	U(0.5)	U(0.5)	3.1	U(5)	U(0.5)	U(2)
		04/04/14*	U(0.5)	U(0.5)	0.65 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	6.9	U(1)	U(0.5)	U(0.5)	2.5	U(5)	U(0.5)	U(2)
		09/05/14	U(0.5)	U(0.5)	0.77	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	11	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	7.9	U(0.5)	U(0.5)	U(0.5)	3	U(0.5)	U(0.5)	NA
		09/05/14*	U(0.5)	U(0.5)	0.77	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	11	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	7.6	U(0.5)	U(0.5)	U(0.5)	3	U(0.5)	U(0.5)	NA
MW6-17	195-205	09/23/02	U(1)	U(1)	1	U(1)	5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	3	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	NA	NA	U(1)	23	U(1)	U(1)	U(0.5)	58	2	U(0.5)	NA
		11/15/02	U(1)	U(1)	1	U(1)	4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	19	U(1)	U(1)	U(0.5)	210	2	U(0.5)	NA
		12/06/02	U(1)	U(1)	0.8 J	U(1)	3	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	2	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	20	U(1)	U(1)	U(0.5)	270	1	U(0.5)	NA
		12/06/02*	U(1)	U(1)	0.8 J	U(1)	3	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	2	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	20	U(1)	U(1)	U(0.5)	300	2	U(0.5)	NA
		02/20/03	U(1)	U(1)	0.9 J	U(1)	5	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	3	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	NA	NA	NA	24	U(1)	U(1)	U(1)	260	2	U(1)	NA
		02/20/03*	U(1)	U(1)	1	U(1)	5	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	3	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	NA	NA	NA	30	U(1)	U(1)	U(1)	340	2	U(1)	NA
		07/08/03	U(1)	U(1)	0.9 J	U(1)	5.1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	3.4	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	3	U(1)	U(1)	U(1)	NA	NA	U(1)	23	U(1)	U(1)	U(0.5)	260	2.2	U(0.5)	NA
		07/08/03*	U(1)	U(1)	0.9 J	U(1)	5.1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	3.4	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	2.6	U(1)	U(1)	U(1)	NA	NA	U(1)	23	U(1)	U(1)	U(0.5)	270	2.3	U(0.5)	NA
		01/12/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.3	NA	NA	NA	NA	NA	NA	20	NA	NA	NA	230	NA	NA	NA
		01/12/04*	U(0.5)	U(0.5)	0.9	U(0.5)	5.9	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	2.6	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	3.3	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.2)	NA	2.1	U(0.2)	NA
		08/01/07	U(0.5)	U(0.5)	0.97	U(0.5)	5.4	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	0.5	NA	NA	NA	U(0.5)	U(0.5)	3.4	NA	NA	U(0.5)	NA	NA	NA	16	U(0.5)	U(0.5)	U(0.5)	150	0.93	U(0.5)	NA
		02/10/09	U(1)	U(5)	1.5	U(10)	6.3	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	18	U(1)	U(1)	U(0.5)	110	U(10)	U(0.5)	NA
		02/10/09*	U(1)	U(5)	1.6	U(10)	6.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	120	U(10)	U(0.5)	NA
		05/28/09	U(1)	U(1)	1.4 J	U(1)	5.6	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.1 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	U(4)	NA	U(10)	U(2)	NA	U(20)	U(10)	16	U(2)	0.66 J	U(1)	102	1.1 J	U(1)	U(4)
		08/26/09	U(1)	U(1)	1.1 J	U(1)	6.7	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	U(20)	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	U(4)	NA	U(10)	U(2)	NA	U(20)	U(10)	19.9	U(2)	U(1)	U(1)	107	0.71 J	U(1)	U(4)
		08/26/09*	U(1)	U(1)	1.3 J	U(1)	7.3	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.1 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	U(4)	NA	U(10)	U(2)	NA	U(20)	U(10)	21.5	U(2)	U(1)	U(1)	118	0.83 J	U(1)	U(4)
		11/18/09	U(1)	U(1)	1.2 J	U(1)	7.7	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.3 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	U(4)	NA	U(10)	U(2)	NA	U(20)	U(10)	24	U(2)	U(1)	U(1)	141	1.1 J	U(1)	U(4)
		02/23/10	U(1)	U(1)	1.1 J	U(1)	11.6	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.8 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	U(4)	NA	U(10)	U(2)	NA	U(20)	U(10)	32.1	U(2)	U(1)	U(1)	169	1.4 J	U(1)	U(4)
		02/23/10*	U(1)	U(1)	1.2 J	U(1)	11.4	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	1.9 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	U(4)	NA	U(10)	U(2)	NA	U(20)	U(10)	32.5	U(2)	U(1)	U(1)	169	1.4 J	U(1)	U(4)
		12/06/11	U(1)	U(1)	1.2 J	U(1)	6.9	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	U(20)	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	3.2	NA	U(10)	U(2)	NA	U(20)	U(10)	18.7	U(2)	U(1)	U(1)	127	0.79 J	U(1)	U(4)
		05/23/12	U(1)	U(1)	1.2 J	U(1)	7.2	U(1)	U(2)	U(2)	U(1)	U(4)	U(2)	U(2)	1.1 J	U(2)	U(20)	U(2)	U(20)	U(10)	U(4)	U(0.5)	U(0.5)	U(0.5)	3.7	U(0.5)	U(4)	U(2)	NA	U(20)	U(4)	21.6	U(2)	U(1)	U(1)	122	0.82 J	U(1)	U(4)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-17	195-205	12/19/12	LF	U(0.5)	U(1)	U(1)	U(1)	10.3	102	U(0.5)	U(4)	U(0.5)	U(4)	U(4)	U(4)	U(2)	U(1)	U(1)	U(1)	U(4)	U(1)	U(2)	NA	U(1)	10.3	U(0.5)	U(0.5)	U(0.5)	U(40)	U(20)	U(10)	U(2)	U(0.5)	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		12/19/12*	LF	U(0.5)	U(1)	U(1)	U(1)	11	137	U(0.5)	U(4)	U(0.5)	U(4)	U(4)	U(4)	U(2)	U(1)	U(1)	U(1)	U(4)	U(1)	U(2)	NA	U(1)	9.3	U(0.5)	U(0.5)	U(0.5)	U(40)	U(20)	U(10)	U(2)	U(0.5)	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		09/05/13	LF	U(0.5)	U(2.5)	U(2.5)	U(2.5)	12.4	158	U(0.5)	U(10)	U(0.005)	U(10)	U(10)	U(10)	U(5)	3	U(2.5)	U(2.5)	U(10)	U(2.5)	U(5)	NA	U(2.5)	12.7	U(0.5)	U(0.5)	U(0.5)	U(100)	U(50)	U(25)	U(5)	U(0.5)	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
		04/18/14	LF	NA	U(0.5)	U(0.5)	0.42 J	12.7	156	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.41 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	13.7	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/28/14	LF	NA	U(0.5)	U(0.5)	0.43 J	16	180	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.41 J	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	53	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-17I	212-232	07/22/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	3.6	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.2	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		07/22/08*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	3.9	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.1	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		10/28/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	3.2	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.3	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/25/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	3.9	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.3	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/03/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.41 J	3.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.36 J	3.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/03/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.39 J	3.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/03/10*	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.38 J	3.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/10*	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.31 J	2.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.41 J	U(0.5)
		08/31/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.3 J	2.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.23 J	U(0.5)
		11/30/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.46 J	3.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.47 J	U(0.5)
		05/24/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.51 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/28/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.51	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/06/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.51	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/22/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.52	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/17/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.46 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.5	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-18	215-225	02/12/03		NA	U(1)	U(1)	U(1)	U(1)	1	NA	NA	NA	NA	NA	U(2)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)
(LCW-04)		03/07/03		U(1)	U(1)	U(1)	U(1)	U(1)	1	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2	U(1)	U(1)	U(1)	2 J	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/08/03		U(1)	U(1)	U(1)	U(1)	U(1)	1.3	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1.8	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/05/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	2	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/26/05		NA	U(1)	U(1)	U(1)	0.4	5.2	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	2.4	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		09/13/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.6	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	0.81 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/03/07		NA	U(0.5)	U(0.5)	U(0.5)	0.86	7.9	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	1.3 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		02/09/09	LF	U(1)	U(1)	U(1)	U(1)	1.3	10	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	4.9	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/09/09*	LF	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/29/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.7	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	6.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/26/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	1.6	2.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	7	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/18/09	LF	NA	U(0.5)	U(0.5)	U(0.5)	2.1	16.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	7.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/18/09*	LF	NA	U(0.5)	U(0.5)	U(0.5)	2.1	13.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	7.4	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/23/10	LF	NA	U(0.5)	U(0.5)	0.22 J	3.4	13.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	11.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/05/11	LF	NA	U(0.5)	U(0.5)	U(0.5)	2.5	24.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	4.4	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/22/12	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.6	15	U(0.5)	U(2)	U(0.5)	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	4.4	U(0.5)	U(0.5)	U(0.5)	U(20)	U(10)	U(5)	U(1)	U(0.5)	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/18/12	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.7	27.8	U(0.5)	U(2)	U(0.5)	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	3.6	U(0.5)	U(0.5)	U(0.5)	U(20)	U(10)	U(5)	U(1)	U(0.5)	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/05/13	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.9	31	U(0.5)	U(2)	U(0.005)	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	4.7	U(0.5)	U(0.5)	U(0.5)	U(20)	U(10)	U(5)	U(1)	U(0.5)	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/01/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	3.1	29.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	2.4	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/28/14	LF	NA	U(0.5)	U(0.5)	U(0.5)	3.6	37	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.21 J	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	17	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-19	142-152	07/21/03		U(1)	U(1)	U(1)	U(1)	0.8 J	10	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1.1	U(1)	U(1)	U(1)	U(4)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.9
(LCW-05)		01/12/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.9	6.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	1	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	0.8
		08/01/07		NA	U(0.5)	U(0.5)	U(0.5)	1	8.5	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.22 J
		02/10/09	LF	U(1)	U(1)	U(1)	U(1)	U(1)	4.6	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/09/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.74	4.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6 J	NA	NA	NA	U(20)	U(10)	U(5)	0.42 J	NA	U(1)	U(0.5)	U(1)	U(5)	0.36 J	U(0.5)
		08/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.58	3.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.9 J	NA	NA	NA	U(20)	U(10)	U(5)	0.45 J	NA	U(1)	U(0.5)	U(1)	U(5)	0.22 J	U(0.5)
		11/18/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.71	4.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.26 J	U(0.5)
		02/23/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.98	4.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/22/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	1	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.41 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-17	195-205	12/19/12	U(1)	U(1)	1.1 J	0.65 J	8.9	U(1)	U(2)	U(2)	U(1)	U(4)	U(2)	U(2)	1.3 J	U(2)	U(20)	U(2)	U(20)	U(10)	U(4)	U(0.5)	U(0.5)	U(0.5)	3.8	U(0.5)	U(4)	U(2)	NA	U(20)	U(4)	34.8	U(2)	0.43 J	U(1)	176	1.1 J	U(1)	U(4)
		12/19/12*	U(1)	U(1)	1.1 J	0.66 J	10.3	U(1)	U(2)	U(2)	U(1)	U(4)	U(2)	U(2)	1.4 J	U(2)	U(20)	U(2)	U(20)	U(10)	U(4)	U(0.5)	U(0.5)	U(0.5)	3.7	U(0.5)	U(4)	U(2)	NA	U(20)	U(4)	35.9	U(2)	U(1)	U(1)	185	1.2 J	U(1)	U(4)
		09/05/13	U(2.5)	U(2.5)	1 J	U(2.5)	12	U(2.5)	U(5)	U(5)	U(2.5)	U(10)	U(2)	U(5)	1.7 J	U(5)	U(50)	U(5)	U(50)	U(25)	U(10)	U(0.5)	U(0.5)	U(0.5)	3.5	U(0.5)	U(10)	U(5)	NA	U(50)	U(10)	38	U(5)	U(2.5)	U(2.5)	185	1.4 J	U(2.5)	U(10)
		04/18/14	U(0.5)	U(0.5)	0.99 J	U(0.5)	12.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.8 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	47.5	U(1)	0.2 J	U(0.5)	172	1.3 J	U(0.5)	U(2)
		08/28/14	U(0.5)	U(0.5)	1.1	U(0.5)	16	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.6	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.3	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	38	U(0.5)	0.27 J	U(0.5)	210	1.6	U(0.5)	NA
MW6-17I	212-232	07/22/08	U(1)	U(1)	U(1)	U(10)	1.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	3.4	U(1)	U(1)	U(1)	NA	NA	U(1)	31	U(1)	U(1)	U(0.5)	7.5	U(10)	U(0.5)	NA
		07/22/08*	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	3.6	U(1)	U(1)	U(1)	NA	NA	U(1)	32	U(1)	U(1)	U(0.5)	7.5	U(10)	U(0.5)	NA
		10/28/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	2.1	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	5.9	U(10)	U(0.5)	NA
		02/25/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	21	U(1)	U(1)	U(0.5)	5.4	U(10)	U(0.5)	NA
		06/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.93	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	14.1	U(1)	U(0.5)	U(0.5)	5	U(5)	U(0.5)	U(2)
		09/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.98	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	20.9	U(1)	U(0.5)	U(0.5)	5.5	0.34 J	U(0.5)	U(2)
		12/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.77	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	26.8	U(1)	U(0.5)	U(0.5)	6.1	0.95 J	U(0.5)	U(2)
		12/03/09*	U(0.5)	U(0.5)	0.31 J	U(0.5)	0.79	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	28.6	U(1)	U(0.5)	U(0.5)	6.4	0.86 J	U(0.5)	U(2)
		03/03/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.99	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	14.7	U(1)	U(0.5)	U(0.5)	4.9	U(5)	U(0.5)	U(2)
		03/03/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	0.98	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	14	U(1)	U(0.5)	U(0.5)	4.7	U(5)	U(0.5)	U(2)
		05/26/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.82	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	21.3	U(1)	U(0.5)	U(0.5)	5.6	0.7 J	U(0.5)	U(2)
		05/26/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	0.84	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	21.2	U(1)	U(0.5)	U(0.5)	5.6	0.63 J	U(0.5)	U(2)
		08/31/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.78	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	22	U(1)	U(0.5)	U(0.5)	5.2	0.64 J	U(0.5)	U(2)
		11/30/10	U(0.5)	U(0.5)	U(1)	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	9.2 J	U(5)	7.6	U(1)	U(0.5)	U(0.5)	4	U(5)	U(0.5)	U(2)
		05/24/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.62	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.8	NA	U(5)	U(1)	NA	U(10)	U(5)	25.7	U(1)	U(0.5)	U(0.5)	5.6	0.86 J	U(0.5)	U(2)
		11/28/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.91	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.5	NA	U(5)	U(1)	NA	U(10)	U(5)	26.2	U(1)	U(0.5)	U(0.5)	6.3	0.79 J	U(0.5)	U(2)
		05/24/12	U(0.5)	U(0.5)	0.27 J	U(0.5)	0.64	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3.1	NA	U(2)	U(1)	NA	U(10)	U(2)	20.4	U(1)	U(0.5)	U(0.5)	4.7	0.61 J	U(0.5)	U(2)
		12/06/12	U(0.5)	U(0.5)	0.21 J	U(0.5)	0.56	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.3	NA	U(2)	U(1)	NA	U(10)	U(2)	21.3	U(1)	U(0.5)	U(0.5)	4.3	0.5 J	U(0.5)	U(2)
		08/22/13	U(0.5)	U(0.5)	0.22 J	0.66	0.54	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3.5	NA	U(2)	U(1)	NA	U(10)	U(2)	20.7	U(1)	U(0.5)	U(0.5)	4.7	0.65 J	U(0.5)	U(2)
		04/17/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.71	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.12	NA	U(2)	U(1)	NA	U(10)	U(2)	12.4	U(1)	U(0.5)	U(0.5)	3.4	U(5)	U(0.5)	U(2)
		09/03/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.5J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.5	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	8.5	U(0.5)	U(0.5)	U(0.5)	2.7	U(0.5)	U(0.5)	NA
MW6-18 (LCW-04)	215-225	02/12/03	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	NA	NA	NA	1	U(1)	U(1)	U(1)	21	U(1)	U(1)	NA
		03/07/03	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	NA	NA	U(1)	0.8 J	U(1)	U(1)	U(0.5)	20	U(1)	U(0.5)	NA
		07/08/03	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	1	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	4.7	U(1)	U(1)	U(1)	NA	NA	U(1)	0.7 J	U(1)	U(1)	U(0.5)	21	U(1)	U(0.5)	NA
		01/05/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	4.6	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1	U(0.5)	U(0.5)	U(0.2)	19	U(0.5)	U(0.2)	NA
		01/26/05	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	2.4	U(1)	U(1)	U(1)	27.2	NA	U(1)	U(1)
		09/13/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	1	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	3.6	NA	NA	U(0.5)	NA	NA	NA	2.9	U(0.5)	U(0.5)	U(0.5)	22	U(0.5)	U(0.5)	NA
		08/03/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.73	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	3.8	NA	NA	U(0.5)	NA	NA	NA	3.6	1.3	U(0.5)	U(0.5)	22	0.52	U(0.5)	NA
		02/09/09	U(1)	U(5)	U(1)	U(10)	1.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	6.9	U(1)	U(1)	U(0.5)	44	U(10)	U(0.5)	NA
		02/09/09*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	2	U(10)	U(0.5)	NA
		05/29/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	2.1 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	9.6	U(1)	0.36 J	U(0.5)	51.2	1.1 J	U(0.5)	U(2)
		08/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.5 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	8.6	U(1)	0.31 J	U(0.5)	46.5	0.8 J	U(0.5)	U(2)
		11/18/09	U(0.5)	U(0.5)	0.35 J	U(0.5)	2.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.8 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	10.9	U(1)	U(0.5)	U(0.5)	64.3	1.2 J	U(0.5)	U(2)
		11/18/09*	U(0.5)	U(0.5)	0.34 J	U(0.5)	2.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.7 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	10.2	U(1)	U(0.5)	U(0.5)	61.9	1.1 J	U(0.5)	U(2)
		02/23/10	U(0.5)	U(0.5)	0.48 J	U(0.5)	3.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	2.1 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	13.6	U(1)	0.46 J	U(0.5)	83	1.3 J	U(0.5)	U(2)
		12/05/11	U(0.5)	U(0.5)	0.4 J	U(0.5)	3.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.5 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.5	NA	U(5)	U(1)	NA	U(10)	U(5)	11.5	U(1)	U(0.5)	U(0.5)	65.9	0.88 J	U(0.5)	U(2)
		05/22/12	U(0.5)	U(0.5)	0.36 J	U(0.5)	3.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	U(2)	U(1)	1.4 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	U(0.5)	U(0.5)	U(0.5)	4.5	U(0.5)	U(2)	U(1)	NA	U(10)	U(2)	12.3	U(1)	0.32 J	U(0.5)	65	0.97 J	U(0.5)	U(2)
		12/18/12	U(0.5)	U(0.5)	0.36 J	U(0.5)	3.9	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	U(2)	U(1)	1.3 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	U(0.5)	U(0.5)	U(0.5)	4.2	U(0.5)	U(2)	U(1)	NA	U(10)	U(2)	14.9	U(1)	U(0.5)	U(0.5)	65.4	0.98 J	U(0.5)	U(2)
		09/05/13	U(0.5)	U(0.5)	0.32 J	U(0.5)	4.8	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	U(2)	U(1)	1.8 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	U(0.5)	U(0.5)	U(0.5)	3.8	U(0.5)	U(2)	U(1)	NA	U(10)	U(2)	21.1	U(1)	U(0.5)	U(0.5)	68.8	1.4 J	U(0.5)	U(2)
		04/01/14	U(0.5)	U(0.5)	0.33 J	U(0.5)	6.3	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.6 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	22.3	U(1)	U(0.5)	U(0.5)	66.3	1.1 J	U(0.5)	U(2)
		08/28/14	U(0.5)	U(0.5)	0.39 J	U(0.5)	8.5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.4	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.3	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	28	U(0.5)	U(0.5)	U(0.5)	77	1.6	U(0.5)	NA
MW6-19 (LCW-05)	142-152	07/21/03	U(1)	U(1)	0.5 J	U(1)	1.3	U(0.5)	U(1)	U(1)	3.8	NA	NA	U(1)	1.4	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	2.5	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	22	0.7 J	U(0.5)	NA
		01/12/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	U(0.2)	U(0.5)	U(0.5)	1.5	NA	NA	U(0.5)	0.8	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	3.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	18	U(0.5)	U(0.5)	U(0.2)	20	0.5	U(0.2)	NA
		08/01/07	U(0.5)	U(0.5)	0.27 J	U(0.5)	2.3	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	0.23 J	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	4.8	NA	NA	U(0.5)	NA	NA	NA	14	U(0.5)	U(0.5)	U(0.5)	15	0.32 J	U(0.5)	NA
		02/10/09	U(1)	U(5)	U(1)	U(10)	1.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	13	U(1)	U(1)	U(0.5)	14	U(10)	U(0.5)	NA
		06/09/09	U(0.5)	U(0.5)	0.4 J	U(0.5)	1.7	U(0.5)	U(1)	U(1)	0.79	U(5)	NA	U(1)	1.2 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	13.2	U(1)	U(0.5)	U(0.5)	14.9	U(5)	U(0.5)	U(2)
		08/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.5	U(0.5)	U(1)	U(1)	0.47 J	U(5)	NA	U(1)	0.84 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	11.5	U(1)	U(0.5)	U(0.5)	11.3	U(5)	0.45 J	U(2)
		11/18/09	U(0.5)	U(0.5)	0.34 J	U(0.5)	1.8	U(0.5)	U(1)	U(1)	0.64	U(5)	NA	U(1)	1.4 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	18.2	U(1)	U(0.5)	U(0.5)	14.8	U(5)	U(0.5)	U(2)
		02/23/10	U(0.5)	U(0.5)	0.35 J	U(0.5)	2.5	U(0.5)	U(1)	U(1)	0.77	U(5)	NA	U(1)	1.8 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	21.5	U(1)	U(0.5)	U(0.5)	17	U(5)	0.34 J	U(2)
		11/22/11	U(0.5)	U(0.5)	0.5 J	U(0.5)	2.3	U(0.5)	U(1)	U(1)	1.3	U(5)	NA	U(1)	1.6 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	22.7	U(1)	U(0.5)	U(0.5)	18.5	U(5)	U(0.5)	U(2)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-19	142-152	11/22/11*	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.75	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.4 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
(LCW-05)		05/18/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.87	5.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.45 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.24 J
		12/13/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.27 J	2.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.57	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/16/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	1	5.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.21 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	0.0069	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/01/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.91	1.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.23 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.28 J	1.2	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.1	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-20A	65-75	09/17/08	PS	U(1)	U(1)	U(1)	U(1)	1.3	3.3	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		12/23/08	PS	U(1)	U(1)	U(1)	U(1)	1.1	3.6	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/17/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	2.5	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.97	2.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	1.8	U(0.5)
		09/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.62	1.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.44 J	U(0.5)
		12/04/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.65	2.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/04/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.68	2.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/09/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.66	1.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/09/10*	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.61	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.61	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/02/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.5	1.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/29/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.65	2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.7	4.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/17/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.51	1.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.6	2.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.2 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/05/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.84	1.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.18 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/20/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.28 J	0.73	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.67	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.23 J	0.7	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.24	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-20B	130-140	09/16/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		12/23/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		12/23/08*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/17/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/02/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/04/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	16 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	1.2	U(0.5)
		03/09/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/02/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/29/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/17/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/05/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/20/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-21	205-225	12/05/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.65	6.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.75 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/18/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.67	7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.66	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/13/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.59	5.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.71	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/16/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.88	9.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.62	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/18/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.1	11.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.84	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.3	13	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	2.6	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-35	215-230	08/24/95		NA	U(1)	U(1)	U(1)	U(1)	0.25	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	0.24
		09/22/95		NA	U(1)	U(1)	U(1)	U(1)	0.23	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	0.2
		10/19/95		NA	0.48	U(1)	U(1)	U(1)	0.32	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	0.24

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-19	142-152	11/22/11*	U(0.5)	U(0.5)	0.36 J	U(0.5)	1.7	U(0.5)	U(1)	U(1)	0.98	U(5)	NA	U(1)	1.1 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	15.9	U(1)	0.31 J	U(0.5)	13.1	U(5)	U(0.5)	U(2)
(LCW-05)		05/18/12	U(0.5)	U(0.5)	0.3 J	U(0.5)	2	U(0.5)	U(1)	U(1)	1.5	U(2)	NA	U(1)	1 J	U(1)	U(10)	0.25 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	18.1	U(1)	U(0.5)	U(0.5)	15.4	0.26 J	U(0.5)	U(2)
		12/13/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.68	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.35 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	5.6	NA	U(2)	U(1)	NA	U(10)	U(2)	8.1	U(1)	U(0.5)	U(0.5)	4.8	U(5)	U(0.5)	U(2)
		08/16/13	U(0.5)	U(0.5)	0.27 J	U(0.5)	2.4	U(0.5)	U(1)	U(1)	0.73	U(2)	NA	U(1)	1.6 J	U(1)	U(10)	0.31 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	28.8	U(1)	U(0.5)	U(0.5)	16.3	0.21 J	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/01/14	U(0.5)	U(0.5)	0.29 J	U(0.5)	2.1	U(0.5)	U(1)	U(1)	0.63	U(2)	NA	U(1)	1.3 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	23.9	U(1)	0.22 J	U(0.5)	14.8	U(5)	U(0.5)	U(2)
		08/27/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.69	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.5	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	10	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	8.4	U(0.5)	U(0.5)	U(0.5)	5	U(0.5)	U(0.5)	NA
MW6-20A	65-75	09/17/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		12/23/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/17/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		06/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/04/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		03/09/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		03/09/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/25/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/02/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/29/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/26/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.28 J	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/17/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.5	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/17/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/05/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/20/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		04/03/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/03/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.1)	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
MW6-20B	130-140	09/16/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		12/23/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		12/23/08*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/17/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		06/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	6.9 J	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/02/09	U(0.5)	U(0.5)	U(1)	0.49 J	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/02/09*	U(0.5)	U(0.5)	U(1)	0.5	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	7.6 J	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/04/09	U(0.5)	U(0.5)	U(1)	0.56	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		03/09/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/25/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/02/10	U(0.5)	U(0.5)	U(1)	0.31 J	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/29/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/26/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/17/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	0.29	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/17/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	4.5 J	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/05/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/20/13	U(0.5)	U(0.5)	U(1)	0.43 J	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		04/03/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/03/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.29	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
MW6-21	205-225	12/05/11	U(0.5)	U(0.5)	0.74 J	U(0.5)	1.9	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.55 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	2.8	NA	U(5)	U(1)	NA	U(10)	U(5)	7.8	U(1)	U(0.5)	U(0.5)	13.7	0.48 J	U(0.5)	U(2)
		05/18/12	U(0.5)	U(0.5)	0.55 J	U(0.5)	2.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.63 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	10.3	U(1)	U(0.5)	U(0.5)	15.2	0.58 J	U(0.5)	U(2)
		12/13/12	U(0.5)	U(0.5)	0.6 J	U(0.5)	1.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.52 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	8	U(1)	U(0.5)	U(0.5)	11.7	0.4 J	U(0.5)	U(2)
		08/16/13	U(0.5)	U(0.5)	0.55 J	U(0.5)	2.9	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.98 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	16.4	U(1)	U(0.5)	U(0.5)	19.5	0.75 J	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/18/14	U(0.5)	U(0.5)	0.52 J	U(0.5)	3.6	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	18.2	U(1)	U(0.5)	U(0.5)	22.9	0.77 J	U(0.5)	U(2)
		08/27/14	U(0.5)	U(0.5)	0.55	U(0.5)	4.5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.6	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	21	U(0.5)	U(0.5)	U(0.5)	27	1	U(0.5)	NA
MW6-35	215-230	08/24/95	U(1)	U(1)	7.7	U(1)	NA	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.84	U(1)	U(1)	U(1)	1	U(1)	U(1)	0.67
		09/22/95	U(1)	U(1)	6.6	U(0.11)	NA	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.77	U(1)	U(1)	U(1)	0.91	U(1)	U(1)	1.1
		10/19/95	U(1)	U(1)	6.4	U(1)	NA	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1	U(1)	U(1)	U(1)	0.98	U(1)	U(1)	U(1)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-35	215-230	01/26/96		NA	U(1)	U(1)	U(1)	U(1)	0.31	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	0.24
		03/24/98		NA	2	U(1)	U(1)	0.8 J	5	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(0.5)	U(1)	NA	U(1)	U(1)	NA	U(1)	0.7	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(1)	0.3 J	U(1)	U(0.5)
		03/24/98*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/03/98		NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(0.5)	U(1)	NA	U(1)	U(1)	NA	U(1)	NA	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)
		04/08/02		NA	U(1)	NA	NA	U(1)	0.63 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	0.21 J	NA	NA	NA	NA	NA	NA	0.33 J
		02/24/09	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/04/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.21 J	U(0.5)
		09/03/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/02/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.83	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/02/09*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.67	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/04/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.81	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/04/10*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.76	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/29/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.48 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/29/11*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.46 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/29/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/10/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.71	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/10/12*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.65	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/13	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.64	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/13*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.65	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/07/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.51	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/07/14*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.56	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/15/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.52	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
		09/15/14*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.51	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-36	80-95	08/24/95		NA	3.7	U(2)	U(2)	2.8	11	NA	NA	NA	NA	NA	NA	NA	U(2)	U(2)	U(2)	NA	U(2)	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	0.25	NA	NA	U(2)	U(2)	U(2)	NA	U(2)
		09/22/95		NA	2.1	U(2)	U(2)	1.6	6.6	NA	NA	NA	NA	NA	NA	NA	U(2)	U(2)	U(2)	NA	U(2)	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(2)	U(2)	U(2)	NA	U(2)
		10/20/95		NA	2.4	U(2)	U(2)	2	8	NA	NA	NA	NA	NA	NA	NA	U(2)	U(2)	U(2)	NA	U(2)	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	U(2)	NA	NA	U(2)	U(2)	U(2)	NA	U(2)
		01/26/96		NA	1.6	U(1)	U(1)	1.8	6.5	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(1)
		03/24/98		NA	4	U(1)	U(1)	2	7	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	0.3 J	U(1)	NA	U(1)	U(1)	NA	U(1)	2 J	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(1)	0.3 J	U(1)	U(0.5)
		03/24/98*		NA	4	U(1)	U(1)	1	6	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(0.5)	U(1)	NA	U(1)	U(1)	NA	U(1)	2 J	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(1)	0.2 J	U(1)	U(0.5)
		09/03/98		NA	2	U(1)	U(1)	2	6	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(0.5)	U(1)	NA	U(1)	U(1)	NA	U(1)	NA	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)
		09/03/98*		NA	3	U(1)	U(1)	2	7	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(0.5)	U(1)	NA	U(1)	U(1)	NA	U(1)	NA	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)
		08/19/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	12	U(2)	U(1)	U(1)	U(0.5)	U(1)	5	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/08/03		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	0.5 J	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	4	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		01/05/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.5	4.4	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	3	U(0.5)	U(0.5)	U(0.5)	U(2)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.2)
		01/26/05		NA	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(4)	U(2)	U(2)	U(1)
		02/25/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	14	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/25/09	LF	U(1)	U(1)	U(1)	U(1)	U(1)	1.3	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	4.1	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/04/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.52	1.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.66	1.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.59	1.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/04/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.48 J	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.4 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/29/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/29/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.89	1.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.38 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/10/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.49 J	0.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.65	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.3 J	0.69	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/07/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.24 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.47 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/15/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.4 J	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	0.5	U(1)	U(1)	U(0.5)
MW6-37	40-55	08/24/95		NA	2.8	U(2)	U(2)	1.9	5.8	NA	NA	NA	NA	NA	NA	NA	U(2)	U(2)	U(2)	NA	U(2)	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	0.3	NA	NA	U(2)	U(2)	U(2)	NA	U(2)
		09/22/95		NA	3.9	U(2)	U(2)	2.6	9.9	NA	NA	NA	NA	NA	NA	NA	U(2)	U(2)	U(2)	NA	U(2)	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(2)	U(2)	U(2)	NA	U(2)
		10/20/95		NA	3.6	U(5)	U(5)	2.1	9.8	NA	NA	NA	NA	NA	NA	NA	U(5)	U(5)	U(5)	NA	U(5)	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	U(5)	U(5)	U(5)	NA	U(5)
		01/26/96		NA	2.7	U(2)	U(2)	2.2	8	NA	NA	NA	NA	NA	NA	NA	U(2)	U(2)	U(2)	NA	U(2)	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	0.11	NA	NA	U(2)	U(2)	U(2)	NA	U(2)
		03/24/98		NA	2	U(1)	U(1)	1	5	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	0.5	U(1)	NA	U(1)	U(1)	NA	U(1)	3 J	NA	NA	NA	2 J	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)
		03/24/98*		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/03/98		NA	7	U(1)	U(1)	2	7	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(0.5)	U(1)	NA	U(1)	U(1)	NA	U(1)	NA	NA	NA	NA	U(10)	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)
		03/28/02		U(1)	U(1)	U(1)	U(1)	U(1)	0.8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-35	215-230	01/26/96	U(1)	U(1)	4.8	U(1)	NA	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.96	U(1)	U(1)	U(1)	0.98	U(1)	U(1)	0.2
		03/24/98	U(1)	U(1)	3	U(1)	2	U(0.5)	U(1)	NA	0.5 J	NA	NA	U(1)	NA	NA	5 J	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	NA	NA	25	U(1)	U(1)	U(0.5)	5	0.1 J	U(0.5)	NA
		03/24/98*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/03/98	U(1)	U(1)	3	U(1)	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	NA	NA	1	U(1)	U(1)	U(0.5)	0.8 J	U(1)	U(0.5)	NA
		04/08/02	NA	NA	2.7	U(1)	U(1)	NA	NA	NA	NA	NA	NA	2.1	NA	NA	NA	NA	U(10)	U(1)	NA	NA	NA	NA	U(4)	NA	NA	NA	NA	NA	NA	1.5	0.73 J	NA	NA	1	U(1)	U(0.5)	1.68
		02/24/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		06/04/09	U(0.5)	U(0.5)	1.1	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.3	U(1)	U(0.5)	U(0.5)	0.72	U(5)	U(0.5)	U(2)
		09/03/09	U(0.5)	U(0.5)	0.96 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.2	U(1)	U(0.5)	U(0.5)	0.55	U(5)	U(0.5)	U(2)
		12/02/09	U(0.5)	U(0.5)	1	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.4	U(1)	U(0.5)	U(0.5)	0.51	U(5)	U(0.5)	U(2)
		12/02/09*	U(0.5)	U(0.5)	0.98 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.4	U(1)	U(0.5)	U(0.5)	0.56	U(5)	U(0.5)	U(2)
		03/04/10	U(0.5)	U(0.5)	0.8 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.97	U(1)	U(0.5)	U(0.5)	0.49 J	U(5)	U(0.5)	U(2)
		03/04/10*	U(0.5)	U(0.5)	0.74 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.86	U(1)	U(0.5)	U(0.5)	0.48 J	U(5)	U(0.5)	U(2)
		11/29/11	U(0.5)	U(0.5)	0.46 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.2	U(1)	U(0.5)	U(0.5)	0.44 J	U(5)	U(0.5)	U(2)
		11/29/11*	U(0.5)	U(0.5)	0.44 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.2	U(1)	U(0.5)	U(0.5)	0.43 J	U(5)	U(0.5)	U(2)
		05/29/12	U(0.5)	U(0.5)	0.55 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.1	U(1)	U(0.5)	U(0.5)	0.41 J	U(5)	U(0.5)	U(2)
		12/10/12	U(0.5)	U(0.5)	0.62 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3.9	NA	U(2)	U(1)	NA	U(10)	U(2)	1.2	U(1)	U(0.5)	U(0.5)	0.41 J	U(5)	U(0.5)	U(2)
		12/10/12*	U(0.5)	U(0.5)	0.71 J	0.38 J	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3.8	NA	U(2)	U(1)	NA	U(10)	U(2)	1.2	U(1)	U(0.5)	U(0.5)	0.44 J	U(5)	U(0.5)	U(2)
		08/27/13	U(0.5)	U(0.5)	0.72 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.6	U(1)	U(0.5)	U(0.5)	0.57	U(5)	U(0.5)	U(2)
		08/27/13*	U(0.5)	U(0.5)	0.8 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.5	U(1)	U(0.5)	U(0.5)	0.57	U(5)	U(0.5)	U(2)
		04/07/14	U(0.5)	U(0.5)	0.58 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.4	U(1)	U(0.5)	U(0.5)	0.51	U(5)	U(0.5)	U(2)
		04/07/14*	U(0.5)	U(0.5)	0.61 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.5	U(1)	U(0.5)	U(0.5)	0.54	U(5)	U(0.5)	U(2)
		09/15/14	U(0.5)	U(0.5)	0.65	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.7	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	1.3	U(0.5)	U(0.5)	U(0.5)	0.54	U(0.5)	U(0.5)	NA
		09/15/14*	U(0.5)	U(0.5)	0.63	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.8	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	1.3	U(0.5)	U(0.5)	U(0.5)	0.54	U(0.5)	U(0.5)	NA
MW6-36	80-95	08/24/95	U(2)	U(2)	0.14	U(2)	NA	U(2)	U(2)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	U(1)	U(2)	U(2)	15	0.58	U(2)	U(1)
		09/22/95	U(2)	U(2)	0.08	U(2)	NA	U(2)	U(2)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	44	U(1)	U(2)	U(2)	9.5	0.41	U(2)	U(1)
		10/20/95	U(2)	U(2)	U(2)	U(2)	NA	U(2)	U(2)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45	U(2)	U(2)	U(2)	9.8	U(2)	U(2)	U(2)
		01/26/96	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	38	U(1)	U(1)	U(1)	8.5	U(1)	U(1)	U(1)
		03/24/98	U(1)	U(1)	0.1 J	0.2 J	5	U(0.5)	U(1)	NA	0.7 J	NA	NA	U(1)	NA	NA	U(10)	0.3 J	U(1)	NA	NA	NA	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	NA	NA	42	U(1)	U(1)	U(0.5)	9	0.2 J	U(0.5)	NA
		03/24/98*	U(1)	U(1)	0.1 J	U(1)	4	U(0.5)	U(1)	NA	0.7 J	NA	NA	U(1)	NA	NA	U(10)	0.3 J	U(1)	NA	NA	NA	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	NA	NA	43	U(1)	U(1)	U(0.5)	8	0.2 J	U(0.5)	NA
		09/03/98	U(1)	U(1)	U(1)	U(1)	3	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	NA	NA	41	U(1)	U(1)	U(0.5)	7	U(1)	U(0.5)	NA
		09/03/98*	U(1)	U(1)	U(1)	U(1)	3	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	NA	NA	NA	U(1)	NA	NA	NA	43	U(1)	U(1)	U(0.5)	7	U(1)	U(0.5)	NA
		08/19/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	1	0.6	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	2	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		07/08/03	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		01/05/04	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.1	U(0.2)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(2)	1.3	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	3.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	23	U(0.5)	U(0.5)	U(0.2)	5.7	U(0.5)	U(0.2)	NA
		01/26/05	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	U(10)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	1.1	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)
		02/25/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	5.4	U(1)	U(1)	U(0.5)	2.2	U(10)	U(0.5)	NA
		02/25/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	3.8	U(1)	U(1)	U(0.5)	2.6	U(10)	U(0.5)	NA
		06/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.46 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	8.6	U(1)	U(0.5)	U(0.5)	2.5	U(5)	U(0.5)	U(2)
		09/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.63	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	10.4	U(1)	U(0.5)	U(0.5)	2.9	U(5)	U(0.5)	U(2)
		12/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.4 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	9.5	U(1)	U(0.5)	U(0.5)	2.7	U(5)	U(0.5)	U(2)
		03/04/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.4 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	6	U(1)	U(0.5)	U(0.5)	2.3	U(5)	U(0.5)	U(2)
		11/29/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.65	U(1)	U(0.5)	U(0.5)	0.41 J	U(5)	U(0.5)	U(2)
		05/29/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.96	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.73 J	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	6	U(1)	U(0.5)	U(0.5)	3	U(5)	U(0.5)	U(2)
		12/10/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.59	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	2.1	NA	U(2)	U(1)	NA	U(10)	U(2)	6.3	U(1)	U(0.5)	U(0.5)	2.3	U(5)	U(0.5)	U(2)
		08/27/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	6.7	U(1)	U(0.5)	U(0.5)	1.6	U(5)	U(0.5)	U(2)
		04/07/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	3.6	U(1)	U(0.5)	U(0.5)	0.87	U(5)	U(0.5)	U(2)
		09/15/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	2.1	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	7	U(0.5)	U(0.5)	U(0.5)	1.8	U(0.5)	U(0.5)	NA
MW6-37	40-55	08/24/95	U(2)	U(2)	U(2)	U(2)	NA	U(2)	U(2)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	U(1)	U(2)	U(2)	9.7	0.32	U(2)	U(1)
		09/22/95	U(2)	U(2)	0.11	U(2)	NA	U(2)	U(2)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	60	U(1)	U(2)	U(2)	14	0.59	U(2)	U(1)
		10/20/95	U(5)	U(5)	U(5)	U(5)	NA	U(5)	U(5)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	55	U(5)	U(5)	U(5)	12	U(5)	U(5)	U(5)
		01/26/96	U(2)	U(2)	U(2)	U(2)	NA	U(2)	U(2)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	U(1)	U(2)	U(2)	11	U(2)	U(2)	U(1)
		03/24/98	U(1)	U(1)	U(1)	0.4 J	4	U(0.5)	U(1)	NA	0.8 J	NA	NA	U(1)	NA	NA	U(10)	U(1)	0.3 J	NA	NA	NA	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	NA	NA	23	0.2 J	U(1)	U(0.5)	7	0.1 J	U(0.5)	NA
		03/24/98*	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/03/98	U(1)	U(1)	U(1)	U(1)	7	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	U(10)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	NA	NA	42	8	U(1)	U(0.5)	8	U(1)	U(0.5)	NA
		03/28/02	U(1)	U(1)	U(1)	U(1)	0.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	5	U(1)	U(1)	U(0.5)	2	U(1)	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-37	40-55	08/13/02		U(1)	0.5	U(1)	U(1)	0.5	2	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	4	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		09/14/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.91	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	1.3 J	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/06/07		NA	U(0.5)	U(0.5)	U(0.5)	0.43 J	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	3.7	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)
		08/08/07		NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW6-44	322-332	03/29/95		NA	U(0.3)	U(0.08)	U(0.1)	U(0.13)	U(0.2)	NA	NA	NA	NA	NA	U(0.11)	NA	U(0.08)	0.21	U(0.08)	NA	U(0.07)	NA	NA	U(0.1)	NA	NA	NA	NA	NA	NA	NA	U(0.17)	NA	NA	U(0.2)	U(0.05)	U(0.09)	NA	U(0.1)
		08/08/95		NA	U(0.53)	U(0.35)	U(0.65)	U(0.32)	U(0.77)	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		10/17/95		NA	U(0.53)	0.35	U(0.65)	U(0.32)	U(0.77)	NA	NA	NA	NA	NA	0.17	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	0.96	NA	U(0.64)
		07/08/97		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/02/98		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(2)	NA	U(1)
		07/14/98		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		04/02/02		NA	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)
		12/05/02		NA	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)
		10/22/03		NA	U(1)	NA	NA	U(1)	U(1)	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)
		07/24/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		10/27/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/24/09	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/04/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		06/04/09*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.24 J	U(0.5)
		09/03/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/02/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/04/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/31/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/10*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.28 J	U(0.5)
		05/24/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/11*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/29/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/29/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/29/12*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/10/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/13	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/13*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/07/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/07/14*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/15/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
		09/15/14*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-45	224-234	03/29/95		NA	U(0.3)	U(0.08)	U(0.1)	U(0.13)	4.5	NA	NA	NA	NA	NA	U(0.11)	NA	U(0.08)	U(0.16)	U(0.08)	NA	U(0.07)	NA	NA	U(0.1)	NA	NA	NA	NA	NA	NA	NA	U(0.17)	NA	NA	U(0.2)	U(0.05)	U(0.09)	NA	U(0.1)
		05/02/95		NA	U(1)	U(1)	U(1)	U(1)	2.1	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	NA	U(1)
		08/08/95		NA	U(0.53)	U(0.35)	U(0.65)	U(0.32)	2.3	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		10/17/95		NA	U(0.53)	0.35	0.65	U(0.32)	3	NA	NA	NA	NA	NA	0.17	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		07/09/97		U(1)	U(1)	U(1)	U(1)	U(1)	1.8	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/02/98		U(1)	U(1)	U(1)	U(1)	U(1)	1	NA	NA	NA	NA	NA	U(2)	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(2)	NA	U(1)
		07/14/98		U(1)	U(1)	U(1)	U(1)	U(1)	1.1	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		05/29/02		NA	U(1)	NA	NA	U(1)	1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)
		12/23/02		NA	U(1)	NA	NA	U(1)	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)
		10/22/03		NA	U(1)	NA	NA	U(1)	1.3	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)
		07/24/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		10/27/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		10/27/08*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/24/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/24/09*	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/04/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.33 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.25 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.24 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-37	40-55	08/13/02	U(1)	U(1)	U(1)	U(1)	4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	25	U(1)	U(1)	U(0.5)	13	U(1)	U(0.5)	NA
		09/14/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	1	NA	NA	U(0.5)	NA	NA	NA	5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	U(0.5)	U(0.5)	NA
		08/06/07	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	0.22 J	U(0.5)	U(0.5)	U(5)	U(0.5)	1.5	NA	NA	NA	0.14 J	0.62	2.8	NA	NA	U(0.5)	NA	NA	NA	12	0.5	U(0.5)	U(0.5)	4.2	U(0.5)	U(0.5)	NA
		08/08/07	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW6-44	322-332	03/29/95	U(0.17)	U(0.07)	U(0.08)	0.17	U(0.11)	U(0.09)	U(0.1)	NA	NA	NA	NA	U(0.14)	NA	NA	NA	NA	U(0.52)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.08)	U(0.13)	U(0.09)	U(0.05)	U(0.09)	U(0.1)	U(0.22)	U(0.22)
		08/08/95	U(0.3)	U(0.47)	U(0.36)	U(0.69)	U(0.86)	U(0.37)	U(0.6)	NA	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	U(0.95)	U(0.95)	NA	NA	NA	U(0.95)	NA	NA	NA	U(0.68)	U(0.22)	U(0.49)	U(0.05)	U(0.44)	U(0.58)	U(0.59)	NA
		10/17/95	U(0.3)	U(0.47)	U(0.36)	U(0.69)	U(0.86)	U(0.37)	NA	U(0.6)	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.68)	U(0.22)	U(0.49)	U(0.25)	U(0.44)	U(0.58)	U(0.59)	U(0.95)
		07/08/97	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)
		02/02/98	U(1)	U(2)	U(1)	U(2)	U(0.5)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(2)	U(2)	U(1)
		07/14/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)
		04/02/02	NA	NA	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(10)	U(1)	NA	NA	NA	NA	U(4)	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	U(0.5)	U(1)
		12/05/02	NA	NA	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	U(1)	NA	NA	NA	NA	U(4)	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	U(0.5)	U(1)
		10/22/03	NA	NA	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	U(1)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	U(1)	U(1)	NA	NA	U(1)	U(1)	U(0.5)	U(1)
		07/24/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		10/27/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/24/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		06/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		06/04/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	0.23 J	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		03/04/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/26/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/31/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/30/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/30/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/24/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(0.1)	NA	U(5)	U(1)	NA	U(10)	U(5)	0.21 J	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/24/11*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(0.1)	NA	U(5)	U(1)	NA	U(10)	U(5)	0.21 J	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/29/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(0.1)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/29/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/29/12*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/10/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/27/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.22 J	U(5)	U(0.5)	U(2)
		08/27/13*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.23 J	U(5)	U(0.5)	U(2)
		04/07/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	0.31 J	U(1)	U(0.5)	U(0.5)	0.26 J	U(5)	U(0.5)	U(2)
		04/07/14*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	0.36 J	U(1)	U(0.5)	U(0.5)	0.26 J	U(5)	U(0.5)	U(2)
		09/15/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.1)	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	0.32 J	U(0.5)	U(0.5)	U(0.5)	0.28 J	U(0.5)	U(0.5)	NA
		09/15/14*	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.1)	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	0.3 J	U(0.5)	U(0.5)	U(0.5)	0.28 J	U(0.5)	U(0.5)	NA
MW6-45	224-234	03/29/95	U(0.17)	U(0.07)	U(0.08)	U(0.08)	2.6	U(0.09)	U(0.1)	NA	NA	NA	NA	U(0.14)	NA	NA	NA	NA	U(0.52)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	U(0.13)	U(0.09)	U(0.05)	6.1	0.12	U(0.22)	U(0.22)
		05/02/95	U(1)	U(1)	U(1)	U(1)	1.7	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	8.2	U(1)	U(1)	U(1)	5.2	U(1)	U(1)	U(1)
		08/08/95	U(0.3)	U(0.47)	U(0.36)	U(0.69)	0.98	U(0.37)	U(0.6)	NA	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	U(0.95)	U(0.95)	NA	NA	NA	U(0.95)	NA	NA	NA	5.4	U(0.22)	U(0.49)	U(0.05)	2.1	U(0.58)	U(0.59)	NA
		10/17/95	U(0.3)	0.47	U(0.36)	0.69	1.7	U(0.37)	NA	U(0.6)	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.2	U(0.22)	U(0.49)	U(0.25)	4.3	U(0.58)	U(0.59)	U(0.95)
		07/09/97	U(1)	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	6.4	U(1)	U(1)	U(1)	2.9	0.21	U(1)	U(1)
		02/02/98	U(1)	U(2)	U(1)	U(2)	0.85	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	U(10)	U(5)	NA	NA	NA	NA	NA	U(4)	NA	NA	U(1)	NA	NA	NA	4.4	U(1)	U(0.5)	U(1)	2	U(2)	U(2)	U(1)
		07/14/98	U(1)	U(1)	U(1)	U(1)	0.85 J	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	4.6	U(1)	U(1)	U(1)	2.3	U(1)	U(1)	U(1)
		05/29/02	NA	NA	U(1)	U(1)	0.78 J	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(0.31)	U(1)	NA	NA	NA	NA	U(4)	NA	NA	NA	NA	NA	NA	5.6	U(1)	NA	NA	2.2	2.2	U(0.5)	U(1)
		12/23/02	NA	NA	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(10)	U(1)	NA	NA	NA	NA	U(4)	NA	NA	NA	NA	NA	NA	1.5	U(1)	NA	NA	0.81 J	U(1)	U(0.5)	NA
		10/22/03	NA	NA	U(1)	U(1)	0.91 J	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	U(1)	NA	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	6.1	U(1)	NA	NA	2.6	U(1)	U(0.5)	U(1)
		07/24/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	1.8	U(1)	U(1)	U(0.5)	1.9	U(10)	U(0.5)	NA
		10/27/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	1.6	U(1)	U(1)	U(0.5)	1.7	U(10)	U(0.5)	NA
		10/27/08*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	1.5	U(1)	U(1)	U(0.5)	1.7	U(10)	U(0.5)	NA
		02/24/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	1.3	U(10)	U(0.5)	NA
		02/24/09*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	1.2	U(10)	U(0.5)	NA
		06/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	0.91	U(1)	U(0.5)	U(0.5)	1.2	U(5)	U(0.5)	U(2)
		09/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.1	U(1)	U(0.5)	U(0.5)	1.2	U(5)	U(0.5)	U(2)
		09/03/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.2	U(1)	U(0.5)	U(0.5)	1.3	U(5)	U(0.5)	U(2)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-45	224-234	12/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/04/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.34 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.29 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/31/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.47 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.26 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/29/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.44 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/29/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.31 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/10/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.39 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/07/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.47 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/15/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.31 J	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-61	446-456	12/13/94		NA	U(0.29)	U(0.35)	U(0.24)	U(0.33)	U(0.41)	NA	NA	NA	NA	NA	NA	NA	U(0.41)	U(0.22)	U(0.3)	NA	U(0.88)	NA	NA	U(0.35)	NA	NA	NA	NA	NA	NA	NA	U(0.17)	NA	NA	U(0.3)	U(0.2)	U(0.34)	NA	U(0.31)
		08/07/95		NA	U(0.53)	U(0.35)	U(0.65)	U(0.32)	U(0.77)	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		10/19/95		NA	U(0.53)	U(0.35)	U(0.65)	U(0.32)	U(0.77)	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		07/10/97		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/04/98		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(2)	NA	U(1)
		07/16/98		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		03/18/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		07/25/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		10/29/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		10/29/08*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/24/09	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/05/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	1.1	U(0.5)
		09/04/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/04/09*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/05/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/27/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/01/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/01/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/01/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/31/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/12/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/13	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/08/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/22/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-62	315-325	12/13/94		NA	U(0.29)	U(0.35)	U(0.24)	U(0.33)	0.52	NA	NA	NA	NA	NA	NA	NA	U(0.41)	U(0.22)	U(0.3)	NA	U(0.88)	NA	NA	U(0.35)	NA	NA	NA	NA	NA	NA	NA	U(0.17)	NA	NA	U(0.3)	U(0.2)	U(0.34)	NA	1.2
		05/05/95		NA	U(0.3)	U(0.083)	U(0.1)	U(0.13)	0.73	NA	NA	NA	NA	NA	U(0.11)	NA	U(0.08)	U(0.16)	U(0.083)	NA	U(0.066)	NA	NA	U(0.1)	NA	NA	NA	NA	NA	NA	NA	U(0.17)	NA	NA	U(0.2)	U(0.051)	U(0.095)	NA	0.32
		08/07/95		NA	U(0.53)	U(0.35)	U(0.65)	U(0.32)	U(0.77)	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		10/19/95		NA	U(0.53)	U(0.35)	U(0.65)	U(0.32)	1.9	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	0.8
		07/10/97		U(1)	U(1)	U(1)	U(1)	U(1)	1.9	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	1.6
		02/05/98		U(1)	U(1)	U(1)	U(1)	U(1)	1.8	NA	NA	NA	NA	NA	U(2)	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(2)	NA	U(1)
		07/16/98		U(1)	U(1)	U(1)	U(1)	U(1)	2.2	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	1.1
		03/18/02		U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	1.4
		08/26/02		U(1)	U(1)	U(1)	U(1)	U(1)	2	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	1.6
		10/28/03		NA	U(1)	NA	NA	U(1)	1.8	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	1.6
		12/07/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	1.5
		11/30/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	1.5
		11/30/11*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.5
		05/30/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.26 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	1.4
		12/11/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.26 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	1.5
		08/26/13	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.12 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	1.6
		04/07/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.27 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	1.5

