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29 January 2016
File No. 39751-014

United States Environmental Protection Agency Region 9
75 Hawthorne Street (SFD-7-1)
San Francisco, California 94105

Attention: Ms. Melanie Morash

Subject: Combined 2015 Annual Groundwater Monitoring Report and
Annual In Situ Bioremediation Program Report
Former 901/902 Thompson Place
Sunnyvale, California

Dear Ms. Morash:

Please find enclosed the subject report prepared by Haley & Aldrich, Inc., on behalf of Advanced Micro Devices, Inc. (AMD). This report documents the results of the 2015 annual groundwater monitoring program and the 2015 quarterly performance monitoring of the in situ bioremediation program for the former AMD facility located at 901/902 Thompson Place, in Sunnyvale, California.

Please feel free to call the undersigned if you have question regarding this report.

Sincerely yours,
HALEY & ALDRICH, INC.

Michael Calhoun, PG, CHG
Senior Technical Specialist

Peter Bennett, PG, CHG
Vice President and Lead Hydrogeologist

Enclosures

c: Advanced Micro Devices, Inc.; Attn: Ms. Heather O'Cleirigh
City of Sunnyvale; Attn: Mr. Ron Staricha
Santa Clara Valley Water District; Attn: Mr. George Cook

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COMBINED 2015 ANNUAL GROUNDWATER MONITORING REPORT AND ANNUAL IN SITU BIOREMEDIATION PROGRAM REPORT FORMER 901/902 THOMPSON PLACE SUNNYVALE, CALIFORNIA

by Haley & Aldrich, Inc.
San Jose, California

for Advanced Micro Devices, Inc.
Sunnyvale, California

File No. 39751-014
January 2016

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List of Acronyms and Abbreviations

Acronym	Description
AMD	Advanced Micro Devices, Inc.
bgs	below ground surface
ANS	acid neutralization system
cDCE	cis-1,2-dichloroethene
COCs	chemicals of concern
FFS	focused feasibility study
EPA	United States Environmental Protection Agency
EVO	emulsified vegetable oil
GAC	granular activated carbon
Geomatrix	Geomatrix Consultants, Inc.
Haley & Aldrich	Haley & Aldrich, Inc.
ISB	in situ bioremediation
mg/L	milligrams per liter
NAVD88	North American Vertical Datum of 1988
PCE	tetrachloroethene
QA/QC	quality assurance/quality control
ROD	Record of Decision
Site	Former 901/902 Thompson Place
Summit	Summit Commercial Properties
TCE	trichloroethene
tDCE	trans-1,2-dichloroethene
TOC	total organic carbon
VC	vinyl chloride
VOC	volatile organic compound
Water Board	California Regional Water Quality Control Board, San Francisco Bay Region
µg/L	micrograms per liter

1. INTRODUCTION

This report documents the results of the 2015 annual groundwater monitoring program and the 2015 quarterly performance monitoring of the in situ bioremediation (ISB) program for the former Advanced Micro Devices, Inc. (AMD) facility located at 901/902 Thompson Place, in Sunnyvale, California ([Site]; Figures 1 and 2). The report was prepared for AMD by Haley & Aldrich, Inc. (Haley & Aldrich).

The Site was added to the National Priorities List in June 1986, and a Record of Decision (ROD) was issued by the United States Environmental Protection Agency (EPA) on 11 September 1991 (EPA, 1991). The Site has been regulated under Site Cleanup Requirements Order Number 91-102 issued on 19 June 1991 by the California Regional Water Quality Control Board, San Francisco Bay Region (Water Board, 1991). The Water Board was the lead regulatory oversight agency for the Site pursuant to the South Bay Multi-Site Cooperative Agreement and the South Bay Groundwater Contamination Enforcement Agreement, established on 2 May 1985 by the Water Board, the Department of Health Services, and the EPA. However, in a letter dated 7 August 2014, the lead agency role was transferred from the Water Board to the EPA.

1.1 REPORT ORGANIZATION

This report is organized into four sections as described below:

- Section 1 – Introduction;
- Section 2 – Background: this section includes a Site description and history, and a summary of the Site's hydrogeology and current environmental conditions;
- Section 3 – Annual Groundwater Monitoring: this section describes the methods, results, and conclusions of the 2015 annual groundwater monitoring event; and
- Section 4 – In Situ Bioremediation Summary: this section describes the methods, results, and conclusions of the 2015 quarterly in situ bioremediation performance monitoring program.

2. BACKGROUND

The Site is approximately four miles south of the southern end of San Francisco Bay and comprises approximately three acres of relatively flat land at an average elevation of approximately 48 feet above sea level. Neighboring properties are used for light industrial and commercial purposes.

Two low-rise buildings connected by a hallway previously existed at the Site (formerly 901 and 902 Thompson Place; Figure 2). The property was sold to Summit Commercial Properties (Summit) and redeveloped in 2007. The 901 and 902 buildings were razed and a single 3-story building (875 East Arques Avenue; Figure 2) was constructed over the footprints of the previous buildings.

A network of 21 wells is monitored for groundwater quality on an annual basis. A network of 13 wells in the ISB area is monitored on a quarterly basis to evaluate the performance of the ISB system.

2.1 SITE HISTORY AND CHEMICAL USE

AMD designed and fabricated semiconductor devices at the Site between 1969 and 1992 (Engineering Science, 1992). Two belowground acid neutralization system (ANS) tank vaults were located at the northern and southern ends of the former 901 and 902 Thompson Place buildings, respectively (Arcadis, 2001). Both ANS tanks were constructed of coated concrete, had 2,000-gallon capacities or less (Arcadis, 2001), and were used to contain acidic industrial wastewater neutralized by adding caustics before it was discharged to the sanitary sewer (Parsons ES, 1996).

Chemicals historically used by AMD for semiconductor fabrication at the Site included solvents and corrosives (Engineering Science, 1988). Records of chemical use prior to 1980 are not available; however, it has been inferred by others that trichloroethene (TCE) was used on-Site between 1969 and 1979 (Engineering Science, 1988). The primary on-Site source of TCE impacts to groundwater and soil beneath the Site appears to have been volatile organic compound (VOC) leaks either from cracks in the ANS tanks that developed over time or from VOCs moving through the tanks' concrete walls (Engineering Science, 1988). The two ANS tanks were removed between 1983 and 1984 and replaced by two sets of three underground storage tanks and associated vaulted containment systems (Arcadis, 2001). As of 1980, the majority of the solvent waste generated by Site activities was collected and stored in an aboveground storage tank (Arcadis, 2001). Hazardous waste materials were containerized in 55-gallon drums in a hazardous material storage area.

The facility was vacated by AMD in 1992 and remained vacant until the property was sold to Summit in 2007 and redeveloped as a self-storage facility.

2.2 HYDROGEOLOGIC CONDITIONS

The Site is in the central portion of the Santa Clara Valley within the Coast Range physiographic province, an area characterized by north-south trending valleys and mountains. The Site is located within the San Jose Subarea of the South Bay Groundwater Basin. This area is characterized by a thick alluvial sequence underlain by sediments of the Santa Clara Formation (California Department of Water Resources, 1967). The alluvium is generally considered to be water-bearing, with coarse-grained alluvial deposits representing ancestral stream channels and levee deposits that convey groundwater from the forebay regions south and west of the site near the Santa Cruz Mountains, towards San Francisco Bay

(Helley et al., 1979). This depositional environment has resulted in a high degree of heterogeneity with respect to hydrogeologic conditions beneath the Site.

The Site hydrostratigraphy is described by Engineering Science (1986) as a sequence of coarse-grained sediments separated primarily by silty clay. From shallow to deep, the primary hydrostratigraphic zones are described as follows:

- The A Zone, an approximately 5-foot thick relatively continuous sandy layer typically encountered between 7 and 20 feet below ground surface (bgs);
- The B1 Zone, an approximately 3 foot-thick, discontinuous, lenticular, sand and gravel unit typically encountered between 22 and 40 feet bgs;
- The B2 Zone, an approximately 4-foot-thick discontinuous sequence of sand and gravel lenses typically encountered between 45 and 65 feet bgs; and
- The B3 Zone, a system of two sandy layers approximately 1- and 4-feet thick, respectively, typically encountered between approximately 70 and 80 feet bgs.

The depth intervals designated for each zone are not consistent among many of the early reports on Site hydrogeology; different interpretations of depth intervals for various zones likely occurred because of the complex nature of the alluvial system beneath the Site, in which sand zones comprise elongated, channel-type deposits that can occur at various depths and widths, with a meandering three-dimensional configuration, rather than a series of horizontal, continuous layers. Nonetheless, A-Zone wells are generally screened from 10 to 25 feet bgs; B1-Zone wells are generally screened from 25 to 45 feet bgs; B2-Zone wells are generally screened from 45 to 55 feet bgs; and the one B3-Zone well (35-DDD) is screened from 70 to 80 feet bgs (Engineering Science, 1982).

The depth of the uppermost groundwater surface is typically encountered at approximately 10 feet bgs, and generally occurs under confined conditions. Generally upward vertical hydraulic gradient values were calculated between the three zones in 2015 (see Section 3, below), although downward vertical hydraulic gradient values have been reported at some locations during previous monitoring events (e.g., Geomatrix Consultants, Inc. [Geomatrix], 2007a). The horizontal hydraulic gradient is generally to the north - northeast, towards the Bay. This is consistent with the regional groundwater direction under natural conditions (EPA, 1991).

2.3 CHEMICALS OF CONCERN

As part of a baseline public health evaluation (Clement Associates, 1990), the complete list of chemicals detected in environmental media was evaluated and a subset of those chemicals was selected to represent the chemicals of concern (COCs) at the Site. Ten COCs for groundwater were selected in the ROD (EPA, 1991) for the Site:

- 1,2-dichlorobenzene;
- 1,1-dichloroethane;
- 1,1-dichloroethene;
- cis-1,2-dichloroethene (cDCE);
- trans-1,2-dichloroethene (tDCE);

- Freon 113;
- Tetrachloroethene (PCE);
- 1,1,1-trichloroethane;
- TCE; and
- Vinyl chloride (VC).

Of these, the major COCs reported in groundwater samples above cleanup goals are TCE and cDCE, both of which have been present in most groundwater samples from the A-, B1-, and B2-Zone wells, but rarely in the B3-Zone well, likely because of the upward gradient from the B3 to the B2 Zone. VC is also detected in groundwater samples collected from the ISB treatment area (VC is an interim breakdown product of TCE and cDCE as they degrade to ethene).

2.4 CURRENT REMEDIAL ALTERNATIVE

The ROD specifies groundwater extraction and treatment as the remedial alternative for the Site. The groundwater extraction and treatment system began operating in 1983 and continued through 2002, when it was discontinued with Water Board approval to allow for the ISB pilot test. Based on the success of the pilot test, a full-scale ISB program was initiated in 2005 with Water Board approval. Under this program, extracted groundwater was treated with carbon filtration before adding carbohydrate as a substrate for ISB, followed by re-injection to form a groundwater treatment zone. A detailed description of the ISB operational history and current status is included in Section 4.