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-45	224-234	12/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.5	U(1)	U(0.5)	U(0.5)	1.5	U(5)	U(0.5)	U(2)
		03/04/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.1	U(1)	U(0.5)	U(0.5)	1.5	U(5)	U(0.5)	U(2)
		05/26/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.3	U(1)	U(0.5)	U(0.5)	1.5	U(5)	U(0.5)	U(2)
		08/31/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.3 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.4	U(1)	U(0.5)	U(0.5)	1.6	U(5)	U(0.5)	U(2)
		11/30/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.41 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.3	U(1)	U(0.5)	U(0.5)	1.6	U(5)	U(0.5)	U(2)
		05/24/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(0.1)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.8	U(1)	U(0.5)	U(0.5)	1.6	U(5)	U(0.5)	U(2)
		11/29/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.35 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(0.1)	NA	U(5)	U(1)	NA	U(10)	U(5)	1.9	U(1)	U(0.5)	U(0.5)	1.6	U(5)	U(0.5)	U(2)
		05/29/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.37 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	1.4	U(1)	U(0.5)	U(0.5)	1.3	U(5)	U(0.5)	U(2)
		12/10/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.22 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	3.2 J	U(2)	1.9	U(1)	U(0.5)	U(0.5)	1.4	U(5)	U(0.5)	U(2)
		08/27/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	0.87	U(1)	U(0.5)	U(0.5)	0.75	U(5)	U(0.5)	U(2)
		04/07/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.45 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	2	U(1)	U(0.5)	U(0.5)	1.7	U(5)	U(0.5)	U(2)
		09/15/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.67	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.1)	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	1	U(0.5)	U(0.5)	U(0.5)	1.4	U(0.5)	U(0.5)	NA
MW6-61	446-456	12/13/94	U(0.23)	U(0.29)	U(0.2)	U(0.28)	U(0.19)	U(0.21)	U(0.53)	NA	NA	NA	NA	U(0.14)	NA	NA	NA	NA	U(0.25)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.61)	0.18	U(0.39)	U(0.17)	U(0.37)	U(0.42)	U(0.36)	0.4
		08/07/95	U(0.3)	U(0.47)	U(0.36)	U(0.69)	U(0.86)	U(0.37)	U(0.6)	NA	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	U(0.95)	U(0.95)	NA	NA	NA	U(0.95)	NA	NA	NA	U(0.68)	U(0.22)	U(0.49)	U(0.05)	U(0.44)	U(0.58)	U(0.59)	NA
		10/19/95	U(0.3)	U(0.47)	U(0.36)	U(0.69)	U(0.86)	U(0.37)	NA	U(0.6)	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.68)	U(0.22)	U(0.49)	U(0.25)	U(0.44)	U(0.58)	U(0.59)	U(0.95)
		07/10/97	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)
		02/04/98	U(1)	U(2)	U(1)	U(2)	U(0.5)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(2)	U(2)	U(1)
		07/16/98	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)
		03/18/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		08/19/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		07/25/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		10/29/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		10/29/08*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/24/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		06/05/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/04/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		03/05/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/27/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/01/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/01/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	0.61	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/01/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	0.72	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/31/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.7	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/12/12	U(0.5)	U(0.5)	U(1)	0.51	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.66	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/27/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.64	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		04/08/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.59	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/22/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.69	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
MW6-62	315-325	12/13/94	U(0.23)	U(0.29)	U(0.2)	U(0.28)	U(0.19)	U(0.21)	U(0.53)	NA	NA	NA	NA	U(0.14)	NA	NA	NA	NA	U(0.25)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.8	U(0.13)	U(0.39)	U(0.17)	4.2	U(0.42)	U(0.36)	U(0.22)
		05/05/95	U(0.17)	U(0.073	0.13	U(0.075)	U(0.11)	U(0.095)	U(0.1)	NA	NA	NA	NA	U(0.14)	NA	NA	NA	NA	1.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.1	U(0.13)	U(0.095)	U(0.053)	4.4	0.1	U(0.22)	U(0.22)
		08/07/95	U(0.3)	U(0.47)	U(0.36)	U(0.69)	U(0.86)	U(0.37)	U(0.6)	NA	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	U(0.95)	U(0.95)	NA	NA	NA	U(0.95)	NA	NA	NA	7.3	U(0.22)	U(0.49)	U(0.05)	3.3	U(0.58)	U(0.59)	NA
		10/19/95	U(0.3)	U(0.47)	U(0.36)	U(0.69)	U(0.86)	U(0.37)	NA	U(0.6)	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.6	U(0.22)	U(0.49)	U(0.25)	4	U(0.58)	U(0.59)	U(0.95)
		07/10/97	U(1)	U(1)	0.43	U(1)	0.25	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	11	U(1)	U(1)	U(1)	6	0.74	U(1)	U(1)
		02/05/98	U(1)	U(2)	0.4 J	U(2)	0.25 J	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	10	U(1)	U(0.5)	U(1)	5.3	0.67 J	U(2)	U(1)
		07/16/98	U(1)	U(1)	0.48 J	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	11	U(1)	U(1)	U(1)	6.2	0.72 J	U(1)	U(1)
		03/18/02	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	12	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	7	0.9	U(0.5)	NA
		08/26/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	1	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	12	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	7	0.7	U(0.5)	NA
		10/28/03	NA	NA	0.48 J	U(1)	U(1)	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	U(1)	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	14	U(1)	NA	NA	5.1	0.51 J	U(0.5)	U(1)
		12/07/09	U(0.5)	U(0.5)	0.49 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	12	NA	U(5)	U(1)	NA	U(10)	U(5)	10.5	U(1)	U(0.5)	U(0.5)	4.1	0.54 J	U(0.5)	U(2)
		11/30/11	U(0.5)	U(0.5)	0.51 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	10	NA	U(5)	U(1)	NA	U(10)	U(5)	13.7	U(1)	U(0.5)	U(0.5)	4.3	0.57 J	U(0.5)	U(2)
		11/30/11*	U(0.5)	U(0.5)	0.51 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	11	NA	U(5)	U(1)	NA	U(10)	U(5)	13.8	U(1)	U(0.5)	U(0.5)	4.3	0.58 J	U(0.5)	U(2)
		05/30/12	U(0.5)	U(0.5)	0.42 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	13	NA	U(2)	U(1)	NA	U(10)	U(2)	11.4	U(1)	U(0.5)	U(0.5)	3.6	0.49 J	U(0.5)	U(2)
		12/11/12	U(0.5)	U(0.5)	0.49 J	0.64	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	13.6	U(1)	U(0.5)	U(0.5)	3.9	0.5 J	U(0.5)	U(2)
		08/26/13	U(0.5)	U(0.5)	0.42 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.26 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	11	NA	U(2)	U(1)	NA	U(10)	U(2)	13.9	U(1)	U(0.5)	U(0.5)	3.8	0.59 J	U(0.5)	U(2)
		04/07/14	U(0.5)	U(0.5)	0.47 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	12.8	U(1)	U(0.5)	U(0.5)	3.6	0.45 J	U(0.5)	U(2)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-62	315-325	04/08/14	PS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/19/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.6	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	1.5
MW6-63	197-212	12/12/94		NA	4.2	U(0.35)	U(0.24)	1.9	13	NA	NA	NA	NA	NA	NA	NA	U(0.41)	0.36	U(0.3)	NA	U(0.88)	NA	NA	U(0.35)	NA	NA	NA	NA	NA	NA	NA	U(0.17)	NA	NA	U(0.3)	U(0.2)	U(0.34)	NA	U(0.31)
		08/07/95		NA	1.7	NA	U(0.65)	U(0.32)	13	NA	NA	NA	NA	NA	NA	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		08/31/95		NA	2.3	U(0.35)	U(0.65)	1.9	18	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		10/19/95		NA	1.8	NA	U(0.65)	1.8	11	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		07/10/97		U(1)	U(1)	U(1)	U(1)	1.6	11	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		02/04/98		U(1)	U(1)	U(1)	U(1)	1.4	8.4	NA	NA	NA	NA	NA	U(2)	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(2)	NA	U(1)
		02/04/98*		NA	U(1)	NA	NA	1.4	8.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	U(1)
		07/16/98		U(1)	0.67 J	U(1)	U(1)	1.5	9.8	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		07/16/98*		NA	0.66 J	NA	NA	1.6	9.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	U(0.5)
		03/18/02		U(1)	U(1)	U(1)	U(1)	0.8	8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		03/18/02*		U(1)	U(1)	U(1)	U(1)	0.9	8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/19/02		U(1)	U(1)	U(1)	U(1)	0.8	8	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	3	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		10/21/03		NA	U(1)	NA	NA	0.42 J	4.3	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.6	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	U(0.5)
		07/24/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	1.8	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		10/29/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	2.1	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/24/09	PS	U(1)	U(1)	U(1)	U(1)	U(1)	2.5	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/04/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.7 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/04/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.7 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/01/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/04/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	1.4	U(0.5)
		08/31/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.8 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/31/10*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.7 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.38 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/30/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.47 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/30/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.44 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/30/12*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.42 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/11/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.4 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/26/13	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.32 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/08/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.34 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/15/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-64	17-37	12/01/11	PS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/01/11*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.45 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/31/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.15 J	NA	NA	NA	10.4 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/31/12*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.48 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.18 J	NA	NA	NA	10.4 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/11/12	PS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/12/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.72	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.14 J	NA	NA	NA	6.4 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/26/13	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.59	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.26 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/08/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.53	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.13 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/15/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.6	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-65	97-112	12/02/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.47 J	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/30/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.41 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.25 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/11/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.56	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.32 J	NA	NA	NA	10.6 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/26/13	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.21 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/19/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.48 J	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.54	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW6-71	210-230	04/11/95		NA	U(0.3)	U(0.08)	U(0.1)	U(0.13)	U(0.2)	NA	NA	NA	NA	NA	U(0.11)	NA	U(0.08)	U(0.16)	U(0.08)	NA	U(0.07)	NA	NA	U(0.1)	NA	NA	NA	NA	NA	NA	NA	U(0.17)	NA	NA	U(0.2)	U(0.05)	U(0.09)	NA	U(0.1)
		05/16/95		NA	U(0.3)	U(0.08)	U(0.1)	U(0.13)	U(0.2)	NA	NA	NA	NA	NA	U(0.11)	NA	U(0.08)	U(0.16)	U(0.08)	NA	U(0.06)	NA	NA	U(0.1)	NA	NA	NA	NA	NA	NA	NA	U(0.17)	NA	NA	U(0.2)	U(0.05)	U(0.09)	NA	U(0.1)
		08/09/95		NA	U(0.53)	U(0.35)	U(0.65)	U(0.32)	U(0.77)	NA	NA	NA	NA	NA	U(0.17)	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		10/18/95		NA	U(0.53)	NA	U(0.65)	U(0.32)	U(0.77)	NA	NA	NA	NA	NA	NA	NA	U(0.4)	U(0.51)	U(0.47)	NA	U(0.27)	NA	NA	U(0.4)	NA	NA	NA	NA	NA	NA	NA	U(0.2)	NA	NA	U(0.37)	U(0.14)	U(0.96)	NA	U(0.64)
		07/10/97		U(1)	U(1)	U(1)	U(1)	U(1)	0.32	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	0.28
		02/04/98		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(2)	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(2)	NA	U(1)
		02/04/98*		NA	U(1)	NA	NA	U(1)	0.11 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	U(1)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-62	315-325	04/08/14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/19/14	U(0.5)	U(0.5)	0.53	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)	0.29 J	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	14	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	14	U(0.5)	U(0.5)	U(0.5)	3.9	0.53	U(0.5)	NA
MW6-63	197-212	12/12/94	U(0.23)	U(0.29)	0.93	U(0.28)	3.8	U(0.21)	U(0.53)	NA	NA	NA	NA	U(0.14)	NA	NA	NA	NA	U(0.29)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	120	U(0.13)	U(0.39)	U(0.17)	18	2.6	U(0.36)	U(0.22)
		08/07/95	U(0.3)	U(0.47)	0.43	U(0.69)	3.1	U(0.37)	U(0.6)	NA	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	U(0.95)	U(0.95)	NA	NA	NA	U(0.95)	NA	NA	NA	98	U(0.22)	U(0.49)	U(0.053)	16	3.2	U(0.59)	NA
		08/31/95	U(0.3)	U(0.47)	1.3	U(0.69)	4.4	U(0.37)	U(0.6)	NA	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.79)	NA	NA	NA	U(0.95)	U(0.95)	NA	NA	NA	U(0.95)	NA	NA	NA	81	U(0.22)	U(0.49)	U(0.05)	19	2.4	U(0.59)	NA
		10/19/95	U(0.3)	NA	0.55	NA	3.7	U(0.37)	NA	U(0.6)	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81	U(0.22)	U(0.49)	U(0.25)	15	2.9	NA	U(0.95)
		07/10/97	U(1)	U(1)	0.56	U(1)	2.4	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	91	U(1)	U(1)	U(1)	19	3.3	U(1)	U(1)
		02/04/98	U(1)	U(2)	0.45 J	U(2)	2.1	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	U(10)	U(5)	NA	NA	NA	NA	NA	5.96	NA	NA	U(1)	NA	NA	NA	64	1.5	U(0.5)	U(1)	15	2.2	U(2)	U(1)
		02/04/98*	NA	NA	0.46 J	U(2)	2.2	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	U(4)	NA	NA	NA	NA	NA	NA	67	1.6	NA	NA	15	2.3	U(2)	U(1)
		07/16/98	U(1)	U(1)	0.53 J	U(1)	2.5	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	65	U(1)	U(1)	U(1)	18	2.4	U(1)	U(1)
		07/16/98*	NA	NA	0.55 J	U(1)	2.6	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	65	U(1)	NA	NA	18	2.4	U(1)	U(1)
		03/18/02	U(1)	U(1)	U(1)	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	NA	NA	U(1)	50	U(1)	U(1)	U(0.5)	13	1	U(0.5)	NA
		03/18/02*	U(1)	U(1)	U(1)	U(1)	1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	60	U(1)	U(1)	U(0.5)	13	1	U(0.5)	NA
		08/19/02	U(1)	U(1)	U(1)	U(1)	2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	3	U(1)	U(1)	U(1)	NA	NA	U(1)	52	U(1)	U(1)	U(0.5)	12	1	U(0.5)	NA
		10/21/03	NA	NA	0.34 J	U(1)	1.6	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	U(1)	NA	NA	NA	NA	U(10)	NA	NA	NA	NA	NA	NA	38	0.63 J	NA	NA	11	0.75 J	U(0.5)	U(1)
		07/24/08	U(1)	U(1)	U(1)	U(10)	1.1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	3.4	U(1)	U(1)	U(1)	NA	NA	U(1)	20	U(1)	U(1)	U(0.5)	5.5	U(10)	U(0.5)	NA
		10/29/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	2.1	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	4.8	U(10)	U(0.5)	NA
		02/24/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	16	U(1)	U(1)	U(0.5)	4.8	U(10)	U(0.5)	NA
		06/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.82	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	21.9	U(1)	U(0.5)	U(0.5)	4.9	0.48 J	U(0.5)	U(2)
		09/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	0.95	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	20.6	U(1)	U(0.5)	U(0.5)	4.6	0.39 J	U(0.5)	U(2)
		12/01/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	23.5	U(1)	U(0.5)	U(0.5)	5.4	0.58 J	U(0.5)	U(2)
		03/04/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.83	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	15.2	U(1)	U(0.5)	U(0.5)	4.4	0.4 J	U(0.5)	U(2)
		05/26/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.92	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	18	U(1)	U(0.5)	U(0.5)	4.5	0.5 J	U(0.5)	U(2)
		08/31/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.97	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	21.3	U(1)	U(0.5)	U(0.5)	5	0.56 J	U(0.5)	U(2)
		08/31/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	0.91	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	20.3	U(1)	U(0.5)	U(0.5)	4.8	0.5 J	U(0.5)	U(2)
		11/30/10	U(0.5)	U(0.5)	0.33 J	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	15.5	U(1)	U(0.5)	U(0.5)	5	0.59 J	U(0.5)	U(2)
		05/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.78	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	4	NA	U(5)	U(1)	NA	U(10)	U(5)	21.3	U(1)	U(0.5)	U(0.5)	4.8	0.62 J	U(0.5)	U(2)
		11/30/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.94	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	4.5	NA	U(5)	U(1)	NA	U(10)	U(5)	22.5	U(1)	U(0.5)	U(0.5)	4.9	0.48 J	U(0.5)	U(2)
		05/30/12	U(0.5)	U(0.5)	0.23 J	U(0.5)	0.72	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.4	NA	U(2)	U(1)	NA	U(10)	U(2)	18	U(1)	U(0.5)	U(0.5)	3.9	0.46 J	U(0.5)	U(2)
		05/30/12*	U(0.5)	U(0.5)	0.22 J	U(0.5)	0.72	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	17.8	U(1)	U(0.5)	U(0.5)	4	0.44 J	U(0.5)	U(2)
		12/11/12	U(0.5)	U(0.5)	0.24 J	0.52	0.69	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.4	NA	U(2)	U(1)	NA	U(10)	U(2)	19.9	U(1)	U(0.5)	U(0.5)	4	0.41 J	U(0.5)	U(2)
		08/26/13	U(0.5)	U(0.5)	0.25 J	U(0.5)	0.73	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.1	NA	U(2)	U(1)	NA	U(10)	U(2)	19.9	U(1)	U(0.5)	U(0.5)	4.1	U(5)	U(0.5)	U(2)
		04/08/14	U(0.5)	U(0.5)	0.25 J	U(0.5)	0.58	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3.9	NA	U(2)	U(1)	NA	U(10)	U(2)	19.8	U(1)	U(0.5)	U(0.5)	3.6	0.33 J	U(0.5)	U(2)
		09/15/14	U(0.5)	U(0.5)	0.27 J	U(0.5)	0.62	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.9	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	17	U(0.5)	U(0.5)	U(0.5)	3.6	0.41 J	U(0.5)	NA
MW6-64	17-37	12/01/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/01/11*	U(0.5)	U(0.5)	0.68 J	U(0.5)	0.72	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	2.6	NA	U(5)	U(1)	NA	U(10)	U(5)	9.7	U(1)	U(0.5)	U(0.5)	2.8	U(5)	U(0.5)	U(2)
		05/31/12	U(0.5)	U(0.5)	0.46 J	U(0.5)	0.88	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.26 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	2.8	NA	U(2)	U(1)	NA	2.6 J	U(2)	10.9	U(1)	U(0.5)	U(0.5)	3.4	U(5)	U(0.5)	U(2)
		05/31/12*	U(0.5)	U(0.5)	0.49 J	U(0.5)	0.88	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.26 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	10.7	U(1)	U(0.5)	U(0.5)	3.3	U(5)	U(0.5)	U(2)
		12/11/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		12/12/12	U(0.5)	U(0.5)	0.48 J	0.59	1.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.32 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	2.4	NA	U(2)	U(1)	NA	U(10)	U(2)	17.6	U(1)	U(0.5)	U(0.5)	5.2	U(5)	U(0.5)	U(2)
		08/26/13	U(0.5)	U(0.5)	0.44 J	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.41 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	1.9	NA	U(2)	U(1)	NA	U(10)	U(2)	17.2	U(1)	U(0.5)	U(0.5)	4.6	U(5)	U(0.5)	U(2)
		04/08/14	U(0.5)	U(0.5)	0.34 J	U(0.5)	1.4	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.44 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	1.7	NA	U(2)	U(1)	NA	U(10)	U(2)	17.6	U(1)	U(0.5)	U(0.5)	4.6	U(5)	U(0.5)	U(2)
		09/15/14	U(0.5)	U(0.5)	0.35 J	U(0.5)	1.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.47 J	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	1.9	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	16	U(0.5)	U(0.5)	U(0.5)	4.6	U(0.5)	U(0.5)	NA
MW6-65	97-112	12/02/11	U(0.5)	U(0.5)	U(1)	U(0.5)	8.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	0.87	NA	U(5)	U(1)	NA	U(10)	U(5)	23.5	U(1)	U(0.5)	U(0.5)	14.6	U(5)	U(0.5)	U(2)
		05/30/12	U(0.5)	U(0.5)	U(1)	U(0.5)	8.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.39 J	U(10)	U(5)	U(2)	NA	NA	NA	4.1	NA	U(2)	U(1)	NA	U(10)	U(2)	28.3	U(1)	0.22 J	U(0.5)	14.6	0.4 J	0.2 J	U(2)
		12/11/12	U(0.5)	U(0.5)	U(1)	0.57	11.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.43 J	U(10)	U(5)	U(2)	NA	NA	NA	2	NA	U(2)	U(1)	NA	U(10)	U(2)	37.2	U(1)	0.3 J	U(0.5)	20.4	0.43 J	0.25 J	U(2)
		08/26/13	U(0.5)	U(0.5)	U(1)	U(0.5)	10.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	0.29 J	U(10)	U(5)	U(2)	NA	NA	NA	2.9	NA	U(2)	U(1)	NA	U(10)	U(2)	46.3	U(1)	0.39 J	U(0.5)	21.2	1.2 J	0.38 J	U(2)
		09/19/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	12	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(5)	0.35 J	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	1.5	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	27	U(0.5)	0.37 J	U(0.5)	22	0.31 J	U(0.5)	NA
MW6-71	210-230	04/11/95	U(0.17)	U(0.07)	U(0.08)	U(0.12)	U(0.11)	U(0.09)	U(0.1)	NA	NA	NA	NA	U(0.14)	NA	NA	NA	NA	U(1.1)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	10	U(0.13)	U(0.09)	U(0.05)	7.4	U(0.1)	U(0.22)	U(0.22)
		05/16/95	U(0.17)	U(0.07)	U(0.08)	U(0.07)	U(0.11)	U(0.09)	U(0.1)	NA	NA	NA	NA	U(0.14)	NA	NA	NA	NA	U(0.52)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	7.4	U(0.13)	U(0.09)	U(0.05)	6	U(0.1)	U(0.22)	U(0.22)
		08/09/95	U(0.3)	U(0.47)	U(0.36)	U(0.69)	U(0.86)	U(0.37)	U(0.6)	NA	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	U(0.95)	U(0.95)	NA	NA	NA	U(0.95)	NA	NA	NA	9.5	U(0.53)	U(0.49)	U(0.05)	6.4	U(0.58)	U(0.59)	NA
		10/18/95	U(0.3)	NA	U(0.36)	NA	U(0.86)	U(0.37)	NA	U(0.6)	NA	NA	NA	U(0.21)	NA	NA	NA	NA	U(0.46)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	11	0.86	U(0.49)	U(0.25)	8.2	U(0.58)	U(0.59)	U(0.95)
		07/10/97	0.13	U(1)	0.12	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	13	0.94	U(1)	U(1)	8.1	U(1)	U(1)	U(1)
		02/04/98	U(1)	U(2)	0.23 J	U(2)	U(0.5)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	U(10)	U(5)	NA	NA	NA	NA	NA	U(4)	NA	NA	U(1)	NA	NA	NA	10	0.56 J	U(0.5)	U(1)	6.9	U(2)	U(2)	U(1)
		02/04/98*	NA	NA	0.22 J	U(2)	U(0.5)	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9.6	1.6	NA	NA	6.4	U(2)	U(2)	U(1)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW6-71	210-230	07/15/98		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	NA	U(1)	NA	U(1)	U(0.5)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	U(1)	U(1)	U(1)	NA	U(0.5)
		03/19/02		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.5
		03/19/02*		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	0.5
		07/26/04		U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.6	U(0.5)	U(0.5)	U(0.5)	U(4)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	0.6
		07/26/04		NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/15/06		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(2)	NA	NA	NA	U(5)	NA	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.62
		07/22/08		U(1)	U(1)	U(1)	U(1)	U(1)	1.4	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	0.6
		02/25/09	PS	U(1)	U(1)	U(1)	U(1)	U(1)	1.2	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/25/09*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/05/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.38 J	2.6
		09/04/09	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.43 J
		03/05/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.53
		03/05/10*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.51
		09/01/10	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.52
		05/25/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.6
		05/25/11*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.59
		12/01/11	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.47 J
		05/31/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.28 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.46 J
		12/12/12	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.19 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.48 J
		12/12/12*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.19 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.47 J
		08/27/13	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.18 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.52
		08/27/13*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.2 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.63
		04/09/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.89	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.5
		04/09/14*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.9	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.51
		09/22/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.5	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.49	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	0.52
		09/22/14*	PS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.54	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	0.37 J
MW8-1A	115-130	01/06/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.11 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		01/06/14*	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.14 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/21/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.16 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/09/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.3 J	0.91	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.51	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW8-1B	185-200	01/06/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.1 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/21/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.99	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.15 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.26 J
		09/09/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.26 J	1.9	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.29	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	0.3 J
MW8-1C	235-250	01/06/14	LF	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)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.47)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/21/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.54)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/09/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.074 J	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW8-1D	310-325	01/10/14	LF	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(0.01)	NA	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(0.48)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/21/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.57)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/09/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW8-2A	115-130	01/07/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.75	2.9	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.37 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.71	2.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.47 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/04/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.7	2.2	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.3	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW8-2B	185-200	01/07/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.64	4.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.36 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	0.75
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.54	3.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.46 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.49 J
		09/04/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.39 J	2.4	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.96	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	0.35 J
MW8-2C	230-245	01/07/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.2	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.48)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	0.55
		01/07/14*	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.1	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	0.12 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	0.57
		01/08/14	LF	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.45 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.54)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.44 J
		04/22/14*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.51)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.38 J
		09/04/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.83	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.26	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	0.34 J
MW8-2D	310-325	01/07/14	LF	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)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.48)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.51)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/04/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW6-71	210-230	07/15/98	U(1)	U(1)	0.26 J	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	11	U(1)	U(1)	U(1)	8	U(1)	U(1)	U(1)
		03/19/02	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	5	U(1)	U(1)	U(1)	NA	NA	U(1)	15	U(1)	U(1)	U(0.5)	8	U(1)	U(0.5)	NA
		03/19/02*	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	15	U(1)	U(1)	U(0.5)	8	U(1)	U(0.5)	NA
		07/26/04	U(0.5)	U(0.5)	0.2	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(4)	U(0.5)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	5.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	14	U(0.5)	U(0.5)	U(0.5)	7.2	U(0.5)	U(0.5)	NA
		07/26/04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		09/15/06	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	7.9	NA	NA	U(0.5)	NA	NA	NA	13	U(0.5)	U(0.5)	U(0.5)	5	U(0.5)	U(0.5)	NA
		07/22/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	4.6	U(1)	U(1)	U(1)	NA	NA	U(1)	11	U(1)	U(1)	U(0.5)	4.7	U(10)	U(0.5)	NA
		02/25/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	2.2	U(1)	U(1)	U(1)	NA	NA	U(1)	8.2	U(1)	U(1)	U(0.5)	3.7	U(10)	U(0.5)	NA
		02/25/09*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	2.3	U(1)	U(1)	U(1)	NA	NA	U(1)	8.5	U(1)	U(1)	U(0.5)	4	U(10)	U(0.5)	NA
		06/05/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	10.6	U(1)	U(0.5)	U(0.5)	4.3	U(5)	U(0.5)	U(2)
		09/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	10.4	U(1)	U(0.5)	U(0.5)	4	U(5)	U(0.5)	U(2)
		03/05/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	5.3	NA	U(5)	U(1)	NA	U(10)	U(5)	7.8	U(1)	U(0.5)	U(0.5)	3.9	U(5)	U(0.5)	U(2)
		03/05/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	7.9	U(1)	U(0.5)	U(0.5)	4	U(5)	U(0.5)	U(2)
		09/01/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	10.7	U(1)	U(0.5)	U(0.5)	3.9	U(5)	U(0.5)	U(2)
		05/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	5	NA	U(5)	U(1)	NA	U(10)	U(5)	11.5	U(1)	U(0.5)	U(0.5)	4.1	U(5)	U(0.5)	U(2)
		05/25/11*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	5.3	NA	U(5)	U(1)	NA	U(10)	U(5)	10.8	U(1)	U(0.5)	U(0.5)	3.8	U(5)	U(0.5)	U(2)
		12/01/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	4.9	NA	U(5)	U(1)	NA	U(10)	U(5)	11.4	U(1)	U(0.5)	U(0.5)	3.9	U(5)	U(0.5)	U(2)
		05/31/12	U(0.5)	U(0.5)	0.21 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	5.7	NA	U(2)	U(1)	NA	U(10)	U(2)	9.8	U(1)	U(0.5)	U(0.5)	3.3	U(5)	U(0.5)	U(2)
		12/12/12	U(0.5)	U(0.5)	0.22 J	0.58	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	5.4	NA	U(2)	U(1)	NA	U(10)	U(2)	11.7	U(1)	U(0.5)	U(0.5)	3.6	U(5)	U(0.5)	U(2)
		12/12/12*	U(0.5)	U(0.5)	0.2 J	0.49 J	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	5.1	NA	U(2)	U(1)	NA	U(10)	U(2)	11.7	U(1)	U(0.5)	U(0.5)	3.6	U(5)	U(0.5)	U(2)
		08/27/13	U(0.5)	U(0.5)	0.22 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	5.3	NA	U(2)	U(1)	NA	U(10)	U(2)	12.6	U(1)	U(0.5)	U(0.5)	3.6	U(5)	U(0.5)	U(2)
		08/27/13*	U(0.5)	U(0.5)	0.28 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	5.2	NA	U(2)	U(1)	NA	U(10)	U(2)	13	U(1)	U(0.5)	U(0.5)	3.9	U(5)	U(0.5)	U(2)
		04/09/14	U(0.5)	U(0.5)	0.22 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.8	NA	U(2)	U(1)	NA	U(10)	U(2)	11.4	U(1)	U(0.5)	U(0.5)	3.5	U(5)	U(0.5)	U(2)
		04/09/14*	U(0.5)	U(0.5)	0.23 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	5	NA	U(2)	U(1)	NA	U(10)	U(2)	12.2	U(1)	U(0.5)	U(0.5)	3.5	U(5)	U(0.5)	U(2)
		09/22/14	U(0.5)	U(0.5)	0.26 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	5.7	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	12	U(0.5)	U(0.5)	U(0.5)	3.7	U(0.5)	U(0.5)	NA
		09/22/14*	U(0.5)	U(0.5)	0.24 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	5.9	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	8.9	U(0.5)	U(0.5)	U(0.5)	2.9	U(0.5)	U(0.5)	NA
MW8-1A	115-130	01/06/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	9.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	4.3	U(0.5)	U(0.5)	U(0.5)	7.1	U(0.5)	U(0.5)	U(1)
		01/06/14*	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	9.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	4.8	U(0.5)	U(0.5)	U(0.5)	6.9	U(0.5)	U(0.5)	U(1)
		04/21/14	U(0.5)	U(0.5)	0.28 J	U(0.5)	0.34 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	3.6	U(1)	U(0.5)	U(0.5)	4.8	U(5)	U(0.5)	U(2)
		09/09/14	U(0.5)	U(0.5)	0.38 J	U(0.5)	0.46 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	9.3	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	4.9	U(0.5)	U(0.5)	U(0.5)	6.2	U(0.5)	U(0.5)	NA
MW8-1B	185-200	01/06/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	6.6	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	4.8	U(0.5)	U(0.5)	U(0.5)	11	U(0.5)	U(0.5)	U(1)
		04/21/14	U(0.5)	U(0.5)	0.3 J	U(0.5)	0.24 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	4.5	U(1)	U(0.5)	U(0.5)	8.1	U(5)	U(0.5)	U(2)
		09/09/14	U(0.5)	U(0.5)	0.37 J	U(0.5)	0.36 J	U(0.5)	U(0.5)	U(0.5)	0.3 J	U(0.5)	U(0.5)	U(0.5)	0.33 J	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	7.6	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	4.8	U(0.5)	U(0.5)	U(0.5)	9.5	U(0.5)	U(0.5)	NA
MW8-1C	235-250	01/06/14	U(0.5)	U(0.5)	0.79	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.5	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.1	U(0.5)	U(0.5)	U(1)
		04/21/14	U(0.5)	U(0.5)	0.49 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	1.1	U(5)	U(0.5)	U(2)
		09/09/14	U(0.5)	U(0.5)	0.52	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	5.2	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.94	U(0.5)	U(0.5)	NA
MW8-1D	310-325	01/10/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	7.9	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	0.71	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)
		04/21/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.5	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/09/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	7	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	1.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
MW8-2A	115-130	01/07/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.5	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	19	U(0.5)	U(0.5)	U(0.5)	13	U(0.5)	U(0.5)	U(1)
		04/22/14	U(0.5)	U(0.5)	0.33 J	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	18.1	U(1)	U(0.5)	U(0.5)	11.1	U(5)	U(0.5)	U(2)
		09/04/14	U(0.5)	U(0.5)	0.35 J	U(0.5)	1.2	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.3 J	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.3	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	15	U(0.5)	U(0.5)	U(0.5)	10	U(0.5)	U(0.5)	NA
MW8-2B	185-200	01/07/14	U(0.5)	U(0.5)	0.6	U(0.5)	0.92	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.9	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	15	U(0.5)	U(0.5)	U(0.5)	34	U(0.5)	U(0.5)	U(1)
		04/22/14	U(0.5)	U(0.5)	0.48 J	U(0.5)	0.93	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.38 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	12.8	U(1)	U(0.5)	U(0.5)	21.2	U(5)	U(0.5)	U(2)
		09/04/14	U(0.5)	U(0.5)	0.49 J	U(0.5)	0.68	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.37 J	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	5.4	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	5.8	U(0.5)	U(0.5)	U(0.5)	12	U(0.5)	U(0.5)	NA
MW8-2C	230-245	01/07/14	U(0.5)	U(0.5)	3.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	0.51	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	5.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1.5	U(0.5)	U(0.5)	U(0.5)	1.8	U(0.5)	U(0.5)	U(1)
		01/07/14*	U(0.5)	U(0.5)	3.7	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	5.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1.8	U(0.5)	U(0.5)	U(0.5)	2	U(0.5)	U(0.5)	U(1)
		01/08/14	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/22/14	U(0.5)	U(0.5)	2.9	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.8	U(1)	U(0.5)	U(0.5)	1.6	U(5)	U(0.5)	U(2)
		04/22/14*	U(0.5)	U(0.5)	2.9	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.6	U(1)	U(0.5)	U(0.5)	1.5	U(5)	U(0.5)	U(2)
		09/04/14	U(0.5)	U(0.5)	2.8	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)	0.29 J	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	5.5	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	1.9	U(0.5)	U(0.5)	U(0.5)	1.7	U(0.5)	U(0.5)	NA
MW8-2D	310-325	01/07/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	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)
		04/22/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/04/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	2.5	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
MW8-3A	120-130	01/08/14	LF	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)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.48)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/08/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW8-3B	148-158	01/08/14	LF	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(0.01)	NA	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(0.49)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.58	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.51)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/08/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.37 J	4.9	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW8-3C	210-225	01/08/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.25 J	3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.56	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/08/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.21 J	2.3	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.4	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW8-3D	300-315	01/08/14	LF	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)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/22/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.54)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/08/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-D1	290-310	07/22/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		02/23/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/23/09*	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/05/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		06/05/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/04/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.44 J	U(0.5)
		03/05/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/01/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/25/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/01/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/31/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/12/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/27/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/09/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/05/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
MW-D2	410-430	07/22/08	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		10/28/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		10/28/08*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/25/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/03/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.31 J	U(0.5)
		06/03/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	1.3	U(0.5)
		09/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/03/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/03/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.29 J	U(0.5)
		08/31/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.28 J	U(0.5)
		11/30/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/28/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/06/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/22/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/17/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.5)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
OP-MW-1	39-69	10/18/95		NA	67	U(3)	U(3)	550	810	NA	NA	NA	NA	NA	NA	NA	U(3)	U(3)	U(3)	NA	U(3)	NA	NA	U(3)	NA	NA	NA	NA	NA	NA	NA	0.32	NA	NA	U(3)	U(3)	U(3)	NA	U(3)
		01/15/96		NA	21	U(2)	U(2)	330	370	NA	NA	NA	NA	NA	NA	NA	U(2)	U(2)	U(2)	NA	U(2)	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	0.42	NA	NA	U(2)	U(2)	U(2)	NA	U(2)
		01/15/96*		NA	20	U(2)	U(2)	320	340	NA	NA	NA	NA	NA	NA	NA	U(2)	U(2)	U(2)	NA	U(2)	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(2)	U(2)	U(2)	NA	U(2)
		09/19/96		NA	U(30)	U(30)	U(30)	490	910	NA	NA	NA	NA	NA	NA	NA	U(30)	U(30)	U(30)	NA	U(30)	NA	NA	U(30)	NA	NA	NA	NA	U(500)	U(2000)	U(2000)	U(30)	NA	NA	U(30)	U(30)	U(30)	U(50)	U(30)
		09/18/97		NA	U(30)	U(30)	U(30)	600	1200	NA	NA	NA	NA	NA	NA	NA	U(20)	U(20)	U(20)	NA	U(30)	NA	NA	U(30)	NA	NA	NA	NA	NA	NA	NA	0.3	NA	NA	U(20)	U(20)	U(30)	NA	U(30)
		09/18/97*		NA	U(30)	U(30)	U(30)	590	1200	NA	NA	NA	NA	NA	NA	NA	U(20)	U(20)	U(20)	NA	U(30)	NA	NA	U(30)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(20)	U(20)	U(30)	NA	U(30)
		08/12/98		NA	2.2	U(1)	U(0.5)	47	94	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(1)	U(4)	NA	U(0.5)
		12/21/98		NA	4.9	U(5)	U(2.5)	200	400	NA	NA	NA	NA	NA	NA	NA	U(2.5)	U(2.5)	U(2.5)	NA	U(2.5)	NA	NA	U(2.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(2.5)	U(2.5)	U(20)	NA	U(2.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
MW8-3A	120-130	01/08/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	0.5	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	12	U(0.5)	U(0.5)	U(0.5)	NA	NA	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)
		04/22/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/08/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	13	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	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)	NA
MW8-3B	148-158	01/08/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	8.7	U(0.5)	U(0.5)	U(0.5)	NA	NA	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)
		04/22/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	0.66	U(5)	U(0.5)	U(2)
		09/08/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	9	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	0.34 J	U(0.5)	U(0.5)	U(0.5)	4.3	U(0.5)	U(0.5)	NA
MW8-3C	210-225	01/08/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	5	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	7.7	U(0.5)	U(0.5)	U(1)
		04/22/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	7.7	U(5)	U(0.5)	U(2)
		09/08/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.1	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	6	U(0.5)	U(0.5)	NA
MW8-3D	300-315	01/08/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.6	U(0.5)	U(0.5)	U(1)
		04/22/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	1.6	U(5)	U(0.5)	U(2)
		09/08/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.2	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.1	U(0.5)	U(0.5)	NA
MW-D1	290-310	07/22/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/23/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/23/09*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		06/05/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		06/05/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		03/05/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/01/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	0.73	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/01/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	0.69	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/31/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.75	NA	U(2)	U(1)	NA	2.8 J	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/12/12	U(0.5)	U(0.5)	U(1)	0.77	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.61	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/27/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.62	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		04/09/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	0.59	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/05/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.78	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	NA
MW-D2	410-430	07/22/08	U(1)	U(1)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		10/28/08	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		10/28/08*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		02/25/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(10)	U(0.5)	NA
		06/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		06/03/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/02/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/03/09	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		03/03/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(4)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/26/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/31/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/30/10	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(3)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/24/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(0.1)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/28/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	U(0.1)	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/24/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	6.7 J	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/06/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/22/13	U(0.5)	U(0.5)	U(1)	0.32 J	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		04/17/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	U(0.1)	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/03/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	U(0.1)	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	NA
OP-MW-1	39-69	10/18/95	U(3)	U(3)	U(3)	U(3)	U(3)	U(3)	U(3)	NA	NA	NA	NA	U(0.3)	U(3)	NA	NA	NA	U(10)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(3)	U(0.3)	U(3)	U(3)	U(3)	U(3)	U(3)	U(0.6)
		01/15/96	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(2)	U(0.3)	U(2)	U(2)	U(2)	U(2)	U(2)	U(0.6)
		01/15/96*	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	U(2)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(2)	U(0.3)	U(2)	U(2)	U(2)	U(2)	U(2)	U(0.6)
		09/19/96	U(30)	U(30)	U(30)	U(30)	U(30)	U(30)	U(30)	NA	NA	NA	NA	U(30)	U(50)	NA	4200	NA	U(50)	NA	NA	NA	NA	NA	NA	NA	NA	U(30)	NA	NA	NA	U(30)	U(30)	U(30)	U(30)	U(30)	U(30)	U(30)	U(80)
		09/18/97	U(20)	U(20)	U(30)	U(30)	U(20)	U(20)	U(20)	NA	NA	NA	NA	U(0.3)	U(50)	NA	NA	NA	U(50)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(20)	U(0.3)	U(50)	U(20)	U(20)	U(20)	U(20)	U(0.6)
		09/18/97*	U(20)	U(20)	U(30)	U(30)	U(20)	U(20)	U(20)	NA	NA	NA	NA	U(0.3)	U(50)	NA	NA	NA	U(50)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(20)	U(0.3)	U(50)	U(20)	U(20)	U(20)	U(20)	U(0.6)
		08/12/98	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		12/21/98	U(2.5)	U(20)	U(2.5)	U(20)	U(2.5)	U(2.5)	U(5)	NA	NA	NA	NA	U(0.3)	U(10)	NA	NA	NA	U(25)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(2.5)	0	U(2.5)	U(2.5)	2.8	U(2.5)	U(5)	U(0.6)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
OP-MW-1	39-69	03/22/99		NA	6.9	U(5)	U(2.5)	260	540	NA	NA	NA	NA	NA	NA	NA	U(2.5)	U(2.5)	U(2.5)	NA	U(2.5)	NA	NA	U(2.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(2.5)	U(2.5)	U(20)	NA	U(2.5)
		07/15/02		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/20/04		U(1)	U(1)	U(1)	U(1)	85	150	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	12	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		05/26/11		NA	U(1)	U(1)	U(1)	147	163	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	2.5	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		11/17/11	HS	NA	U(5)	U(5)	U(5)	350	627	NA	U(50)	NA	U(50)	U(50)	U(100)	U(10)	U(5)	U(5)	U(5)	U(50)	U(5)	U(10)	NA	U(5)	5	NA	NA	NA	U(200)	U(100)	U(50)	U(10)	NA	U(10)	U(5)	U(10)	U(50)	U(10)	U(5)
		05/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	344	698	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	3.7	NA	NA	NA	U(20)	U(10)	U(5)	0.26 J	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/05/12	HS	NA	U(5)	U(5)	U(5)	430	866	NA	U(20)	NA	U(20)	U(20)	U(20)	U(10)	U(5)	U(5)	U(5)	U(20)	U(5)	U(10)	NA	U(5)	7.5	NA	NA	NA	U(200)	U(100)	U(50)	U(10)	NA	U(10)	U(5)	U(10)	U(50)	U(10)	U(5)
		08/20/13	HS	NA	U(5)	U(5)	U(5)	338	493	NA	U(20)	NA	U(20)	U(20)	U(20)	U(10)	U(5)	U(5)	U(5)	U(20)	U(5)	U(10)	NA	U(5)	6.1	NA	NA	NA	U(200)	U(100)	U(50)	U(10)	NA	U(10)	U(5)	U(10)	U(50)	U(10)	U(5)
		04/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	13.3	10.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
OP-MW-2	39-69	10/17/95		NA	5.4	U(0.5)	U(0.5)	U(0.5)	12	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		01/15/96		NA	4.3	U(0.5)	U(0.5)	U(0.5)	12	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		09/18/97		NA	U(1)	U(1)	U(1)	U(1)	3.5	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(1)	NA	U(1)
		08/12/98		NA	U(0.5)	U(1)	U(0.5)	U(0.5)	2.4	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(1)	U(4)	NA	U(0.5)
		12/21/98		NA	U(0.5)	U(1)	U(0.5)	U(0.5)	2.4	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(4)	NA	U(0.5)
		03/22/99		NA	U(0.5)	U(1)	U(0.5)	U(0.5)	2.6	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(4)	NA	U(0.5)
		05/25/11		NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	NA	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/26/11		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.97)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/17/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/05/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/20/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
OP-MW-4	65-85	10/18/95		NA	U(0.5)	U(0.5)	U(0.5)	23	16	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		01/15/96		NA	0.98	U(0.5)	U(0.5)	18	18	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		09/19/96		NA	U(100)	U(100)	U(100)	U(100)	U(100)	NA	NA	NA	NA	NA	NA	NA	U(100)	U(100)	U(100)	NA	U(100)	NA	NA	U(100)	NA	NA	NA	NA	U(2000)	U(5000)	U(5000)	U(100)	NA	NA	U(100)	U(100)	U(100)	U(200)	U(100)
		09/18/97		NA	U(1)	U(1)	U(1)	22	26	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(1)	NA	U(1)
		08/12/98		NA	1.1	U(1)	U(0.5)	1.6	7.5	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(1)	U(4)	NA	U(0.5)
		12/21/98		NA	U(0.5)	U(1)	U(0.5)	18	17	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(4)	NA	U(0.5)
		03/22/99		NA	U(0.5)	U(1)	U(0.5)	14	14	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(4)	NA	U(0.5)
		07/15/02		NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/20/04		U(1)	U(1)	U(1)	U(1)	6.9	4.6	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		05/26/11		NA	U(0.5)	U(0.5)	U(0.5)	1.6	4.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/17/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.8	5.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1	1.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.47)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/05/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.6	3.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.19 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/20/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.2	7.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.13 J	NA	NA	NA	4.2 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.4	3.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.12 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/25/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.8	4.7	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.5	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
OP-MW-6	70-90	10/18/95		NA	6.3	U(0.5)	U(0.5)	U(0.5)	8.6	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		01/15/96		NA	3.8	U(0.5)	U(0.5)	0.62	10	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		09/19/96		NA	1.5	U(1)	U(1)	U(1)	5.2	NA	NA	NA	NA	NA	NA	NA	U(1)	U(1)	U(1)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	U(20)	U(50)	U(50)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(2)	U(1)
		09/18/97		NA	1.4	U(1)	U(1)	U(1)	5.3	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(1)	NA	NA	U(1)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(1)	NA	U(1)
		08/12/98		NA	U(0.5)	U(1)	U(0.5)	U(0.5)	3.2	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(1)	U(4)	NA	U(0.5)
		12/21/98		NA	U(0.5)	U(1)	U(0.5)	U(0.5)	1.4	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(4)	NA	U(0.5)
		03/22/99		NA	U(0.5)	U(1)	U(0.5)	U(0.5)	2.8	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	NA	U(0.5)	NA	NA	NA	NA	NA	NA	NA	U(0.3)	NA	NA	U(0.5)	U(0.5)	U(4)	NA	U(0.5)
		08/20/04		U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(0.68)	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		08/20/04*		U(1)	U(1)	U(1)	U(1)	7	4.7	U(1)	U(1)	U(1)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(0.5)
		05/25/11		NA	U(0.5)	U(0.5)	U(0.5)	0.49 J	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/17/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.41 J	U(0.5)	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/05/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/20/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.22 J	0.32 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.49)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.81	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.48)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/25/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.43 J	0.32 J	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
OP-MW-1	39-69	03/22/99	U(2.5)	U(20)	U(2.5)	U(20)	U(2.5)	U(2.5)	U(5)	NA	NA	NA	NA	U(0.3)	U(10)	NA	NA	NA	U(25)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(2.5)	U(0.3)	U(2.5)	U(2.5)	U(2.5)	U(2.5)	U(5)	U(0.6)
		07/15/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/20/04	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(5)	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	1.2	U(1)	U(0.5)	NA
		05/26/11	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	U(20)	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	U(1)	U(2)	U(1)	U(1)	0.86 J	U(10)	2.3	U(4)
		11/17/11	U(5)	U(5)	9.7 J	U(5)	9.5	U(5)	U(10)	U(10)	U(5)	U(50)	NA	U(10)	U(100)	U(10)	U(200)	U(10)	U(100)	U(50)	U(50)	NA	NA	NA	NA	NA	U(50)	U(10)	NA	U(100)	U(50)	U(5)	U(10)	U(5)	U(5)	U(5)	U(50)	9.2	U(20)
		05/17/12	U(0.5)	1.7	U(1)	U(0.5)	0.38 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	0.97	U(0.5)	0.6	U(5)	5.8	U(2)
		12/05/12	U(5)	U(5)	U(10)	U(5)	U(5)	U(5)	U(10)	U(10)	U(5)	U(20)	NA	U(10)	U(100)	U(10)	U(100)	U(10)	U(100)	U(50)	U(20)	NA	NA	NA	U(0.1)	NA	U(20)	U(10)	NA	U(100)	U(20)	U(5)	U(10)	U(5)	U(5)	U(5)	U(50)	12.2	U(20)
		08/20/13	U(5)	U(5)	U(10)	U(5)	U(5)	U(5)	U(10)	U(10)	U(5)	U(20)	NA	U(10)	U(100)	U(10)	U(100)	U(10)	U(100)	U(50)	U(20)	NA	NA	NA	NA	NA	U(20)	U(10)	NA	U(100)	U(20)	U(5)	U(10)	U(5)	U(5)	U(5)	U(50)	4.8 J	U(20)
		04/02/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
OP-MW-2	39-69	10/17/95	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(0.5)	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		01/15/96	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(0.5)	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		09/18/97	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		08/12/98	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		12/21/98	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		03/22/99	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.67	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		05/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/26/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		11/17/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.8	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/17/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/05/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/20/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		04/03/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
OP-MW-4	65-85	10/18/95	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(0.5)	NA	NA	NA	U(0.2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		01/15/96	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(0.5)	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		09/19/96	U(100)	U(100)	U(100)	U(100)	U(100)	U(100)	U(100)	NA	NA	NA	NA	U(100)	U(200)	NA	11000	NA	U(200)	NA	NA	NA	NA	NA	NA	NA	NA	U(100)	NA	NA	NA	U(100)	U(100)	U(100)	U(100)	U(100)	U(100)	U(100)	U(300)
		09/18/97	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		08/12/98	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		12/21/98	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		03/22/99	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		07/15/02	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/20/04	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(5)	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		05/26/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/17/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/17/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/05/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	3.4	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/20/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		04/02/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/25/14	U(0.5)	U(0.5)	0.23 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.4	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
OP-MW-6	70-90	10/18/95	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(0.5)	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		01/15/96	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(0.5)	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		09/19/96	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	NA	NA	NA	U(1)	U(2)	NA	U(5)	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	U(1)	NA	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(3)
		09/18/97	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(2)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(2)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.6)
		08/12/98	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	NA	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.3)
		12/21/98	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		03/22/99	U(0.5)	U(4)	U(0.5)	U(4)	U(0.5)	U(0.5)	U(1)	NA	NA	NA	NA	U(0.3)	U(2)	NA	NA	NA	U(5)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	U(0.5)	U(0.3)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(0.6)
		08/20/04	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(5)	U(1)	U(1)	U(1)	U(1)	U(1)	5.9	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		08/20/04*	U(1)	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(5)	NA	NA	U(1)	NA	U(1)	NA	NA	U(5)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(0.5)	NA
		05/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		11/17/11	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		05/17/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		12/05/12	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	4.3	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/20/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	0.32 J	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		04/03/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		08/25/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.1	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	0.3 J	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
P-1A	100-120	09/11/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.36 J	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.61)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		01/09/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.12 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/21/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.57)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
P-1B	170-185	09/11/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.37 J	2.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.24 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.4 J
		01/09/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.64	5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.29 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	0.57
		04/21/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.66	4.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.28 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.55
		09/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.76	6.3	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.62	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	0.49 J
P-1C	215-230	09/11/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.86	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.53)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	0.31 J
		01/09/14	LF	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.91	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	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(0.47)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/21/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.73	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.11 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.63	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	0.35 J
P-1D	305-320	09/11/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.51)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		01/09/14	LF	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(0.01)	NA	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(0.48)	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/21/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	U(0.52)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	U(0.1)	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
S02A	75-105	06/21/06	PS	U(5)	U(5)	U(5)	U(5)	1.4 J	2.9 J	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	2.4	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
		11/18/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.89	2.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	NA	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/02/11	HS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.39 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/14/14	PS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1	1.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.42 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		08/29/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.1	1.1	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.6	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
S02B	75-105	06/22/06	PS	U(5)	U(5)	U(5)	U(5)	1.1 J	2.8 J	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	U(2)	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
		11/18/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.73	1.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/14/14	PS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.77	1.4	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.37 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/14/14*	PS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.77	1.5	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.38 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		08/29/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.86	1.7	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.6	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
S03	105-130	09/13/06	PS	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	U(2)	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
		11/28/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.45 J	1.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.96)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.34 J	U(0.5)
		04/10/14	PS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.51	1.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.37 J	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		09/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.74	2	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.87	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
S05	185-230	06/01/06	PS	U(5)	U(5)	U(5)	U(5)	U(5)	6.3	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	2.5	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
		11/23/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.82	5.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/25/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.4	1.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.95)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
S05		12/17/13	PS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.5	14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		12/17/13*	PS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	19	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/15/14	PS	NA	U(0.5)	U(0.5)	U(0.5)	2.2	19.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	2.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
S06	180-210	04/24/06	PS	U(5)	U(5)	U(5)	U(5)	9	104	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	25	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
		11/22/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	10.7	91.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.38 J	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	12.9	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/16/13	PS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	14	81	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	17.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/11/14	PS	NA	U(0.5)	U(0.5)	0.5	16.7	165	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.47 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	15.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
S07	155-245	09/19/06	PS	U(5)	U(5)	U(5)	U(5)	1.9 J	7	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	35	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
		11/22/11	HS	NA	U(2.5)	U(2.5)	U(2.5)	12.6	162	NA	U(25)	NA	U(25)	U(25)	U(50)	U(5)	U(2.5)	U(2.5)	U(2.5)	U(25)	U(2.5)	U(5)	NA	U(2.5)	22.1	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
		12/16/13	PS	U(0.5)	U(0.5)	U(0.5)	1.3	30	380	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	1.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	40.6	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/16/14	PS	NA	U(5)	U(5)	U(5)	27.4	374	NA	U(20)	NA	U(20)	U(20)	U(20)	U(10)	U(5)	U(5)	U(5)	U(20)	U(5)	U(10)	NA	U(5)	32.9	NA	NA	NA	U(200)	U(100)	U(50)	U(10)	NA	U(10)	U(5)	U(10)	U(50)	U(10)	U(5)
S09	120-215	11/23/11	HS	NA	U(2.5)	U(2.5)	U(2.5)	18.4	242	NA	U(25)	NA	U(25)	U(25)	U(50)	U(5)	U(2.5)	U(2.5)	U(2.5)	U(25)	U(2.5)	U(5)	NA	U(2.5)	33.4	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
		12/17/13	PS	U(0.5)	U(0.5)	U(0.5)	1.6	33	270	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	1.6	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	41.7	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/15/14	PS	NA	U(2.5)	U(2.5)	U(2.5)	28.9	365	NA	U(10)	NA	U(10)	U(10)	U(10)	U(5)	U(2.5)	1.3 J	U(2.5)	U(10)	U(2.5)	U(5)	NA	U(2.5)	29.1	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
S10	105-200	09/13/06	PS	U(5)	U(5)	U(5)	U(5)	17	163	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	48	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)
S10 (105-120)		12/08/11	HS	NA	U(0.5)	U(0.5)	1.7	29.8	525	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	1.1	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	22.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
S10 (175-200)		12/08/11	HS	NA	U(0.5)	U(0.5)	2.3	39.7	415	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	1.4	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	28.6	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/19/13	PS	U(0.5)	U(0.5)	U(0.5)	0.99	18	56	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	0.59	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	14.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/16/14	PS	NA	U(2.5)	U(2.5)	U(2.5)	20.1	321	NA	U(10)	NA	U(10)	U(10)	U(10)	U(5)	U(2.5)	U(2.5)	U(2.5)	U(10)	U(2.5)	U(5)	NA	U(2.5)	13.1	NA	NA	NA	U(100)	U(50)	U(25)	U(5)	NA	U(5)	U(2.5)	U(5)	U(25)	U(5)	U(2.5)
S11	80-160	04/04/06	PS	U(5)	U(5)	U(5)	U(5)	2.2 J	7.8	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	NA	U(5)	110	U(5)	U(5)	U(5)	U(100)	NA	NA	U(1)	U(5)	U(5)	U(5)	1.3 J	U(5)	NA	U(5)
S11 (80-125)		11/21/11	HS	NA	U(0.5)	U(0.5)	1.2	20.7	151	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.81	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	22.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
S11 (135-160)		11/21/11	HS	NA	U(0.5)	U(0.5)	1.2	19	102	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.74	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	20	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
S11		12/18/13	PS	U(0.5)	U(0.5)	U(0.5)	U(0.5)	9.1	74	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.01)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	9.7	U(0.5)	U(0.5)	U(0.5)	NA	NA	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(0.5)
		04/11/14	PS	NA	U(0.5)	U(0.5)	0.41 J	9.8	167	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.32 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	9.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
P-1A	100-120	09/11/13	U(0.5)	U(0.5)	U(1)	U(0.5)	0.24 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.1	0.21 J	U(0.5)	U(0.5)	1.7	U(5)	U(0.5)	U(2)
		01/09/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	6.5	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	5.6	U(0.5)	U(0.5)	U(0.5)	6.4	U(0.5)	U(0.5)	U(1)
		04/21/14	U(0.5)	U(0.5)	0.22 J	U(0.5)	0.3 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	4.6	U(1)	U(0.5)	U(0.5)	4.5	U(5)	U(0.5)	U(2)
P-1B	170-185	09/11/13	U(0.5)	U(0.5)	0.32 J	U(0.5)	0.64	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.49 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	8.1	U(1)	U(0.5)	U(0.5)	10.8	0.21 J	U(0.5)	U(2)
		01/09/14	U(0.5)	U(0.5)	0.5	U(0.5)	0.87	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.3	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	10	U(0.5)	U(0.5)	U(0.5)	18	U(0.5)	U(0.5)	U(1)
		04/21/14	U(0.5)	U(0.5)	0.46 J	U(0.5)	0.95	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.91 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	14.8	U(1)	U(0.5)	U(0.5)	16.2	0.29 J	U(0.5)	U(2)
		09/02/14	U(0.5)	U(0.5)	0.56	U(0.5)	1.3	U(0.5)	U(0.5)	U(0.5)	0.76	U(0.5)	U(0.5)	U(0.5)	1.5	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	5	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	15	U(0.5)	U(0.5)	U(0.5)	17	0.42 J	U(0.5)	NA
P-1C	215-230	09/11/13	U(0.5)	U(0.5)	1.1	U(0.5)	0.24 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.7	U(1)	U(0.5)	U(0.5)	5.3	U(5)	U(0.5)	U(2)
		01/09/14	U(0.5)	U(0.5)	2.1	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	0.51	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.2	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	1.3	U(0.5)	U(0.5)	U(0.5)	6.2	U(0.5)	U(0.5)	U(1)
		04/21/14	U(0.5)	U(0.5)	1.6	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	3	U(5)	U(0.5)	U(2)
		09/02/14	U(0.5)	U(0.5)	1.5	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.4	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	1	U(0.5)	U(0.5)	U(0.5)	6.2	U(0.5)	U(0.5)	NA
P-1D	305-320	09/11/13	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		01/09/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	0.52	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.7	U(0.5)	U(0.5)	U(0.5)	NA	NA	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)
		04/21/14	U(0.5)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	U(0.5)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(2)
		09/02/14	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	2.2	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	NA
S02A	75-105	06/21/06	U(5)	U(5)	0.5 J	U(5)	1.4 J	U(5)	U(5)	U(5)	U(5)	NA	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	2.6 J	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	21	U(5)	U(5)	U(5)	6.5	U(5)	U(5)	U(5)
		11/18/11	U(0.5)	U(0.5)	0.36 J	U(0.5)	1.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.1	NA	U(5)	U(1)	NA	U(10)	U(5)	16.8	U(1)	U(0.5)	U(0.5)	6.5	U(5)	U(0.5)	U(2)
		12/02/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/14/14	U(0.5)	U(0.5)	0.21 J	U(0.5)	1.7	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	17	U(0.5)	U(0.5)	U(0.5)	5.5	U(0.5)	U(0.5)	U(1)
		08/29/14	U(0.5)	U(0.5)	0.23 J	U(0.5)	2.5	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	16	U(0.5)	U(0.5)	U(0.5)	6.1	U(0.5)	U(0.5)	NA
S02B	75-105	06/22/06	U(5)	U(5)	0.5 J	U(5)	1 J	U(5)	U(5)	U(5)	U(5)	NA	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	2.7 J	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	16	U(5)	U(5)	U(5)	6.3	U(5)	U(5)	U(5)
		11/18/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.95	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.1	NA	U(5)	U(1)	NA	U(10)	U(5)	9.5	U(1)	U(0.5)	U(0.5)	3.6	U(5)	U(0.5)	U(2)
		04/14/14	U(0.5)	U(0.5)	0.21 J	U(0.5)	2.7	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	27	U(0.5)	U(0.5)	U(0.5)	6.3	U(0.5)	U(0.5)	U(1)
		04/14/14*	U(0.5)	U(0.5)	0.21 J	U(0.5)	2.6	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.7	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	27	U(0.5)	U(0.5)	U(0.5)	6.3	U(0.5)	U(0.5)	U(1)
		08/29/14	U(0.5)	U(0.5)	0.24 J	U(0.5)	5.2	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.1	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	34	U(0.5)	U(0.5)	U(0.5)	8.5	U(0.5)	U(0.5)	NA
S03	105-130	09/13/06	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(1)	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(4)	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	5.8	U(5)	U(5)	U(5)	3.3 J	U(5)	U(5)	U(5)
		11/28/11	U(0.5)	U(0.5)	U(1)	U(0.5)	1.9	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	8.1 J	3.1	U(10)	U(5)	U(5)	NA	NA	NA	3.2	NA	U(5)	U(1)	NA	U(10)	U(5)	9.6	U(1)	U(0.5)	U(0.5)	6.1	U(5)	U(0.5)	U(2)
		04/10/14	U(0.5)	U(0.5)	0.16 J	U(0.5)	2.1	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	0.54 J	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.7	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	12	U(0.5)	U(0.5)	U(0.5)	8.2	U(0.5)	U(0.5)	U(1)
		09/03/14	U(0.5)	U(0.5)	0.22 J	U(0.5)	2.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.56	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.7	NA	U(0.5)	U(0.5)	U(0.5)	5.4 J	U(0.5)	13	U(0.5)	U(0.5)	U(0.5)	11	U(0.5)	U(0.5)	NA
S05	185-230	06/01/06	U(5)	U(5)	U(5)	U(5)	0.8 J	U(5)	U(5)	U(5)	U(5)	NA	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	3.1 J	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	4.3 J	U(5)	U(5)	U(5)	25	U(5)	U(5)	U(5)
		11/23/11	U(0.5)	U(0.5)	U(1)	U(0.5)	2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	0.5	NA	U(5)	U(1)	NA	U(10)	U(5)	5.4	44.6	U(0.5)	U(0.5)	12.9	U(5)	U(0.5)	U(2)
		11/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3	NA	U(5)	U(1)	NA	U(10)	U(5)	13.3	U(1)	U(0.5)	U(0.5)	4.8	U(5)	U(0.5)	U(2)
S05		12/17/13	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.2	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.5	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	4.2	7.7	U(0.5)	U(0.5)	29	U(0.5)	U(0.5)	U(1)
		12/17/13*	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	4.4	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	11	U(0.5)	U(0.5)	U(0.5)	39	0.59	U(0.5)	U(1)
		04/15/14	U(0.5)	U(0.5)	0.23 J	U(0.5)	5.6	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.5 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	23.5	U(1)	U(0.5)	U(0.5)	45.2	1 J	U(0.5)	U(2)
S06	180-210	04/24/06	U(5)	U(5)	1.1 J	U(5)	4.3 J	U(5)	U(5)	U(5)	U(5)	NA	U(1)	U(5)	1.4 J	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(4)	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	10	U(5)	U(5)	U(5)	148	U(5)	U(5)	U(5)
		11/22/11	U(0.5)	U(0.5)	0.9 J	U(0.5)	9.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.4 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	2.7	NA	U(5)	U(1)	NA	U(10)	U(5)	23.7	U(1)	0.61 J	U(0.5)	126	1 J	U(0.5)	U(2)
		12/16/13	U(0.5)	U(0.5)	0.99	U(0.5)	13	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	3.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	46	7.8	0.91	U(0.5)	180	1.2	U(0.5)	U(1)
		04/11/14	U(0.5)	U(0.5)	1.1	U(0.5)	15	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.9 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	45.6	U(1)	0.23 J	U(0.5)	180	1.5 J	U(0.5)	U(2)
S07	155-245	09/19/06	U(5)	U(5)	U(5)	U(5)	1.2 J	U(5)	U(5)	U(5)	U(5)	U(1)	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	4.88	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	1.4 J	U(5)	U(5)	U(5)	22	U(5)	U(5)	U(5)
		11/22/11	U(2.5)	U(2.5)	U(5)	U(2.5)	8.2	U(2.5)	U(5)	U(5)	U(2.5)	U(25)	NA	U(5)	U(50)	U(5)	U(100)	U(5)	U(50)	U(25)	U(25)	NA	NA	NA	5	NA	U(25)	U(5)	NA	U(50)	U(25)	27.2	U(5)	U(2.5)	U(2.5)	209	2.3 J	U(2.5)	U(10)
		12/16/13	U(0.5)	U(0.5)	1.5	U(0.5)	10	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	5.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	36	U(0.5)	U(0.5)	U(0.5)	440	2	U(0.5)	U(1)
		04/16/14	U(5)	U(5)	U(10)	U(5)	10.1	U(5)	U(10)	U(10)	U(5)	U(20)	NA	U(10)	U(100)	U(10)	U(100)	U(10)	U(100)	U(50)	U(20)	NA	NA	NA	NA	NA	U(20)	U(10)	NA	U(100)	U(20)	29.6	U(10)	U(5)	U(5)	397	U(50)	U(5)	U(20)
S09	120-215	11/23/11	U(2.5)	U(2.5)	U(5)	U(2.5)	8.4	U(2.5)	U(5)	U(5)	U(2.5)	U(25)	NA	U(5)	U(50)	U(5)	U(100)	U(5)	U(50)	U(25)	U(25)	NA	NA	NA	3.3	NA	U(25)	U(5)	NA	U(50)	U(25)	24.3	U(5)	U(2.5)	U(2.5)	275	U(25)	U(2.5)	U(10)
		12/17/13	U(0.5)	U(0.5)	1.2	U(0.5)	15	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	6.3	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	44	U(0.5)	U(0.5)	U(0.5)	260	0.91	U(0.5)	U(1)
		04/15/14	U(2.5)	U(2.5)	1.1 J	U(2.5)	11.8	U(2.5)	U(5)	U(5)	U(2.5)	U(10)	NA	U(5)	U(50)	U(5)	U(50)	U(5)	U(50)	U(25)	U(10)	NA	NA	NA	NA	NA	U(10)	U(5)	NA	U(50)	U(10)	36.5	U(5)	U(2.5)	U(2.5)	289	U(25)	U(2.5)	U(10)
S10	105-200	09/13/06	U(5)	U(5)	U(5)	U(5)	4.1 J	U(5)	U(5)	U(5)	U(5)	U(1)	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	7.1	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	12	U(5)	U(5)	U(5)	164	U(5)	U(5)	U(5)
S10 (105-120)		12/08/11	U(0.5)	U(0.5)	1.2	U(0.5)	5.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.3	NA	U(5)	U(1)	NA	U(10)	U(5)	16.6	U(1)	0.31 J	U(0.5)	230	U(5)	U(0.5)	U(2)
S10 (175-200)		12/08/11	U(0.5)	U(0.5)	1.7	U(0.5)	7.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.56 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	7.9	NA	U(5)	U(1)	NA	U(10)	U(5)	21.4	U(1)	0.74	U(0.5)	299	0.51 J	U(0.5)	U(2)
		12/19/13	U(0.5)	U(0.5)	0.86	U(0.5)	4	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	9.3	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	20	0.57	U(0.5)	U(0.5)	120	U(0.5)	U(0.5)	U(1)
		04/16/14	U(2.5)	U(2.5)	U(5)	U(2.5)	4.7	U(2.5)	U(5)	U(5)	U(2.5)	U(10)	NA	U(5)	U(50)	U(5)	U(50)	U(5)	U(50)	U(25)	U(10)	NA	NA	NA	NA	NA	U(10)	U(5)	NA	U(50)	U(10)	16	U(5)	U(2.5)	U(2.5)	154	U(25)	U(2.5)	U(10)
S11	80-160	04/04/06	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	1 J	U(5)	U(5)	NA	U(1)	U(5)	U(5)	U(5)	U(100)	U(1)	U(5)	U(5)	U(5)	U(5)	U(5)	U(5)	U(4)	U(5)	U(5)	U(5)	U(1)	U(10)	U(5)	U(5)	U(5)	U(5)	U(5)	13	U(5)	U(5)	U(5)
S11 (80-125)		11/21/11	U(0.5)	U(0.5)	1.6	U(0.5)	7.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	7.4	NA	U(5)	U(1)	NA	U(10)	U(5)	25.8	U(1)	0.54	U(0.5)	124	0.73 J	U(0.5)	U(2)
S11 (135-160)		11/21/11	U(0.5)	U(0.5)	1.5	U(0.5)	7.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	7.6	NA	U(5)	U(1)	NA	U(10)	U(5)	21.5	U(1)	0.49 J	U(0.5)	159	0.62 J	U(0.5)	U(2)
S11		12/18/13	U(0.5)	U(0.5)	0.76	U(0.5)	6	U(0.5)	U(0.5)	U(0.5)	NA	U(2)	U(2)	U(0.5)	U(5)	U(0.5)	U(5)	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	6.8	U(0.5)	U(0.5)	U(0.5)	NA	NA	U(0.5)	30	U(0.5)	U(0.5)	U(0.5)	75	0.5	U(0.5)	U(1)
		04/11/14	U(0.5)	U(0.5)	0.74 J	U(0.5)	6.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.4 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	31.3	U(1)	U(0.5)	U(0.5)	105	0.67 J	U(0.5)	U(2)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
S11A	190-220	11/21/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.73	5.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	0.82 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
SW-04	77-87	10/27/08	PS	U(1)	U(1)	U(1)	U(1)	2.4	30	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	4.2	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		10/27/08*	PS	U(1)	U(1)	U(1)	U(1)	2.4	30	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	5.8	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/20/09	HS	U(1)	U(1)	U(1)	U(1)	2.8	25	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	5.3	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/20/09	LF	U(1)	U(1)	U(1)	U(1)	2.9	29	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	5.4	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/26/09	HS	NA	U(1)	U(1)	U(1)	3.4	27.5	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	5.9	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	0.83 J	U(1)
		08/25/09	HS	NA	U(1)	U(1)	U(1)	3.5	30.2	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	7.4	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	0.44 J	U(1)
		12/04/09	HS	NA	U(1)	U(1)	U(1)	3.6	29.6	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	6	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		03/09/10	HS	NA	U(1)	U(1)	U(1)	3.2	31.3	NA	U(10)	NA	U(10)	U(10)	U(20)	U(2)	U(1)	U(1)	U(1)	U(10)	U(1)	U(2)	NA	U(1)	6.1	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		11/25/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.8	26.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.8	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/31/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.9	17.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/17/12	HS	NA	U(1)	U(1)	U(1)	1.7	14.8	NA	U(4)	NA	U(4)	U(4)	U(4)	U(2)	U(1)	U(1)	U(1)	U(4)	U(1)	U(2)	NA	U(1)	0.83	NA	NA	NA	U(40)	U(20)	U(10)	U(2)	NA	U(2)	U(1)	U(2)	U(10)	U(2)	U(1)
		08/22/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.4	14.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.2	NA	NA	NA	4.3 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.22 J	U(0.5)
		04/17/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.9	15.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.8	15	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	3.9	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
SW-05	80-90	10/02/08	PS	U(1)	U(1)	U(1)	U(1)	2	3.4	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.5	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		02/19/09	HS	U(1)	U(1)	U(1)	U(1)	1.1	2.3	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2.3)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/19/09	LF	U(1)	U(1)	U(1)	U(1)	1.4	2.7	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/19/09	HS	U(1)	U(1)	U(1)	U(1)	1.4	2.1	U(1)	U(1)	U(1)	U(1)	U(1)	U(4)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	1.9	U(1)	U(1)	U(1)	U(8)	NA	NA	U(1)	U(1)	U(1)	U(1)	U(1)	U(1)	NA	U(1)
		05/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.2	2.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/24/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.86	2.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.74	1.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/08/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	1	1.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/08/10*	HS	NA	U(0.5)	U(0.5)	U(0.5)	1	1.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/21/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.2	2.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.32 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/14/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1	1.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.32 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/19/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.78	1.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.36 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/18/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.1	2.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.34 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.2	2.2	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	2	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
VCW-01	258-268	12/05/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	3.5	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	0.54	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		12/05/08*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	3.1	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/18/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	5.2	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/01/09	HS	NA	U(0.2)	U(0.2)	U(0.2)	0.76	11.5	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(10)	U(0.2)	U(0.3)	0.52	U(0.3)	U(0.5)	U(0.3)	U(0.3)	NA	U(0.3)	1.8	NA	NA	NA	U(10)	U(10)	U(1)	U(0.3)	NA	U(0.5)	U(0.3)	U(0.5)	U(1.5)	1.8	U(0.2)
		08/31/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	1	14.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.35 J	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3.3	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/19/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.2	16.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.55	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.9 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		02/25/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.46 J	5.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	0.44 J	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/02/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.44 J	4.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.41 J	4.5	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.38 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.31 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.41 J	4.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.36 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.19 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/16/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.55	5.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.29 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.4 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/04/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.85	7.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.42 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.93	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/28/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.21 J	1.8	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.6	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
VCW-02	272-282	11/26/08	PS	U(1)	U(1)	U(1)	U(1)	9.1	100	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	0.54	U(1)	U(1)	U(1)	U(1)	NA	U(1)	6.1	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		11/26/08*	PS	U(1)	U(1)	U(1)	U(1)	9.6	99	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	0.58	U(1)	U(1)	U(1)	U(1)	NA	U(1)	6	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/10/09	HS	U(1)	U(1)	U(1)	U(1)	6.4	57	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	3.9	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/28/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	4.3	46	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3.7	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	2	U(0.5)
		08/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.9	33.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3.7	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/18/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	3	35.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.8 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
VCW-02		02/23/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.7	39.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	3.4	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/22/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.7	46.7	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.6	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/21/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.8	46.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.28 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.6	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/07/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	2.5	28.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.8	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/16/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	4.1	57.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.26 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1.7	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/06/13	HS	NA	NA	NA	NA	NA	NA	NA	NA	U(0.005)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/18/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.9	47.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	0.27 J	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/28/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	3.5	36	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.25 J	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	5.2	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
S11A	190-220	11/21/11	U(0.5)	U(0.5)	0.61 J	U(0.5)	3.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	4	NA	U(5)	U(1)	NA	U(10)	U(5)	14	1.3	U(0.5)	U(0.5)	9.3	U(5)	U(0.5)	U(2)
SW-04	77-87	10/27/08	U(1)	U(5)	U(1)	U(10)	9.9	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	32	U(1)	U(1)	U(0.5)	27	U(10)	U(0.5)	NA
		10/27/08*	U(1)	U(5)	U(1)	U(10)	10	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	32	U(1)	U(1)	U(0.5)	27	U(10)	U(0.5)	NA
		02/20/09	U(1)	U(5)	U(1)	U(10)	18	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	37	U(1)	U(1)	U(0.5)	35	U(10)	U(0.5)	NA
		02/20/09	U(1)	U(5)	U(1)	U(10)	20	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	54	U(1)	U(1)	U(0.5)	42	U(10)	U(0.5)	NA
		05/26/09	U(1)	U(1)	U(2)	U(1)	24.3	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	3.1 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	135	U(2)	U(1)	U(1)	59.8	2.1 J	U(1)	U(4)
		08/25/09	U(1)	U(1)	U(2)	U(1)	28	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	2.6 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	17.1 J	U(10)	119	U(2)	U(1)	U(1)	58.5	1.8 J	U(1)	U(4)
		12/04/09	U(1)	U(1)	U(2)	U(1)	28.5	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	2.5 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	130	U(2)	0.82 J	U(1)	64.2	1.9 J	U(1)	U(4)
		03/09/10	U(1)	U(1)	U(2)	U(1)	26.2	U(1)	U(2)	U(2)	U(1)	U(10)	NA	U(2)	2.3 J	U(2)	U(40)	U(2)	U(20)	U(10)	U(10)	NA	NA	NA	NA	NA	U(10)	U(2)	NA	U(20)	U(10)	92.4	U(2)	U(1)	U(1)	57.5	1.8 J	U(1)	U(4)
		11/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	25.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	2.5 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.5	NA	U(5)	U(1)	NA	U(10)	U(5)	75.6	U(1)	0.55	U(0.5)	60	1.9 J	U(0.5)	U(2)
		05/31/12	U(0.5)	U(0.5)	U(1)	U(0.5)	16.2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.3 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	87.2	U(1)	0.31 J	U(0.5)	39.4	1.1 J	U(0.5)	U(2)
		12/17/12	U(1)	U(1)	U(2)	U(1)	15.2	U(1)	U(2)	U(2)	U(1)	U(4)	NA	U(2)	1.1 J	U(2)	U(20)	U(2)	U(20)	U(10)	U(4)	NA	NA	NA	NA	NA	U(4)	U(2)	NA	U(20)	U(4)	128	U(2)	U(1)	U(1)	37.9	0.96 J	U(1)	U(4)
		08/22/13	U(0.5)	U(0.5)	U(1)	0.48 J	13.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.1 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	85.2	U(1)	0.39 J	U(0.5)	33	0.83 J	U(0.5)	U(2)
		04/17/14	U(0.5)	U(0.5)	0.23 J	U(0.5)	16.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1.1 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	118	U(1)	0.37 J	U(0.5)	34.8	1 J	U(0.5)	U(2)
		09/03/14	U(0.5)	U(0.5)	0.23 J	U(0.5)	17	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.3	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.4	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	110	U(0.5)	0.51	U(0.5)	38	1	U(0.5)	NA
SW-05	80-90	10/02/08	U(1)	U(1)	U(1)	U(10)	1.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	13	U(1)	U(1)	U(0.5)	6.4	U(10)	U(0.5)	NA
		02/19/09	U(1)	U(5)	U(1)	U(10)	1.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	11	U(1)	U(1)	U(0.5)	6.1	U(10)	U(0.5)	NA
		02/19/09	U(1)	U(5)	U(1)	U(10)	1.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	U(2)	U(1)	U(1)	U(1)	NA	NA	U(1)	9.5	U(1)	U(1)	U(0.5)	5.9	U(10)	U(0.5)	NA
		02/19/09	U(1)	U(1)	U(1)	U(1)	1.1	U(1)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(1)	U(1)	U(8)	U(4)	U(1)	U(1)	NA	U(1)	U(1)	U(2)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	9.1	U(1)	U(1)	U(1)	5.8	U(1)	U(1)	NA
		05/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	15.4	U(1)	U(0.5)	U(0.5)	7.3	U(5)	U(0.5)	U(2)
		08/24/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	10.5	U(1)	U(0.5)	U(0.5)	8.2	U(5)	U(0.5)	U(2)
		11/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	9.4	U(1)	U(0.5)	U(0.5)	9.2	U(5)	U(0.5)	U(2)
		03/08/10	U(0.5)	U(0.5)	U(1)	U(0.5)	1.4	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	10.5	U(1)	U(0.5)	U(0.5)	6.2	U(5)	U(0.5)	U(2)
		03/08/10*	U(0.5)	U(0.5)	U(1)	U(0.5)	1.4	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	10.1	U(1)	U(0.5)	U(0.5)	6.2	U(5)	U(0.5)	U(2)
		05/21/12	U(0.5)	U(0.5)	U(1)	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	12.3	U(1)	U(0.5)	U(0.5)	4.5	U(5)	U(0.5)	U(2)
		12/14/12	U(0.5)	U(0.5)	U(1)	0.37 J	0.93	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	5.3 J	U(2)	12.5	U(1)	U(0.5)	U(0.5)	5.4	U(5)	U(0.5)	U(2)
		08/19/13	U(0.5)	U(0.5)	U(1)	U(0.5)	0.68	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	7.4	U(1)	U(0.5)	U(0.5)	4.1	U(5)	U(0.5)	U(2)
		04/18/14	U(0.5)	U(0.5)	U(1)	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	11.7	U(1)	U(0.5)	U(0.5)	6.5	U(5)	U(0.5)	U(2)
		08/29/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.9	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	10	U(0.5)	U(0.5)	U(0.5)	6.7	U(0.5)	U(0.5)	NA
VCW-01	258-268	12/05/08	U(1)	U(5)	1.9	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	3.2	U(10)	U(0.5)	NA
		12/05/08*	U(1)	U(5)	1.9	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	3.3	U(10)	U(0.5)	NA
		02/18/09	U(1)	U(5)	2	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	14	U(1)	U(1)	U(0.5)	4.8	U(10)	U(0.5)	NA
		06/01/09	U(0.3)	U(0.3)	2	U(0.3)	0.36	U(0.5)	U(0.2)	U(0.2)	U(0.3)	U(0.5)	NA	U(0.3)	U(0.5)	U(0.2)	U(20)	U(0.5)	U(10)	U(0.5)	U(0.5)	NA	NA	NA	NA	NA	U(0.5)	U(0.2)	NA	U(10)	U(0.5)	22.2	U(0.5)	U(0.3)	U(0.2)	7.7	0.34	U(0.3)	U(0.7)
		08/31/09	U(0.5)	U(0.5)	1.5	U(0.5)	0.41 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	14	U(1)	U(0.5)	U(0.5)	9.8	U(5)	U(0.5)	U(2)
		11/19/09	U(0.5)	U(0.5)	1.7	U(0.5)	0.45 J	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	11.2	U(1)	U(0.5)	U(0.5)	13.1	U(5)	U(0.5)	U(2)
		02/25/10	U(0.5)	U(0.5)	1.7	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	20.4	U(1)	U(0.5)	U(0.5)	5.1	U(5)	U(0.5)	U(2)
		12/02/11	U(0.5)	U(0.5)	0.59 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3.8	NA	U(5)	U(1)	NA	U(10)	U(5)	8.2	U(1)	U(0.5)	U(0.5)	4.1	U(5)	U(0.5)	U(2)
		05/17/12	U(0.5)	U(0.5)	1.2	U(0.5)	0.24 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	19.4	U(1)	U(0.5)	U(0.5)	4.3	0.22 J	U(0.5)	U(2)
		12/17/12	U(0.5)	U(0.5)	1.2	0.47 J	0.25 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	21.3	U(1)	U(0.5)	U(0.5)	4.1	0.21 J	U(0.5)	U(2)
		08/16/13	U(0.5)	U(0.5)	0.82 J	U(0.5)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	13.7	U(1)	U(0.5)	U(0.5)	5.1	U(5)	U(0.5)	U(2)
		04/04/14	U(0.5)	U(0.5)	1.1	U(0.5)	0.24 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	10.3	U(1)	U(0.5)	U(0.5)	6.3	U(5)	U(0.5)	U(2)
		08/28/14	U(0.5)	U(0.5)	0.22 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	6.3	U(0.5)	U(0.5)	U(0.5)	2.6	U(0.5)	U(0.5)	NA
VCW-02	272-282	11/26/08	U(1)	U(5)	U(1)	U(10)	7.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	26	U(1)	U(1)	U(0.5)	75	U(10)	U(0.5)	NA
		11/26/08*	U(1)	U(5)	U(1)	U(10)	7.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	25	U(1)	U(1)	U(0.5)	78	U(10)	U(0.5)	NA
		02/10/09	U(1)	U(5)	1.2	U(10)	4.3	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	15	U(1)	U(1)	U(0.5)	49	U(10)	U(0.5)	NA
		05/28/09	U(0.5)	U(0.5)	1.2	U(0.5)	3.4	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	11.5	U(1)	U(0.5)	U(0.5)	43.8	0.57 J	U(0.5)	U(2)
		08/26/09	U(0.5)	U(0.5)	0.92 J	U(0.5)	2.7	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	10.1	U(1)	U(0.5)	U(0.5)	31.7	1 J	U(0.5)	U(2)
		11/18/09	U(0.5)	U(0.5)	1	U(0.5)	2.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.55 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	11.2	U(1)	U(0.5)	U(0.5)	38.2	1.9 J	U(0.5)	U(2)
VCW-02		02/23/10	U(0.5)	U(0.5)	1.2	U(0.5)	3.4	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.8 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	13.7	U(1)	U(0.5)	U(0.5)	43.1	2.5 J	U(0.5)	U(2)
		11/22/11	U(0.5)	U(0.5)	1	U(0.5)	3.7	U(0.5)	U(1)	U(1)	0.35 J	U(5)	NA	U(1)	0.84 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	3	NA	U(5)	U(1)	NA	U(10)	U(5)	18	U(1)	U(0.5)	U(0.5)	48.6	2.6 J	U(0.5)	U(2)
		05/21/12	U(0.5)	U(0.5)	1	U(0.5)	3.6	U(0.5)	U(1)	U(1)	0.28 J	U(2)	NA	U(1)	0.77 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	16	U(1)	U(0.5)	U(0.5)	46	2.7 J	U(0.5)	U(2)
		12/07/12	U(0.5)	U(0.5)	1	U(0.5)	2.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.48 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	9	U(1)	U(0.5)	U(0.5)	25.6	1.3 J	U(0.5)	U(2)
		08/16/13	U(0.5)	U(0.5)	1	U(0.5)	3.5	U(0.5)	U(1)	U(1)	0.27 J	U(2)	NA	U(1)	0.84 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	18.3	U(1)	U(0.5)	U(0.5)	49.5	2.8 J	U(0.5)	U(2)
		09/06/13	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		04/18/14	U(0.5)	U(0.5)	1.1	U(0.5)	3.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.62 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	16	U(1)	U(0.5)	U(0.5)	46.9	2.6 J	U(0.5)	U(2)
		08/28/14	U(0.5)	U(0.5)	1.1	U(0.5)	3	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.74	U(0.5)	U(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	3.5	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	14	U(0.5)	U(0.5)	U(0.5)	35	1.9	U(0.5)	NA

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
VCW-03	215-225	11/17/08	PS	U(1)	U(1)	U(1)	U(1)	2.1	25	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		11/17/08*	PS	U(1)	U(1)	U(1)	U(1)	2.4	27	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/12/09	HS	U(1)	U(1)	U(1)	U(1)	2.1	23	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.8	17.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	5.2	U(0.5)
		08/25/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.4	12.8	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	5.4	U(0.5)
		11/20/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.6	12.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	6.1	U(0.5)
		02/26/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.4	9.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	9.7	U(0.5)
		02/26/10*	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.4	9.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	9.8	U(0.5)
		11/21/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.6	10.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.97)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.34 J	U(0.5)
		05/21/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.2	7.4	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.33 J	NA	NA	NA	4 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/13/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.1	7.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.45 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.32 J	U(0.5)
		08/23/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.3	8.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.34 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.57 J	U(0.5)
		04/02/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.4	6.3	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.99	NA	NA	NA	6.6 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.36 J	U(0.5)
		08/27/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.3	5.7	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	0.19 J	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	4.8	NA	NA	NA	4.4 J	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	0.53 J	U(0.5)
VCW-06	115-125	10/27/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	2	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		10/27/08*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	2.2	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/20/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	2.8	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/20/09*	HS	U(1)	U(1)	U(1)	U(1)	U(1)	3.3	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.1	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	1.4	U(0.5)
		05/26/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	1.1	U(0.5)
		08/25/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.39 J	U(0.5)
		08/25/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.3 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.32 J	U(0.5)
		12/04/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/09/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/25/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(0.98)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/31/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.27 J	1.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.25 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/17/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.22 J	2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	NA	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/20/12	HS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.21 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/22/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.21 J	2.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.19 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/17/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.2	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.22 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		09/03/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.21 J	1.6	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.31	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)
VCW-07	140-150	10/14/08	PS	U(1)	U(1)	U(1)	U(1)	U(1)	3.2	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		10/14/08*	PS	U(1)	U(1)	U(1)	U(1)	U(1)	2.1	U(1)	1	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/17/09	HS	U(1)	U(1)	U(1)	U(1)	U(1)	5.5	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		06/02/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.48 J	4.5	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	5.5	U(0.5)
		09/01/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.48 J	4	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.5	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	3.9	U(0.5)
		11/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.47 J	3.2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	3.2	U(0.5)
		02/25/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.44 J	2.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.5 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	3.2	U(0.5)
		11/25/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.4	15.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		05/24/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.1	10.7	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.85	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/06/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.62	6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.25 J	NA	NA	NA	5.5 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.29 J	U(0.5)
		08/22/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.33 J	2.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.39 J	NA	NA	NA	4.6 J	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	1.8	U(0.5)
		04/17/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.6	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.42 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.88 J	U(0.5)
		08/26/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.56	3.1	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	0.66	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	0.92 J	U(0.5)
VCW-09	110-120	10/02/08	PS	U(1)	U(1)	U(1)	U(1)	1.8	2.4	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.1	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		10/02/08*	PS	U(1)	U(1)	U(1)	U(1)	2	2.4	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	2.7	U(1)	U(1)	U(1)	U(6.3)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(5.1)	U(10)	U(0.5)
		02/17/09	HS	U(1)	U(1)	U(1)	U(1)	1.5	2.5	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		02/17/09*	HS	U(1)	U(1)	U(1)	U(1)	1.5	2.5	U(1)	U(1)	U(5)	U(1)	U(1)	U(5)	U(1)	U(1)	U(0.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(2)	U(1)	U(1)	U(1)	U(9.1)	NA	NA	U(0.5)	U(1)	U(1)	U(1)	U(1)	U(4.3)	U(10)	U(0.5)
		05/26/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.5	3	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.1	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/24/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.5	2.6	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	2.2	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/27/09	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.94	1.9	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	0.34 J	U(0.5)
		11/27/09*	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.1	2	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	U(2)	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		03/08/10	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.83	0.96	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	1.1 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		11/25/11	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.71	1.1	NA	U(5)	NA	U(5)	U(5)	U(10)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(5)	U(0.5)	U(1)	NA	U(0.5)	NA	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		12/02/11	HS	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.41 J	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/21/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.2	2.1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.47	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
VCW-03	215-225	11/17/08	U(1)	U(5)	1.5	U(10)	1.7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	4.9	U(1)	U(1)	U(0.5)	25	U(10)	U(0.5)	NA
		11/17/08*	U(1)	U(5)	1.5	U(10)	2.7	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	4.8	U(1)	U(1)	U(0.5)	26	U(10)	U(0.5)	NA
		02/12/09	U(1)	U(5)	1.5	U(10)	1.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	2.8	U(1)	U(1)	U(0.5)	18	U(10)	U(0.5)	NA
		05/27/09	U(0.5)	U(0.5)	0.73 J	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	2.2	U(1)	U(0.5)	U(0.5)	15.9	U(5)	U(0.5)	U(2)
		08/25/09	U(0.5)	U(0.5)	0.46 J	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.9	U(1)	U(0.5)	U(0.5)	12.6	U(5)	U(0.5)	U(2)
		11/20/09	U(0.5)	U(0.5)	0.53 J	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	2.1	U(1)	U(0.5)	U(0.5)	15.2	U(5)	U(0.5)	U(2)
		02/26/10	U(0.5)	U(0.5)	0.46 J	U(0.5)	0.99	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.9	U(1)	U(0.5)	U(0.5)	11.6	U(5)	U(0.5)	U(2)
		02/26/10*	U(0.5)	U(0.5)	0.48 J	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	1.9	U(1)	U(0.5)	U(0.5)	11.9	U(5)	U(0.5)	U(2)
		11/21/11	U(0.5)	U(0.5)	0.42 J	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	0.16	NA	U(5)	U(1)	NA	U(10)	U(5)	2.1	U(1)	U(0.5)	U(0.5)	13.9	U(5)	U(0.5)	U(2)
		05/21/12	U(0.5)	U(0.5)	0.22 J	U(0.5)	0.86	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.2	U(1)	U(0.5)	U(0.5)	9.8	U(5)	U(0.5)	U(2)
		12/13/12	U(0.5)	U(0.5)	U(1)	U(0.5)	0.85	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.4	U(1)	U(0.5)	U(0.5)	10.2	U(5)	U(0.5)	U(2)
		08/23/13	U(0.5)	0.49 J	U(1)	U(0.5)	0.84	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.2	U(1)	U(0.5)	U(0.5)	10.7	U(5)	0.21 J	U(2)
		04/02/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.84	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	1.1	U(1)	U(0.5)	U(0.5)	9.7	U(5)	0.27 J	U(2)
		08/27/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.82	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.25	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	0.87	U(0.5)	U(0.5)	U(0.5)	8.8	U(0.5)	U(0.5)	NA
VCW-06	115-125	10/27/08	U(1)	U(5)	U(1)	U(10)	2.6	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	6.7	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	11	U(1)	U(1)	U(0.5)	7.1	U(10)	U(0.5)	NA
		10/27/08*	U(1)	U(5)	U(1)	U(10)	2.8	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	6.2	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	10	U(1)	U(1)	U(0.5)	7.1	U(10)	U(0.5)	NA
		02/20/09	U(1)	U(5)	U(1)	U(10)	2.6	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	9.1	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	7.7	U(1)	U(1)	U(0.5)	6.3	U(10)	U(0.5)	NA
		02/20/09*	U(1)	U(5)	U(1)	U(10)	3.4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	8.9	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	9.4	U(1)	U(1)	U(0.5)	7.8	U(10)	U(0.5)	NA
		05/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	2.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.8 J	U(1)	U(20)	19.9	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	15.7	U(1)	U(0.5)	U(0.5)	7.4	0.37 J	U(0.5)	U(2)
		05/26/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	2.9	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.8 J	U(1)	U(20)	19.7	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	16.6	U(1)	U(0.5)	U(0.5)	7.7	0.35 J	U(0.5)	U(2)
		08/25/09	U(0.5)	U(0.5)	U(1)	U(0.5)	3.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.4 J	U(1)	U(20)	17.6	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	13	U(1)	U(0.5)	U(0.5)	7.3	U(5)	U(0.5)	U(2)
		08/25/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	2.6	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.2 J	U(1)	U(20)	15.6	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	13.3	U(1)	U(0.5)	U(0.5)	6.7	U(5)	U(0.5)	U(2)
		12/04/09	U(0.5)	U(0.5)	U(1)	U(0.5)	2.9	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.2 J	U(1)	U(20)	23.4	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	12.6	U(1)	U(0.5)	U(0.5)	7.7	0.33 J	U(0.5)	U(2)
		03/09/10	U(0.5)	U(0.5)	U(1)	U(0.5)	1.8	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.83 J	U(1)	U(20)	21	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	8.6	U(1)	U(0.5)	U(0.5)	4.9	U(5)	U(0.5)	U(2)
		11/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	1.5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	0.72 J	U(1)	U(20)	22.7	U(10)	U(5)	U(5)	NA	NA	NA	1.8	NA	U(5)	U(1)	NA	U(10)	U(5)	11.4	U(1)	U(0.5)	U(0.5)	4.3	U(5)	U(0.5)	U(2)
		05/31/12	U(0.5)	U(0.5)	U(1)	U(0.5)	2.9	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.99 J	U(1)	U(10)	54.3	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	19.7	U(1)	U(0.5)	U(0.5)	7.2	0.25 J	U(0.5)	U(2)
		12/17/12	U(0.5)	U(0.5)	U(1)	0.41 J	3.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.93 J	U(1)	U(10)	48.7	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	22.6	U(1)	U(0.5)	U(0.5)	7.6	0.24 J	U(0.5)	U(2)
		12/20/12	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		08/22/13	U(0.5)	U(0.5)	U(1)	0.71	3.1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1 J	U(1)	U(10)	42.7	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	18.9	U(1)	U(0.5)	U(0.5)	7.5	0.25 J	U(0.5)	U(2)
		04/17/14	U(0.5)	U(0.5)	U(1)	U(0.5)	1.7	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	0.37 J	U(1)	U(10)	30.3	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	13.6	U(1)	U(0.5)	U(0.5)	4.5	U(5)	U(0.5)	U(2)
		09/03/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	2.8	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.69	U(0.5)	U(5)	47	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	4.9	NA	U(0.5)	U(0.5)	U(0.5)	5.3 J	U(0.5)	15	U(0.5)	U(0.5)	U(0.5)	6	U(0.5)	U(0.5)	NA
VCW-07	140-150	10/14/08	U(1)	U(5)	U(1)	U(10)	1.1	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	15	U(1)	U(1)	U(0.5)	5	U(10)	U(0.5)	NA
		10/14/08*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	10	U(1)	U(1)	U(0.5)	3.6	U(10)	U(0.5)	NA
		02/17/09	U(1)	U(5)	U(1)	U(10)	1.4	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	9.9	U(1)	U(1)	U(0.5)	10	U(10)	U(0.5)	NA
		06/02/09	U(0.5)	U(0.5)	0.48 J	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	6.2	U(1)	U(0.5)	U(0.5)	9.4	0.42 J	U(0.5)	U(2)
		09/01/09	U(0.5)	U(0.5)	0.32 J	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	5.5	U(1)	U(0.5)	U(0.5)	8.5	U(5)	U(0.5)	U(2)
		11/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	4.4	U(1)	U(0.5)	U(0.5)	8	U(5)	U(0.5)	U(2)
		02/25/10	U(0.5)	U(0.5)	U(1)	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	4.8	U(1)	U(0.5)	U(0.5)	7.6	U(5)	U(0.5)	U(2)
		11/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	5	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	1.5 J	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	2.2	NA	U(5)	U(1)	NA	U(10)	U(5)	16	U(1)	U(0.5)	U(0.5)	31.9	1.4 J	U(0.5)	U(2)
		05/24/12	U(0.5)	U(0.5)	U(1)	U(0.5)	3.9	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	1 J	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	9.2 J	U(2)	11.8	U(1)	U(0.5)	U(0.5)	23.2	1 J	U(0.5)	U(2)
		12/06/12	U(0.5)	U(0.5)	U(1)	U(0.5)	2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	9.7	U(1)	U(0.5)	U(0.5)	13.5	U(5)	U(0.5)	U(2)
		08/22/13	U(0.5)	0.33 J	U(1)	U(0.5)	0.81	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	4.9	U(1)	U(0.5)	U(0.5)	6.2	U(5)	U(0.5)	U(2)
		04/17/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.64	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	4.1	U(1)	U(0.5)	U(0.5)	4.6	U(5)	U(0.5)	U(2)
		08/26/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	1.4	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(5)	U(0.5)	0.45 J	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	0.2	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	6.7	U(0.5)	U(0.5)	U(0.5)	8	U(0.5)	U(0.5)	NA
VCW-09	110-120	10/02/08	U(1)	U(1)	U(1)	U(10)	1.5	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	10	U(1)	U(1)	U(0.5)	5.2	U(10)	U(0.5)	NA
		10/02/08*	U(1)	U(1)	U(1)	U(10)	1.2	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.7)	U(1)	U(4.3)	U(10)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	17	U(1)	U(1)	U(0.5)	5.5	U(10)	U(0.5)	NA
		02/17/09	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	11	U(1)	U(1)	U(0.5)	4.3	U(10)	U(0.5)	NA
		02/17/09*	U(1)	U(5)	U(1)	U(10)	U(1)	U(0.5)	U(1)	U(1)	U(1)	NA	NA	U(1)	U(10)	U(1)	U(6.9)	U(1)	U(2.6)	U(2.5)	U(1)	U(1)	U(1)	U(1)	NA	U(1)	U(1)	U(1)	NA	NA	U(1)	11	U(1)	U(1)	U(0.5)	4.3	U(10)	U(0.5)	NA
		05/26/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	17.2	U(1)	U(0.5)	U(0.5)	5.9	U(5)	U(0.5)	U(2)
		08/24/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1.3	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	13.9	U(1)	U(0.5)	U(0.5)	5.1	U(5)	U(0.5)	U(2)
		11/27/09	U(0.5)	U(0.5)	U(1)	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	11.4	U(1)	U(0.5)	U(0.5)	4.2	U(5)	U(0.5)	U(2)
		11/27/09*	U(0.5)	U(0.5)	U(1)	U(0.5)	1.1	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	11.2	U(1)	U(0.5)	U(0.5)	4.5	U(5)	U(0.5)	U(2)
		03/08/10	U(0.5)	U(0.5)	U(1)	U(0.5)	0.88	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	NA	NA	U(5)	U(1)	NA	U(10)	U(5)	9.2	U(1)	U(0.5)	U(0.5)	4	U(5)	U(0.5)	U(2)
		11/25/11	U(0.5)	U(0.5)	U(1)	U(0.5)	0.56	U(0.5)	U(1)	U(1)	U(0.5)	U(5)	NA	U(1)	U(10)	U(1)	U(20)	U(1)	U(10)	U(5)	U(5)	NA	NA	NA	1.7	NA	U(5)	U(1)	NA	U(10)	U(5)	8.6	U(1)	U(0.5)	U(0.5)	2.7	U(5)	U(0.5)	U(2)
		12/02/11	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
		05/21/12	U(0.5)	U(0.5)	U(1)	U(0.5)	1	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	12.6	U(1)	U(0.5)	U(0.5)	4.4	U(5)	U(0.5)	U(2)