In 2011, AMD submitted a Focused Feasibility Study (FFS) to the Water Board and EPA (AMEC, 2011) to evaluate the current potential revised cleanup plans. Based on the FFS, the proposed Site remedy is ISB with monitored natural attenuation and institutional controls. The EPA reviewed the FFS and provided comments to AMD via the Water Board in June 2013. Haley & Aldrich incorporated the comments and submitted a Revised FFS in September 2013 (Haley & Aldrich, 2013). The Revised FFS is currently under review by the EPA.

3. 2015 ANNUAL GROUNDWATER MONITORING

This report documents the methods and results of the 2015 annual groundwater monitoring event, and includes the following:

- A description of Site activities that have occurred since submission of the Combined 2014 Annual Groundwater Monitoring Report and Annual In Situ Bioremediation Program Report (Haley & Aldrich, 2015);
- A Site plan (Figure 2);
- Potentiometric maps of the A, B1, and B2 Zones for water levels measured on 12 October 2015 (Figures 3, 4, and 5);
- Isoconcentration contour maps for TCE and cDCE, the primary COCs in groundwater samples from the A-, B1-, and B2-Zones (Figures 6 through 11);
- Water level measurements and analytical results for Site monitoring wells sampled during the 2015 annual groundwater monitoring event are summarized in Tables 1 and 2;
- Field sampling data sheets and a photo log of the sampling procedures are included in Appendix A;
- Historical groundwater elevation data are included in Appendix B;
- Historical TCE, cDCE, and total VOC concentrations for Site monitoring wells are summarized in tabular format in Appendix C;
- Laboratory analytical reports are included in Appendix D;
- A summary of quality assurance/quality control (QA/QC) data is included in Appendix E; and
- Concentration trend plots for the A-, B1-, and B2-Zone Site monitoring wells included in the annual groundwater monitoring program are shown in Appendix F.

3.1 SITE WORK IN 2015

The following occurred at the Site in 2015:

- Quarterly performance monitoring of the ISB program (described in Section 4); and
- Annual groundwater sampling of Site monitoring wells.

3.2 MONITORING PROGRAM

Site monitoring activities for the 2015 annual sampling event were completed in accordance with the more recently revised monitoring program approved by the Water Board on 27 December 2007 (Geomatrix, 2008).

3.3 2015 ANNUAL MONITORING EVENT PROCEDURES

The 2015 annual monitoring event was conducted on behalf of AMD by Blaine Tech Services, Inc., of San Jose, California. Water levels were measured on 12 October 2015, and groundwater samples were collected from 17 Site monitoring wells on 13 and 14 October 2015. Four wells (16-S, 16-D, 23-S, and 23-D) included in both the annual groundwater monitoring event and the quarterly ISB performance monitoring event were sampled on 12 and 13 October 2015.

The 17 Site monitoring wells were purged prior to sample collection using a portable submersible pump or a Teflon bailer until water quality parameters (temperature, pH, and specific conductance) stabilized and a minimum of three casing volumes were removed. In cases where the well dewatered during purging, the well was allowed to recharge prior to sampling. Samples were then collected with Teflon bailers. The four wells included in both the annual groundwater monitoring event and the quarterly ISB performance monitoring event were purged with a peristaltic pump and new, disposable tubing using low-flow methods; after water quality parameters stabilized, samples were collected from the pump effluent. All samples were collected in 40-mililiter volatile organic analysis vials preserved with hydrochloric acid, labeled, sealed in plastic bags, and placed in an ice-cooled chest pending shipment to the analytical laboratory under standard chain of custody procedures. QA/QC samples, including blind field duplicates, equipment blanks and trip blanks, were collected in addition to the groundwater samples. All reused, downhole equipment (e.g., pump and bailer) were decontaminated between each well using a steam cleaner. Purge water was discharged into the groundwater treatment system operating at the AMD 915 DeGuigne Drive site. Field sampling data sheets and a photo log documenting the sampling procedures are included in Appendix A.

Samples were analyzed for chlorinated VOCs consistent with EPA Method 8260B by Curtis & Tompkins, Ltd. of Berkeley, California, a California- and NELAP-certified laboratory.

3.4 GROUNDWATER ELEVATION DATA

Water levels measured on 12 October 2015 are summarized in Table 1; historical groundwater elevation data are included in Appendix B. Interpretations of the potentiometric surfaces for the A, B1, and B2 Zones are shown in Figures 3, 4, and 5, respectively. Groundwater elevations for Site monitoring wells were calculated as the measured water level depths subtracted from the surveyed top of well casing elevations. Calculated groundwater elevations for water levels measured in October 2015 ranged from 34.29 to 40.43 feet relative to the North American Vertical Datum of 1988 (NAVD88) in A-Zone wells, from 34.15 to 41.38 feet NAVD88 in B1-Zone wells, from 34.57 to 39.98 feet NAVD88 in B2-Zone wells, and 37.99 feet NAVD88 in B3-Zone well 35-DDD. Water levels measured in October 2015 were lower than those measured in October 2014 (ranging between 0.57 foot lower and 2.60 feet lower), likely due to the ongoing drought conditions experienced in 2015.

As illustrated in Figures 3 through 5, the approximate direction of the horizontal hydraulic gradient is generally north to northeast except where locally influenced by groundwater extraction wells at the Philips and 915 DeGuigne sites. At locations where water levels were measured for well pairs representing multiple depth intervals (i.e., 16-S/16-D, 23-S/23-D, 27-S/27-D, 28-S/28-D, 36-S/36-D, 27-D/27-DD, and 36-D/36-DD), the direction of calculated vertical hydraulic gradients is generally upwards, although downward gradients were observed between the A and B1 Zones at two locations (16-S/16-D and 36-S/36-D).

3.5 ANALYTICAL RESULTS

Laboratory analytical results for groundwater samples collected in October 2015 are summarized in Table 2; historical analytical results for TCE, cDCE, and total VOCs are included in Appendix C. The laboratory analytical reports are included in Appendix D.

Of the COCs listed in the ROD, only PCE, TCE, cDCE, tDCE, and VC were detected above their respective cleanup goals[1] during the 2015 annual groundwater monitoring event (Table 2). The distribution of these compounds is described in the sections below

3.5.1 Concentrations in the ISB Treatment Area

There are nine monitoring wells in the ISB treatment area included in the annual groundwater monitoring program: 16-S, 16-D, 22-S, 22-DD, 23-S, 23-D, 28-S, 28-D, and 35-DDD. Nine additional ISB performance monitoring wells are also sampled on a quarterly basis; the results are described in greater detail in Section 4 and summarized in Table 3. The ISB well results are included in this discussion for completeness.

- PCE was not detected above its cleanup goal in any sample collected from the ISB treatment area.
- In the A Zone, TCE concentrations reported in 2015 groundwater samples ranged from non-detect (<0.5 micrograms per liter [µg/L] in several wells) to 45 µg/L (22-S); cDCE concentrations ranged from 0.8 µg/L (DW-2) to 91 µg/L (23-S); and VC ranged from non-detect (<0.5 µg/L in well DW-2) to 520 µg/L (X2A).
- The concentrations detected in the B1 Zone are generally higher than in the A Zone. In the B1 Zone, TCE concentrations ranged from non-detect (<0.5 µg/L in several wells) to 260 µg/L (23-D); cDCE ranged from 1.0 µg/L (X2B1) to 840 µg/L (PMW-2-1); and VC ranged from non-detect (<0.5 µg/L in X2B1) to 1,500 µg/L (PMW-2-1).
- In the B2 Zone, TCE concentrations ranged from 170 µg/L (22-DD) to 240 µg/L (PMW-2-3); cDCE ranged from 10 µg/L (22-DD) to 120 µg/L (PMW-2-3); and VC ranged from non-detect (<1.3 µg/L in 22-DD) to 32 µg/L (PMW-2-3).
- For the B3-Zone well 35-DDD, VOCs were not detected above the laboratory reporting limit (<0.5 µg/L for most VOCs).

These VOC concentrations represent or are near historical low concentrations, consistent with a decreasing trend in concentrations observed since 2005.

The higher concentrations of breakdown products (cDCE and VC) relative to TCE in the ISB treatment area are indicative of ongoing ISB processes, as described in Section 4. Total organic carbon (TOC) concentrations are relatively low (less than 10 milligrams per liter [mg/L]), suggesting that additional substrate amendment may be required to further reduce cDCE and VC to ethene.

[1] The cleanup goal is the lower of the federal or California Maximum Contaminant Levels.

3.5.2 Concentrations in the Area Upgradient of the ISB Treatment Area

There are eight on-Site monitoring wells upgradient of the ISB treatment area that monitor groundwater quality entering the Site from upgradient: 15-S, 27-S, 27-D, 27-DD, 29-S, 29-D, 52-D, and 53-D. In groundwater samples collected during the 2015 annual groundwater monitoring event, TCE concentrations ranged from 0.9 to 100 µg/L in the A Zone; 5.0 to 95 µg/L in the B1 Zone; and 30 µg/L in the B2 Zone. The cDCE concentrations ranged from non-detect (<0.5 µg/L) to 220 µg/L in the A Zone; non-detect (<0.5 µg/L) to 1.9 µg/L in the B1 Zone; and 7.2 µg/L in the B2 Zone. VC was detected in two upgradient monitoring wells (A-Zone wells 29-S and 27-S, at concentrations of 0.7 µg/L and 3.6 µg/L, respectively). With the exception of one well (27-S), the TCE concentrations in the samples collected from the upgradient wells were generally greater than cDCE; the cDCE concentrations remained low (close to or below the cleanup goal of 6 µg/L) in most of the upgradient wells. It is noted that the TCE and cDCE concentrations observed at the well cluster of 27-S, 27-D, and 27-DD were significantly higher than those at other upgradient wells. These wells are likely affected by off-Site upgradient non-AMD sources (Haley & Aldrich, 2013).

3.5.3 Concentrations in Downgradient, Off-Site Monitoring Wells

For downgradient, off-Site monitoring wells (36-S, 36-D, 36-DD, and 37-S), TCE was detected at 49 and 71 µg/L in A-Zone wells 37-S and 36-S, respectively; cDCE was detected at 3.8 and 9.0 µg/L in A-Zone wells 37-S and 36-S, respectively. For B1-Zone well 36-D, TCE and cDCE were detected at 40 and 12 µg/L, respectively. For B2-Zone well 36-DD, TCE was not detected (<0.5 µg/L), and cDCE was detected at 5.7 µg/L. VC was not detected in the A or B1 Zones; VC was detected in B2-Zone well 36-DD, but at a concentration below 2 µg/L.

3.6 QUALITY ASSURANCE/QUALITY CONTROL

Laboratory analytical data were reviewed in accordance with the "National Functional Guidelines for Superfund Organic Methods Data Review" (EPA, 2008). Appendix E summarizes QA/QC data.

Overall, the results of the laboratory quality control sample analyses indicate that the test results in this report are of sufficient quality to support the conclusions presented, and the results are considered to be valid and usable.

3.7 SUMMARY AND CONCLUSIONS

Isoconcentration contours for TCE and cDCE within the A, B1, and B2 Zones, as inferred from the 2015 analytical results, are presented in Figures 6 through 8, and Figures 9 through 11, respectively. These figures also incorporate data from the Philips Semiconductor, TRW Microwave, Mohawk Laboratories, and The Companies Off-Site Operable Unit wells in the Site's vicinity, as well as analytical data from wells sampled as part of the ISB program. The analytical results from the adjacent sites were provided by Locus Technologies (consultant for Philips Semiconductor), AECOM (consultant for TRW Microwave), and The Source Group (consultant for Mohawk Laboratories); data tables are provided in their respective site monitoring reports.

As shown in Figures 6 through 8, higher TCE and cDCE concentrations were found in groundwater samples from monitoring wells along the western side of the Site and west of the Site, indicating an off-Site upgradient source impacting groundwater beneath the western portion of the Site. COCs detections

at upgradient wells 15-S, 29-S, 29-D, and 53-D also indicate upgradient, off-Site COC impacts, since these wells are not located downgradient of former AMD sources. TCE concentrations below 5 µg/L were observed in groundwater samples from the on-Site A- and B1-Zone monitoring wells in the vicinity of the former 901 source area where ISB has been implemented.

Concentration trends for A-, B1-, and B2-Zone monitoring wells are included in Appendix F. Primary COC concentrations detected in groundwater samples from most A-, B1-, and B2-Zone monitoring wells during the 2015 monitoring event were generally stable. The concentrations detected in 2015 were generally consistent with a long-term decreasing trend, which accelerated with the start of the full-scale ISB program (AMEC, 2008). Conclusions are summarized below:

- Primary COC concentrations have generally remained stable for samples collected from a majority of wells located on-Site. However, COC concentrations in samples collected in 2015 from many wells were low when compared to concentrations detected prior to the start of ISB treatment, indicating the successful application of the alternative groundwater cleanup strategy towards expediting groundwater cleanup, as discussed in Section 4.
- Groundwater beneath the Site is impacted by off-Site sources at levels above COC cleanup goals (i.e., Maximum Contaminant Levels). As a result, it may not be feasible to meet cleanup goals at the end of active remediation.

4. 2015 IN SITU BIOREMEDIATION REPORT

This section documents the monitoring results of the ISB system for 2015. The ISB system was designed to treat COC-affected groundwater, beneath the Site. The work completed and described in this report follows the scope outlined in the" Full Scale In Situ Bioremediation Work Plan" (Geomatrix, 2005), approved by the Water Board on 11 April 2005. The ISB system installation and startup was documented in the "In Situ Bioremediation Program Implementation Report" (Geomatrix, 2006). The ISB system was started in December 2005 and operated until 2 May 2008, when it was determined that an excess of organic carbon was successfully delivered to the subsurface to sustain the passive bioremediation of COCs.

The performance monitoring program results indicate that the in situ biological reduction of TCE, cDCE, and VC is occurring. Since the inception of the ISB program, laboratory results for groundwater samples indicate that TCE, cDCE, and VC concentrations have greatly decreased at most performance monitoring locations (by greater than 90 percent at some locations), but have increased recently in some locations because the organic carbon in the subsurface treatment zone has been depleted, therefore indicating a need for additional substrate.

4.1 OVERVIEW OF THE ISB SYSTEM

Background information for the ISB program was previously described in the "In Situ Bioremediation Program Implementation Report" (Geomatrix, 2006), including the program history and implementation, hydrogeologic conditions, and chemical distribution at the Site. The focus of the ISB program in 2015 was to continue performance monitoring of the ISB system on a quarterly basis.

4.1.1 General Description of the ISB System

The ISB system was designed to increase the organic carbon content of the groundwater system, thereby enhancing the anaerobic microbiological activity and promoting the in situ biotransformation of COCs to environmentally benign end-products. The primary components of the ISB system include:

- **Ex situ COC Removal:** Groundwater pumped from the extraction well(s) in the former source area is treated with two granular activated carbon (GAC) vessels in series to remove VOCs prior to reinjection into the subsurface.
- **Substrate Delivery System:** Substrate delivery is performed by adding the substrate directly to the well, then flushing with the reinjection groundwater.
- **In situ Destruction of COCs:** In situ treatment processes are promoted by adding substrate to the extracted groundwater using the delivery system described above. The addition of substrate to groundwater containing TCE and cDCE has proven to be an effective in situ remedial strategy at this Site as demonstrated in the pilot test conducted from 2002 to 2004 (Geomatrix, 2004) and the full-scale ISB system.

The layout of the ISB system is presented on Figure 12. The construction details of the ISB program wells are summarized in Table 4.

4.1.2 Summary of Monitoring Performed in 2015

Quarterly monitoring of wells in the ISB treatment area (Figure 12) was conducted in February, May, August, and October 2015 to assess groundwater conditions, as described in Table 5.

4.1.3 Summary of ISB System Operation

A summary of historical ISB operations since 2008 is included in Table 6. Approximately 770,600 gallons of groundwater have been extracted (approximately 249,500 gallons from A-Zone wells and approximately 521,200 gallons from B-Zone wells), treated with GAC, amended with substrate, and reinjected. Approximately 1,233 gallons of substrate have been added to the treatment zone groundwater since 2008: approximately 387 gallons of substrate into the A-Zone and 846 gallons into the B-Zone. Approximately 13 pounds of COCs were extracted since ISB activities began in December 2005, as shown in Table 7. The historical average efficiency of the ex-situ treatment system was calculated at approximately 8.1 pounds of COCs removed per million gallons of groundwater extracted.

As described in the previous quarterly ISB Progress Update (Haley & Aldrich, 2015b), Haley & Aldrich intended to operate the ISB system in the fourth quarter of 2015 using emulsified vegetable oil (EVO), which is a longer-lasting substrate than the lactate used in previous years. In the fourth quarter of 2015, Haley & Aldrich procured the necessary materials (such as the EVO and mixing tanks) and tested the groundwater delivery system. The results of the test indicated that combined flow rates in the A- and B1-Zones up to approximately 2 and 4 gallons per minute, respectively, were feasible; however, a different type of pump would be required to sustain these flow rates. The new equipment has been purchased and active groundwater recirculation and substrate amendment will begin following delivery of the equipment, anticipated to be in the 1st quarter of 2016. A description of the system operation will be included in the next quarterly ISB Progress Update (for the 1st quarter of 2016).

4.2 PERFORMANCE MONITORING

Quarterly performance monitoring to assess the effects of active ISB remediation was conducted in February, May, August, and October 2015 to assess the passive, intrinsic remediation in and downgradient of the former source area (Figure 12). The field procedures for the monitoring events conducted in 2015 were consistent with those documented in the “In Situ Bioremediation Program, Quarterly Report, September through December 2006” (Geomatrix, 2007b).

4.2.1 Water Levels

Water levels were measured in 17 wells within the ISB area during 2015 (Table 8). Groundwater elevations in A- and B-Zone monitoring wells ranged from 36.06 to 39.74 feet NAVD88, corresponding to depths of 7.09 to 11.24 feet below the top of casing. Groundwater elevations are included in Figures 3 through 5.

4.2.2 Groundwater Sampling Results

Thirteen performance monitoring wells (five A-Zone and eight B-Zone wells) were sampled during quarterly monitoring events in 2015 as described in Table 5. Water quality parameters recorded during purging and sampling are included in Table 9. Current and historical performance monitoring results are

summarized in Table 3; laboratory analytical reports for the October 2015 performance monitoring event are included in Appendix D.

Chemical analytical results of groundwater samples from performance monitoring wells are interpreted based on quantification of COC breakdown products and concentration trend analysis for COCs, dissolved gases, and TOC. COC concentration trends for ISB wells are summarized graphically in Figures 13A and 13B. Table 10 summarizes the interpretation of performance monitoring results.

4.2.2.1 *Quality Assurance and Quality Control*

Laboratory analytical data were reviewed in accordance with the "National Functional Guidelines for Superfund Organic Methods Data Review" (EPA, 2008) and the "National Functional Guidelines for Inorganic Superfund Data Review" (EPA, 2010). Appendix E summarizes QA/QC data.

Overall, the results of the laboratory quality control sample analyses indicate that the test results in this report are of sufficient quality to support the conclusions presented, and the results are considered to be valid and usable.

4.2.2.2 *Interpretation of Performance Monitoring Results*

The results of the fourth quarterly performance monitoring event in 2015 indicate the following:

- As shown in Table 9, the groundwater pH ranged from 6.34 to 7.22, which is within the near-neutral pH range favorable for reductive dechlorination of TCE, cDCE, and VC.
- As shown in Table 3, 10 of the 13 performance monitoring wells (16-S, 16-D, 28-MW, DW-1, DW-2, DW-7, PMW-2-1, X2A, X1B, and X2B1) were either non-detect for TCE, or reported concentrations below the cleanup goal of 5 µg/L. Seven of the 13 wells (16-S, 23-D, DW-1, DW-2, DW-7, X2A, and X2B1) were either non-detect for cDCE, or reported a concentration at or below the cleanup goal of 6 µg/L.
- As shown in Figure 14, cumulative TCE, cDCE, and VC concentrations (expressed in micromoles per liter) in August 2015 samples are generally 50 percent or less than the maximum concentrations reported at each well since ISB started in December 2005 (blue-dashed line), and less than 10 percent for six wells (red-dashed line).
- As shown in Figures 13A and 13B, an increase in the relative proportion of ethene generally coincides with higher TOC levels, indicating that the periodic addition of organic carbon is sustaining the ongoing degradation of COCs and native microbes are capable of complete dechlorination (i.e., no bioaugmentation is needed).
- Of the seven samples plotting above the red-dashed line in Figure 2 (meaning more than 10 percent rebound), five of the seven samples had TOC concentrations less than 5 mg/L. This suggests that additional organic substrate delivery is warranted.

As shown in Table 3 and Figures 13A and 13B, COC concentrations for groundwater samples collected from wells monitored in 2015 generally continue to be lower than concentrations before the ISB program began, and continue to show a stable to decreasing trend in COC concentrations. In fact, three of the 13 performance monitoring wells (DW-7, PMW-2-1, and X2B1) recorded historical low COC concentrations in 2015. Many wells show increases in the breakdown products cDCE and VC relative to

TCE (Figure 13A and 13B) and/or elevated ethene concentrations, indicating that ISB processes are continuing. TOC concentrations are relatively low (less than 10 mg/L), suggesting that additional substrate amendment may be required to further reduce cDCE and VC to ethene (additional substrate amendment is scheduled for the first quarter of 2016).

The results of quarterly groundwater monitoring conducted in 2015 are similar to 2014 and support the conclusion that a low organic carbon concentration is limiting the dechlorination rate of target COCs in some areas. Future quarterly ISB monitoring and treatment system sampling events will be used to evaluate the effectiveness of continuing active ISB during 2016.