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Sampling Method (If Known)	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropa	1,2-Dibromoethane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,3-Dichloropropene	1,4-Dichlorobenzene	1,4-Dioxane	2,2-Dichloropropane	2-Chlorotoluene	4-Chlorotoluene	Acetone	Acrolein	Acrylonitrile	Benzene	Bromobenzene	Bromochloromethane	Bromodichloromethane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride
VCW-09	110-120	12/14/12	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.48 J	0.9	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.4 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/19/13	HS	NA	U(0.5)	U(0.5)	U(0.5)	1.5	2.8	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.52	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		04/18/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.45 J	1	NA	U(2)	NA	U(2)	U(2)	U(2)	U(1)	U(0.5)	U(0.5)	U(0.5)	U(2)	U(0.5)	U(1)	NA	U(0.5)	0.35 J	NA	NA	NA	U(20)	U(10)	U(5)	U(1)	NA	U(1)	U(0.5)	U(1)	U(5)	U(1)	U(0.5)
		08/29/14	HS	NA	U(0.5)	U(0.5)	U(0.5)	0.3 J	0.6	NA	U(0.5)	NA	U(0.5)	U(0.5)	U(5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(0.5)	U(1)	NA	U(0.5)	1.4	NA	NA	NA	U(10)	U(20)	U(5)	U(0.5)	NA	U(1)	U(0.5)	U(0.5)	U(1)	U(1)	U(0.5)

Notes:
VOCs by EPA 8260B
123TCP by EPA 524
Units are in micrograms per liter (ug/L)
VOC - Volatile Organic Compound
BGS - Below ground surface
J -Indicates an estimated value
U ( ) - Not detected at or above the laboratory reporting limit indicated.
* - Duplicate Sample
LF - Low Flow Sampling
HS - HydroSleeve Bag Sampler
PS - Purge minimum 3 casing volumes and sample
WB - Westbay
NA - No data available

Table 8
Summary of Groundwater Quality Data (VOCs, 1,4-Dioxane, and Perchlorate)
Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (feet bgs)	Date	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Dibromomethane	Dichlorodifluoromethane	Di-isopropyl ether	Ethyl Tert-Butyl Ether	Ethylbenzene	Freon 113	Isopropylbenzene	Methyl ethyl ketone	Methyl Tert Butyl Ether	Methylene Chloride	Naphthalene	n-Butylbenzene	n-Propylbenzene	o-Xylene	p/m-Xylene	Perchlorate	p-Isopropyltoluene	sec-Butylbenzene	Styrene	Tert-amylmethylether	Tert-Butyl Alcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl Chloride	Xylene (total)
VCW-09	110-120	12/14/12	U(0.5)	U(0.5)	U(1)	0.43 J	0.39 J	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	6.4	U(1)	U(0.5)	U(0.5)	1.9	U(5)	U(0.5)	U(2)
		08/19/13	U(0.5)	U(0.5)	U(1)	U(0.5)	1.2	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	12.3	U(1)	U(0.5)	U(0.5)	5.3	U(5)	U(0.5)	U(2)
		04/18/14	U(0.5)	U(0.5)	U(1)	U(0.5)	0.5	U(0.5)	U(1)	U(1)	U(0.5)	U(2)	NA	U(1)	U(10)	U(1)	U(10)	U(1)	U(10)	U(5)	U(2)	NA	NA	NA	NA	NA	U(2)	U(1)	NA	U(10)	U(2)	5.8	U(1)	U(0.5)	U(0.5)	2.3	U(5)	U(0.5)	U(2)
		08/29/14	U(0.5)	U(0.5)	U(0.5)	U(0.5)	0.38 J	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(5)	U(0.5)	U(1)	U(1)	U(0.5)	NA	U(0.5)	U(0.5)	2	NA	U(0.5)	U(0.5)	U(0.5)	U(10)	U(0.5)	3.7	U(0.5)	U(0.5)	U(0.5)	1.5	U(0.5)	U(0.5)	NA

Notes:
VOCs by EPA 8260B
123TCP by EPA 524
Units are in micrograms per liter (ug/L)
VOC - Volatile Organic Compound
BGS - Below ground surface
J -Indicates an estimated value
U ( ) - Not detected at or above the laboral
* - Duplicate Sample
LF - Low Flow Sampling
HS - HydroSleeve Bag Sampler
PS - Purge minimum 3 casing volumes an
WB - Westbay
NA - No data available

Table 9
Summary of Hexavalent Chromium Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method	Chromium, Hexavalent
MP-20-4	194-204	12/26/12	WB	U(0.52)
		04/28/14	WB	0.55
		09/16/14	WB	0.35
MP-20-5	194-204	12/26/12	WB	U(0.52)
MP-21-6	150-160	12/26/12	WB	U(0.52)
		04/28/14	WB	0.028
		09/16/14	WB	U(0.02)
MW-01B	85-95	03/26/02	NA	U(0.2)
		06/30/03	NA	0.228
		01/09/04	NA	3.2
		01/09/04*	NA	3.2
		12/07/12	HS	U(0.52)
		04/02/14	HS	1
MW-03	53.5-74	08/15/02	NA	11.4
		08/15/02*	NA	10.4
		07/02/03	NA	15.3
		12/06/12	HS	16
MW-05	37-57	08/15/02	NA	5.44
		07/02/03	NA	7.12
		01/07/04	NA	7.7
		12/06/12	HS	16
		04/22/14	HS	8.9
MW-06	85-95	06/30/03	NA	1.73
		06/30/03*	NA	1.83
		01/06/04	NA	2.3
		12/03/12	HS	3.3
		04/01/14	HS	2.3
		08/27/14	HS	2.3
MW-07	88-98	08/16/02	NA	U(0.2)
(SW-01)		08/16/02*	NA	U(0.2)
		07/02/03	NA	U(0.2)
		12/20/12	HS	U(0.52)
		04/25/14	HS	1.6
		08/26/14	HS	4.6
MW-08	88-98	08/13/02	NA	0.572
		08/13/02*	NA	0.569
		06/30/03	NA	28.5
		01/09/04	NA	16.7
		01/09/04*	NA	16.5
		12/03/12	HS	20
		04/02/14	HS	28
		08/27/14	HS	19
MW-09	83-93	08/13/02	NA	6.89
		07/01/03	NA	3.7
		07/01/03*	NA	3.84
		12/04/12	HS	45

Table 9
Summary of Hexavalent Chromium Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method	Chromium, Hexavalent
MW-10	85-95	03/26/02	NA	0.328
		08/13/02	NA	18.3
		12/20/12	HS	0.85
MW-11	160-175	07/01/03	NA	U(0.2)
		12/03/12	HS	U(0.52)
		04/01/14	HS	0.052
		08/27/14	HS	U(0.02)
MW-12	145-160	07/01/03	NA	U(0.2)
		01/09/04	NA	U(1)
		12/03/12	HS	U(0.52)
		04/01/14	HS	U(0.02)
		08/25/14	HS	U(0.02)
MW-13	40-60	08/15/02	NA	6.1
		08/15/02*	NA	6.17
MW-15 (LCW-10)	88-98	08/12/02	NA	0.289
		06/30/03	NA	0.349
		12/03/12	HS	1.2
MW-16D	88-98	03/26/02	NA	3.72
		03/26/02*	NA	3.81
		08/12/02	NA	0.428
		07/01/03	NA	6.97
		01/13/04	NA	5.5
		12/03/12	HS	U(0.52)
		04/01/14	HS	19
MW-17D (LCW-08)	92-102	08/12/02	NA	1.28
		08/12/02*	NA	1.29
		07/01/03	NA	0.826
		01/06/04	NA	1.1
		12/13/12	HS	1.5
		04/02/14	HS	1.7
		08/27/14	HS	0.38
MW-18D	87-97	03/26/02	NA	0.09
		06/30/03	NA	U(0.2)
		12/04/12	HS	1.1
MW-18S	52-72	03/26/02	NA	0.08
		12/04/12	HS	4.8
		04/23/14	HS	4.2
MW-19 (SW-02)	87-97	08/13/02	NA	4.98
		06/30/03	NA	0.885
		06/30/03*	NA	0.55
		12/05/12	HS	10
		04/02/14	HS	11
MW6-09	130-150	09/23/02	NA	U(0.2)
		09/23/02*	NA	U(0.2)
		07/08/03	NA	2.52
		07/08/03*	NA	2.55
		12/07/12	LF	1.9
		04/02/14	LF	1.8
		04/02/14*	LF	1.9
		09/16/14	LF	1.8
		09/16/14*	LF	1.9

Table 9
Summary of Hexavalent Chromium Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method	Chromium, Hexavalent
MW6-10	110-130	09/23/02	NA	0.164 J
		07/02/03	NA	1.69
		07/02/03*	NA	1.72
		01/07/04	NA	0.76 J
		12/06/12	LF	0.64
		04/17/14	LF	0.77
		09/03/14	LF	0.57
MW6-11	145-165	09/23/02	NA	U(0.2)
		07/09/03	NA	3.56
		01/08/04	NA	1.5
		12/04/12	HS	1.9
		08/27/14	HS	2.8
MW6-12	220-240	09/23/02	NA	0.305
		07/21/03	NA	1.86
		01/09/13	HS	U(0.52)
		04/04/14	HS	0.36
		08/29/14	HS	U(0.02)
MW6-13	173-183	08/26/02	NA	3.19
		08/26/02*	NA	3.17
		07/21/03*	NA	5.06
		07/21/03	NA	5.11
		12/07/11	LF	5.2
		05/22/12	LF	4.7
		12/19/12	LF	4.5
		09/03/13	LF	4.8
		09/03/13*	LF	4.2
		04/25/14	LF	5
		04/25/14*	LF	4.8
		09/17/14	LF	3.9
		09/17/14*	LF	4
MW6-14 (SW-03)	155-165	09/23/02	NA	10.7
		07/09/03	NA	25.2
		01/08/04	NA	15.4
		12/07/11	LF	6.1
		05/23/12	LF	2.1
		12/18/12	LF	8.1
		09/04/13	LF	12
		04/23/14	LF	15
		04/23/14*	LF	15
		08/29/14	LF	15
		08/29/14*	LF	15
MW6-15	177-197	09/23/02	NA	6.98
		07/09/03	NA	2.27
		01/12/04	NA	U(1)
		12/06/11	LF	13
		05/22/12	LF	10
		01/09/13	LF	7.9
		09/04/13	LF	5.5
		04/04/14	LF	9.1
		04/04/14*	LF	9
		08/28/14	LF	9
		08/28/14*	LF	8.7

Table 9
Summary of Hexavalent Chromium Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method	Chromium, Hexavalent
MW6-16	175-185	09/17/02	NA	4.31
		09/17/02*	NA	4.33
		07/10/03	NA	9.08
		12/14/12	LF	6.7
		12/14/12*	LF	6.7
		04/04/14	LF	5.5
		04/04/14*	LF	5.9
		09/05/14	LF	5.9
		09/05/14*	LF	5.9
MW6-17	195-205	09/23/02	NA	3.01
		07/08/03	NA	6.27
		07/08/03*	NA	6.18
		01/12/04	NA	3.6
		12/06/11	LF	8.1
		05/23/12	LF	7.6
		12/19/12	LF	6
		12/19/12*	LF	6.1
		09/05/13	LF	6.1
		04/18/14	LF	5.7
		08/28/14	LF	5.4
MW6-17I	212-232	12/06/12	HS	U(0.52)
		04/17/14	HS	U(0.02)
		09/03/14	HS	U(0.02)
MW6-18 (LCW-04)	215-225	03/07/03	NA	12.5
		03/07/03*	NA	12.6
		07/08/03	NA	13.3
		12/05/11	LF	11
		05/22/12	LF	3.9
		12/18/12	LF	8.4
		09/05/13	LF	7.9
		04/01/14	LF	7.1
		08/28/14	LF	6.7
MW6-19 (LCW-05)	142-152	07/21/03	NA	2.79
		01/12/04	NA	0.53 J
		12/13/12	HS	1.8
		04/01/14	HS	3.7
		08/27/14	HS	2.2
MW6-20A	65-75	05/17/12	HS	2.4
		04/03/14	HS	0.97
		09/03/14	HS	0.36
MW6-20B	130-140	05/17/12	HS	U(0.52)
		04/03/14	HS	1.1
		09/03/14	HS	U(0.02)
MW6-21	205-225	12/05/11	HS	4
		04/18/14	HS	6.4
		08/27/14	HS	5
MW6-35	215-230	04/08/02	NA	U(2)
		12/10/12	PS	U(0.52)
		12/10/12*	PS	U(0.52)
		04/07/14*	PS	1.5
		04/07/14	PS	1.6
		09/15/14	PS	1.2
		09/15/14*	PS	1.3

Table 9
Summary of Hexavalent Chromium Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method	Chromium, Hexavalent
MW6-36	80-95	08/19/02	NA	U(0.2)
		08/19/02*	NA	U(0.2)
		07/08/03	NA	U(0.2)
		12/10/12	HS	U(0.52)
		04/07/14	HS	4.1
		09/15/14	HS	6.4
MW6-37	40-55	08/13/02	NA	1.14
MW6-44	322-332	04/02/02	NA	U(2)
		12/05/02	NA	U(2)
		10/22/03	NA	U(2)
		12/10/12	PS	U(0.52)
		04/07/14	PS	0.12
		04/07/14*	PS	0.15
		09/15/14	PS	U(0.02)
		09/15/14*	PS	U(0.02)
MW6-45	224-234	05/29/02	NA	U(2)
		12/23/02	NA	U(2)
		10/22/03	NA	U(2)
		12/10/12	HS	U(0.52)
		04/07/14	HS	0.031
		09/15/14	HS	U(0.02)
MW6-61	446-456	05/31/12	PS	U(0.52)
		04/09/14	PS	0.6
		09/22/14	PS	0.45
MW6-62	315-325	10/28/03	NA	U(2)
		12/11/12	PS	0.67
		04/08/14	PS	1.1
		09/19/14	PS	0.78
MW6-63	197-212	10/21/03	NA	U(2)
		12/11/12	PS	U(0.52)
		04/08/14	PS	0.79
		09/15/14	PS	0.58
MW6-64	17.4-37.4	12/12/12	PS	U(0.52)
		04/08/14	PS	0.2
		09/15/14	PS	U(0.02)
MW6-65	97-112	05/30/12	PS	U(0.52)
		09/19/14	PS	U(0.02)
MW6-71	205-225	12/12/12	PS	U(0.52)
		12/12/12*	PS	U(0.52)
		04/09/14	PS	1.2
		04/09/14*	PS	1.2
		09/22/14	PS	U(0.02)
		09/22/14*	PS	0.41
MW8-1A	115-130	01/06/14	LF	3
		01/06/14*	LF	3.3
		04/21/14	HS	3.3
		09/09/14	HS	3.4
MW8-1B	185-200	01/06/14	LF	5.3
		04/21/14	HS	5.7
		09/09/14	HS	1.4
MW8-1C	235-250	01/06/14	LF	7.3
		04/21/14	HS	4.1
		09/09/14	HS	6.9

Table 9
Summary of Hexavalent Chromium Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method	Chromium, Hexavalent
MW8-1D	310-325	01/10/14	LF	5
		04/21/14	HS	5.2
		09/09/14	HS	6.1
MW8-2A	115-130	01/07/14	LF	3.3
		04/22/14	HS	3.8
		09/04/14	HS	3.5
MW8-2B	185-200	01/07/14	LF	4.7
		04/22/14	HS	5
		09/04/14	HS	4.7
MW8-2C	230-245	01/07/14	LF	2.9
		01/07/14*	LF	3.2
		04/22/14	HS	3
		04/22/14*	HS	3.1
		09/04/14	HS	2.2
MW8-2D	310-325	01/07/14	LF	8.5
		04/22/14	HS	9.7
		09/04/14	HS	9.7
MW8-3A	120-130	01/08/14	LF	7.7
		04/22/14	HS	8.9
		09/08/14	HS	9.8
MW8-3B	148-158	01/08/14	LF	10
		04/22/14	HS	10
		09/08/14	HS	9.7
MW8-3C	210-225	01/08/14	LF	12
		04/22/14	HS	12
		09/08/14	HS	9.1
MW8-3D	300-315	01/08/14	LF	9.3
		04/22/14	HS	10
		09/08/14	HS	6.9
MW-D1	290-310	05/31/12	HS	0.74
		04/09/14	HS	0.46
		09/05/14	HS	0.52
MW-D2	410-430	05/24/12	HS	U(0.52)
		04/17/14	HS	U(0.02)
		09/03/14	HS	U(0.02)
OP-MW-1	36-69	07/15/02	NA	U(0.3)
		12/05/12	HS	U(0.52)
		04/03/14	HS	0.28
OP-MW-2	39-69	05/17/12	HS	1.8
		04/03/14	HS	3.5
OP-MW-4	65-85	07/15/02	NA	2
		12/05/12	HS	2.2
		04/03/14	HS	1.9
		08/25/14	HS	2
OP-MW-6	70-90	05/17/12	HS	U(0.52)
		04/03/14	HS	2.4
		08/25/14	HS	U(0.02)
P-1A	100-120	01/09/14	LF	3.9
		04/21/14	HS	3.6
P-1B	170-185	01/09/14	LF	3.7
		04/21/14	HS	4
		09/02/14	HS	4

Table 9
Summary of Hexavalent Chromium Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method	Chromium, Hexavalent
P-1C	215-230	01/09/14	LF	6.9
		04/21/14	HS	0.012 J
		09/02/14	HS	2.6
P-1D	305-320	01/09/14	LF	15
		04/21/14	HS	15
		09/02/14	HS	16
S02A	75-105	04/14/14	PS	2.2
		08/29/14	HS	2
S02B	75-105	04/14/14	PS	2.6
		04/14/14*	PS	2.4
		08/29/14	HS	2.2
S03	105-130	04/10/14	PS	0.47
		09/03/14	HS	U(0.02)
S05	185-235	12/17/13	PS	4.5
		12/17/13*	PS	6.2
		04/15/14	PS	6.5
		04/15/14*	PS	6.5
S06-185	180-210	12/19/13	HS	0.078
S06-195		12/19/13	HS	3.4
S06-205		12/19/13	HS	1.2
S06		04/11/14	PS	0.28
S07-175	155-245	12/19/13	HS	1.2
S07-200		12/19/13	HS	3.4
S07-225		12/19/13	HS	1.1
S07		04/16/14	PS	3.4
S09	120-215	12/17/13	PS	3.5
		04/15/14	PS	3.8
S10	105-200	12/19/13	PS	4.3
		04/16/14	PS	4.4
S11	80-160	12/18/13	PS	1.1
		04/11/14	PS	3.2
SW-04	77-87	05/31/12	HS	U(0.52)
		04/17/14	HS	0.18
		09/03/14	HS	U(0.02)
SW-05	80-90	05/21/12	HS	0.78
		04/18/14	HS	2.6
		08/29/14	HS	3.9
VCW-01	258-268	05/17/12	HS	3.7
		04/04/14	HS	0.31
		08/28/14	HS	0.61
VCW-02	272-282	05/21/12	HS	U(0.52)
		04/18/14	HS	0.97
		08/28/14	HS	1.2
VCW-03	215-225	05/21/12	HS	U(0.52)
		04/02/14	HS	0.014 J
		08/27/14	HS	U(0.02)
VCW-06	115-125	05/31/12	HS	1.1
		04/17/14	HS	0.87
		09/03/14	HS	1.3
VCW-07	140-150	05/24/12	HS	U(0.52)
		04/17/14	HS	0.49
		08/26/14	HS	U(0.02)

Table 9
Summary of Hexavalent Chromium Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method	Chromium, Hexavalent
VCW-09	110-120	05/21/12	HS	1.2
		04/18/14	HS	1.2
		08/29/14	HS	1.7

Notes:
Units are in micrograms per liter (µg/L)
ft bgs - feet below ground surface
J - Analyte was detected at a concentration below the reporting
limit and above the the laboratory method detectioin limit.
U ( ) - Not detected at or above the laboratory reporting limit indicated.
* - Duplicate Sample
LF - Low Flow
HS - HydraSleeve Bag Sampler
PS - Purge minimum 3 casing volumes and sample
WB - Westbay
NA - Not Available

Table 10
Summary of Selenium, Dissolved
Comprehensive Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, Califorina

Well	Screened Interval (feet BGS)	Sampling Date	Sampling Method	Selenium
MP20-4	194-204	09/16/14	WB	0.0106 J
MP21-6	150-160	09/16/14	WB	U(0.015)
MW-01B	85-95	02/13/09	HS	U(0.015)
		02/13/09	LF	U(0.015)
		05/28/09	HS	0.0235
		08/24/09	HS	U(0.02)
		11/30/09	HS	U(0.02)
		03/02/10	HS	U(0.02)
MW-05	37-57	06/03/09	HS	0.0261
		09/02/09	HS	0.0213
		12/03/09	HS	0.0259
		03/03/10	HS	0.0259
MW-06	85-95	02/20/09	HS	0.0182
		02/20/09	LF	0.0259
		05/27/09	HS	0.0375
		05/27/09*	HS	0.0335
		09/01/09	HS	0.0227
		11/23/09	HS	0.035
		03/01/10	HS	0.0217
		08/27/14	HS	0.0286
MW-07	88-98	05/29/09	HS	0.0293
(SW-01)		08/31/09	HS	U(0.02)
		11/30/09	HS	U(0.02)
		03/08/10	HS	0.0258
		08/26/14	HS	0.0261
MW-08	88-98	02/13/09	HS	U(0.015)
		06/02/09	HS	U(0.02)
		08/31/09	HS	U(0.02)
		11/24/09	HS	U(0.02)
		02/26/10	HS	U(0.02)
		08/27/14	HS	U(0.015)
MW-09	83-93	02/17/09	HS	U(0.015)
		05/27/09	HS	U(0.02)
		08/25/09	HS	U(0.02)
MW-11	160-175	05/27/09	HS	U(0.02)
		09/01/09	HS	U(0.02)
		11/23/09	HS	U(0.02)
		03/01/10	HS	U(0.02)
		08/27/14	HS	0.00719 J
MW-12	145-160	02/12/09	HS	U(0.015)
		05/27/09	HS	U(0.02)
		08/25/09	HS	U(0.02)
		11/20/09	HS	U(0.02)
		02/26/10	HS	U(0.02)
		08/25/14	HS	U(0.015)

Table 10
Summary of Selenium, Dissolved
Comprehensive Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, Califorina

Well	Screened Interval (feet BGS)	Sampling Date	Sampling Method	Selenium
MW-15	88-98	05/26/09	HS	0.0322
(LCW-10)		08/27/09	HS	U(0.02)
MW-16D	88-98	05/26/09	HS	U(0.02)
		08/26/09	HS	U(0.02)
		11/23/09	HS	U(0.02)
MW-17D	92-102	05/26/09	HS	0.0358
(LCW-08)		08/26/09	HS	U(0.02)
		11/24/09	HS	U(0.02)
		03/01/10	HS	U(0.02)
		08/27/14	HS	U(0.015)
MW-18D	87-97	06/02/09	HS	0.0261
MW-19	87-97	02/12/09	HS	0.0154
(SW-02)		05/27/09	HS	0.0277
		09/01/09	HS	0.0202
		11/24/09	HS	0.0227
MW6-09	130-150	02/11/09	LF	U(0.015)
		02/11/09	PS	0.011
		05/28/09	LF	0.0298
		05/28/09*	LF	0.0364
		08/24/09	LF	0.0258
		11/30/09	LF	U(0.02)
		03/02/10	LF	0.0213
		09/16/14	LF	0.01 J
		09/16/14*	LF	0.0091 J
MW6-10	110-130	02/19/09	LF	0.0267
		02/19/09*	LF	0.0286
		02/19/09	PS	0.019
		05/28/09	LF	0.0341
		08/24/09	LF	0.0246
		08/24/09*	LF	0.0224
		11/27/09	LF	0.0256
		03/02/10	LF	0.0243
		03/02/10*	LF	0.032
		09/03/14	LF	0.0184
MW6-11	145-165	06/02/09	HS	0.0362
		08/28/09	HS	0.0366
		11/19/09	HS	0.02
		02/24/10	HS	U(0.02)
		08/27/14	HS	0.0158
MW6-12	220-240	02/10/09	LF	0.0185
		06/01/09	LF	0.0263
		06/01/09*	LF	0.0369
		08/28/09	LF	0.024
		11/20/09	LF	0.0255
		02/25/10	LF	0.0232
		08/29/14	HS	0.0144 J

Table 10
Summary of Selenium, Dissolved
Comprehensive Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, Califorina

Well	Screened Interval (feet BGS)	Sampling Date	Sampling Method	Selenium
MW6-13	173-183	02/11/09	LF	0.0272
		02/11/09*	LF	0.021
		02/11/09	PS	0.013
		06/01/09	LF	0.0265
		08/31/09	LF	U(0.02)
		11/24/09	LF	0.0223
		11/24/09*	LF	0.0216
		02/26/10	LF	U(0.02)
		12/07/11	LF	0.0144
		05/22/12	LF	0.0159
		12/19/12	LF	0.0137
		09/03/13	LF	0.014
		09/03/13*	LF	0.0147
		09/17/14	LF	0.0109 J
		09/17/14*	LF	0.014 J
MW6-14	155-165	02/10/09	LF	U(0.015)
(SW-03)		05/29/09	LF	U(0.02)
		08/27/09	LF	U(0.02)
		11/19/09	LF	U(0.02)
		02/24/10	LF	U(0.02)
		11/28/11	HS	0.0124
		12/07/11	LF	0.0115
		05/23/12	LF	U(0.01)
		12/18/12	LF	0.012
		09/04/13	LF	U(0.01)
		08/29/14	LF	U(0.015)
		08/29/14*	LF	U(0.015)
MW6-15	177-197	02/09/09	LF	U(0.015)
		05/29/09	LF	0.0227
		08/27/09	LF	U(0.02)
		11/19/09	LF	U(0.02)
		02/24/10	LF	U(0.02)
		12/06/11	LF	U(0.01)
		05/22/12	LF	U(0.01)
		01/09/13	LF	U(0.01)
		09/04/13	LF	U(0.01)
		08/28/14	LF	U(0.015)
		08/28/14*	LF	U(0.015)
MW6-16	175-185	06/01/09	LF	0.021
		09/01/09	LF	U(0.02)
		11/20/09	LF	U(0.02)
		02/25/10	LF	U(0.02)
		09/05/14	LF	0.00809 J
		09/05/14*	LF	U(0.015)

Table 10
Summary of Selenium, Dissolved
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Well	Screened Interval (feet BGS)	Sampling Date	Sampling Method	Selenium
MW6-17	195-205	02/10/09	LF	0.0157
		02/10/09*	LF	U(0.015)
		05/28/09	LF	0.032
		08/26/09	LF	0.0216
		08/26/09*	LF	0.0309
		11/18/09	LF	U(0.02)
		02/23/10	LF	U(0.02)
		02/23/10*	LF	0.0208
		12/06/11	LF	0.0153
		05/23/12	LF	0.0186
		12/19/12	LF	0.0246
		12/19/12*	LF	0.0211
		09/05/13	LF	0.0167
		08/28/14	LF	0.0182
MW6-17I	212-232	06/03/09	HS	0.0216
		09/02/09	HS	U(0.02)
		12/03/09	HS	0.0219
		03/03/10	HS	U(0.02)
		09/03/14	HS	U(0.015)
MW6-18 (LCW-04)	215-225	05/29/09	LF	0.0239
		08/26/09	LF	0.0232
		11/18/09	LF	U(0.02)
		11/18/09*	LF	0.0238
		02/23/10	LF	0.022
		12/05/11	LF	0.0127
		05/22/12	LF	0.0113
		12/18/12	LF	0.0229
		09/05/13	LF	0.0115
		08/28/14	LF	0.0167
MW6-19 (LCW-05)	142-152	02/10/09	LF	U(0.015)
		06/09/09	HS	0.0237
		08/27/09	HS	U(0.02)
		11/18/09	HS	U(0.02)
		02/23/10	HS	0.0246
		08/27/14	HS	0.0162
MW6-20A	65-75	06/02/09	HS	0.0233
		09/02/09	HS	U(0.02)
		12/04/09	HS	U(0.02)
		03/09/10	HS	U(0.02)
		09/03/14	HS	U(0.015)
MW6-20B	130-140	06/02/09	HS	U(0.02)
		09/02/09	HS	U(0.02)
		12/04/09	HS	U(0.02)
		03/09/10	HS	U(0.02)
		09/03/14	HS	U(0.015)
MW6-21	205-225	08/27/14	HS	0.0159

Table 10
Summary of Selenium, Dissolved
Comprehensive Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, Califorina

Well	Screened Interval (feet BGS)	Sampling Date	Sampling Method	Selenium
MW6-35	215-230	06/04/09	PS	0.0305
		09/03/09	PS	U(0.02)
		12/02/09	PS	U(0.02)
		03/04/10	PS	U(0.02)
		09/15/14	PS	U(0.015)
		09/15/14*	PS	0.0112 J
MW6-36	80-95	02/25/09	HS	0.0268
		02/25/09	LF	0.0201
		06/04/09	HS	0.0428
		09/03/09	HS	U(0.02)
		12/02/09	HS	0.0244
		03/04/10	HS	0.0331
		09/15/14	HS	0.0179
MW6-44	322-332	02/24/09	PS	U(0.015)
		06/04/09	PS	U(0.02)
		09/03/09	PS	U(0.02)
		12/02/09	PS	U(0.02)
		03/04/10	PS	U(0.02)
		09/15/14	PS	U(0.015)
		09/15/14*	PS	U(0.015)
MW6-45	224-234	06/04/09	HS	U(0.02)
		09/03/09	HS	U(0.02)
		12/02/09	HS	U(0.02)
		03/04/10	HS	U(0.02)
		09/15/14	HS	U(0.015)
MW6-61	446-456	02/24/09	PS	0.0202
		06/05/09	PS	U(0.02)
		09/04/09	PS	U(0.02)
		03/05/10	PS	0.0224
		09/22/14	PS	0.0129 J
MW6-62	315-325	12/07/09	PS	0.0247
		09/19/14	PS	0.0138 J
MW6-63	197-212	06/04/09	PS	0.0239
		09/04/09	PS	0.0212
		12/01/09	PS	0.0223
		03/04/10	PS	0.0237
		09/15/14	PS	0.00944 J
MW6-64	17.4-37.4	09/15/14	PS	U(0.015)
MW6-65	97-112	09/19/14	PS	U(0.015)
MW6-71	205-225	06/05/09	PS	U(0.02)
		09/04/09	PS	U(0.02)
		03/05/10	PS	0.0248
		09/22/14	PS	0.0143 J
		09/22/14*	PS	0.0165
MW8-1A	115-130	01/06/14	LF	0.0108
		01/06/14*	LF	0.0105
		09/09/14	HS	0.0126 J

Table 10
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Well	Screened Interval (feet BGS)	Sampling Date	Sampling Method	Selenium
MW8-1B	185-200	01/06/14	LF	U(0.01)
		09/09/14	HS	0.0114 J
MW8-1C	235-250	01/06/14	LF	U(0.01)
		09/09/14	HS	U(0.015)
MW8-1D	310-325	01/10/14	LF	U(0.01)
		09/09/14	HS	U(0.015)
MW8-2A	115-130	01/07/14	LF	U(0.01)
		09/04/14	HS	0.0139 J
MW8-2B	185-200	01/07/14	LF	0.011
		09/04/14	HS	0.0143 J
MW8-2C	230-245	01/07/14	LF	U(0.01)
		01/07/14*	LF	U(0.01)
		09/04/14	HS	U(0.015)
MW8-2D	310-325	01/07/14	LF	U(0.01)
		09/04/14	HS	U(0.015)
MW8-3A	120-130	01/08/14	LF	U(0.01)
		09/08/14	HS	U(0.015)
MW8-3B	148-158	01/08/14	LF	U(0.01)
		09/08/14	HS	U(0.015)
MW8-3C	210-225	01/08/14	LF	U(0.01)
		09/08/14	HS	U(0.015)
MW8-3D	300-315	01/08/14	LF	U(0.01)
		09/08/14	HS	U(0.015)
MW-D1	290-310	06/05/09	HS	0.0223
		09/04/09	HS	U(0.02)
		03/05/10	HS	U(0.02)
		09/05/14	HS	0.00828 J
MW-D2	410-430	06/03/09	HS	U(0.02)
		09/02/09	HS	U(0.02)
		12/03/09	HS	U(0.02)
		03/03/10	HS	U(0.02)
		09/03/14	HS	U(0.015)
OP-MW-4	65-85	08/25/14	HS	U(0.015)
OP-MW-6	70-90	08/25/14	HS	0.0099 J
P-1A	100-120	01/09/14	LF	U(0.01)
P-1B	170-185	01/09/14	LF	0.0131
		09/02/14	HS	0.0174
P-1C	215-230	01/09/14	LF	0.0116
		09/02/14	HS	0.0167
P-1D	305-320	01/09/14	LF	U(0.01)
		09/02/14	HS	U(0.015)

Table 10
Summary of Selenium, Dissolved
Comprehensive Groundwater Monitoring
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Los Angeles County, Califorina

Well	Screened Interval (feet BGS)	Sampling Date	Sampling Method	Selenium
S02A	75-105	11/18/11	HS	0.0131
		04/14/14	PS	0.0109
		08/29/14	HS	0.00995 J
S02B	75-105	11/18/11	HS	0.0138
		04/14/14	PS	0.0105
		04/14/14*	PS	0.0122
		08/29/14	HS	0.0101 J
S03	105-130	04/10/14	PS	0.0161
		09/03/14	HS	0.0133 J
S05	185-235	11/23/11	HS	U(0.01)
		12/17/13	PS	U(0.01)
		12/17/13*	PS	0.0104
S06	180-210	11/22/11	HS	0.0115
		12/16/13	PS	0.0174
S07	155-245	11/22/11	HS	0.0132
		12/16/13	PS	0.0181
S09	120-215	11/23/11	HS	0.0107
		12/17/13	PS	0.0155
S10	105-200	12/08/11	HS	U(0.01)
		12/19/13	PS	0.012
S11	80-160	11/21/11	HS	0.0142
		12/18/13	PS	0.0161
S11A	80-160	11/21/11	HS	U(0.01)
SW-04	77-87	02/20/09	HS	0.0156
		02/20/09	LF	0.0317
		05/26/09	HS	0.042
		08/25/09	HS	0.0396
		12/04/09	HS	0.0366
		03/09/10	HS	0.0317
		09/03/14	HS	0.0308
SW-05	80-90	02/19/09	HS	0.0203
		02/19/09	LF	0.02
		02/19/09	HS	0.012
		02/19/09	PS	0.016
		05/26/09	HS	0.0267
		08/24/09	HS	U(0.02)
		11/27/09	HS	0.0211
		03/08/10	HS	0.0282
		08/29/14	HS	0.0134 J
VCW-01	258-268	06/01/09	HS	0.0286
		08/31/09	HS	U(0.02)
		11/19/09	HS	U(0.02)
		02/25/10	HS	U(0.02)
		08/28/14	HS	U(0.015)

Table 10
Summary of Selenium, Dissolved
Comprehensive Groundwater Monitoring
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, Califorina

Well	Screened Interval (feet BGS)	Sampling Date	Sampling Method	Selenium
VCW-02	272-282	05/28/09	HS	0.0225
		08/26/09	HS	0.0222
		11/18/09	HS	0.0302
		02/23/10	HS	0.0281
		08/28/14	HS	0.0201
VCW-03	215-225	05/27/09	HS	0.0219
		08/25/09	HS	U(0.02)
		11/20/09	HS	U(0.02)
		02/26/10	HS	U(0.02)
		08/27/14	HS	U(0.015)
VCW-06	115-125	02/20/09*	HS	U(0.015)
		05/26/09	HS	U(0.02)
		05/26/09*	HS	U(0.02)
		08/25/09	HS	0.0244
		12/04/09	HS	U(0.02)
		03/09/10	HS	U(0.02)
		09/03/14	HS	0.0142 J
VCW-07	140-150	06/02/09	HS	U(0.02)
		09/01/09	HS	U(0.02)
		11/27/09	HS	U(0.02)
		02/25/10	HS	U(0.02)
		08/26/14	HS	U(0.015)
VCW-09	110-120	05/26/09	HS	0.0208
		08/24/09	HS	0.0229
		11/27/09	HS	U(0.02)
		03/08/10	HS	0.0256
		08/29/14	HS	0.0103 J

Notes:

Units are in milligrams per liter (mg/L)
BGS - Below ground surface
J - Analyte was detected at a concentration that is greater than the method detection limit, but less than the practical quantitation limit or reporting limit.

U ( ) - Not detected at or above the laboratory reporting limit indicated.
* - Duplicate Sample
LF - Low Flow
HF - HydraSleeve Bag Sampler
PS - Purge minimum 3 casing volumes and sample
WB - Westbay

Table 11
Summary of Baseline Groundwater Quality Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

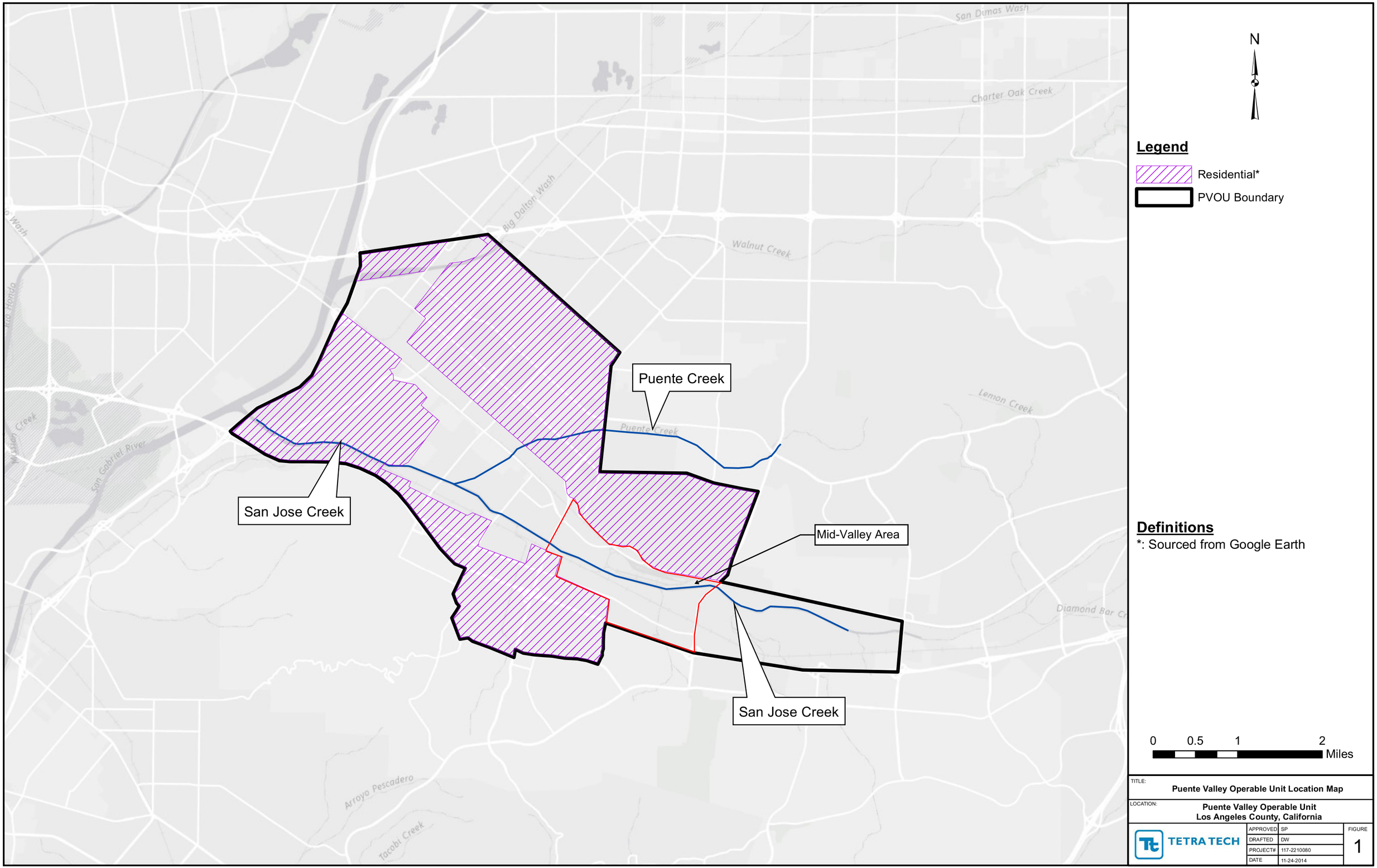
Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method (If Known)	Bicarbonate (as CaCO3)	Carbonate	Calcium	Magnesium	Potassium	Sodium	Boron	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	TDS
MW6-13	173-183	12/07/11	LF	NS	NS	NS	NS	NS	NS	0.26	81	0.23	13.4	ND (0.10)	225	983
		05/22/12	LF	NS	NS	NS	NS	NS	NS	0.26	91.1	ND (0.20)	11.8	ND (0.50)	212	1000
		12/19/12	LF	NS	NS	NS	NS	NS	NS	0.24	80.1	0.23	11.9	ND (0.10)	204	992
		09/03/13	LF	NS	NS	NS	NS	NS	NS	0.23	83.7	0.32	12.1	ND (0.25)	210	941
		09/03/13*	LF	NS	NS	NS	NS	NS	NS	0.23	86.3	0.33	12.1	ND (0.25)	216	931
MW6-14	155-165	12/07/11	LF	NS	NS	NS	NS	NS	NS	0.19	72.6	0.18	12.5	ND (0.10)	171	809
(SW-03)		05/23/12	LF	NS	NS	NS	NS	NS	NS	0.2	87.5	ND (0.20)	11.8	ND (0.50)	168	846
		12/18/12	LF	NS	NS	NS	NS	NS	NS	0.13	75.3	0.15	9.4	ND (0.10)	164	726
		09/04/13	LF	NS	NS	NS	NS	NS	NS	0.075	41.7	0.27	5.1	ND (0.25)	104	478
MW6-15	177-197	12/06/11	LF	NS	NS	NS	NS	NS	NS	0.062	48.1	0.19	10.6	ND (0.10)	70.3	435
		05/22/12	LF	NS	NS	NS	NS	NS	NS	0.069	50.6	ND (0.20)	9	ND (0.10)	69.4	485
		01/09/13	LF	NS	NS	NS	NS	NS	NS	0.059	54.9	0.23	10.4	ND (0.10)	79	396
		09/04/13	LF	NS	NS	NS	NS	NS	NS	0.057	47.3	0.29	9.9	ND (0.25)	69.8	456
MW6-17	195-205	12/06/11	LF	NS	NS	NS	NS	NS	NS	0.097	71.5	0.23	8.2	ND (0.10)	181	716
		05/23/12	LF	NS	NS	NS	NS	NS	NS	0.12	77.1	ND (0.20)	7.9	ND (0.50)	166	673
		12/19/12	LF	NS	NS	NS	NS	NS	NS	0.11	73.5	0.22	8.2	ND (0.10)	178	769
		12/19/12*	LF	NS	NS	NS	NS	NS	NS	0.11	80	0.22	8.8	ND (0.10)	194	736
		09/05/13	LF	NS	NS	NS	NS	NS	NS	0.093	79	0.3	9.2	ND (0.25)	192	781
MW6-18	215-225	12/05/11	LF	NS	NS	NS	NS	NS	NS	0.054	57.5	0.26	9.9	ND (0.10)	125	639
(LCW-04)		05/22/12	LF	NS	NS	NS	NS	NS	NS	0.07	79.3	ND (0.20)	9.7	ND (0.50)	142	770
		12/18/12	LF	NS	NS	NS	NS	NS	NS	0.06	82.8	0.24	10.4	ND (0.10)	166	750
		09/05/13	LF	NS	NS	NS	NS	NS	NS	0.051	72.7	0.3	U(0.25)	ND (0.25)	148	736
MW8-1A	115-130	01/06/14	LF	NS	NS	NS	NS	NS	NS	0.072	89.8	0.17	16.7	ND (0.10)	141	892
		01/06/14*	LF	NS	NS	NS	NS	NS	NS	0.072	81.3	0.17	17	ND (0.10)	127	873
		04/21/14	HS	431	ND (5.0)	179	40.1	ND (10)	51.5	0.083	80.2	ND (0.25)	16.5	ND (0.25)	131	940
		09/09/14	HS	433	ND (1)	213	52.1	13.9	53.1	0.0745	95	0.22	15	ND (0.10)	140	1070
MW8-1B	185-200	01/06/14	LF	NS	NS	NS	NS	NS	NS	0.05	74.7	0.21	14.1	ND (0.10)	128	748
		04/21/14	HS	352	ND (5.0)	162	32.9	ND (10)	37.3	0.055	77.2	ND (0.25)	14.8	ND (0.25)	130	767
		09/09/14	HS	374	ND (1)	173	33.5	6.16	38.6	0.0496 J	78	0.26	13	0.66	120	885
MW8-1C	235-250	01/06/14	LF	NS	NS	NS	NS	NS	NS	0.037	47.1	0.25	9.6	ND (0.10)	91.6	536
		04/21/14	HS	239	ND (5.0)	105	22.1	ND (10)	29.5	0.036	48.2	ND (0.25)	7.8	0.38	92.5	523
		09/09/14	HS	250	ND (1)	111	22.9	5.11	32.4	0.0402 J	46	0.32	9.8	ND (0.10)	95	660
MW8-1D	310-325	01/10/14	LF	NS	NS	NS	NS	NS	NS	0.036	31.9	0.37	13.2	ND (0.25)	58.5	420
		04/21/14	HS	212	ND (5.0)	73.5	15.6	ND (10)	21.8	0.043	27.6	0.32	9.8	ND (0.25)	51	391
		09/09/14	HS	187	ND (1)	83.8	16.7	3.09	23.7	0.0347 J	25	0.43	10	ND (0.10)	49	430
MW8-2A	115-130	01/07/14	LF	NS	NS	NS	NS	NS	NS	0.16	87.3	ND (0.25)	ND (0.25)	ND (0.25)	202	1000
		04/22/14	HS	450	ND (5.0)	195	44.5	ND (10)	67.1	0.15	90.5	ND (0.25)	ND (0.25)	ND (0.25)	206	965
		09/04/14	HS	443	ND (1)	251	106	36.4	73.9	0.188	87	0.18	12	ND (0.10)	210	1040
MW8-2B	185-200	01/07/14	LF	NS	NS	NS	NS	NS	NS	0.063	90.9	0.27	15.6	ND (0.25)	156	832
		04/22/14	HS	382	ND (5.0)	180	39.7	ND (10)	43.8	0.064	87	ND (0.25)	15.4	ND (0.25)	148	819
		09/04/14	HS	377	ND (1)	189	47.8	9.77	48.7	0.0835	91	0.29	11	2.1	150	850
MW8-2C	230-245	01/07/14	LF	NS	NS	NS	NS	NS	NS	0.15	87.5	0.27	17.1	ND (0.25)	162	931
		01/07/14*	LF	NS	NS	NS	NS	NS	NS	0.14	94.1	0.25	16.4	ND (0.25)	171	892
		04/22/14	HS	584	ND (5.0)	189	57.9	13.6	74.6	0.16	90.1	ND (0.25)	17.3	ND (0.25)	170	922
		04/22/14*	HS	422	ND (5.0)	196	70.5	19.2	73.6	0.15	90.3	ND (0.25)	16.9	ND (0.25)	171	940
		09/04/14	HS	401	ND (1)	215	86.5	27.8	85.4	0.182	88	0.26	17	ND (0.10)	170	965
MW8-2D	310-325	01/07/14	LF	NS	NS	NS	NS	NS	NS	0.032	18.1	0.39	4	ND (0.25)	35.9	304
		04/22/14	HS	189	ND (5.0)	59.9	15	ND (10)	20.8	0.036	19.8	0.36	4.2	ND (0.25)	38.2	304
		09/04/14	HS	180	ND (1)	66.2	21.2	5.98	23.3	0.0380 J	17	0.51	4.3	ND (0.10)	35	320
MW8-3A	120-130	01/08/14	LF	NS	NS	NS	NS	NS	NS	0.049	53.7	0.29	17.4	ND (0.25)	83.9	649
		04/22/14	HS	376	ND (5.0)	125	30.9	ND (10)	43.1	0.047	54.6	0.25	15.8	ND (0.25)	88.7	663
		09/08/14	HS	334	ND (1)	132	31.4	4.38	48.4	0.0588	53	0.32	15	ND (0.10)	80	745
MW8-3B	148-158	01/08/14	LF	NS	NS	NS	NS	NS	NS	0.046	54.6	0.31	16.3	ND (0.25)	105	624
		04/22/14	HS	328	ND (5.0)	120	29.3	ND (10)	53.2	0.05	48.2	0.29	15.2	ND (0.25)	91.3	650
		09/08/14	HS	322	ND (1)	138	34.7	6.05	41.7	0.0541	53	0.33	13	0.14	94	740
MW8-3C	210-225	01/08/14	LF	NS	NS	NS	NS	NS	NS	0.033	35.8	0.38	9.9	ND (0.25)	62.2	444
		04/22/14	HS	240	ND (5.0)	87.1	21.7	ND (10)	31.7	0.036	33.7	0.34	9.3	ND (0.25)	58.5	339
		09/08/14	HS	243	ND (1)	101	39.7	12	35.3	0.0341 J	35	0.46	7.1	ND (0.10)	61	525
MW8-3D	300-315	01/08/14	LF	NS	NS	NS	NS	NS	NS	0.033	22.8	0.35	6.7	ND (0.25)	41.8	334
		04/22/14	HS	218	ND (5.0)	66.3	17.1	ND (10)	24.8	0.034	22.6	0.35	6.3	ND (0.25)	40.2	349
		09/08/14	HS	194	ND(1)	62.9	16	2.34	22.6	0.0333 J	19	0.58	4.4	ND (0.10)	32	405
P-1A	100-120	01/09/14	LF	NS	NS	NS	NS	NS	NS	0.093	79.7	ND (0.25)	13.4	ND (0.25)	161	932
		04/21/14	HS	516	ND (5.0)	199	61.2	14.8	62	0.097	78	ND (0.25)	13.6	ND (0.25)	154	968
P-1B	170-185	01/09/14	LF	NS	NS	NS	NS	NS	NS	0.084	83.6	0.27	13.3	ND (0.25)	152	854
		04/21/14	HS	374	ND (5.0)	175	41.1	ND (10)	52.6	0.081	85.4	ND (0.25)	12.8	ND (0.25)	154	916
		09/02/14	HS	392	ND (1)	195	42.5	5.16	51.5	0.0682	84	0.34	12	0.048 J	160	785