4.3 CONCLUSIONS

Haley & Aldrich derives the following conclusions from the results of the monitoring program performed during 2015.

- Cumulative TCE, cDCE, and VC concentrations have greatly decreased at most monitoring locations (and by more than 90 percent at some locations). Complete transformation of TCE, cDCE, and VC to ethene is occurring throughout the A-Zone and in most B1-Zone wells.
- In general, concentration trends indicate that COCs continue to decrease, and the sampling revealed historical low concentrations in three wells in 2015. The plan to expedite groundwater cleanup through full-scale ISB appears to have been successful so far.
- Monitoring results show that the passive, intrinsic dechlorination processes continue to occur but may be limited in some areas due to a depletion of substrate (determined by TOC concentrations) in the subsurface. Additional substrate amendment is scheduled for the first quarter of 2016.

4.4 ACTIONS PROPOSED FOR 2016

Based on the conclusions above, Haley & Aldrich recommends continued monitoring and operation of the ISB program in 2016 as follows:

- Continue groundwater circulation and substrate amendment as needed; and
- Continue quarterly groundwater monitoring as outlined in the ISB program summary in Table 5.

Quarterly progress updates, including the results of the performance monitoring, will be submitted to the EPA; the next quarterly progress update will be submitted to the EPA by 30 April 2016.

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TABLES

TABLE 1
GROUNDWATER ELEVATIONS, 12 OCTOBER 2015 [1]
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Well ID	Aquifer Zone Screened	Top of Casing Elevation (feet NAVD88)[2]	Depth to Groundwater (feet btoc)[3]	Groundwater Elevation (feet NAVD88)[2]
15-S	A	50.82	10.39	40.43
16-S		47.70	11.24	36.46
22-S		46.37	9.72	36.65
23-S		47.03	10.29	36.74
27-S		50.71	11.91	38.80
28-S		47.88	11.23	36.65
29-S		50.10	10.99	39.11
36-S		41.46	7.17	34.29
37-S		42.06	7.72	34.34
16-D	B1	47.49	11.08	36.41
23-D		47.04	9.66	37.38
27-D		50.59	11.41	39.18
28-D		47.74	10.99	36.75
29-D		50.17	11.00	39.17
36-D		41.26	7.11	34.15
52-D		48.31	10.98	37.33
53-D		50.94	9.56	41.38
22-DD	B2	46.45	9.03	37.42
27-DD		50.72	10.74	39.98
36-DD		41.58	7.01	34.57
35-DDD	B3	46.47	8.48	37.99

Notes:
1. Water levels were measured by Blaine Tech Services, Inc., of San Jose, California.

Abbreviations:
1. Feet NAVD88 = elevation (in feet) relative to the North American Vertical Datum of 1988.
2. feet btoc = feet below top of casing

TABLE 2

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES, OCTOBER 2015 [1,2]

FORMER 901/902 THOMPSON PLACE

SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L)

Well ID	Aquifer Zone	Sampling Date	PCE	TCE	cDCE	tDCE	VC	1,1-DCE	1,1-DCA	1,1,1-TCA	Freon 113	1,2-DCB
15-S	A	10/13/2015	<0.5 [3]	**0.9**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
16-S		10/12/2015	<0.5	<0.5	**1.8**	<0.5	**9.2**	<0.5	<0.5	<0.5	<2.0	**7.8**
22-S		10/14/2015	**2.1**	**45**	**24**	**9.8**	**5.9**	<0.5	<0.5	<0.5	<2.0	**29**
23-S		10/12/2015	**0.8**	**20**	**91**	**12**	**48**	**0.9**	<0.5	<0.5	<2.0	**20**
27-S		10/14/2015	**7.1**	**99**	**220**	**8.5**	**3.6**	**3.5**	<1.7	<1.7	<6.7	<1.7
27-S (Dup)		10/14/2015	**8.3**	**100**	**220**	**8.9**	**3.6**	**2.8**	<1.3	<1.3	<5.0	<1.3
28-S		10/14/2015	<0.5	<0.5	**6.1**	**0.8**	**66**	<0.5	**0.6**	<0.5	<2.0	**13**
29-S		10/13/2015	**0.9**	**54**	**6.1**	**0.7**	**0.7**	<0.5	**0.7**	**0.5**	<2.0	<0.5
36-S		10/14/2015	**2.8**	**71**	**9.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
37-S		10/14/2015	**0.9**	**49**	**3.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
16-D	B1	10/13/2015	<1.7	<1.7	**15**	**3.9**	**250**	<1.7	<1.7	<1.7	<6.7	**1.8**
23-D		10/13/2015	<1.7	**260**	**6.0**	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7
27-D		10/13/2015	**5.3**	**80**	**1.5**	<0.7	<0.7	<0.7	<0.7	<0.7	<2.9	<0.7
27-D (Dup)		10/13/2015	**5.6**	**95**	**1.9**	<0.5	<0.5	**0.7**	<0.5	<0.5	<2.0	<0.5
28-D		10/14/2015	<0.5	**0.5**	**100**	**3.0**	**27**	<0.5	<0.5	<0.5	<2.0	**5.1**
29-D		10/13/2015	**3.1**	**56**	**1.2**	<0.5	<0.5	**0.6**	<0.5	**0.8**	<2.0	<0.5
36-D		10/14/2015	**1.6**	**40**	**12**	**0.6**	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
52-D		10/14/2015	<0.5	**34**	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
53-D		10/13/2015	<0.5	**5.0**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
22-DD	B2	10/14/2015	<1.3	**170**	**10**	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3
27-DD		10/14/2015	**1.3**	**30**	**7.2**	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
36-DD		10/14/2015	<0.5	<0.5	**5.7**	**1.1**	**1.7**	<0.5	<0.5	<0.5	<2.0	<0.5
35-DDD	B3	10/13/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5
Cleanup Goal [6]			**5.0**	**5.0**	**6.0**	**10**	**0.5**	**6.0**	**5.0**	**200**	**1,200**	**600**

TABLE 2

ANALYTICAL RESULTS FOR GROUNDWATER SAMPLES, OCTOBER 2015 [1,2]

FORMER 901/902 THOMPSON PLACE

SUNNYVALE, CALIFORNIA

Notes:

1. Groundwater samples were collected by Blaine Tech Services, Inc., of San Jose, California, and analyzed by Curtis & Tompkins, Ltd., of Berkeley, California, for the EPA Method 8010 list with Freon 113 in accordance with EPA Method 8260B.
2. Only compounds listed in the Record of Decision are included in this table; for a full list of analytes and detected compounds, see laboratory analytical reports.
3. "<" indicates constituent not detected above the laboratory reporting limit shown.
4. Results in **bold** indicate the constituent was detected in the sample above the laboratory reporting limit.
5. "J" indicates that the analyte was positively identified in the sample; the associated numerical value is the approximate concentration of the analyte in the sample.
6. Cleanup Goal is the lower of the Federal or California Maximum Contaminant Levels (MCLs).

Abbreviations:

1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1-dichloroethane
1,1-DCE = 1,1-dichloroethene
1,2-DCB = 1,2-dichlorobenzene
cDCE = cis-1,2-dichloroethene
Dup = duplicate sample
Freon 113 = 1,1,2-trichloro-1,2,2-trifluoromethane
PCE = tetrachloroethene
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
VC = vinyl chloride

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
23-S [3]	12/6/2005	<0.5	37	84	14	1.9	31	0.5	<0.5	11	<0.5	1.0	<0.5	<0.5	<1	--	--	--	--
	2/14/2006	<1.0	38	140	15	2.2	11	<1.0	<1.0	6.4	<1.0	<1.0	<1.0	<1.0	<2.0	--	--	--	--
	5/2/2006	<1.0	18	210	15	1.9	15	<1.0	<1.0	11	<1.0	<1.0	<1.0	<1	<2	--	--	--	--
	8/2/2006	<0.5	14	49	18	0.7	10	<0.5	12	6.9	<0.5	0.7	<0.5	<0.5	<1	--	--	--	--
	11/7/2006 [4]	<0.5	29 J [5]	67	25	1.7	14	0.5	16	12	<0.5	0.8	<0.5 UJ [6]	<0.5	3	--	--	--	--
	5/31/2007	<0.5	41	71	8.7	2.2	15	<0.5	1.7	5.6	<0.5	<0.5	<0.5	<0.5	<1	1.500	<0.025	58.000	2.6
	8/21/2007	<0.5	50	88	16	2.2	40	0.6	3.9	11	<0.5	0.5	<0.5	<0.5	<1.0	4.000	0.52	59.000	2.8
	10/22/2007	<0.5	52	60	6.0	1.8	25	<0.5	<0.5	5.9	<0.5	<0.5	<0.5	<0.5	<1.0	3.2	<0.025	980	4.4
	2/5/2008	0.7	34	43	5.0	1.1	14	<0.5	0.6	4.4	<0.5	<0.5	<0.5	<0.5	1.6	1.90	0.028	1700	5.1
	5/2/2008	<0.5	22	180	37	3.0	100	0.6	4.0	8.8	<0.5	0.5	<0.5	<0.5	2.8	42.000	0.120	2300.000	20
	7/18/2008	<0.5	38	71	15	2.0	22	<0.5	0.7	5.9	<0.5	<0.5	<0.5	<0.5	2.4	1.800	<0.025	500.000	4.9
	10/7/2008	<0.5	29	130	17	1.5	23	<0.5	2.1	20	<0.5	0.9	<2.0	<0.5	3.2	0.990	0.070	1900.000	4.3
	2/10/2009	<0.5	18	89	6.1	1.3	6.9	<0.5	1.0	12	<0.5	0.5	<2.0	<0.5	<1.0	0.250	<0.025	190.000	3.5
	5/27/2009	<1.0	9.3	130	8.3	1.5	7.9	<1.0	<1.0	14	<1.0	<1.0	<4.0	<1.0	<2.0	0.260	0.036	270.000	2.4
	7/13/2009	<1.0	7.9	150	9.4	1.6	13	<1.0	<1.0	22	<1.0	<1.0	<4.0	<1.0	<2.0	0.300	0.029	420.000	2.6
	10/16/2009	<1.0	17	200	12.0	2.0	11	<1.0	1.1	23	<1.0	1.0	<4.0	<1.0	<2.0	0.590	0.052	410.000	3
	2/19/2010	<0.5	14	77	4.6	0.8	2.8	<0.5	<0.5	8	<0.5	<0.5	<2.0	<0.5	<1.0	0.038	<0.025	70.000	6.3
	4/23/2010	<0.5	16	76	4.4	0.8	1.8	<0.5	<0.5	6.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.051	<0.025	36.000	7.4
	7/7/2010	<1.3	32	130	7.3	<1.3	9.5	<1.3	<1.3	14	<1.3	<1.3	<5.0	<1.3	<2.5	0.180	<0.025	93.000	2.3
	10/21/2010	<1.3	9.5	350	19	<1.3	160	<1.3	1.6	18	<1.3	<1.3	<5.0	<1.3	<2.5	5.400	0.036	370.000	2.7
	2/1/2011	0.7	18	77	5.1	0.6	3.7	<0.5	<0.5	7.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.070	<0.025	6.300	7.1
	4/14/2011	0.9	20	63	4.8	0.7	1.2	<0.5	<0.5	5.6	<0.5	<0.5	<2.0	<0.5	<1.0	<0.025	<0.025	3.400	6.2
	7/22/2011	<0.7	26	110	7.8	0.8	3.4	<0.7	<0.7	16	<0.7	<0.7	<2.9	<0.7	<1.4	0.120	<0.025	29	2.7
	10/26/2011	<1.0	19	270	20.0	1.0	100	<1.0	1.0	18	<1.0	<1.0	<4.0	<1.0	<2.0	1.4	0.11	130	2.5
	2/8/2012	0.7	40	86	5.1	0.9	<0.50	<0.50	<0.50	9.4	<0.50	0.50	<2.0	<0.50	<1.0	0.031	0.0065 J	4.1	2.5
	4/19/2012	1.1	17	51	5.6	0.8	6.2	<0.50	<0.50	7.5	<0.50	<0.50	<2.0	<0.50	<1.0	0.10	0.0059 J	4.4	5.5
	7/23/2012	0.7	24	80	7.0	0.6	6.8	<0.50	<0.50	9.7	<0.50	0.60	<2.0	<0.50	<1.0	0.11	0.0074 J	5.9	2.1
	10/10/2012	0.9 J	30 J	120 J	7.6 J	<1.0	15 J	<0.50	0.5 J	20 J	<0.50	0.80 J	<2.0	<0.50	<1.0	0.17	0.15	25	1.9
	3/12/2013	1.0	31	46	4.5	0.5	5.7	<0.5	<0.5	9.1	<0.5	<0.5	<1.0	<0.5	<1.0	0.052	0.20	410	4.1
	6/4/2013	0.8	34	64	3.2	0.6	0.9	<0.5	<0.5	11	<0.5	0.5	<2.0	<0.5	<1.0	0.011 J	0.11	63	2.5
	8/29/2013	1.1	38	120	12	1.3	6.1	<0.5	<0.5	17	<0.5	0.7	<2.0	<0.5	<1.0	0.12	0.68	310	2.5
	10/17/2013	1.0	37	130	13	1.5	12	<0.5	<0.5	20	<0.5	0.8	<2.0	<0.5	<1.0	0.14	0.62	270	2.4
	3/4/2014	1.1	36	97	8.7	1.3	3.0	<1.0	<1.0	14	<1.0	<1.0	<4.0	<1.0	<2.0	0.024 J	0.13	30	2.6
	5/27/2014	0.9	29	93	6.5	0.8	0.7	<0.5	<0.5	9.8	<0.5	0.6	<2.0	<0.5	<1.0	0.0083 J	0.072	36	2.2