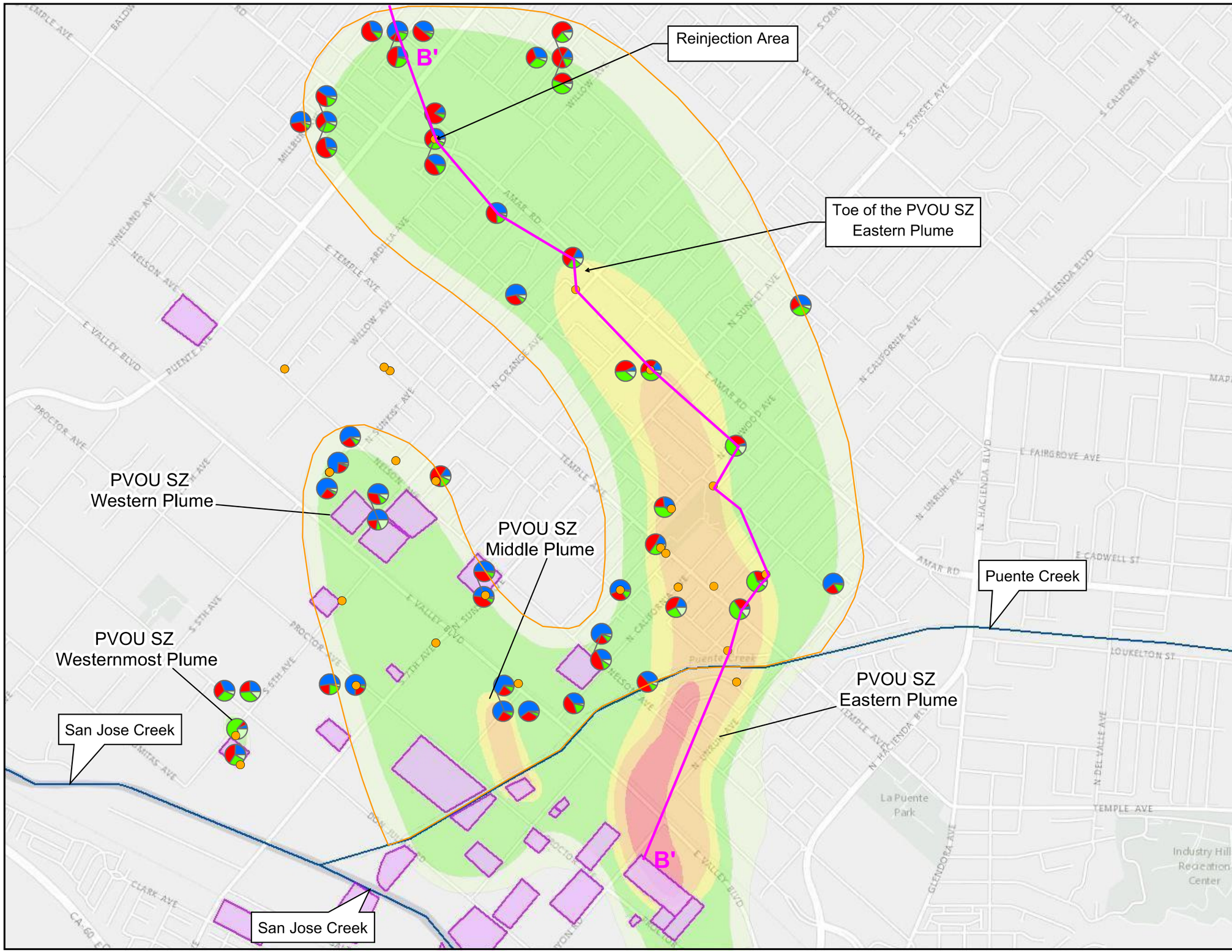
Table 11
Summary of Baseline Groundwater Quality Data
Puente Valley Operable Unit
Shallow Zone North Remedy
Los Angeles County, California

Well	Screened Interval (ft bgs)	Sampling Date	Sampling Method (If Known)	Bicarbonate (as CaCO3)	Carbonate	Calcium	Magnesium	Potassium	Sodium	Boron	Chloride	Fluoride	Nitrate (as N)	Nitrite (as N)	Sulfate	TDS
P-1C	215-230	01/09/14	LF	NS	NS	NS	NS	NS	NS	0.042	61.1	0.33	11.1	ND (0.25)	124	653
		04/21/14	HS	333	ND (5.0)	121	28.8	ND (10)	44.6	0.043	58.1	0.28	U(0.25)	ND (0.25)	108	625
		09/02/14	HS	291	ND (1)	135	29.9	4.33	42.4	0.0229 J	74	0.38	10	ND (0.10)	130	765
P-1D	305-320	01/09/14	LF	NS	NS	NS	NS	NS	NS	0.034	22.6	0.39	4.1	ND (0.25)	41.8	319
		04/21/14	HS	194	ND (5.0)	63.4	15.7	ND (10)	23.2	0.035	22.5	0.36	3.8	ND (0.25)	40.9	327
		09/02/14	HS	182	ND (1)	67.4	15.8	2.44	20.7	0.0199 J	20	0.48	4.2	ND (0.10)	38	355
S-02A	75-105	04/14/14	PS	NS	NS	NS	NS	NS	NS	0.33	208	0.15	10	ND (0.10)	251	1210
S-02B	75-105	04/14/14	PS	NS	NS	NS	NS	NS	NS	0.31	137	0.14	10	ND (0.10)	240	1100
		04/14/14*	PS	NS	NS	NS	NS	NS	NS	0.31	137	0.15	10	ND (0.10)	237	1090
S-03	105-130	04/10/14	PS	NS	NS	NS	NS	NS	NS	0.24	124	0.29	8.9	0.12	259	1140
S05	185-235	12/17/13	PS	NS	NS	NS	NS	NS	NS	0.065	62.8	0.26	10.5	ND (0.10)	122	669
		12/17/13*	PS	NS	NS	NS	NS	NS	NS	0.065	67.3	0.27	10.6	ND (0.10)	128	638
		04/15/14	PS	314	ND (5.0)	129	36.6	ND (10)	53.4	0.073	69.8	ND(0.25)	10.2	ND (0.25)	142	672
		09/11/14	PS	294	ND (1)	126	34.2	2.16	51.7	0.0596	65	0.27	10	ND (0.10)	120	730
S06	180-210	12/16/13	PS	NS	NS	NS	NS	NS	NS	0.12	75	0.25	9.4	ND (0.10)	182	782
		04/17/14	PS	344	ND (5.0)	128	43.3	ND (10)	70.6	0.12	73.5	0.16	6.5	ND (0.25)	180	774
		09/12/14	PS	340	ND (1)	140	44.3	2.96	75.7	0.105	87	0.26	10	ND (0.10)	190	870
S07	155-245	12/16/13	PS	NS	NS	NS	NS	NS	NS	0.13	91.6	0.23	10	ND (0.10)	210	843
		04/16/14	PS	312	ND (5.0)	147	41.2	ND (10)	82.7	0.13	82.4	ND (0.25)	10.1	ND (0.25)	187	857
		09/10/14	PS	339	ND (1)	158	39.9	2.43	86.7	0.119	97	0.25	11	ND (0.10)	190	915
S09	120-215	12/17/13	PS	NS	NS	NS	NS	NS	NS	0.2	90.3	0.27	11.3	ND (0.10)	219	925
		04/15/14	PS	394	ND (5.0)	148	45.3	ND (10)	90.1	0.19	90.3	ND (0.25)	11.7	ND (0.25)	220	880
		09/12/14	PS	376	ND (1)	457	1260	537	10400	0.163	88	0.28	13	ND (0.10)	220	1030
S10	105-200	12/19/13	PS	NS	NS	NS	NS	NS	NS	0.19	92.2	ND (0.25)	12.5	ND (0.25)	224	931
		04/16/14	PS	292	ND (5.0)	161	44.9	ND (10)	81.7	0.18	84.9	ND (0.25)	12.3	ND (0.10)	199	909
		09/10/14	PS	385	ND (1)	182	46.3	2.91	92.6	0.176	85	0.19	13	ND (0.10)	210	1020
S11	80-160	12/18/13	PS	NS	NS	NS	NS	NS	NS	0.29	94.8	0.27	10	ND (0.25)	236	1020
		04/17/14	PS	460	ND (5.0)	161	54.3	ND (10)	103	0.29	99.8	0.19	13.4/13.3**	ND (0.10)/ND (0.25)**	224	969
		09/11/14	PS	430	ND (1)	178	53.4	3.23	113	0.248	96	0.28	11	ND (0.10)	230	1110

Notes:
Units are in milligrams per liter (mg/L)
ft bgs - feet below ground surface
J - Analyte was detected at a concentration below the reporting
limit and above the the laboratory method detectioin limit.
ND ( ) - Not detected at or above the laboratory reporting limit indicated.
NS - Not sampled
* - Duplicate Sample
**- Sample was collected at 102.5/147.5 ft bgs
LF - Low Flow
HS - HydraSleeve Bag Sampler
PS - Purge minimum 3 casing volumes and sample

FIGURES


San Dimas Wash
Charter Oak Creek
Big Dalton Wash
Walnut Creek
Lemon Creek
Puente Creek
San Jose Creek
Mid-Valley Area
San Jose Creek
Diamond Bar Cr
Arroyo Pescadero
Tocobi Creek
N
Legend
Residential*
PVOU Boundary
Definitions
*: Sourced from Google Earth
0
0.5
1
2
Miles
TITLE:
Puente Valley Operable Unit Location Map
LOCATION:
Puente Valley Operable Unit
Los Angeles County, California
TETRA TECH
APPROVED SP
DRAFTED DW
PROJECT# 117-2210080
DATE 11-24-2014
FIGURE
1



Legend

Contaminant Distribution

- PCE
- TCE
- DCE
- Dioxane
- Wells that were not sampled
- PVOU Facilities

PVOU Shallow Zone Plume

- VOCs > 100X MCL
- VOCs: 20X MCL to 100X MCL
- VOCs: 10X MCL to 20X MCL
- VOCs: MCL to 10X MCL
- VOCs < MCL
- PVOU SZ North of Puente Creek

Definitions

PVOU: Puente Valley Operable Unit
SZ: Shallow Zone
MCL: Maximum Contaminant Level
PCE: Tetrachloroethene
TCE: Trichloroethene
DCE: 1, 1 Dichloroethene
Dioxane: 1, 4 Dioxane

Line of cross-section

0 0.125 0.25 0.5 Miles

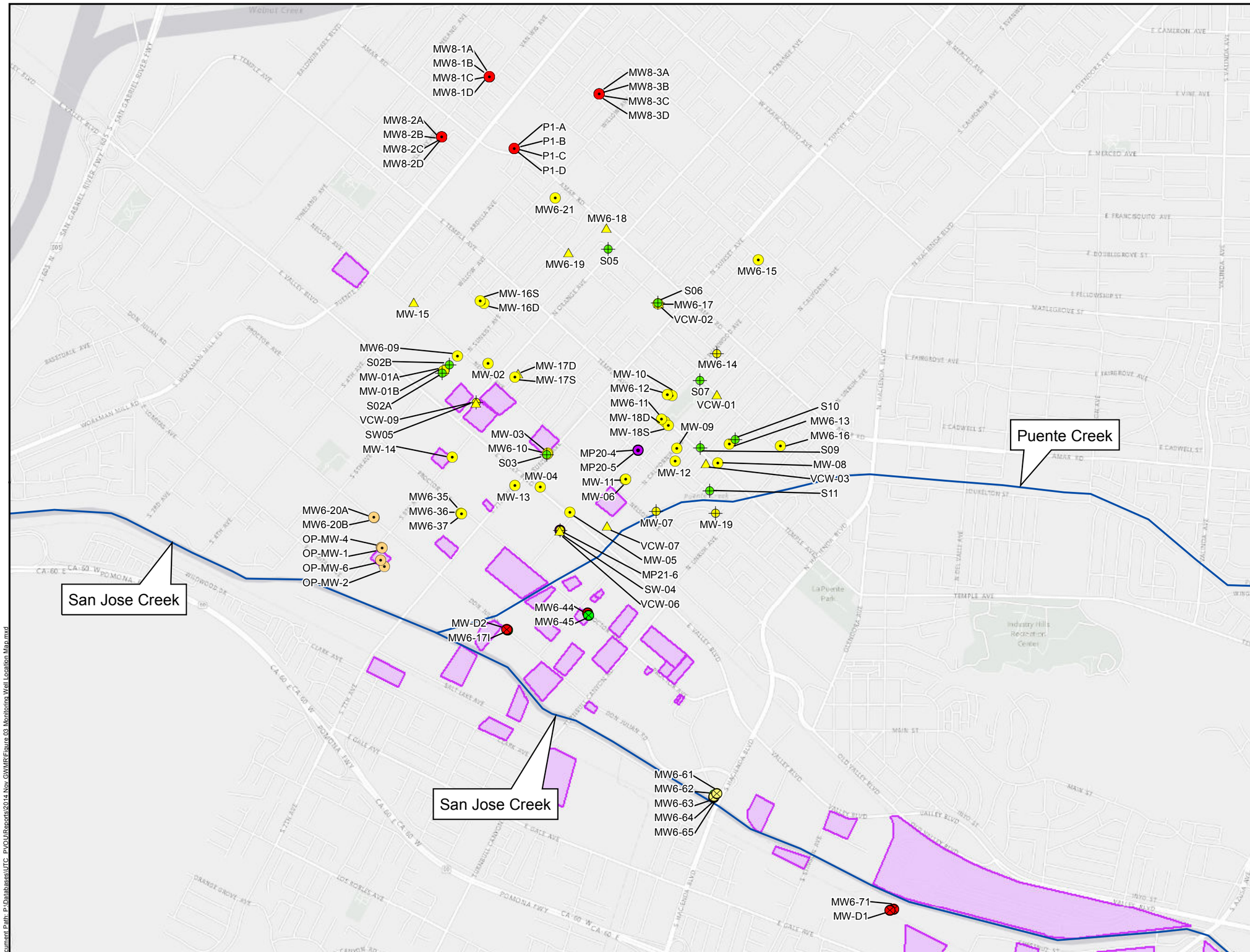
TITLE: **Composite Mouth of the Valley Plume Map**

LOCATION: **Puente Valley Operable Unit**
Los Angeles County, California

TETRA TECH

APPROVED	SP
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 2



Legend

- MOV SZ Monitoring Wells
- Mid-Valley IZ Monitoring Wells
- Mid-Valley PZ Monitoring Wells
- Mid-Valley SZ Monitoring Wells
- Monitoring Wells/Piezometers at the toe of the SZ
- PVOU SZ Remedy Extraction Wells
- SZ Compliance Wells
- SZ Sentinel Wells
- Westbay Monitoring Wells
- Westernmost Plume Monitoring
- PVOU Facilities

Definitions

PVOU: Puente Valley Operable Unit
MOV: Mouth of the Valley
SZ: Shallow Zone
IZ: Intermediate Zone
PZ: Production Zone

0 1,000 2,000 4,000 Feet

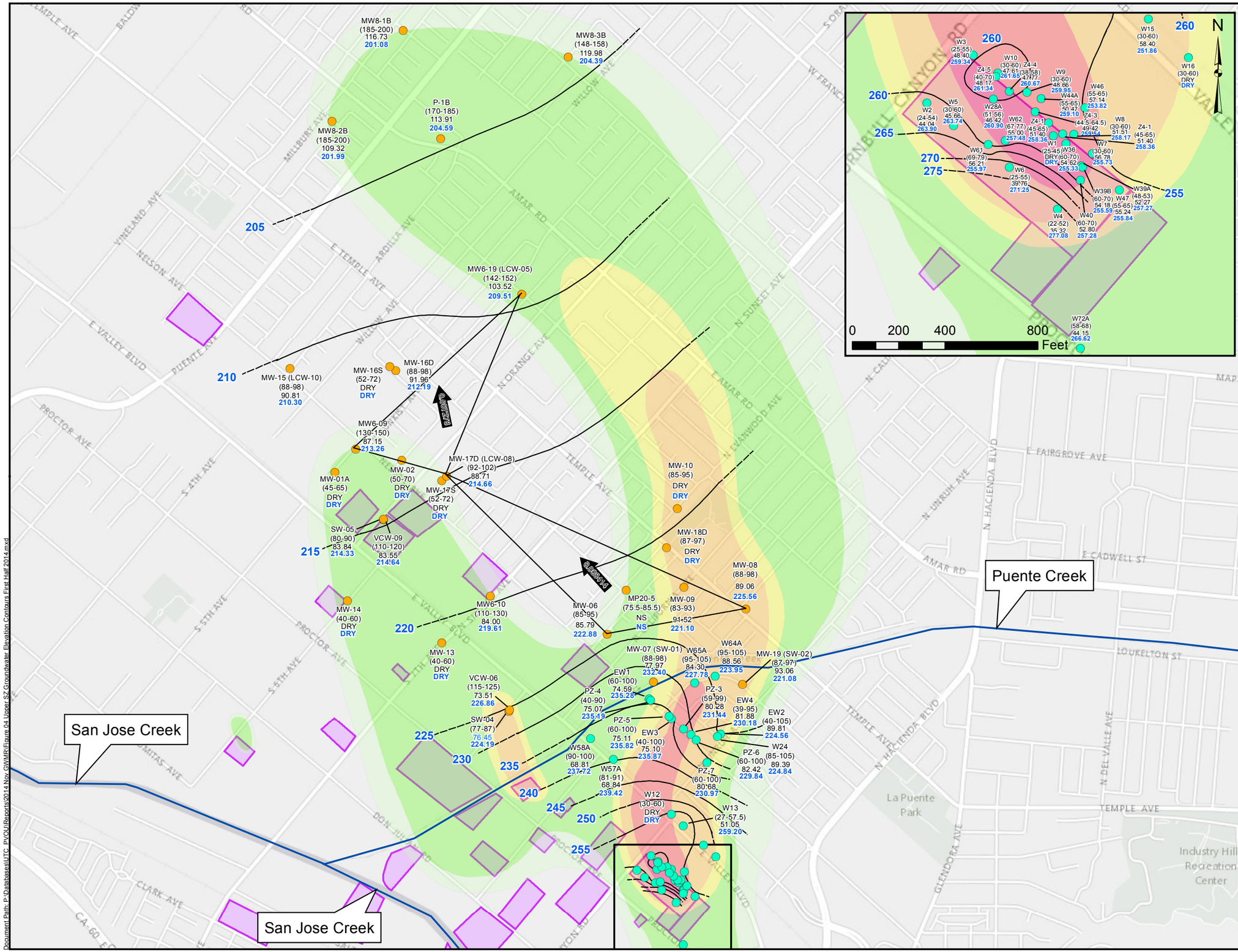
TITLE: Monitoring Well Locations

LOCATION: Puente Valley Operable Unit
Los Angeles County, California

TETRA TECH

APPROVED	SP	FIGURE
DRAFTED	DW	3
PROJECT#	117-2210080	
DATE	11-24-2014	

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 03 Monitoring Well Location Map.mxd



TITLE: Groundwater Elevation Contours
Upper Portion of PVOU SZ Spring 2014 (First Half 2014)

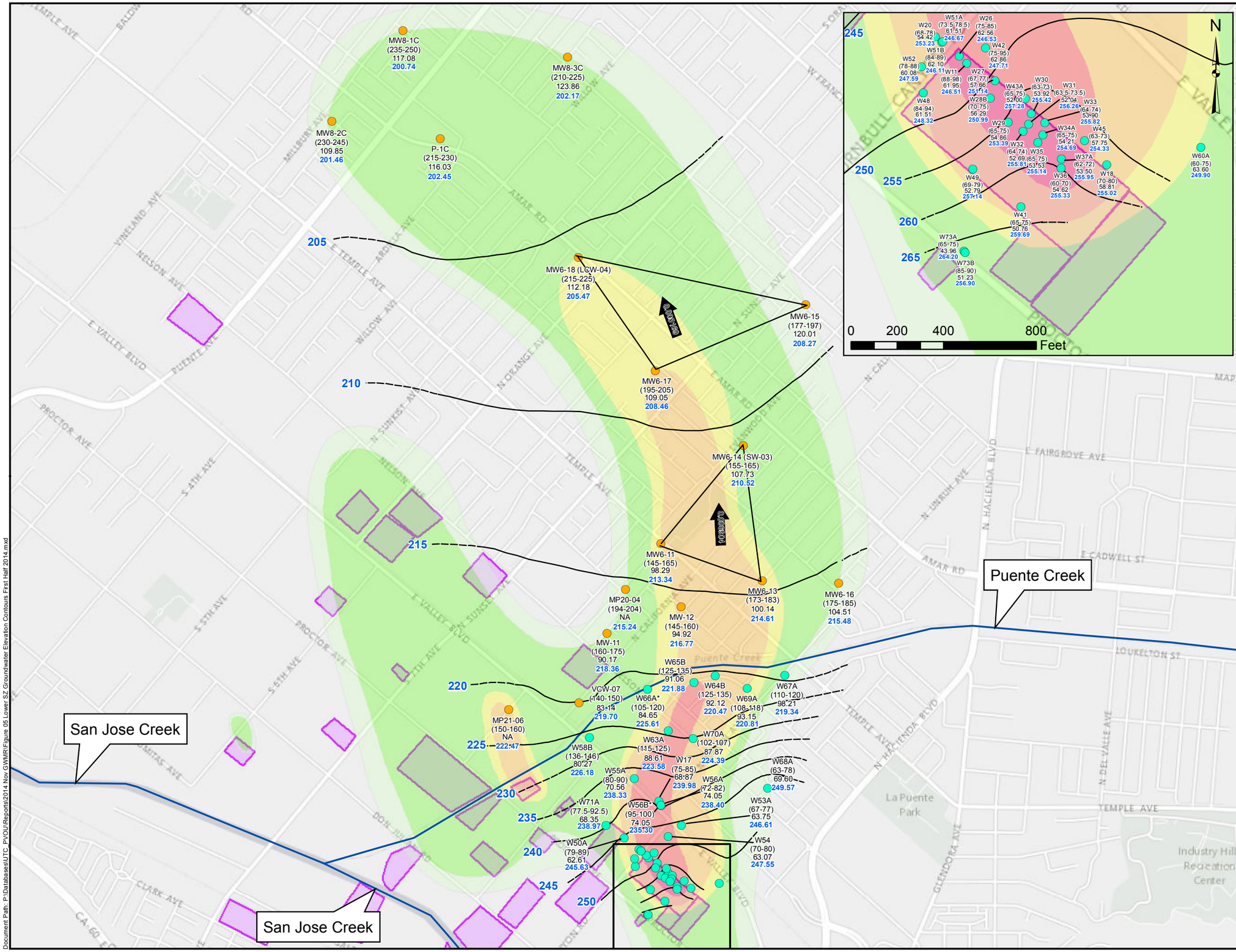
LOCATION: Puente Valley Operable Unit
Los Angeles County, California

TETRA TECH

APPROVED	DL
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 4

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 04 Upper SZ Groundwater Elevation Contours First Half 2014.mxd



Legend

- Wells monitored and sampled by NG
- Wells monitored and sampled by UTC
- Groundwater Elevation Contour, inferred where dashed (feet amsl)
- Facilities
- >100X Contaminant Criteria
- 20X to100X Contaminant Criteria
- 10X to 20X Contaminant Criteria
- Contaminant Criteria to 10X Contaminant Criteria
- < Contaminant Criteria
- Groundwater Flow Direction
- (140-150) Well Screen Interval (feet bgs)
- 140.01 Depth to Groundwater (feet bgs)
- 320.00 Groundwater Elevation (feet amsl)

Definitions

amsl: above mean sea level
bgs: below ground surface
PVOU: Puente Valley Operable Unit
SZ: Shallow Zone
NA: Not Available
NS: Not Sampled
UTC: United Technologies Corporation
NG: Northrop Grumman Corporation
*: Data Not Used for Contouring Purposes

TITLE: **Groundwater Elevation Contours Lower Portion of PVOU SZ Spring 2014 (First Half 2014)**

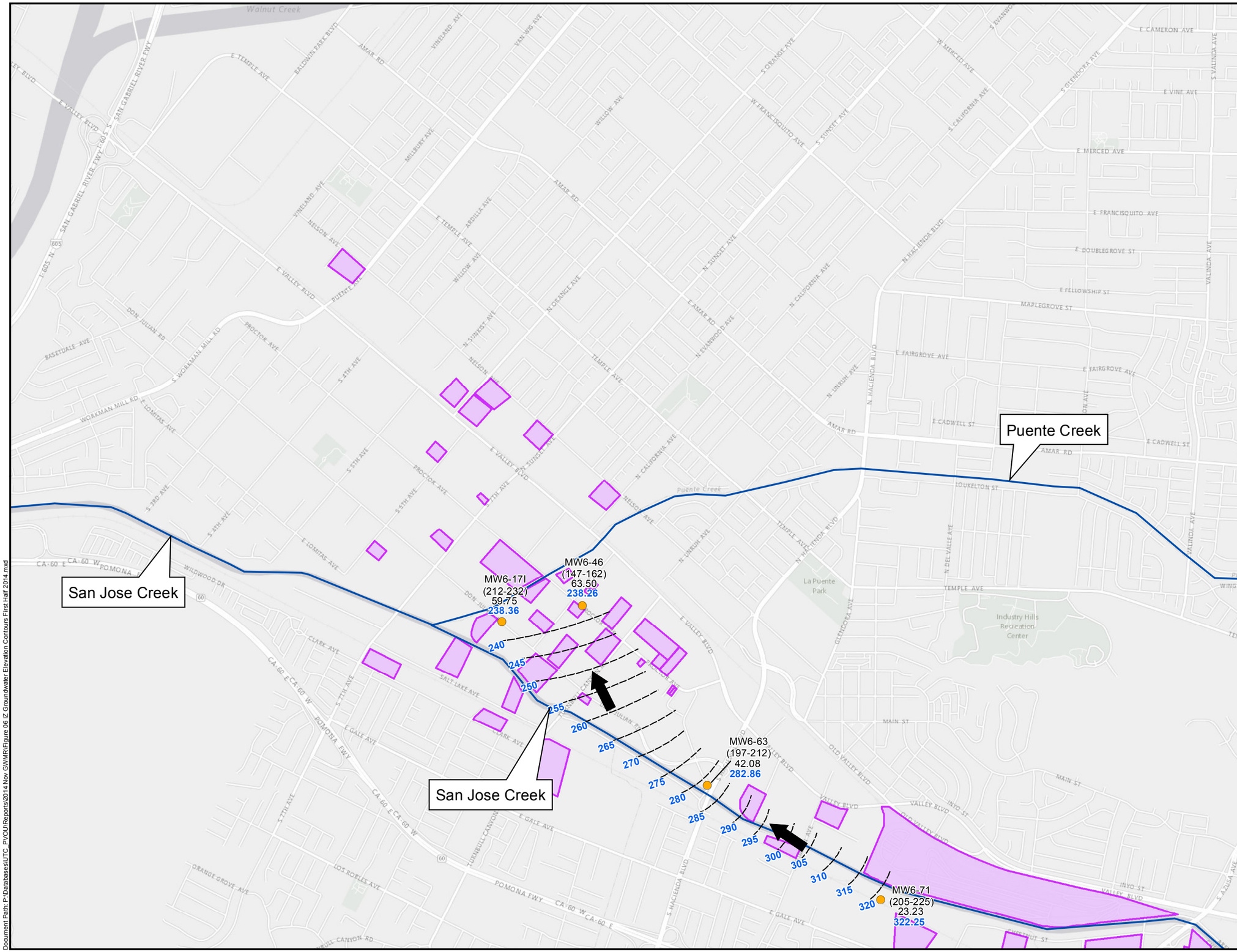
LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	DL
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 5

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 05 Lower SZ Groundwater Elevation Contours First Half 2014.mxd



N

Legend

- Wells monitored and sampled by UTC
- Inferred Groundwater Elevation Contour (feet amsl)
- Facilities
- Groundwater Flow Direction
- (140-150) Well Screen Interval (feet bgs)
- 140.01 Depth to Groundwater (feet bgs)
- 320.00 Groundwater Elevation (feet amsl)

Definitions

amsl: above mean sea level
bgs: below ground surface
PVOU: Puente Valley Operable Unit
IZ: Intermediate Zone
NA: Not Available
NS: Not Sampled
UTC: United Technologies Corporation

0 1,000 2,000 4,000 Feet

TITLE: Groundwater Elevation Contours
Mid-Valley Area PVOU IZ Spring 2014 (First Half 2014)

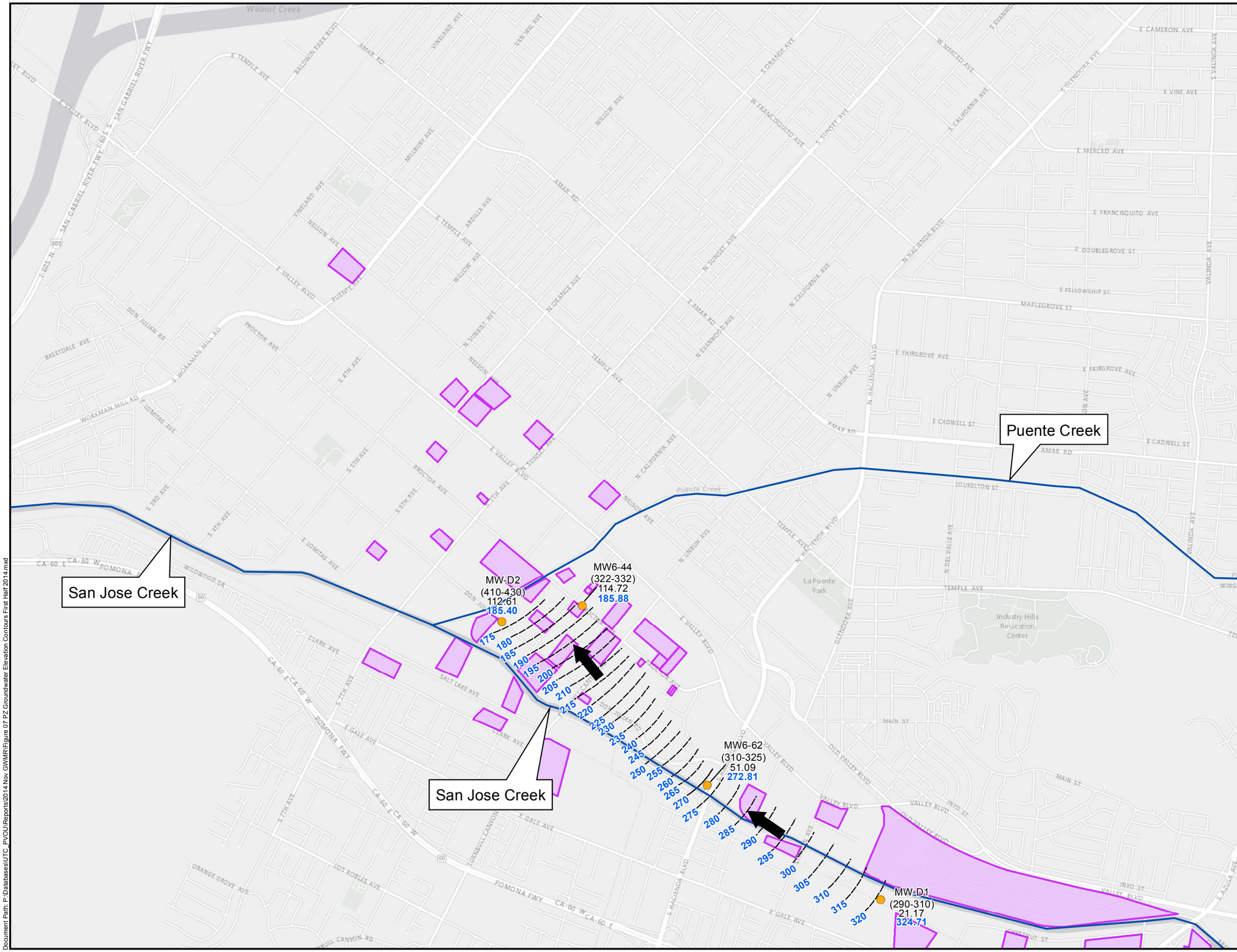
LOCATION: Puente Valley Operable Unit
Los Angeles County, California

TETRA TECH

APPROVED	DL
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 6

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 06 IZ Groundwater Elevation Contours First Half 2014.mxd



N

Legend

- Wells monitored and sampled by UTC
- Inferred Groundwater Elevation Contour (feet amsl)
- Facilities
- Groundwater Flow Direction
- (140-150) Well Screen Interval (feet bgs)
- 140.01 Depth to Groundwater (feet bgs)
- 320.00 Groundwater Elevation (feet amsl)

Definitions

amsl: above mean sea level
bgs: below ground surface
PVOU: Puente Valley Operable Unit
PZ: Production Zone
NA: Not Available
NS: Not Sampled
UTC: United Technologies Corporation

0 1,000 2,000 4,000 Feet

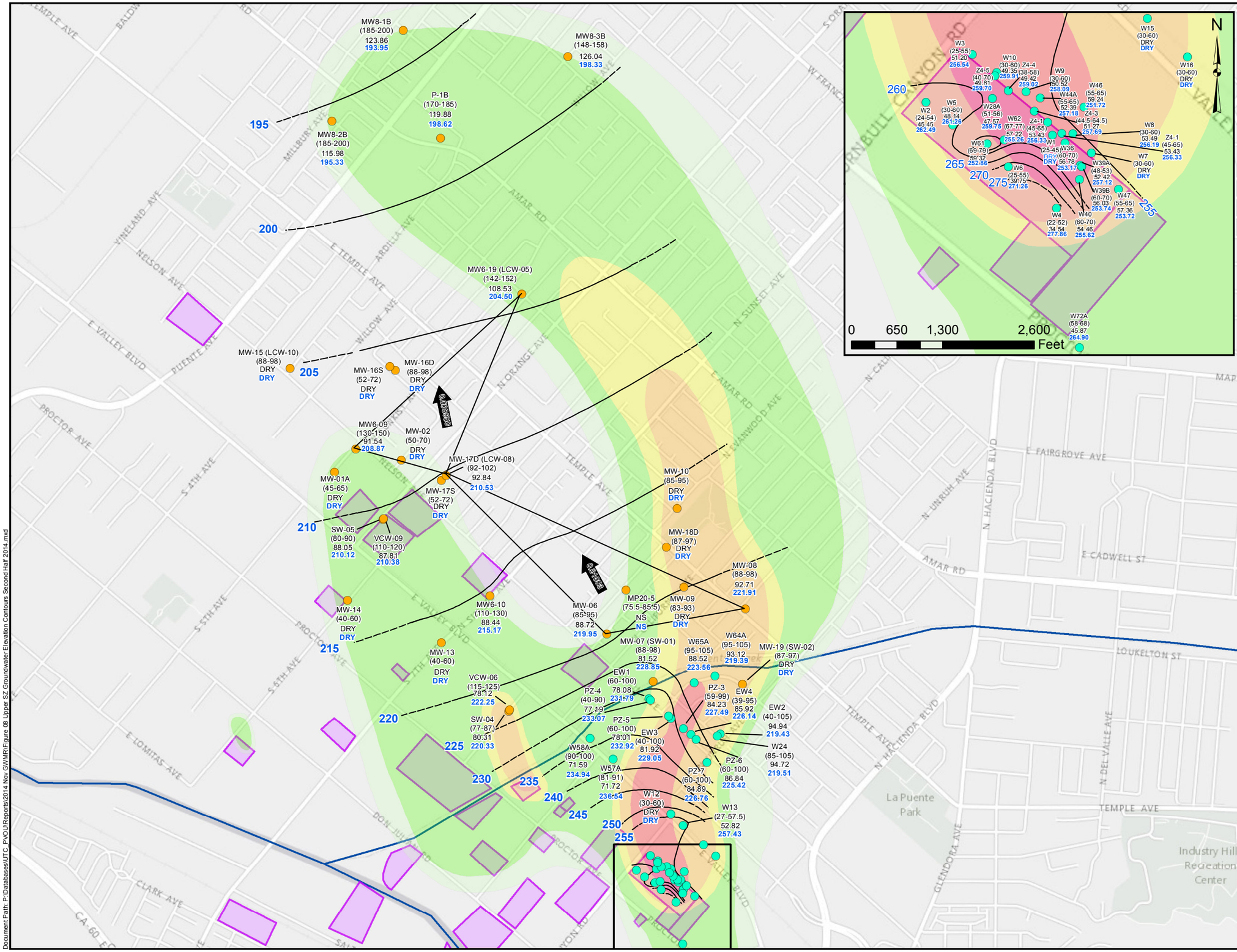
TITLE: **Groundwater Elevation Contours Mid-Valley Area PVOU PZ Spring 2014 (First Half 2014)**

LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	DL	FIGURE
DRAFTED	DW	7
PROJECT#	117-2210080	
DATE	11-24-2014	

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 07 PZ Groundwater Elevation Contours First Half 2014.mxd



N

Legend

- Wells monitored and sampled by NG
- Wells monitored and sampled by UTC
- Groundwater Elevation Contour, inferred where dashed (feet amsl)
- >100X Contaminant Criteria
- 20X to100X Contaminant Criteria
- 10X to 20X Contaminant Criteria
- Contaminant Criteria to 10X Contaminant Criteria
- < Contaminant Criteria
- Facilities
- Groundwater Flow Direction
- (140-150) Well Screen Interval (feet bgs)
- 140.01 Depth to Groundwater (feet bgs)
- 320.00 Groundwater Elevation (feet amsl)

Definitions

amsl: above mean sea level
bgs: below ground surface
PVOU: Puente Valley Operable Unit
SZ: Shallow Zone
NA: Not Available
NS: Not Sampled
UTC: United Technologies Corporation
NG: Northrop Grumman Corporation

0 0.125 0.25 0.5 Miles

TITLE: Groundwater Elevation Contours
Upper Portion of PVOU SZ Fall 2014 (Second Half 2014)

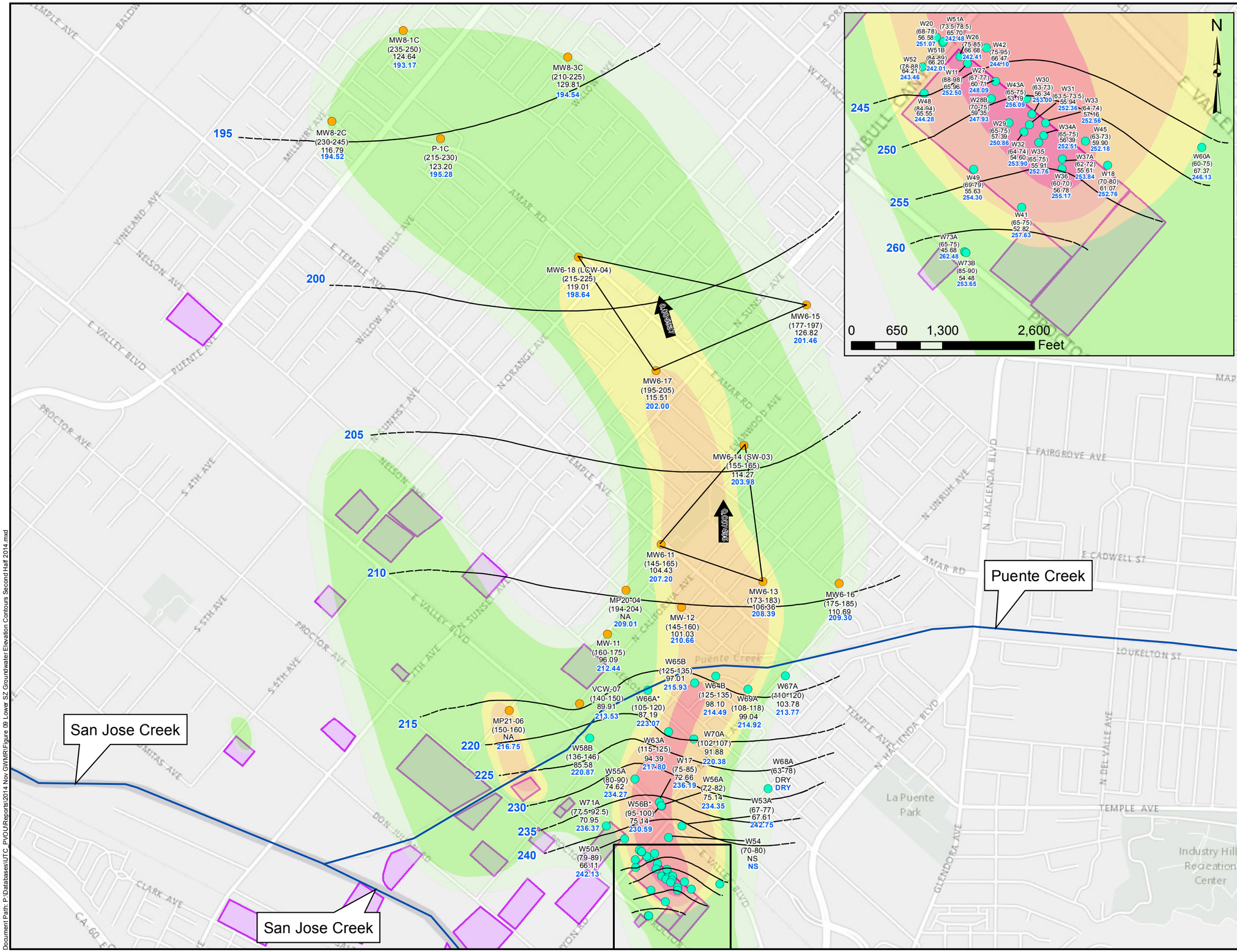
LOCATION: Puente Valley Operable Unit
Los Angeles County, California