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
23-S [3] (cont'd)	8/18/2014	1.4	48	120	12	1.6	7.6	<0.5	<0.5	17	<0.5	0.8	<2.0	<0.5	<1.0	0.10	0.21	130	2.4
	10/14/2014	1.0	36	130	10	1.1	9.2	<1.0	<1.0	17	<1.0	<1.0	<4.0	<1.0	<2.0	0.087	0.14	82	2.2
	2/5/2015	0.8	27	90	7.6	0.6	1.5	<0.6	<0.6	7.0	<0.6	<0.6	<2.5	<0.6	<1.3	0.0086 J	0.0085 J	2.3	2.4
	5/11/2015	0.9	25	68	5.7	<0.6	<0.6	<0.6	<0.6	7.7	<0.6	<0.6	<2.5	<0.6	<1.3	0.031 J	0.026 J	3.2	3.1
	8/6/2015	1.0	38	84	6.7	0.9	2.2	<0.5	<0.5	18	<0.5	0.7	<2.0	<0.5	<1.0	0.042 J	0.024 J	10	2.3
	10/12/2015	0.8	20	91	12	0.9	48	<0.5	0.5	20	<0.5	0.8	<2.0	<0.5	<1.0	0.72	0.050 J	80	3.0
23-D [3]	12/6/2005	<0.7	230	390	15	1.8	56	0.7	<0.7	11	<0.7	1.0	3.0	<0.7	<1.4	0.670	0.026	11.000	1.1
	2/14/2006	<1.0	140	160	11	1.4	20	<1.0	<1.0	6.5	<1.0	<1.0	3.6	<1.0	<2.0	0.280	0.067	41.000	1.6
	5/2/2006	<1.0	140	370	16	2.1	40	<1.0	<1.0	9.5	<1.0	<1.0	3.4	<1	<2	0.620	0.080	130.000	33
	8/2/2006	<0.5	56	54	13	<0.5	82	0.6	4.2	5.2	<0.5	<0.5	2.2	<0.5	<1	60.000 J	0.110 J	2700.000 J	22
	11/7/2006 [4]	<0.5	3.1 J	47	6.6	<0.5	21	0.7	3.0	3.0	<0.5	<0.5	4.1 J	<0.5	<1	--	--	--	--
	2/15/2007	<0.5	6.6	69	4.6	<0.5	41	0.7	2.8	1.6	<0.5	<0.5	2.6	<0.5	<1	14.000	0.043	130.000	3.5
	5/31/2007	<0.5	9.3	83	2.7	0.7	15	0.7	1.6	1.1	<0.5	<0.5	3.4	0.7	<1	6.300	0.041	130.000	1.6
	8/21/2007	<1.0	28	140	2.5	<1.0	34	<1.0	<1.0	<1.0	<1.0	<1.0	2.8	<1.0	<2.0	9.000	0.110	36.000	1.3
	10/22/2007	<1.3	210	28	<1.3	<1.3	2.4	<1.3	<1.3	<1.3	<1.3	<1.3	7.0	<1.3	<2.5	0.52	<0.025	1.4	0.79
	2/5/2008	<1.0 / <0.7	110 / 120	9.8 / 9.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<1.0 / <0.7	<2.0 / <1.4	<0.025	<0.025	0.20	5.6 / 5.5
	5/2/2008	<1.0 / <1.7	280 / 270	9.8 / 9.6	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	<1.0 / <1.7	4.5 / 3.9	<1.0 / <0.7	<2.0 / <1.4	0.060	<0.025	1.600	0.71 / 0.67
	7/18/2008	<1.3 / <1.7	270 / 280	10 / 10	<1.3 / <1.7	<1.3 / <1.7	1.3 / <1.7	<1.3 / <1.7	<1.3 / <1.7	<1.3 / <1.7	<1.3 / <1.7	<1.3 / <1.7	5.1 / 5.4	<1.3 / <1.7	<2.5 / <3.3	0.180	<0.025	0.500	0.50 / 0.59
	10/7/2008	<2.5 / <0.7	300 / 290	8.0 / 8.7	<2.5 / <0.7	<2.5 / 0.8	<2.5 / <2.5	<2.5 / <0.7	<2.5 / <0.7	<2.5 / <0.7	<2.5 / <0.7	<2.5 / <0.7	<10 / 4.9	<2.5 / <0.7	<5.0 / <1.4	0.300	<0.025	2.900	0.78 / 0.78
	2/10/2009	<2.5 / <0.5	200 / 180	260/ 230	11 / 11	<2.5 / 1.6	<2.5 / 1.3	<2.5 / 0.7	<2.5 / <0.7	<2.5 / 0.8	<2.5 / <0.5	<2.5 / <0.5	<10 / 3.7	<2.5 / <0.5	<5.0 / <1.0	0.055	<0.025	0.690	0.67 / 0.60
	6/1/2009	<1.7 / <2.0	270 / 210	150/ 100	7.9 / 5.3	<1.7 / <2.0	2.3 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	0.160	<0.025	0.860	0.56 / 0.67
	7/13/2009	<1.7 / <0.5	220 / 190	240 / 190	11 / 12	<1.7 / 1.6	4.5 / 4.8	<1.7 / 0.5	<1.7 / 0.6	<1.7 / <0.5	<1.7 / <0.5	<1.7 / <0.5	<6.7 / 3.2	<1.7 / <0.5	<3.3 / <1.0	0.097	<0.025	1.100	1.5 / 1.2
	10/16/2009	<1.7 / <2.0	180 / 180	350 / 330	19 / 18	2.6 / <2.0	41 / 40	<1.7 / <2.0	<1.7 / <2.0	4.1 / 4.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	2.600	0.031	130.000	1.2 / 1.2
	2/19/2010	<1.3 / <1.3	140 / 140	150 / 150	7.9 / 7.8	<1.3 / <1.3	2.3 / 2.3	<1.3 / <1.3	<1.3 / <1.3	<1.3 / <1.3	<1.3 / <1.3	<1.3 / <1.3	<5.0 / <5.0	<1.3 / <1.3	<2.5 / <2.5	0.075	<0.025	2.800	2.3 / 2.3
	4/23/2010	<1.7 / <1.7	230 / 230	150 / 150	8.2 / 8.5	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.045	<0.025	5.200	1.2 / 1.1
	7/7/2010	<2.5 / <2.0	190 / 190	340 / 300	18 / 17	<2.5 / <2.0	21 / 20	<2.5 / <2.0	<2.5 / <2.0	<2.5 / 2.6	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.420	<0.025	14.000	0.93 / 0.99
	10/21/2010	<2.5 / <2.0	160 / 150	360 / 350	20 / 19	3.5 / 2.8	52 / 54	<2.5 / <2.0	3.0 / 2.7	7.5 / 7.6	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	1.600	<0.025	110.000	1.2 / 1.3
	2/1/2011	<2.5 / <2.0	250 / 220	27 / 20	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.054	<0.025	0.320	0.70 / 0.73
	4/14/2011	<2.5 / <2.0	270 / 280	14 / 14	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.039	<0.025	0.15	0.68 / 0.59
	7/22/2011	<2.5 / <2.0	250 / 280	6.4 / 7.6	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.050	<0.025	0.21	0.70 / 0.73
	10/26/2011	<1.7 / <2.0	240 / 260	6.9 / 7.4	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	0.30	0.027	1.7	0.57 / 0.56
	2/8/2012	<1.7 / <1.7	250 / 290	6.1 / 6.3	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.062	0.0087 J	1.6	<0.50 / <0.50
	4/19/2012	<1.7 / <2.5	270 / 300	5.7 / 7.6	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<1.7 / <2.5	<6.7 / <10	<1.7 / <2.5	<3.3 / <5.0	0.066	0.049	3.2	<0.50 / <0.50
	7/23/2012	<2.0 / <2.5	260 / 310	5.0 / 6.6	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<2.0 / <2.5	<8.0 / <10	<2.0 / <2.5	<4.0 / <5.0	0.052	0.010 J	0.24	<0.50 / <0.50