TETRA TECH

APPROVED	DL
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-10-2014

FIGURE 8

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 08 Upper SZ Groundwater Elevation Contours Second Half 2014.mxd



Legend

- Wells monitored and sampled by NG
- Wells monitored and sampled by UTC
- Groundwater Elevation Contour, inferred where dashed (feet amsl)
- Facilities
- >100X Contaminant Criteria
- 20X to100X Contaminant Criteria
- 10X to 20X Contaminant Criteria
- Contaminant Criteria to 10X Contaminant Criteria
- < Contaminant Criteria
- Groundwater Flow Direction
- (140-150) Well Screen Interval (feet bgs)
- 140.01 Depth to Groundwater (feet bgs)
- 320.00 Groundwater Elevation (feet amsl)

Definitions

amsl: above mean sea level
bgs: below ground surface
PVOU: Puente Valley Operable Unit
SZ: Shallow Zone
NA: Not Available
NS: Not Sampled
UTC: United Technologies Corporation
NG: Northrop Grumman Corporation
*: Data Not Used for Contouring Purposes

TITLE: **Groundwater Elevation Contours Lower Portion of PVOU SZ Fall 2014 (Second Half 2014)**

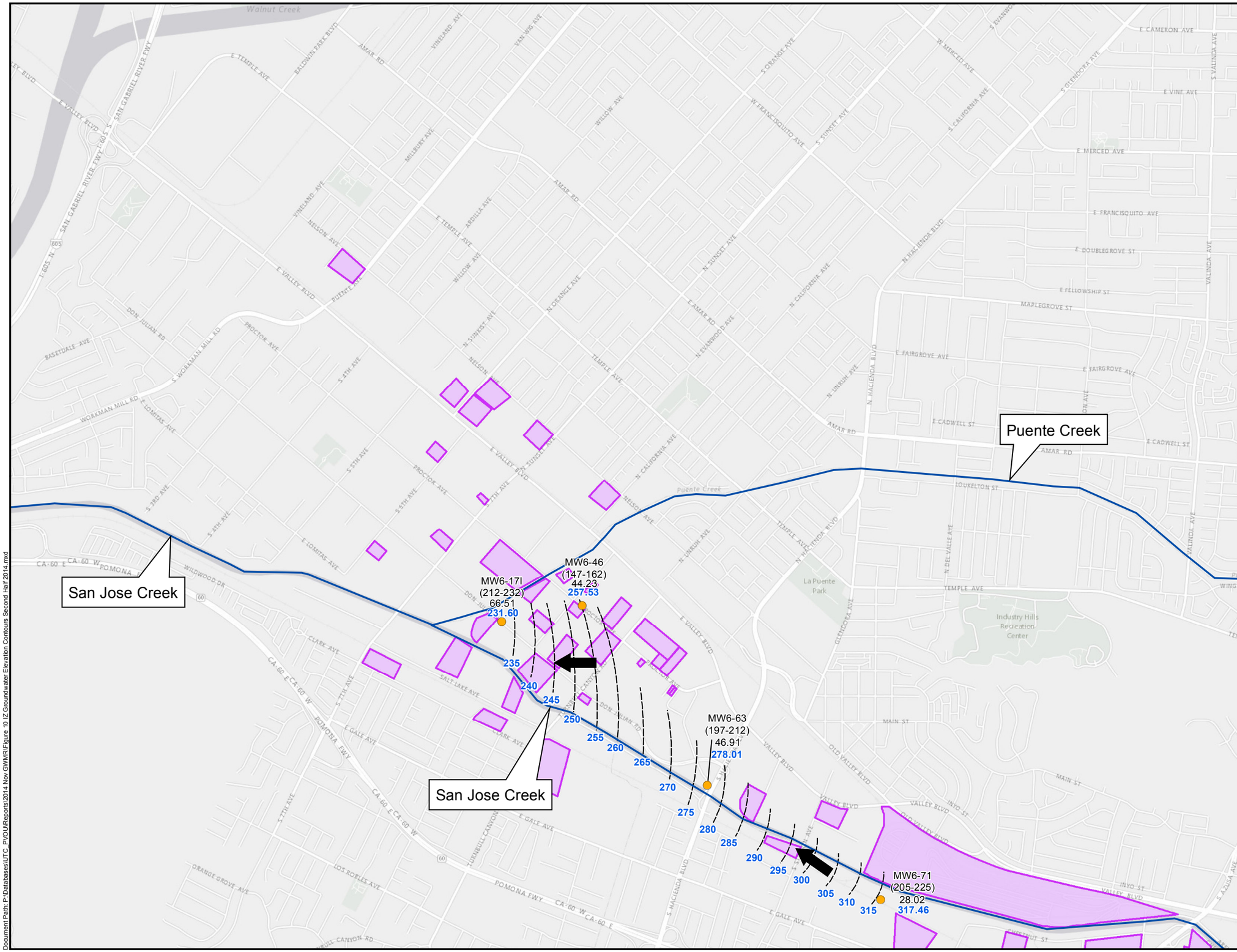
LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	DL
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 9

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 09 Lower SZ Groundwater Elevation Contours Second Half 2014.mxd



N

Legend

- Wells monitored and sampled by UTC
- Inferred Groundwater Elevation Contour (feet amsl)
- Facilities
- Groundwater Flow Direction
- (140-150) Well Screen Interval (feet bgs)
- 140.01 Depth to Groundwater (feet bgs)
- 320.00 Groundwater Elevation (feet amsl)

Definitions

amsl: above mean sea level
bgs: below ground surface
PVOU: Puente Valley Operable Unit
IZ: Intermediate Zone
NA: Not Available
NS: Not Sampled
UTC: United Technologies Corporation

0 1,000 2,000 4,000 Feet

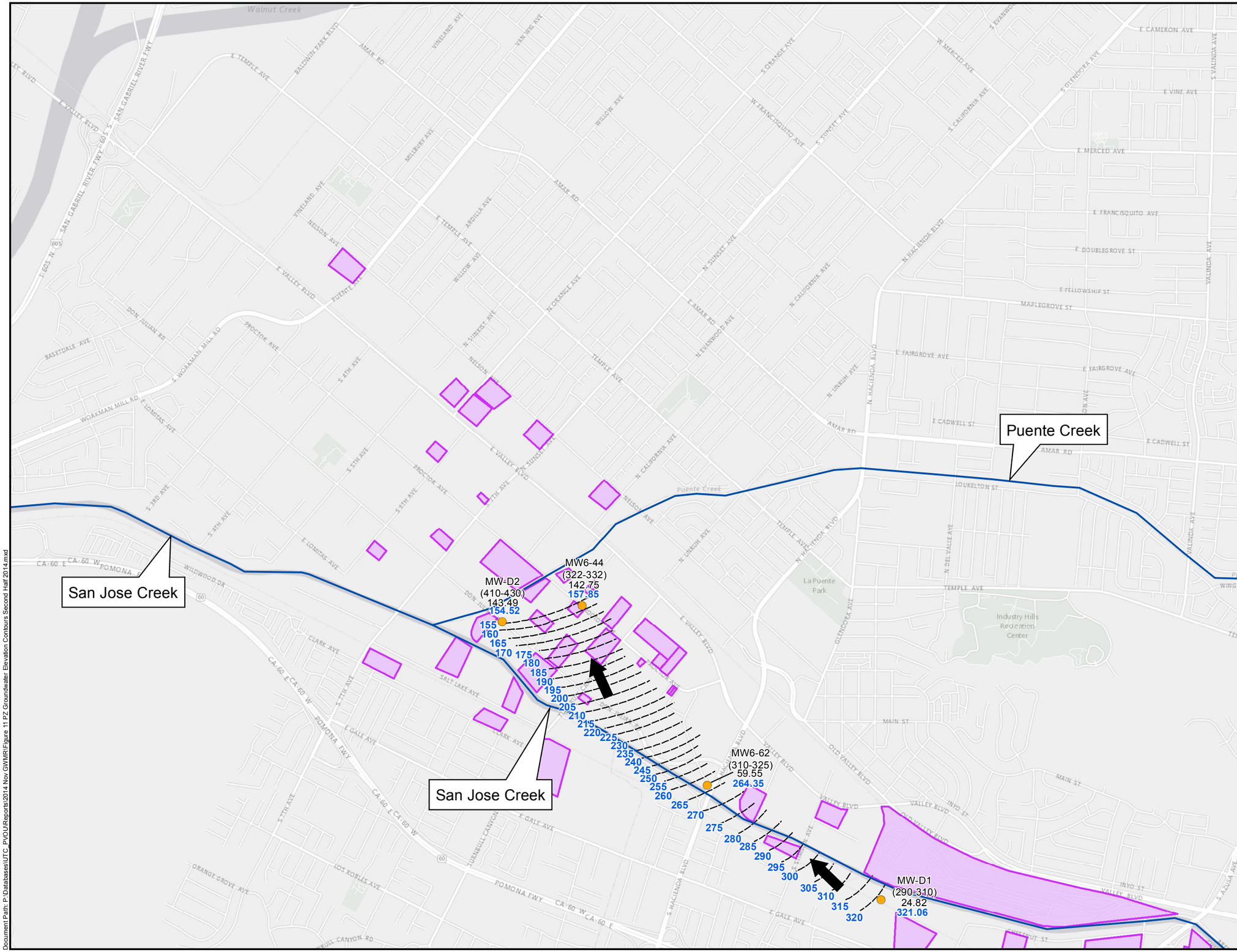
TITLE: **Groundwater Elevation Contours Mid-Valley Area PVOU IZ Fall 2014 (Second Half 2014)**

LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	DL	FIGURE
DRAFTED	DW	10
PROJECT#	117-2210080	
DATE	11-24-2014	

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 10 IZ Groundwater Elevation Contours Second Half 2014.mxd



N

Legend

- Wells monitored and sampled by UTC
- Inferred Groundwater Elevation Contour (feet amsl)
- Facilities
- Groundwater Flow Direction
- (140-150) Well Screen Interval (feet bgs)
- 140.01 Depth to Groundwater (feet bgs)
- 320.00 Groundwater Elevation (feet amsl)

Definitions

amsl: above mean sea level
bgs: below ground surface
PVOU: Puente Valley Operable Unit
PZ: Production Zone
NA: Not Available
NS: Not Sampled
UTC: United Technologies Corporation

0 1,000 2,000 4,000 Feet

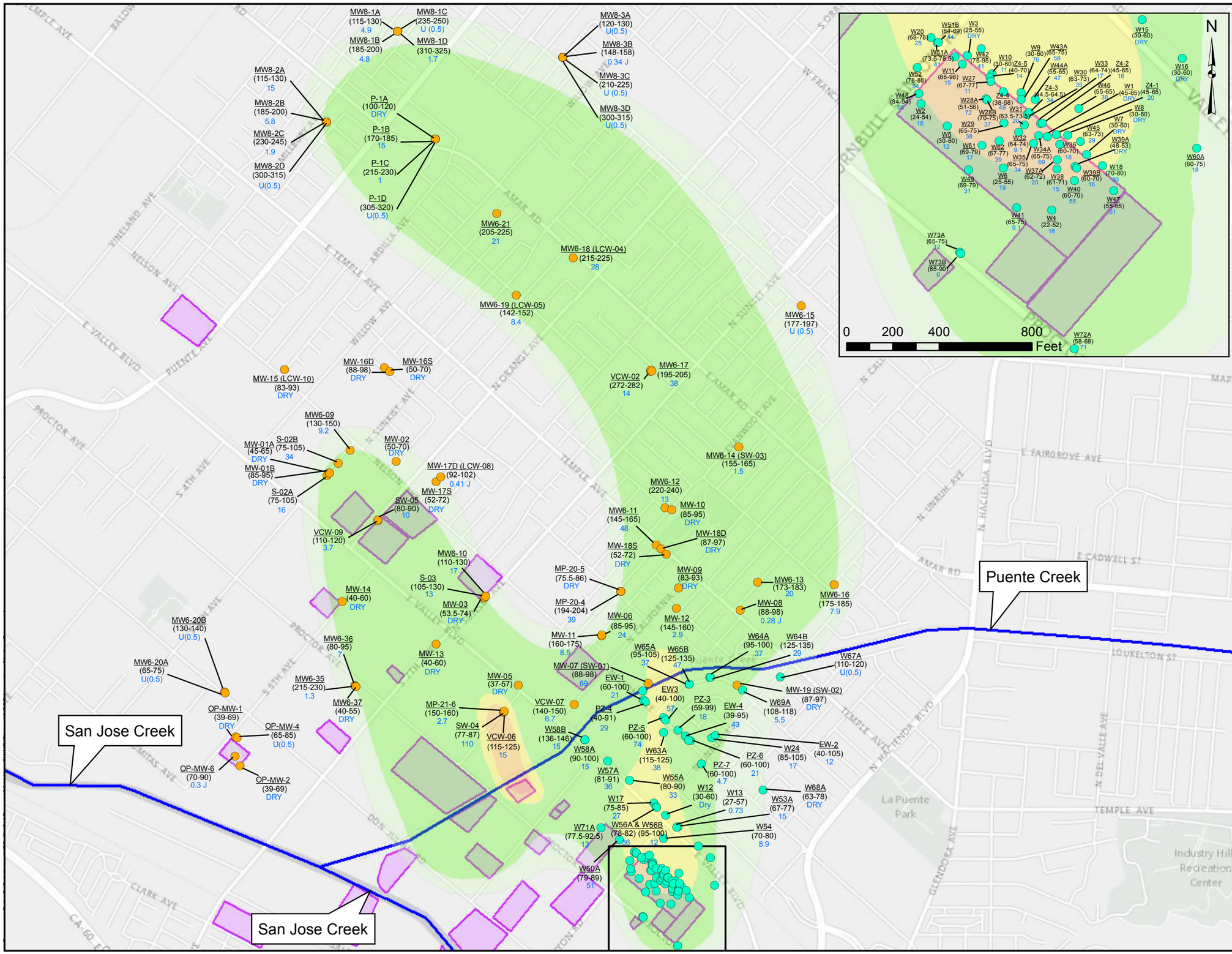
TITLE: **Groundwater Elevation Contours Mid-Valley Area PVOU PZ Fall 2014 (Second Half 2014)**

LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	DL	FIGURE
DRAFTED	DW	11
PROJECT#	117-2210080	
DATE	11-24-2014	

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 11 PZ Groundwater Elevation Contours Second Half 2014.mxd



N

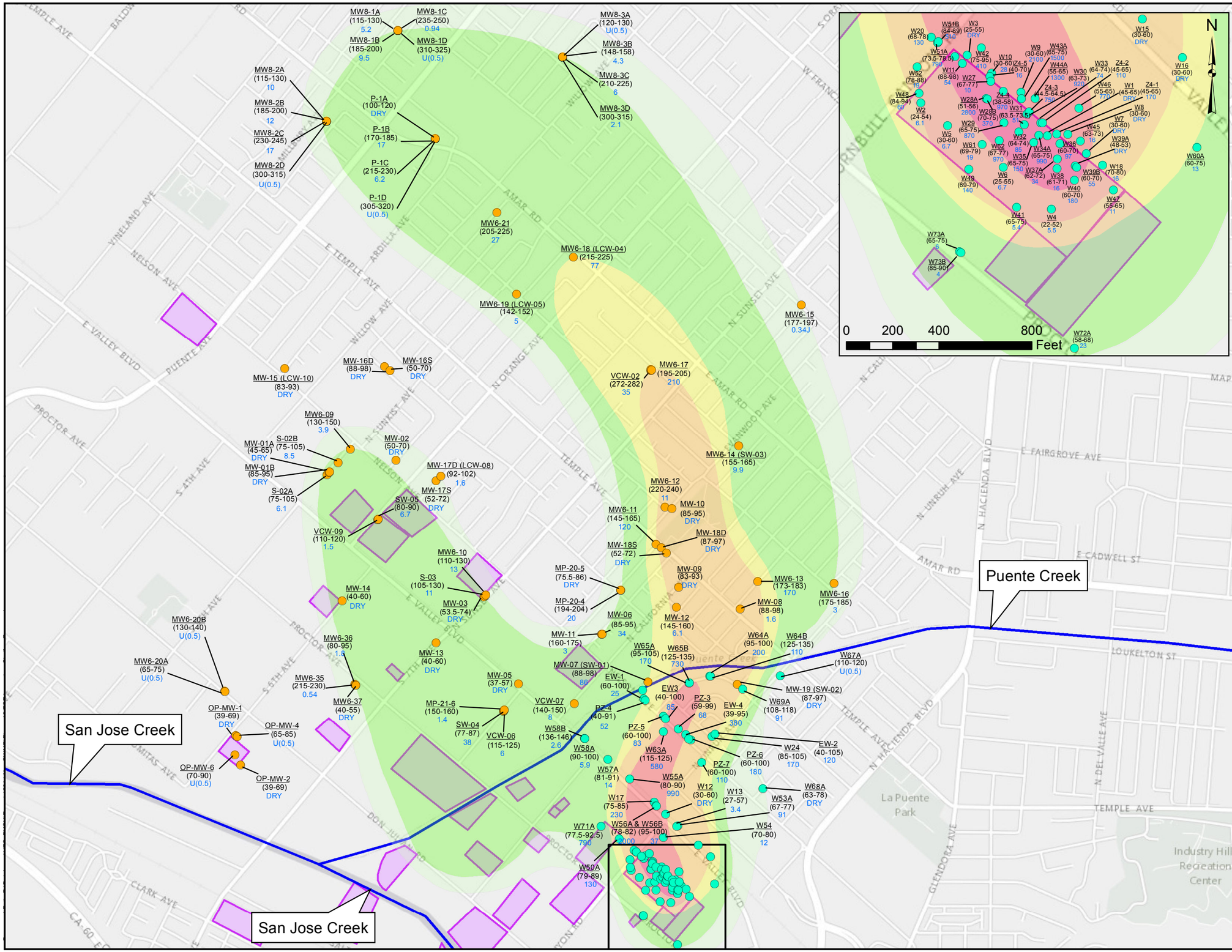
Legend

- Wells monitored and sampled by NG
- Wells monitored and sampled by UTC
- Facilities
- PCE 100X MCL to < 1,000X MCL
- PCE 20X MCL to < 100X MCL
- PCE 10X MCL to < 20X MCL
- PCE MCL to < 10X MCL
- PCE ND to < MCL

Definitions

PCE: Tetrachloroethylene
PVOU: Puente Valley Operable Unit
MCL: Maximum Contaminant Level (5 µg/L)
µg/L: Micrograms per Liter
U: Not Detected Above Reporting Limit
J: Estimated Value
(175-185): Well Screen in Feet Bgs
0.28 : Concentration in µg/L

TITLE:	PCE Isoconcentration Contours
LOCATION:	Puente Valley Operable Unit Los Angeles County, California
TETRA TECH	APPROVED: DL DRAFTED: DW PROJECT#: 117-2210080 DATE: 11-24-2014
FIGURE	12



Legend

- Wells monitored and sampled by NG
- Wells monitored and sampled by UTC
- Facilities
- TCE 100X MCL to < 1,000X MCL
- TCE 20X MCL to < 100X MCL
- TCE 10X MCL to < 20X MCL
- TCE MCL to < 10X MCL
- TCE ND to < MCL

Definitions

TCE: Trichloroethylene
PVOU: Puente Valley Operable Unit
MCL: Maximum Contaminant Level (5 µg/L)
µg/L: Micrograms per Liter
U: Not Detected Above Reporting Limit
J: Estimated Value
(175-185): Well Screen in Feet Bgs
0.28 : Concentration in µg/L

0 0.125 0.25 0.5 Miles

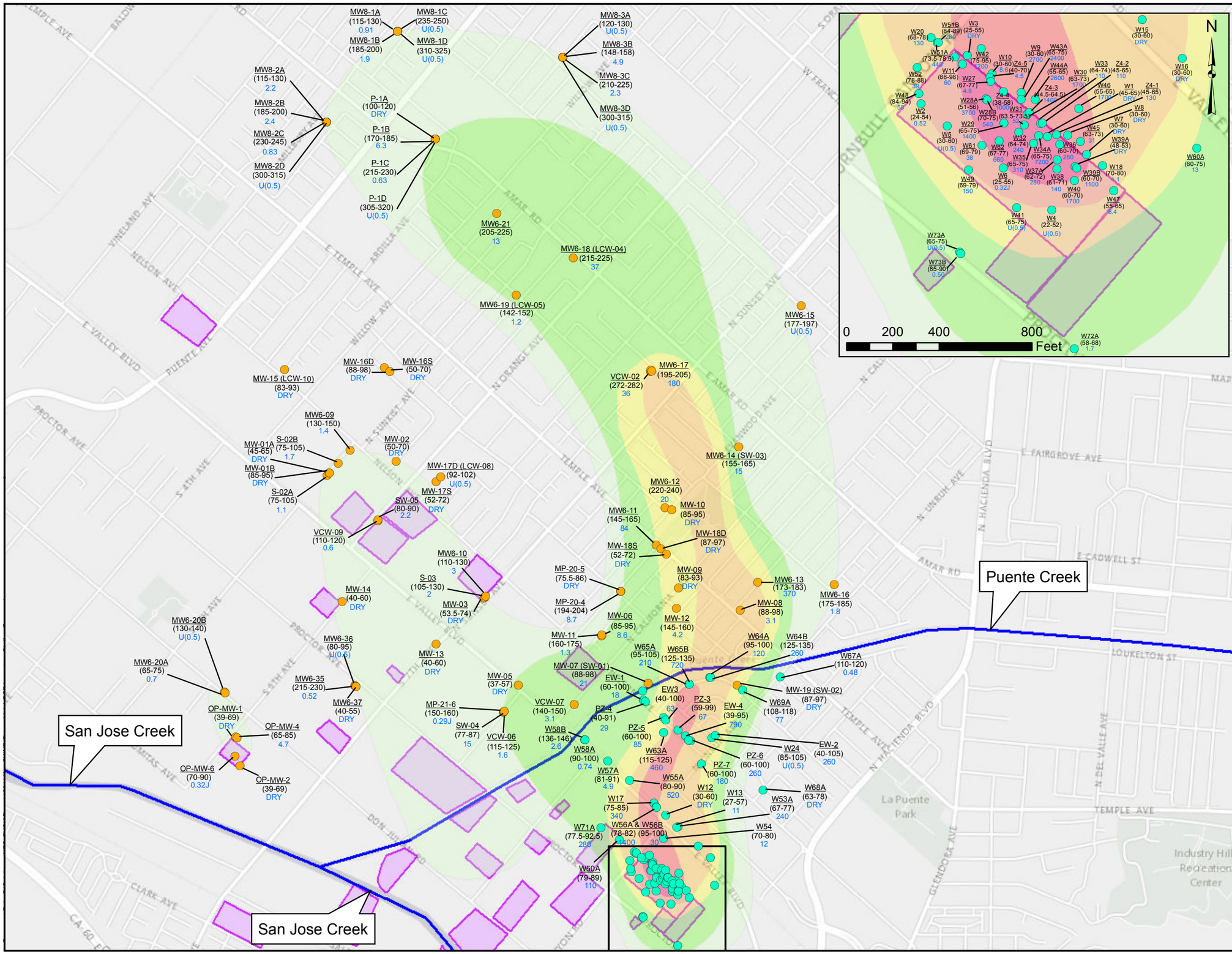
TITLE: TCE Isoconcentration Contours

LOCATION: Puente Valley Operable Unit
Los Angeles County, California

TETRA TECH

APPROVED	DL
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 13



Legend

- Wells monitored and sampled by NG
- Wells monitored and sampled by UTC
- Facilities
- 1,1-DCE 100X MCL to < 1,000X MCL
- 1,1-DCE 20X MCL to < 100X MCL
- 1,1-DCE 10X MCL to < 20X MCL
- 1,1-DCE MCL to < 10X MCL
- 1,1-DCE ND to < MCL

Definitions

1,1-DCE: 1,1-Dichloroethene
PVOU: Puente Valley Operable Unit
MCL: Maximum Contaminant Level (6 µg/L)
µg/L: Micrograms per Liter
U: Not Detected Above Reporting Limit
J: Estimated Value
(175-185): Well Screen in Feet Bgs
0.28 : Concentration in µg/L

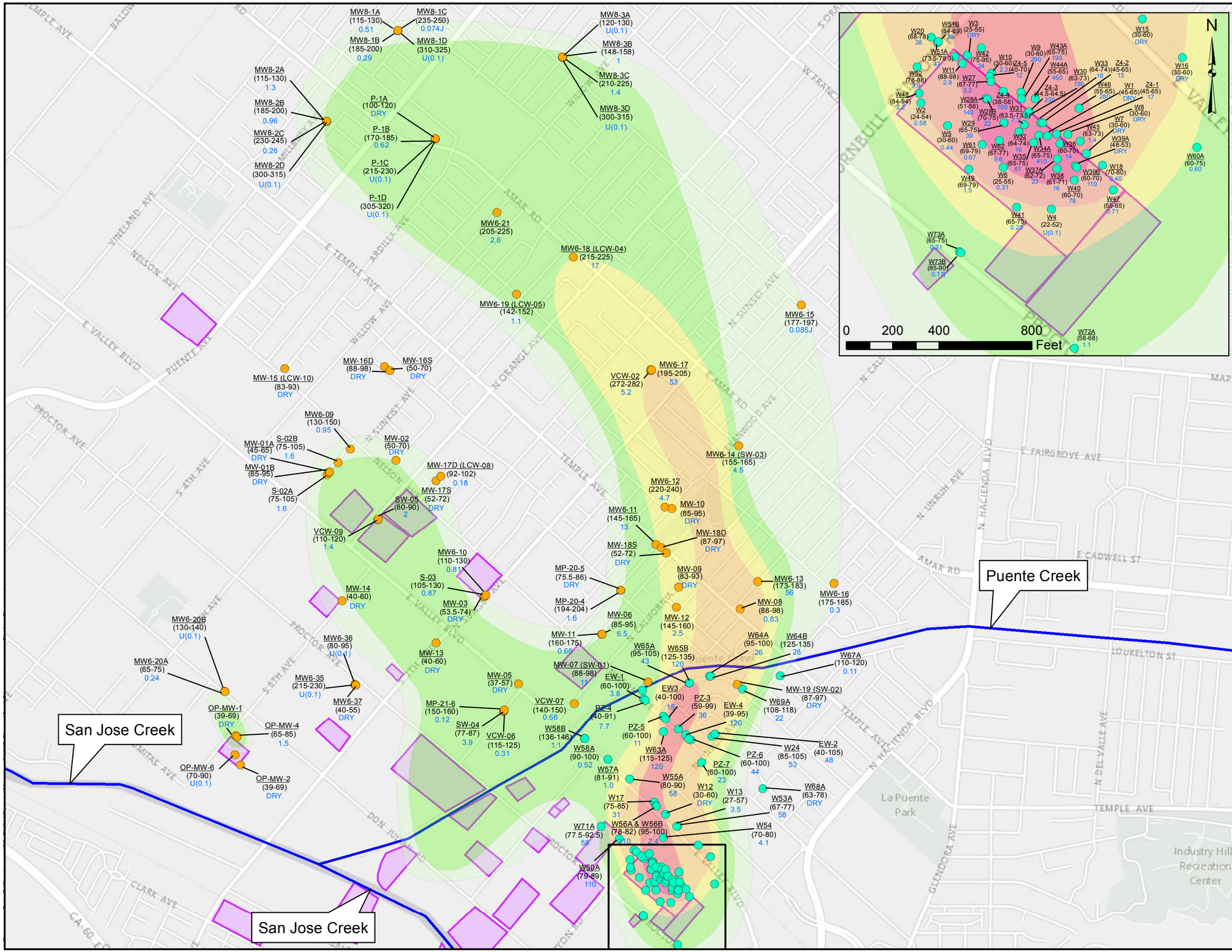
TITLE: **1,1-DCE Isoconcentration Contours**

LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	DL
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 14



Legend

- Wells monitored and sampled by NG
- Wells monitored and sampled by UTC
- Facilities
- 1,4-Dioxane 100X NL to < 1,000X NL
- 1,4-Dioxane 20X NL to < 100X NL
- 1,4-Dioxane 10X NL to < 20X NL
- 1,4-Dioxane NL to < 10X NL
- 1,4-Dioxane ND to < NL

Definitions

PVOU: Puente Valley Operable Unit
NL: Notification Level (1 µg/L)
µg/L: Micrograms per Liter
U: Not Detected Above Reporting Limit
J: Estimated Value
(175-185): Well Screen in Feet Bgs
0.28 : Concentration in µg/L

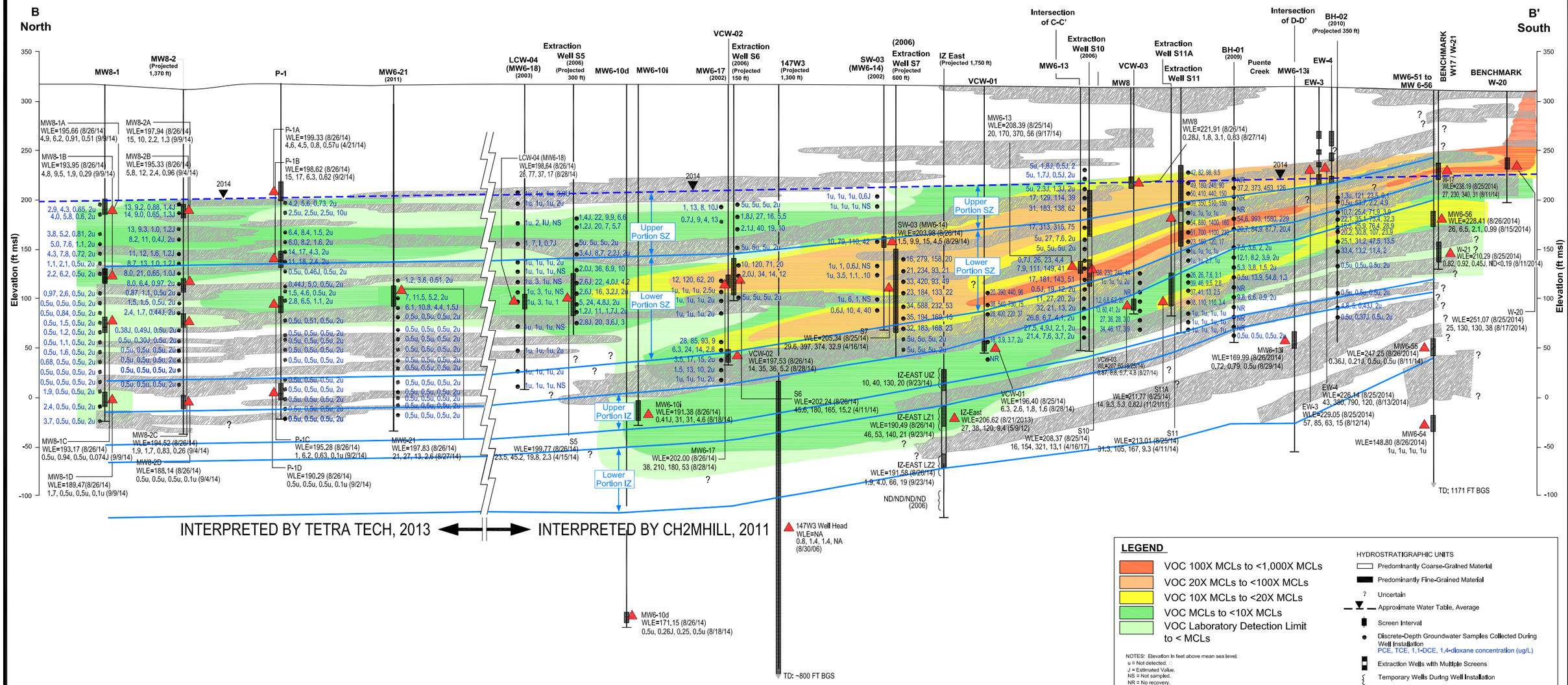
TITLE: 1,4-Dioxane Isoconcentration Contours

LOCATION: Puente Valley Operable Unit
Los Angeles County, California

TETRA TECH

APPROVED	DL
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 15



LEGEND

- VOC 100X MCLs to <1,000X MCLs
- VOC 20X MCLs to <100X MCLs
- VOC 10X MCLs to <20X MCLs
- VOC MCLs to <10X MCLs
- VOC Laboratory Detection Limit to < MCLs

NOTES: Elevation in feet above mean sea level.
u = Not detected.
J = Estimated Value.
NS = Not sampled.
NR = No recovery.
SZ = Interpreted Shallow Zone
IZ = Interpreted Intermediate Zone
NA = Not available
FT BGS = feet below ground surface
Maximum Contamination Levels (MCLs) or Notification Level (NL)
PCE = 5 µg/L (MCL)
TCE = 5 µg/L (MCL)
1,1-DCE = 6 µg/L (MCL)
1, 4-dioxane = 3 µg/L (NL)

HYDROSTRATIGRAPHIC UNITS
- Predominantly Coarse-Grained Material
- Predominantly Fine-Grained Material
- Uncertain
- Approximate Water Table, Average
- Screen Interval
- Discrete-Depth Groundwater Samples Collected During Well Installation
  PCE, TCE, 1,1-DCE, 1,4-dioxane concentration (ug/L)
- Extraction Wells with Multiple Screens
- Temporary Wells During Well Installation
- Well ID
  Water Level (ft msl) (Measurement Date)
  PCE, TCE, 1,1-DCE, 1,4-dioxane concentration (ug/L)
  (Sampling Date)

MW6-10 (2002) — Well ID (Installation Date)

SOURCE:
CH2MHILL, 2011
MW6-21, P-1, MW8-1, MW8-2 BY TETRA TECH, 2013

0 1000 2000
SCALE IN FEET
VERTICAL EXAGGERATION = 10X

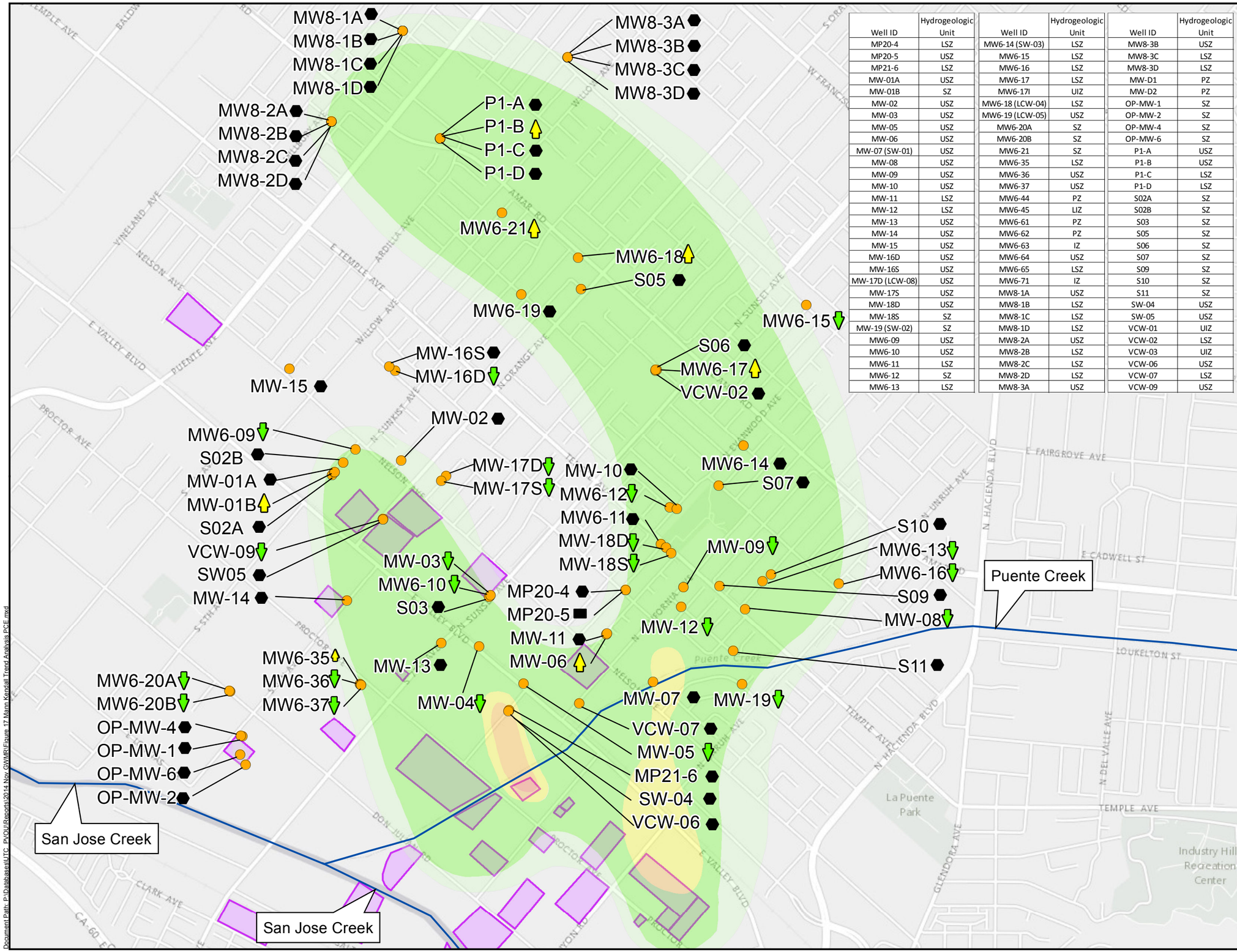
TITLE:
CROSS-SECTION B-B'

LOCATION:
Puente Valley Operable Unit, Los Angeles County, California

TETRA TECH

APPROVED	DS	FIGURE
DRAFTED	CP	16
PROJECT#	117-2210056	
DATE	12-3-14	

P:\ACADV 2210-060-PVOU\2210060014A.DWG



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

N

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities
- PCE 100X MCL to < 1,000X MCL
- PCE 20X MCL to < 100X MCL
- PCE 10X MCL to < 20X MCL
- PCE MCL to < 10X MCL
- PCE ND to < MCL

Definitions

PCE: Tetrachloroethylene
MCL: Maximum Contaminant Level (5µg/L)
SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

TITLE: **Mann-Kendall Trend Analysis: PCE PVOU SZN**

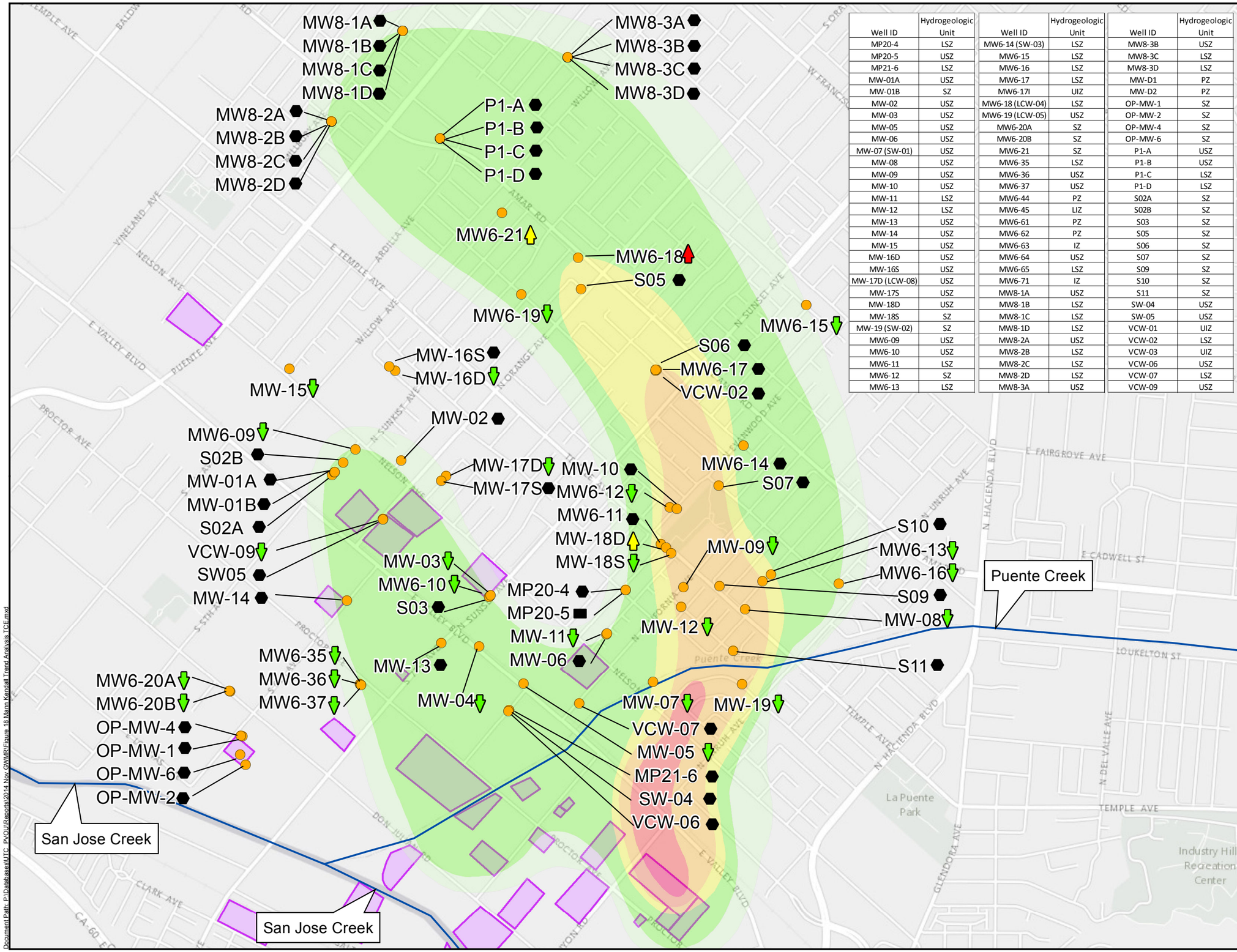
LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 17

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 17 Mann Kendall Trend Analysis PCE.mxd



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities
- TCE 100X MCL to < 1,000X MCL
- TCE 20X MCL to < 100X
- TCE 10X MCL to < 20X
- TCE MCL to < 10X MCL
- TCE ND to < MCL

Definitions

TCE: Trichloroethylene
MCL: Maximum Contaminant Level (5µg/L)
SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

TITLE: Mann-Kendall Trend Analysis: TCE PVOU SZN

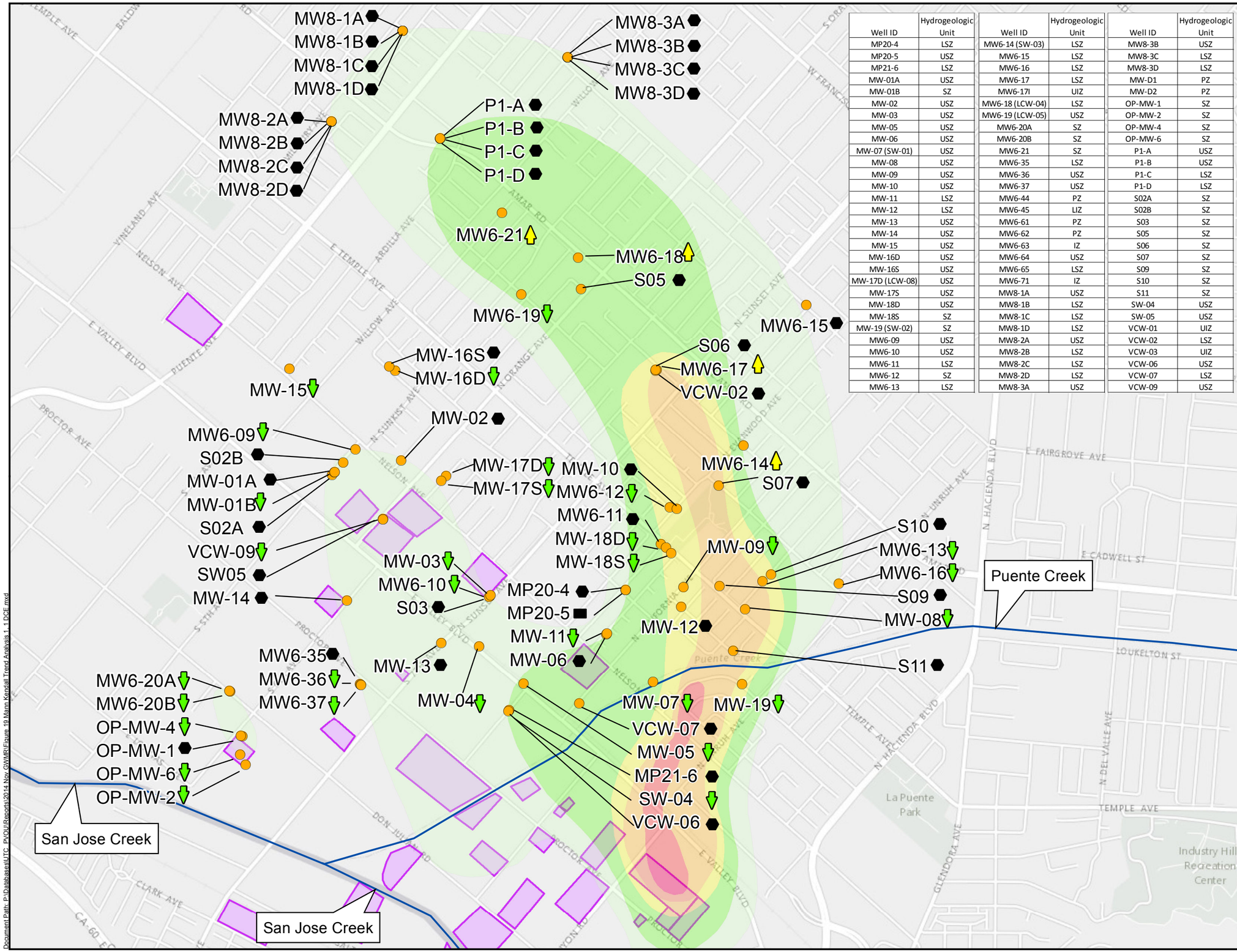
LOCATION: Puente Valley Operable Unit Los Angeles County, California

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 18

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 18 Mann Kendall Trend Analysis TCE.mxd



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities
- 1,1-DCE 100X MCL to < 1,000X MCL
- 1,1-DCE 20X MCL to < 100X MCL
- 1,1-DCE 10X MCL to < 20X MCL
- 1,1-DCE MCL to < 10X MCL
- 1,1-DCE ND to < MCL

Definitions

1,1-DCE: 1,1-Dichloroethene
MCL: Maximum Contaminant Level (6µg/L)
SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

TITLE: **Mann-Kendall Trend Analysis: 1,1-DCE PVOU SZN**

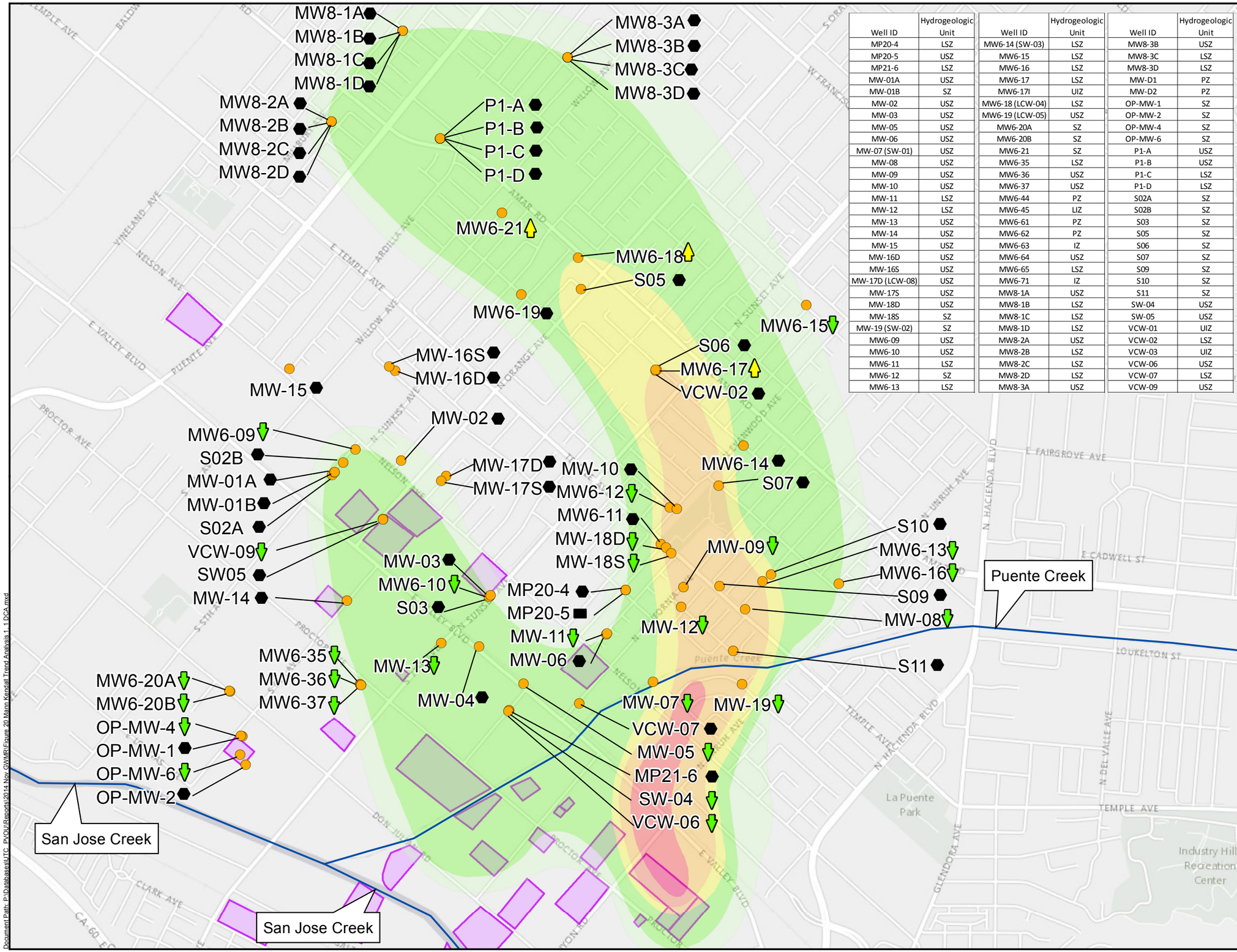
LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 19

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 19 Mann Kendall Trend Analysis 1,1 DCE.mxd



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities
- 1,1-DCA 100X MCL to < 1,000X MCL
- 1,1-DCA 20X MCL to < 100X MCL
- 1,1-DCA 10X MCL to < 20X MCL
- 1,1-DCA MCL to < 10X MCL
- 1,1-DCA ND to < MCL

Definitions

1,1-DCA: 1,1-Dichloroethane
MCL: Maximum Contaminant Level (5µg/L)
SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

TITLE: **Mann-Kendall Trend Analysis: 1,1-DCA PVOU SZN**

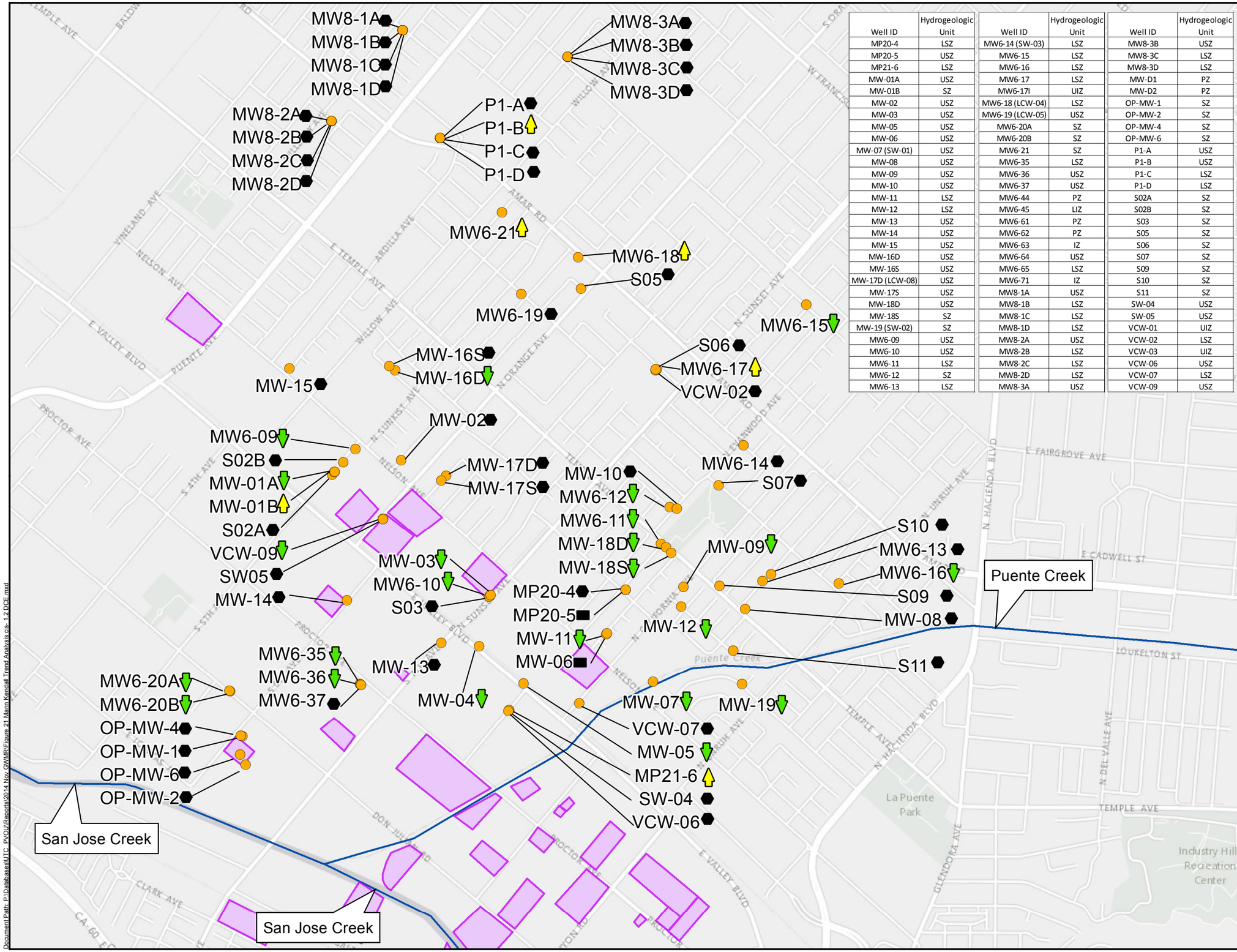
LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 20

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 20 Mann Kendall Trend Analysis 1_1 DCA.mxd



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

TITLE: **Mann-Kendall Trend Analysis: cis-1,2-DCE PVOU SZN**

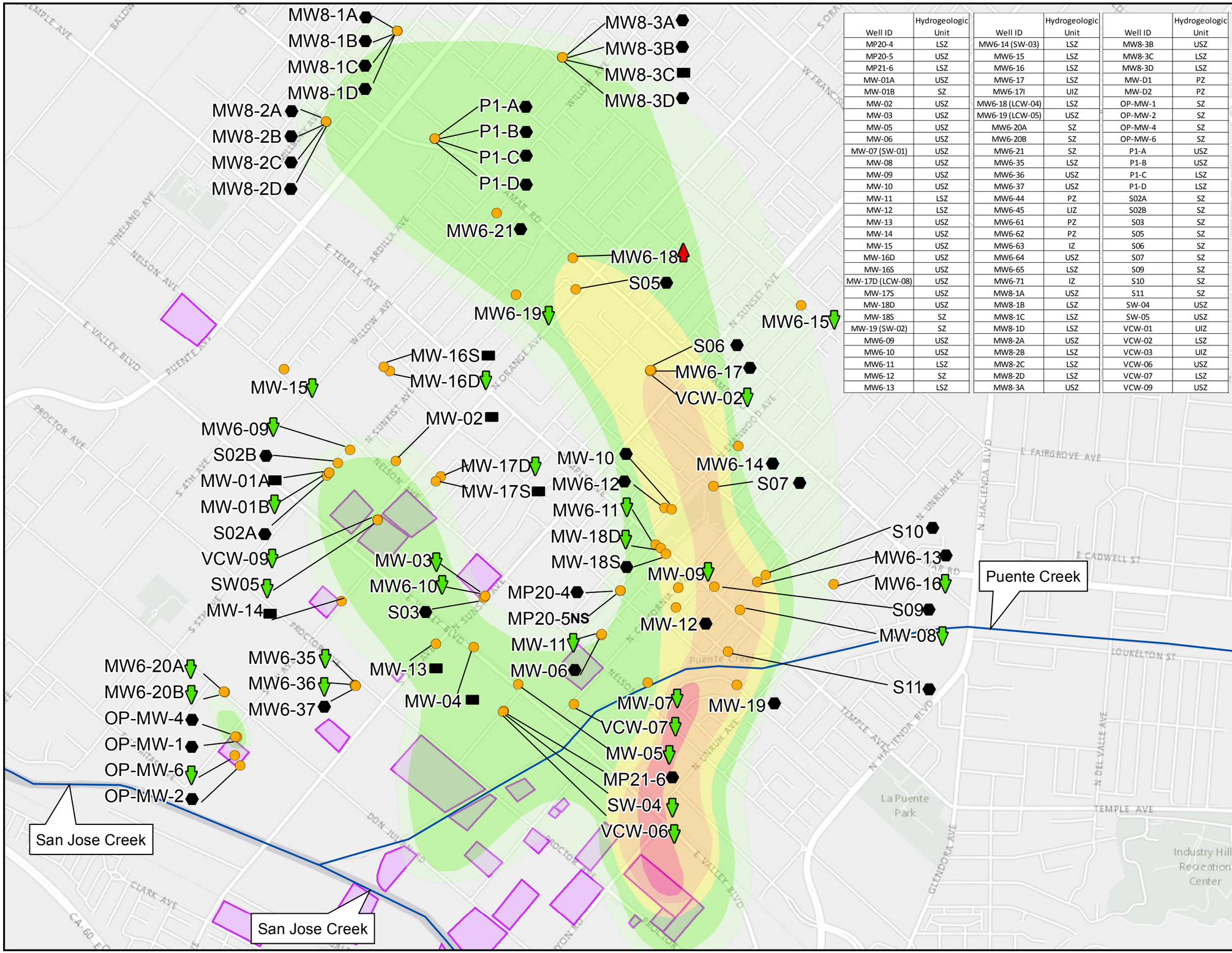
LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	114-2210080
DATE	11-4-2014

FIGURE 21

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 21 Mann Kendall Trend Analysis cis-1,2 DCE.mxd



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

N

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient Evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities
- 1, 4 Dioxane 100X NL to < 1,000X NL
- 1, 4 Dioxane 20X NL to < 100X NL
- 1, 4 Dioxane 10X NL to < 20X NL
- 1, 4 Dioxane NL to < 10X NL
- 1, 4 Dioxane ND to < NL

Definitions

MCL: Maximum Contaminant Level (1µg/L)
SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
NS: Not Sampled
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

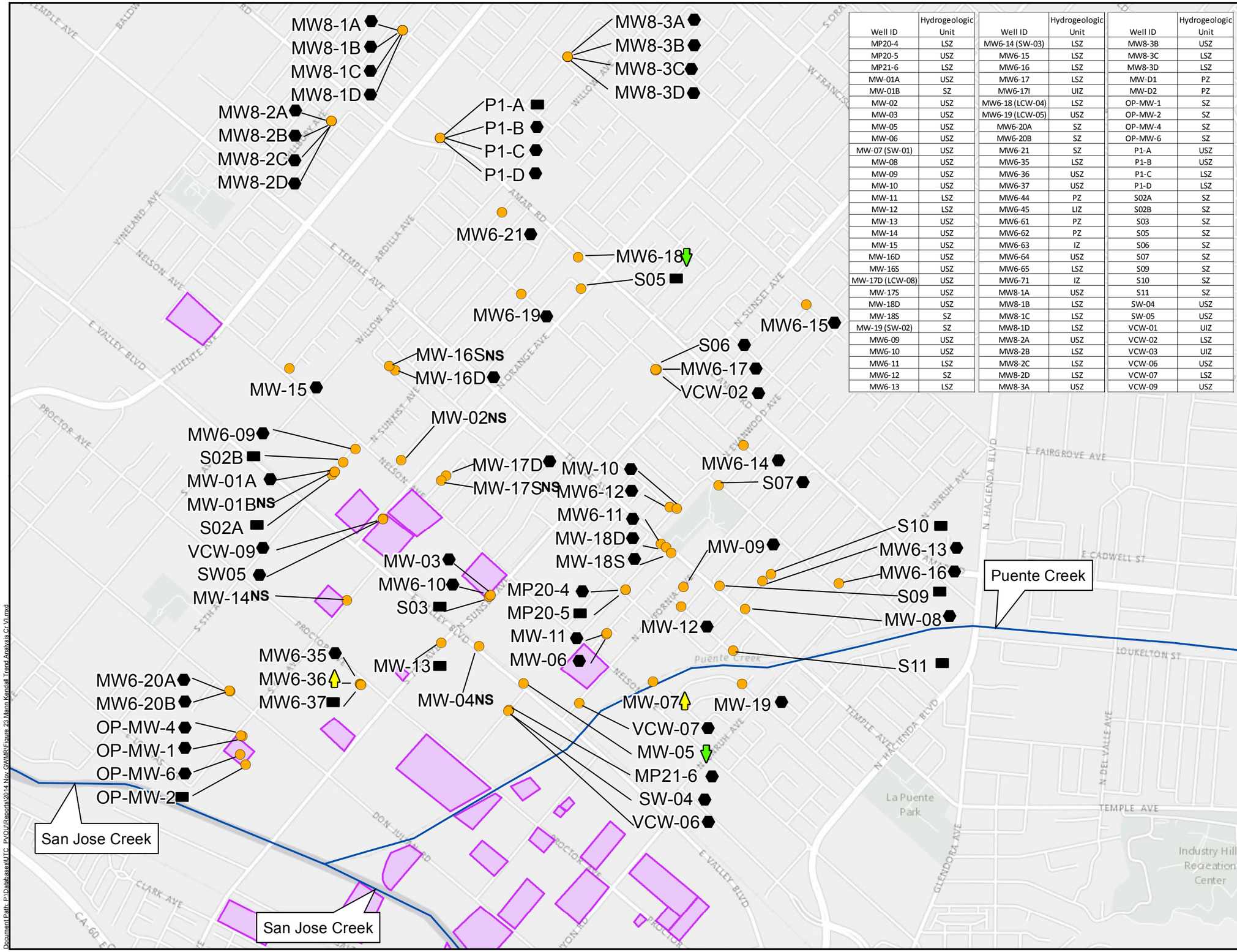
TITLE: **Mann-Kendall Trend Analysis: 1, 4 Dioxane PVOU SZN**

LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 22



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities

Definitions

Cr VI: Chromium 6+
SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
NS: Not Sampled
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

TITLE: Mann-Kendall Trend Analysis: Cr VI PVOU SZN

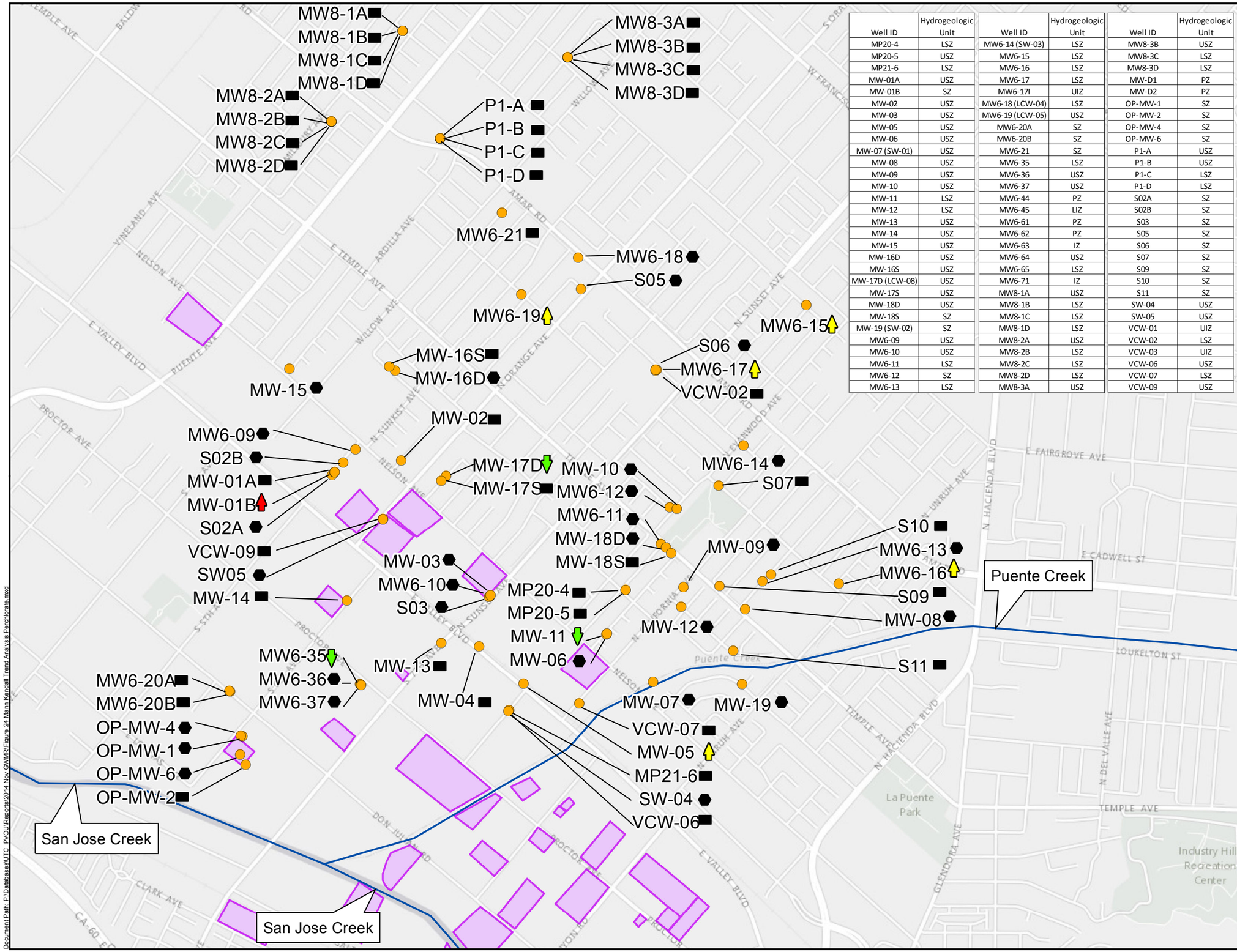
LOCATION: Puente Valley Operable Unit Los Angeles County, California

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 23

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 23 Mann Kendall Trend Analysis Cr VI.mxd



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

N

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities

Definitions

SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

TITLE: Mann-Kendall Trend Analysis: Perchlorate PVOU SZN

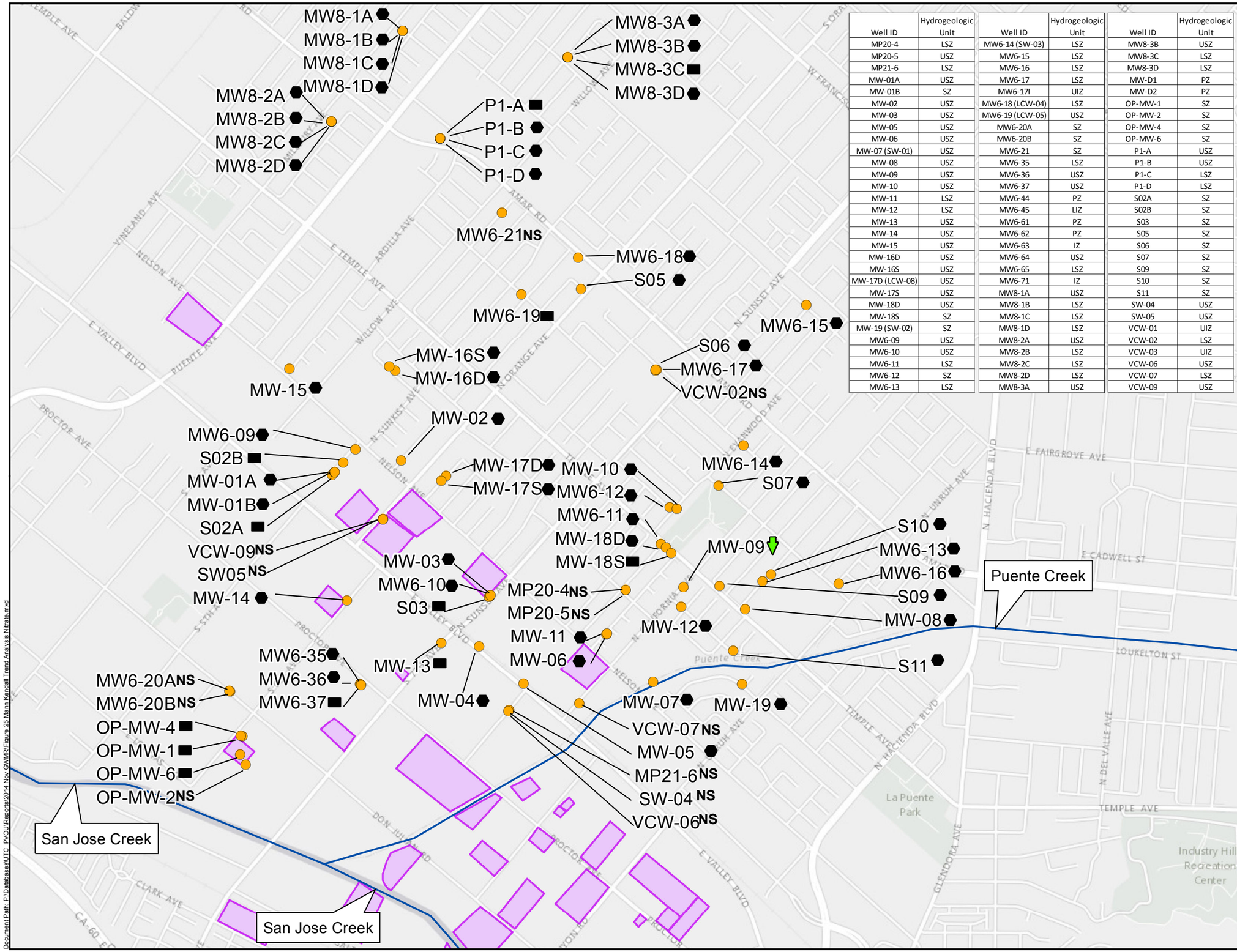
LOCATION: Puente Valley Operable Unit Los Angeles County, California

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 24

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 24 Mann Kendall Trend Analysis Perchlorate.mxd



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities

Definitions

SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
NS: Not Sampled
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

TITLE: Mann-Kendall Trend Analysis: Nitrate PVOU SZN

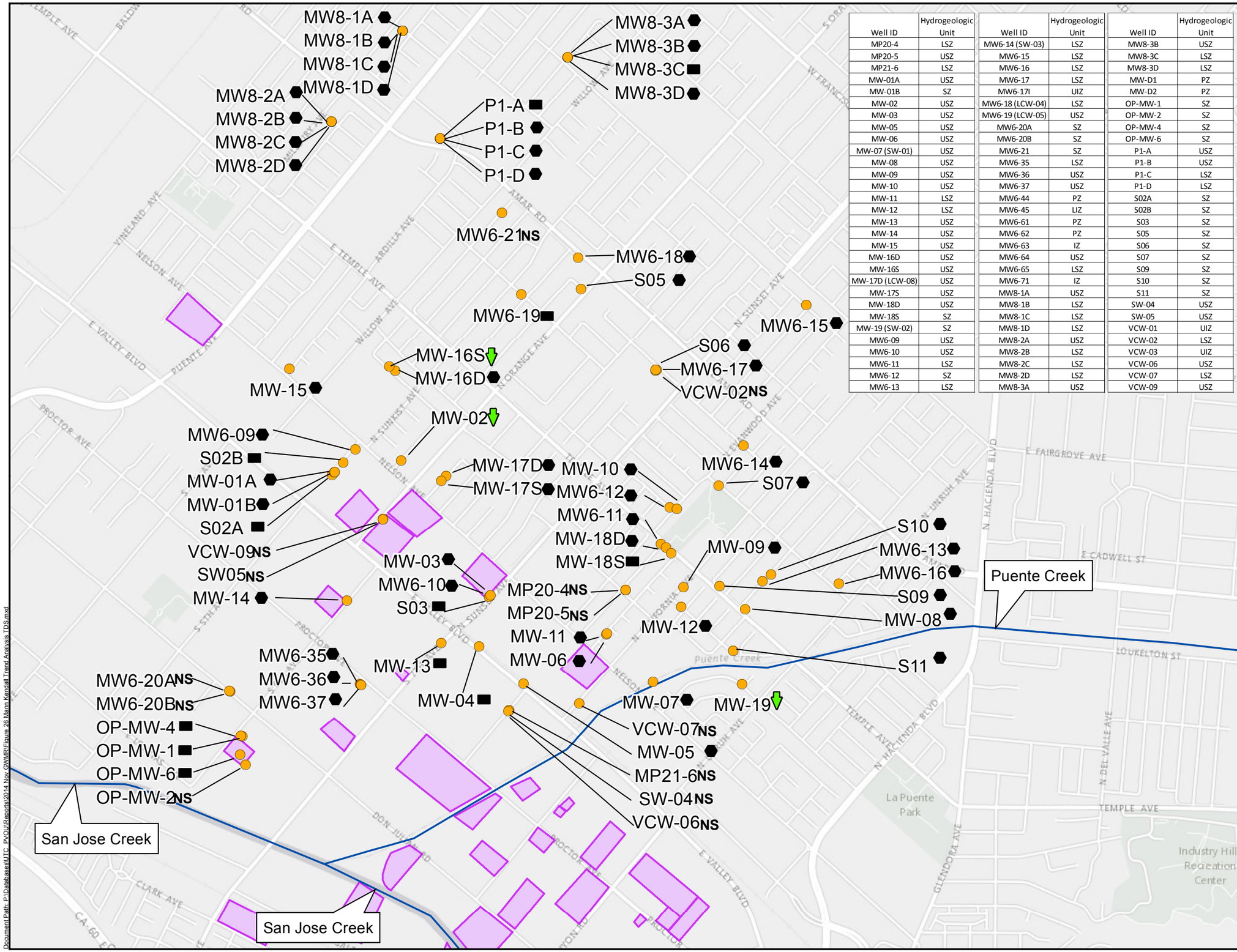
LOCATION: Puente Valley Operable Unit Los Angeles County, California

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 25

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 25 Mann Kendall Trend Analysis Nitrate.mxd



Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit	Well ID	Hydrogeologic Unit
MP20-4	LSZ	MW6-14 (SW-03)	LSZ	MW8-3B	USZ
MP20-5	USZ	MW6-15	LSZ	MW8-3C	LSZ
MP21-6	LSZ	MW6-16	LSZ	MW8-3D	LSZ
MW-01A	USZ	MW6-17	LSZ	MW-D1	PZ
MW-01B	SZ	MW6-17I	UIZ	MW-D2	PZ
MW-02	USZ	MW6-18 (LCW-04)	LSZ	OP-MW-1	SZ
MW-03	USZ	MW6-19 (LCW-05)	USZ	OP-MW-2	SZ
MW-05	USZ	MW6-20A	SZ	OP-MW-4	SZ
MW-06	USZ	MW6-20B	SZ	OP-MW-6	SZ
MW-07 (SW-01)	USZ	MW6-21	SZ	P1-A	USZ
MW-08	USZ	MW6-35	LSZ	P1-B	USZ
MW-09	USZ	MW6-36	USZ	P1-C	LSZ
MW-10	USZ	MW6-37	USZ	P1-D	LSZ
MW-11	LSZ	MW6-44	PZ	S02A	SZ
MW-12	LSZ	MW6-45	LIZ	S02B	SZ
MW-13	USZ	MW6-61	PZ	S03	SZ
MW-14	USZ	MW6-62	PZ	S05	SZ
MW-15	USZ	MW6-63	IZ	S06	SZ
MW-16D	USZ	MW6-64	USZ	S07	SZ
MW-16S	USZ	MW6-65	LSZ	S09	SZ
MW-17D (LCW-08)	USZ	MW6-71	IZ	S10	SZ
MW-17S	USZ	MW8-1A	USZ	S11	SZ
MW-18D	USZ	MW8-1B	LSZ	SW-04	USZ
MW-18S	SZ	MW8-1C	LSZ	SW-05	USZ
MW-19 (SW-02)	SZ	MW8-1D	LSZ	VCW-01	UIZ
MW6-09	USZ	MW8-2A	USZ	VCW-02	LSZ
MW6-10	USZ	MW8-2B	LSZ	VCW-03	UIZ
MW6-11	LSZ	MW8-2C	LSZ	VCW-06	USZ
MW6-12	SZ	MW8-2D	LSZ	VCW-07	LSZ
MW6-13	LSZ	MW8-3A	USZ	VCW-09	USZ

Legend

- Wells monitored and sampled by UTC
- Increasing Trend (Concentrations > PVOU SZ Performance Criteria)
- Increasing Trend (Concentrations < PVOU SZ Performance Criteria)
- Decreasing Trend
- Insuficient number of reported values to provide Mann-Kendall Statistics
- Insufficient evidence to Identify a Significant Trend at the Specified Level of Significance
- Facilities

Definitions

SZ: Shallow Zone
SZN: Shallow Zone North of Puente Creek
PVOU: Puente Valley Operable Unit
UTC: United Technologies Corporation
NS: Not Sampled
USZ: Upper Portion of the Shallow Zone
LSZ: Lower Portion of the Shallow Zone
UIZ: Upper Intermediate Zone
LIZ: Lower Intermediate Zone
PZ: Production Zone

0 650 1,300 2,600 Feet

TITLE: **Mann-Kendall Trend Analysis: Total Dissolved Solids PVOU SZN**

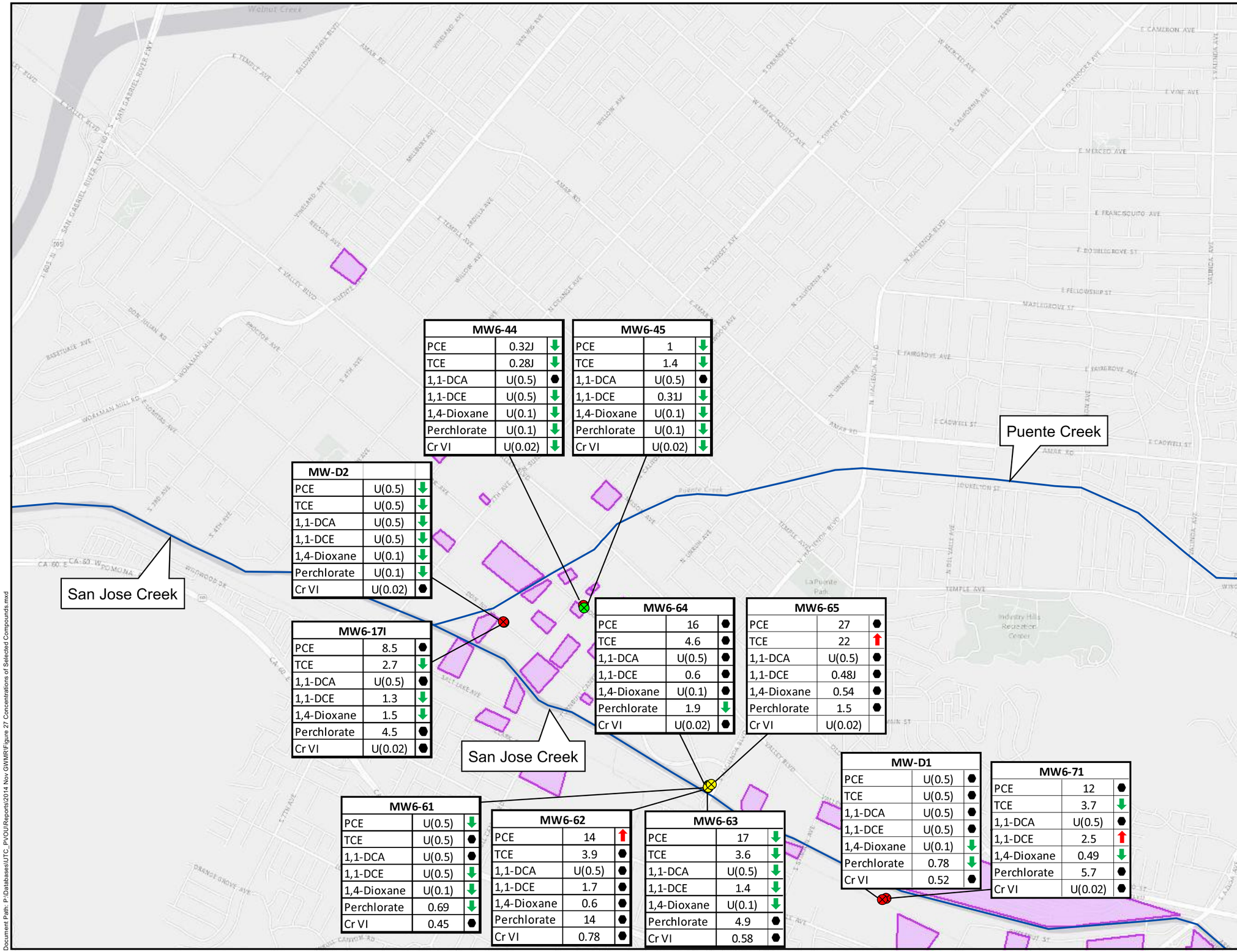
LOCATION: **Puente Valley Operable Unit Los Angeles County, California**

TETRA TECH

APPROVED	SP
DRAFTED	MM
PROJECT#	117-2210080
DATE	11-4-2014

FIGURE 26

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 26 Mann Kendall Trend Analysis TDS.mxd



N

Legend

- Mid-Valley IZ Monitoring Wells
- Mid-Valley PZ Monitoring Wells
- Mid-Valley SZ Monitoring Wells
- PVOU Facilities

Definitions

SZ: Shallow Zone
IZ: Intermediate Zone
PZ: Production Zone

0 1,000 2,000 4,000 Feet

TITLE: Mid-Valley Area Analytical Results and Mann-Kendall Trend Analysis

LOCATION: Puente Valley Operable Unit Los Angeles County, California

TETRA TECH

APPROVED	SP
DRAFTED	DW
PROJECT#	117-2210080
DATE	11-24-2014

FIGURE 27

Document Path: P:\Databases\UTC_PVOU\Reports\2014 Nov GWMR\Figure 27 Concentrations of Selected Compounds.mxd