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
23-D [3] (cont'd)	10/10/2012	<2.5 / <2.0	280 / 240	4.6 / 4.3	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<2.5 / <2.0	<10 / <8.0	<2.5 / <2.0	<5.0 / <4.0	0.18	<0.025	0.44	<0.50 / <5.0
	3/12/2013	<2.5 / <0.5	280 / 260	6.5 / 7.2	<2.5 / 0.8	<2.5 / 0.9	<2.5 / <0.5	<2.5 / 0.6	<2.5 / <0.5	<2.5 / <0.5	<2.5 / <0.5	<2.5 / <0.5	<5.0 / 4.7	<2.5 / <0.5	<5.0 / <1.0	0.042	0.0092 J	0.20	0.85 / 0.70
	6/4/2013	<1.7 / <1.7	260 / 270	4.6 / 4.6	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 /<1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.056	0.0088 J	0.68	0.61 / 0.73
	8/29/2013	<1.7 / <1.7	280 / 270	5.4 / 5.5	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 /<1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.090	0.0078 J	0.25	0.70 / 0.66
	10/17/2013	<1.7 / <1.7	280 / 280	6.6 / 6.3	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.22	0.017 J	0.58	0.64 / 0.72
	3/4/2014	<1.7 / <1.7	250 / 250	4.9 / 5.5	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7/ <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.077	0.012 J	0.32	<0.50 / <0.50
	5/27/2014	<1.7 / <1.7	280 / 280	5.3 / 5.4	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.076	0.039	0.40	<0.50 / <0.50
	8/18/2014	<1.7 / <2.0	250 / 260	6.0 / 6.1	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	0.14	0.011 J	0.26	0.70 / <0.50
	10/14/2014	<1.7 / <0.5	260 / 280	4.7 / 4.6	<1.7 / <0.5	<1.7 / 0.9	<1.7 / <0.5	<1.7 / 0.5	<1.7 / <0.5	<1.7 / <0.5	<1.7 / <0.5	<1.7 / <0.5	<6.7 / 6.3	<1.7 / <0.5	<3.3 / <1.0	0.11	0.0096 J	0.23	0.89 / 0.80
	2/5/2015	<1.7 / <1.7	280 / 270	5.5 / 5.8	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<1.7 / <1.7	<6.7 / <6.7	<1.7 / <1.7	<3.3 / <3.3	0.068	0.0054 J	0.12	<0.50 / 2.8
	5/11/2015	<1.7 / <2.0	260 / 250	5.7 / 5.8	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / <4.0	0.15	0.080 J	2.0	0.71 / 0.86
	8/6/2015	<1.7 / <2.0	300 / 280	6.1 / 5.5	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<1.7 / <2.0	<6.7 / <8.0	<1.7 / <2.0	<3.3 / 4.0	0.080 J	0.016 J	4.5	<0.50 / <0.50
	10/13/2015	<1.7	260	6.0	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	0.17	0.0075 J	0.39 J	<0.50
P2A [7]	12/6/2005	3.3	340	200	8.7	2.3	12	<2.0	<2.0	34	<2.0	<2.0	<2.0	<2	<4	0.320	0.37	12.000	1.5
	2/14/2006	<2.5	<2.5	250	3.7	<1.0	<2.5	<2.5	<2.5	41	<2.5	<2.5	<2.5	<2.5	<5.0	0.500	0.220	84.000	190
	5/2/2006	<0.5	2.5	12	2.5	<0.5	14	<0.5	59	14	<0.5	2.2	<0.5	<0.5	<1	6.300	<0.025	16000.000	1800
	8/2/2006	<0.5	1.4	10	2.4	<0.5	7.3	<0.5	72	14	0.6	3.9	<0.5	<0.5	<1	2.700 J	0.150 J	30000.000 J	2500
	11/13/2006	<0.5	0.5	6.7	3.8	<0.5	5.4	<0.5	59	3.4	<0.5	2.0	<0.5	<0.5	<1	11.000	0.330	17000.000	76
	2/12/2007	<0.5	<0.5	2.7	4.6	<0.5	1.8	<0.5	51	1.8	<0.5	1.4	<0.5	<0.5	<1	11.000	1.500	17000.000	78
	5/31/2007	<0.5 / <0.5	<0.5 / <0.5	0.9 / 0.9	4.1 / 4.0	<0.5 / <0.5	0.9 / 0.8	<0.5 / <0.5	53 / 52	1.2 / 1.5	<0.5 / <0.5	1.5 / 1.4	<0.5 / <0.5	<0.5 / <0.5	<1 / <1	4.100	1.700	16000.000	82
DW-1 [8]	12/6/2005	<17	440	3700	110	<17	32	<17	<17	<17	<17	<17	<17	<17	<33	--	--	--	--
	2/14/2006	<31	540	5900	39	<31	<31	<31	<31	<31	<31	<31	<31	<31	<63	0.180	0.850	7.70	1.8
	5/3/2006	<36	<36	28000	110	73	4100	<36	<36	<36	<36	<36	<36	<36	<71	14.000	2.100	3600.000	140
	2/12/2007	<0.5	1.2	6.1	<0.5	<0.5	8.5	<0.5	<0.5	0.8	<0.5	<0.5	<0.5	<0.5	<1	82.000	0.740	22000.000	32
	4/11-13/2007	<5.0	310	3200	17	8.8	290	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<10	190.000	0.650	6700.000	14
	4/30/2007	<17	<17	2800	<17	<17	300	<17	<17	<17	<17	<17	<17	<17	<33	400.000	0.830	8900.000	35
	5/31/2007	<10 / <20	<10 / <20	2200 / 2500	12 / <20	<10 / <20	370 / 320	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<20 / <40	270 / 340	0.82 / 0.91	9100/10000	18/39
	6/27/2007	<20	<20	2400	21.0	<20	580	<20	<20	<20	<20	<20	<20	<20	<40	250.000	0.310	12000.000	750
	9/14/2007	<20	<20	2700	22	<20	930	<20	<20	<20	<20	<20	<20	<20	<40	310.000	2.400	15000.000	21.000
	10/15/2007	<13	<13	1200	<13	<13	820	<13	<13	<13	<13	<13	<13	<13	<25	260.000	1.500	13000.000	320
	11/1/2007	<6.3	<6.3	900	20	<6.3	760	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	320.000	2.700	12000.000	100
	11/20/2007	<3.1	<3.1	520	7.0	<3.1	340	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<6.3	340 B	5.4	14000	46
	12/18/2007	4.5	2.1	230	3.8	<2.0	160	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	270.000	3.700	13000.000	120
	1/23/2008	<0.5	3.3	290	5.7	0.8	180	1.2	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<1.0	220.000	6.300	7700.000	14

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
DW-1 [8] (cont'd)	7/21/2008	<6.3	<6.3	<6.3	<6.3	<6.3	51	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	62.000	3.300	14000.000	33
	10/7/2008	<1.3	2.5	1.6	2.1	<1.3	40	<1.3	<1.3	2.7	<1.3	<1.3	<5.0	<1.3	<2.5	74.000	12.000	18000.000	36
	2/11/2009	<0.5	<0.5	1.1	0.9	<0.5	1.7	<0.5	2.3	1.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.100	140.000	17000.000	35
	6/1/2009	<0.5	0.6	2.3	0.6	<0.5	3.6	<0.5	4.4	1.2	<0.5	<0.5	<2.0	<0.5	<1.0	11.000	280.000	20000.000	21
	7/13/2009	<0.5	<0.5	1.9	0.5	<0.5	2.8	<0.5	4	1.1	<0.5	<0.5	<2.0	<0.5	<1.0	1.600	240.000	19000.000	24
	10/16/2009	<0.5	<0.5	0.8	0.8	<0.5	1.5	<0.5	4.2	1.4	<0.5	<0.5	<2.0	<0.5	<1.0	3.600	390.000	24000.000	28
	2/18/2010	<0.5	1.5	1.3	<0.5	<0.5	1.8	<0.5	3.3	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.690	81.000	14000.000	14
	4/23/2010	<0.5	2.4	2.0	0.8	<0.5	2.7	<0.5	2.6	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	1.300	82.000	12000.000	17
	7/72010	<0.5	1.7	1.8	3.6	<0.5	5.4	<0.5	1.6	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	1.300	81.000	11000.000	21
	10/21/2010	<0.5	0.6	1.2	10	<0.5	3.1	<0.5	2.6	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.520	170.000	19000.000	23
	2/2/2011	<0.5	<0.5	1.2	23	<0.5	2.7	<0.5	2.3	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.480	120.000	11000.000	16
	4/15/2011	<0.5	<0.5	1.3	38	<0.5	2.5	<0.5	2.3	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.30	310.000	13000.000	17
	7/22/2011	<0.5	0.7	98	41	<0.5	140	<0.5	3.1	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	58	570	17000	15
	10/26/2011	<1.3	18	7.4	<1.3	<1.3	4.0	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	1.7	9.0	7600	1,200
	2/9/2012	<0.50	<0.50	1.1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	1.7	0.25	1300	5.1
	4/19/2012	<0.50	0.50	51	1.1	<0.50	33	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	17	24	12000	6.6
	7/24/2012	<0.50	<0.50	1.1	1.0	<0.50	20	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	8.6	130	18000	8.3
	10/11/2012	<0.50	0.90	1.8	<0.50	<0.50	2.6	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	1.4	29	3700	9.6
	3/12/2013	<50	64	<50	<50	<50	<50	<50	<50	<50	<50	<50	<200	<50	<100	1.6	2.2	11000	1100
	6/4/2013	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<100	<25	<50	4.2	6.3	13000	400
	8/29/2013	<0.5	<0.5	<0.5	0.7	<0.5	0.9	<0.5	0.6	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	2.4	33	16000	70
	10/17/2013	<0.5	0.7	0.6	0.9	<0.5	7.4	<0.5	0.8	1.3	<0.5	<0.5	<2.0	<0.5	<1.0	2.9	68	14000	39
	3/4/2014	<0.5	<0.5	0.6	0.7	<0.5	5.2	<0.5	1.4	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	12	130	17000	21
	5/28/2014	<0.5	1.7	6.0	1.1	<0.5	69	<0.5	2.8	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	57	56	20000	14
	8/18/2014	<0.5	<0.5	<0.5	1.0	<0.5	7.0	<0.5	1.4	0.9	<0.5	<0.5	<2.0	<0.5	<1.0	1.6	100	15000	18
	10/14/2014	<0.5	<0.5	<0.5	0.9	<0.5	2.1	<0.5	1.2	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.89	200	16000	18
	2/5/2015	<0.5	1.1	1.2	0.8	<0.5	2.9	<0.5	0.8	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	4.2	240	15000	9.4
	5/11/2015	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.9	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.042 J	2.4	7600	12
	8/7/2015	<0.5	1.3	1.7	3.7	<0.5	3.2	<0.5	2.8	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	1.1	290	18000	13
	10/13/2015	<0.5	2.2	3.2	5.7	<0.5	2.5	<0.5	2.0	0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.59	220	12000	12
28-MW	12/6/2005	<0.5	10	26	20	<0.5	28	1.5	7.2	13	<0.5	1.7	<0.5	<0.5	<1	33.000	0.063	1400.000	4.3
	2/14/2006	<0.5	<0.5	4.8	11	<0.5	4.3	<0.5	8.8	16	<0.5	1.0	<0.5	<0.5	<1.0	52.000	0.160	7700.000	74
	5/3/2006	<0.5	<0.5	0.8	5.0	<0.5	0.7	<0.5	28	3.2	<0.5	1.5	<0.5	<0.5	<1	2.000	0.300	15000.000	200
	8/2/2006	<0.5	1.3	1.7	5.3	<0.5	1.2	<0.5	41	5.8	<0.5	2.4	<0.5	<0.5	<1	1.500 J	0.048 J	26000.000 J	1000

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
28-MW (cont'd)	11/13/2006	<0.5	1.5	28	18	<0.5	38	0.5	34	7.0	<0.5	1.3	<0.5	<0.5	<1	31.000	0.330	14000.000	49
	2/12/2007	<0.5	<0.5	0.7	4	<0.5	1.2	<0.5	32	6.5	<0.5	1.4	<0.5	<0.5	<1	22.000	0.440	16000.000	45
	5/31/2007	<0.5	0.6	<0.5	1.7	<0.5	0.6	<0.5	29	5.3	<0.5	1.1	<0.5	<0.5	<1	16.000	0.520	15000.000	41
	8/21/2007	<0.5	<0.5	1.1	2.6	<0.5	2.7	<0.5	31	4.7	<0.5	1.2	<0.5	<0.5	1.2 J	29.000	0.890	14000.000	57
	11/1/2007	<0.5	<0.5	0.7	1.4	<0.5	1.0	<0.5	32	4.8	<0.5	1.3	<0.5	<0.5	<1.0	9.400	1.000	14000.000	88
	2/5/2008	<0.5	<0.5	16	5.2	<0.5	23	<0.5	25	5.3	<0.5	1.1	<0.5	<0.5	<1.0	19	1.4	8800	77
	5/2/2008	<0.5	<0.5	59	6.7	0.6	47	<0.5	24	4.5	<0.5	1.1	<0.5	<0.5	<1.0	38.000	7.100	15000.000	50
	7/18/2008	<0.5	<0.5	0.6	2.3	<0.5	1.2	<0.5	17	4.2	<0.5	1	<0.5	<0.5	2.1	25.000	9.700	18000.000	32
	10/7/2008	<0.5	0.7	1.9	2.7	<0.5	4.3	<0.5	17	5.4	<0.5	0.9	<2.0	<0.5	2.7	16.000	13.000	14000.000	21
	2/10/2009	<0.5	1.1	28	5.9	<0.5	44	<0.5	16	7.1	<0.5	0.9	<2.0	<0.5	3.3	11.000	12.000	7900.000	11
	5/27/2009	<0.5	0.8	45	9.1	<0.5	110	<0.5	15	6.6	<0.5	0.9	<2.0	<0.5	4.9	21.000	11.000	5900.000	10
	7/13/2009	<0.5	0.6	30	8.4	<0.5	95	<0.5	14	8.0	<0.5	1.0	<2.0	<0.5	4.4	12.000	7.800	5100.000	12
	10/16/2009	<0.5	0.6	12	4.7	<0.5	43	<0.5	16	8.1	<0.5	1.0	<2.0	<0.5	8.8	11.000	13.000	11000.000	12
	2/18/2010	<0.5	0.6	22	6.7	<0.5	48	<0.5	12	7.3	<0.5	1.0	<2.0	<0.5	4.5	7.000	4.200	4700.000	9.8
	4/22/2010	<0.5	0.6	22	5.1	<0.5	50	<0.5	11	7.0	<0.5	0.7	<2.0	<0.5	4.4	6.900	3.100	3200.000	7.8
	7/6/2010	<0.5	<0.5	18	2.4	<0.5	92	<0.5	10	7.0	<0.5	0.8	<2.0	<0.5	3.9	8.400	1.800	2000.000	5.8
	10/21/2010	<0.5	<0.5	10	1.0	<0.5	73	<0.5	8.1	6.2	<0.5	0.6	<2.0	<0.5	2.2	7.700	1.000	1300.000	5.1
	2/1/2011	<0.5	<0.5	6.0	1.2	<0.5	47	<0.5	7.2	7.1	<0.5	0.8	<2.0	<0.5	2.4	3.900	1.200	1100.000	5.5
	4/14/2011	<0.5	<0.5	5.2	0.7	<0.5	39	<0.5	6.1	5.7	<0.5	0.6	<2.0	<0.5	2.2	2.200	1.100	900.000	6.2
	7/22/2011	<0.5	<0.5	3.3	<0.5	<0.5	40	<0.5	5.8	6.1	<0.5	0.6	<2.0	<0.5	<1.0	3.2	0.55	470	3.9
	10/26/2011	<0.5	<0.5	<0.5	<0.5	<0.5	1.8	<0.5	6.8	6.1	<0.5	0.6	<2.0	<0.5	1.9	0.61	4.0	12000	55
	2/8/2012	<0.50	<0.50	0.7	<0.50	<0.50	4.8	<0.50	9.4	8.3	<0.50	0.70	<2.0	<0.50	<1.0	0.69	11	13000	12
	4/20/2012	<0.50	<0.50	1.0	0.70	<0.50	6.6	<0.50	7.8	7.5	<0.50	0.70	<2.0	<0.50	<1.0	0.42	3.5	7200	7.0
	7/24/2012	<0.50	<0.50	0.9	<0.50	<0.50	8.2	<0.50	8.1	7.0	<0.50	0.70	<2.0	<0.50	<1.0	0.64	3.1	7200	6.7
	10/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	2.8 J	<0.50	8.5 J	7.5 J	<0.50	0.70 J	<2.0	<0.50	1.2 J	0.16	2.3	4600	6.0
	3/12/2013	<0.5	<0.5	0.5	<0.5	<0.5	0.7	<0.5	9.8	7.5	<0.5	0.7	<1.0	<0.5	<1.0	0.30	9.2	14000	18
	6/5/2013	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	9.8	7.0	<0.5	0.8	<2.0	<0.5	<1.0	0.049	2.4	9800	9.0
	8/30/2013	<0.5	<0.5	1.2	<0.5	<0.5	4.5	<0.5	6.8	4.8	<0.5	0.6	<2.0	<0.5	<1.0	0.57	2.0	4500	7.4
	10/17/2013	<0.5	<0.5	1.7	<0.5	<0.5	8.6	<0.5	7.2	5.2	<0.5	0.6	<2.0	<0.5	<1.0	0.66	1.4	2300	5.8
	3/4/2014	<0.5	<0.5	0.7	<0.5	<0.5	3.7	<0.5	6.6	5.2	<0.5	0.5	<2.0	<0.5	<1.0	0.46	4.7	12000	7.9
	5/28/2014	<0.5	<0.5	0.6	<0.5	<0.5	1.5	<0.5	6.3	4.9	<0.5	0.5	<2.0	<0.5	<1.0	0.070	3.3	11000	8.3
	8/18/2014	<0.5	<0.5	<0.5	<0.5	<0.5	1.5	<0.5	5.9	4.3	<0.5	0.5	<2.0	<0.5	<1.0	0.065	4.0	9100	8.0
	10/14/2014	<0.5	<0.5	1.0	<0.5	<0.5	4.4	<0.5	7.3	5.9	<0.5	0.6	<2.0	<0.5	<1.0	0.45	5.8	8500	6.5
	2/5/2015	<0.5	<0.5	2.7	<0.5	<0.5	3.7	<0.5	6.5	5.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.28	3.5	7600	7.0

TABLE 3
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28-MW (cont'd)	5/11/2015	<0.5 UJ	0.5	3.6	<0.5 UJ	<0.5 UJ	8.0	<0.5 UJ	5.1	4.2	<0.5 UJ	<0.5 UJ	<2.0 UJ	<0.5 UJ	<1.0 UJ	0.60	1.6	3500	8.9
	8/6/2015	<0.5	0.6	55	1.0	<0.5	22	<0.5	5.9	4.8	<0.5	<0.5	<2.0	<0.5	<1.0	1.1	3.2	6200	9.0
	10/12/2015	<0.5 / <0.5	<0.5 / <0.5	66 / 63	0.9 / 1.1	<0.5 / <0.5	32 / 31	<0.5 / <0.5	8.0 / 7.7	6.0 / 5.9	<0.5 / <0.5	0.5 / 0.5	<2.0 / <2.0	<0.5 / <0.5	<1.0 / 1.0	1.9	4.4	6700	7.4 / 7.5
PMW-1-1 [9]	12/7/2005	<50	3500	8400	61	<50	410	<50	<50	<50	<50	<50	<50	<50	<100	5.400	3.900	11.0	0.89
	2/14/2006	<50	3200	11000	64	<50	410	<50	<50	<50	<50	<50	<50	<50	<100	4.100	2.800	29.0	1.9
	5/3/2006	<50	140	8700	56	<50	330	<50	<50	<50	<50	<50	<50	<50	<100	4.300	2.600	680.000	13
	11/14/2006	<2.0	3.6	540	74	2.2	580	2.8	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<4	69.000	1.100	3100.000	7.2
	2/16/2007	<2.5	<2.5	560	88	<2.5	850	5.0	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	29.000	0.400	580.000	5.3
PMW-1-2 [10]	12/7/2005	<2.5	2.8	930	53	<2.5	730	4.7	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	--	--	--	--
	11/14/2006	<1.7	7.7	330	27	<1.7	280	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<3.3	580.000	1.400	13000.000	120
	2/16/2007	<1.7	1.9	240	34	<1.7	360	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<3.3	410.000	1.800	13000.000	38
PMW-1-3[10]	12/7/2005	<8.3	<8.3	1200	9.9	<8.3	90	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<17	--	--	--	--
	11/13/2006	<13	16	2000	20	<13	560	<13	<13	<13	<13	<13	<13	<13	<25	270.000	0.650	14000.000	52
	2/15/2007	<20	61	7800	33	20	900	<20	<20	<20	<20	<20	<20	<20	<40	290.000	1.400	12000.000	12
PMW-2-1	12/7/2005	<31	82	6700	72	<31	2300	<31	<31	<31	<31	<31	<31	<31	<63	0.810	0.240	2.400	2.0
	2/14/2006	<71	140	7500	<71	<71	1600	<71	<71	<71	<71	<71	<71	<71	<140	16.000	0.490	3.800	2.4
	5/2/2006	<63	140	6400	<63	<63	1500	<63	<63	<63	<63	<63	<63	<63	<130	29.000	1.900	11.000	3.3
	8/2/2006	<25	130	6700	42	<25	2200	<25	<25	<25	<25	<25	<25	<25	<50	48.000 J	2.100 J	1400.000 J	1.9
	11/13/2006	<63	<63	5700	<63	<63	2800	<63	<63	<63	<63	<63	<63	<63	<130	130.000	2.100	6800.000	3.2
	2/12/2007	<50	<50	6300	74	<50	2600	<50	<50	<50	<50	<50	<50	<50	<100	160.000	1.700	8900.000	2.6
	5/31/2007	<42	48	5100	46	<42	2400	<42	<42	<42	<42	<42	<42	<42	<83	170.000	1.800	11000.000	2.3
	8/21/2007	<42	64	6500	54	<42	2600	<42	<42	<42	<42	<42	<42	<42	<83	140.000	1.600	9400.000	2.1
	11/1/2007	<31	57	5700	62	<31	2500	<31	<31	<31	<31	<31	<31	<31	<63	110.000	1.500	8000.000	1.6
	2/5/2008	<42	<42	4600	55	<42	1200	<42	<42	<42	<42	<42	<42	<42	<83	71.000	0.850	4500.000	1.4
	5/2/2008	<42	66	5500	51	<42	2400	<42	<42	<42	<42	<42	<42	<42	<83	320.000	1.800	8200.000	2.5
	7/18/2008	<42	72	6300	55	<42	2300	<42	<42	<42	<42	<42	<42	<42	<83	360.000	2.500	12000.000	2
	10/7/2008	<42	58	4900	<42	<42	1700	<42	<42	<42	<42	<42	<170	<42	<83	340.000	2.7	14000	2.3
	2/10/2009	<42	68	4800	46	<42	1500	<42	<42	<42	<42	<42	<170	<42	<83	280.000	2.700	13000.000	1.3
	6/1/2009	<42	58	4500	<42	<42	1500	<42	<42	<42	<42	<42	<170	<42	<83	260.000	2.600	12000.000	1.8
	7/13/2009	<42	71	5500	74	<42	1700	<42	<42	<42	<42	<42	<170	<42	<83	190.000	1.600	11000.000	1.8
	10/16/2009	<42	75	5600	49	<42	1500	<42	<42	<42	<42	<42	<170	<42	<83	270.000	2.700	14000.000	1.9
	2/18/2010	<42	61	5600	76	<42	1800	<42	<42	<42	<42	<42	<170	<42	<83	270.000	2.900	16000.000	2
	4/23/2010	<42	75	6500	47	<42	1600	<42	<42	<42	<42	<42	<170	<42	<83	260.000	2.500	14000.000	1.6
	7/6/2010	<42	69	6100	54	<42	2000	<42	<42	<42	<42	<42	<170	<42	<83	260.000	2.700	14000.000	1.4

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
PMW-2-1 (cont'd)	10/21/2010	<42	79	6800	54	<42	1800	<42	<42	<42	<42	<42	<170	<42	<83	240.000	2.500	14000.000	1.6
	2/1/2011	<42	70	6800	47	<42	1700	<42	<42	<42	<42	<42	<170	<42	<83	220.000	2.200	12000.000	1.9
	4/14/2011	<42	83	7300	62	<42	1800	<42	<42	<42	<42	<42	<170	<42	<83	200.000	1.900	11000.000	1.6
	7/22/2011	<42	66	5600	43	<42	1500	<42	<42	<42	<42	<42	<170	<42	<83	230	2.1	11000	1.7
	10/26/2011	<36	67	5600	85	<36	1500	<36	<36	<36	<36	<36	<140	<36	<71	220	2.4	11000	1.6
	2/9/2012	<36	61	6500	<36	<36	1400	<36	<36	<36	<36	<36	<140	<36	<71	320	24	12000	1.5
	4/19/2012	<36	51	5700	63	<36	1600	<36	<36	<36	<36	<36	<140	<36	<71	360	17	12000	2.2
	7/23/2012	<36	60	5500	140	<36	1600	<36	<36	<36	<36	<36	<140	<36	<71	360	21	10000	1.5
	10/11/2012	<50	72	7100	55	<50	1900	<50	<50	<50	<50	<50	<200	<50	<100	310	16	9400	1.6
	3/12/2013	<42	51	4400	<42	<42	1600	<42	<42	<42	<42	<42	<83	<42	<83	380	21	12000	2.4
	6/4/2013	<36	57	5600	46	<36	1600	<36	<36	<36	<36	<36	<140	<36	<71	380	23	14000	2.3
	8/29/2013	<36	60	5000	<36	<36	1400	<36	<36	<36	<36	<36	<140	<36	<71	360	24	13000	2.1
	10/17/2013	<36	57	6500	51	<36	2100	<36	<36	<36	<36	<36	<140	<36	<71	370	24	13000	2.3
	3/5/2014	<36	60	5000	37	<36	1500	<36	<36	<36	<36	<36	<140	<36	<71	320	24	14000	1.4
	5/27/2014	<36	50	4200	55	<36	1000	<36	<36	<36	<36	<36	<140	<36	<71	150	19	12000	1.4
	8/18/2014	<36	48	4800	36	<36	790	<36	<36	<36	<36	<36	<140	<36	<71	86	15	10000	2.0
	10/14/2014	<42	48	5100	<42	<42	760	<42	<42	<42	<42	<42	<170	<42	<83	100	18	11000	2.1
	2/5/2015	<42	52	5400	<42	<42	640	<42	<42	<42	<42	<42	<170	<42	<83	75	16	11000	0.73
	5/11/2015	<42	48	5200	<42	<42	470	<42	<42	<42	<42	<42	<170	<42	<83	58	17	11000	2.3
	8/7/2015	<42	<42	3700	<42	<42	310	<42	<42	<42	<42	<42	<170	<42	<83	53	17	12000	1.8
	10/13/2015	<4.2	<4.2	840	31	<4.2	1500	<4.2	<4.2	<4.2	<4.2	<4.2	<17	<4.2	<8.3	110	6.4	4800	1.2
PMW-2-2 [10]	12/7/2005	<20	<20	2100	<20	<20	310	<20	<20	<20	<20	<20	<20	<20	<40	--	--	--	39
	11/14/2006	<2.0	<2.0	160	<2.0	<2.0	730	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<4	100.000	0.410	95.000	29
	2/16/2007	<5.0	<5.0	830	8.3	<5.0	2300	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5	<10	180.000	0.850	530.000	29
PMW-2-3	12/7/2005	<3.1	290	440	7.4	<3.1	24	<3.1	<3.1	<3.1	<3.1	<3.1	4.8	<3.1	<6.3	22.000	1.300	6.000	0.66
	2/14/2006	<3.1	320	480	3.5	<3.1	16	<3.1	<3.1	<3.1	<3.1	<3.1	11	<3.1	<6.3	0.065	0.190	3.000	0.78
	5/3/2006	<2.5	300	420	8.4	<2.5	16	<2.5	<2.5	<2.5	<2.5	<2.5	5.3	<2.5	<5	0.300	0.086	16.000	0.57
	8/2/2006	<1.3	260	330	1.4	<1.3	15	<1.3	<1.3	<1.3	<1.3	<1.3	5.0	<1.3	<2.5	0.520 J	0.096 J	46.000 J	<0.50
	11/13/2006	<2.5	280	360	3.6	<2.5	32	<2.5	<2.5	<2.5	<2.5	<2.5	6.0	<2.5	<5	1.500	0.091	44.000	0.60
	2/12/2007	<2.5	270	400	5.8	<2.5	32	<2.5	<2.5	<2.5	<2.5	<2.5	4.7	<2.5	<5	1.900	0.120	49.000	0.66
	5/31/2007	<2.5 / <2.5	270 / 270	380 / 370	3.9 / 3.6	<2.5 / <2.5	40 / 30	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	5.6 / 6.4	<2.5 / <2.5	<5 / <5	3.100	0.066	63.000	0.53
	8/21/2007	<2.5 / <2.5	270 / 270	360 / 340	6.4 / 3.9	<2.5 / <2.5	20 / 22	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	<2.5 / <2.5	5.2 / 4.8	<2.5 / <2.5	<5.0 / <5.0	1.600	0.110	52.000	0.67
	11/1/2007	<2.0	230	280	11	<2.0	16	<2.0	<2.0	<2.0	<2.0	<2.0	8.3	<2.0	<4.0	1.500	0.048	31.000	<0.50
	2/5/2008	<2.0	240	230	7.0	<2.0	11	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<2.0	<4.0	0.850	0.033	14.000	<0.50

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
PMW-2-3 (cont'd)	5/2/2008	<2.0	250	230	2.1	<2.0	21	<2.0	<2.0	<2.0	<2.0	<2.0	3.9	<2.0	<4.0	2.300	0.041	19.000	0.67
	7/18/2008	<1.3	250	230	1.8	<1.3	17	<1.3	<1.3	<1.3	<1.3	<1.3	4.9	<1.3	<2.5	3.100	0.034	22.000	<0.50
	10/7/2008	<2.5	250	220	3.0	<2.5	20	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	3.300	0.049	26.000	0.64
	2/12/2009	<1.7	220	160	<1.7	<1.7	13	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.100	0.042	20.000	<0.50
	6/1/2009	<1.7	240	170	3.8	<1.7	22	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.600	0.048	22.000	0.59
	7/13/2009	<1.7	240	170	3.1	<1.7	17	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.100	0.034	19.000	0.69
	10/16/2009	<1.7	260	160	4.8	<1.7	13	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.500	0.052	28.000	0.70
	2/18/2010	<1.7	250	170	3.4	<1.7	14	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	1.800	0.030	15.000	0.74
	4/23/2010	<1.7	290	210	3.5	<1.7	12	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	6.700	0.044	25.000	0.68
	7/6/2010	<1.7	270	200	2.0	<1.7	22	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	3.200	0.036	24.000	0.85
	10/21/2010	<1.7	260	220	5.8	<1.7	21	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	3.100	0.031	17.000	0.51
	2/2/2011	<1.7	250	180	4.3	<1.7	14	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.100	<0.025	13.000	0.58
	4/14/2011	<1.7	250	240	6.6	<1.7	33	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	5.500	<0.025	28.000	0.65
	7/22/2011	<1.7	210	170	4.5	<1.7	19	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	3.7	0.044	19	0.77
	10/26/2011	<1.7	200	180	2.8	<1.7	40	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.5	0.070	22	0.53
	2/9/2012	<1.7	260	180	3.7	<1.7	15	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.7	0.033	15	<0.50
	4/19/2012	<1.7	210	170	6.4	1.7	38	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	7.0	0.055	44	<0.50
	7/23/2012	<1.3	220	160	3.9	<1.3	43	<1.3	<1.3	<1.3	<1.3	<1.3	7.3	<1.3	<2.5	9.3	0.083	81	0.52
	10/11/2012	<1.7	220	150	4.3	<1.7	28	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	6.0	0.082	56	0.59
	3/12/2013	<0.7	240	110	2.7	1.5	17	<0.7	<0.7	<0.7	<0.7	<0.7	4.3	<0.7	<1.4	2	0.044	16	0.84
	6/4/2013	<1.3	240	120	1.8	<1.3	14	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	6.4	0.060	29	0.62
	8/29/2013	<1.3	210	110	2.0	<1.3	9.6	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	1.8	0.042	13	0.69
	10/17/2013	1.3	230	120	2.4	<1.3	18	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	2.5	0.059	21	0.78
	3/5/2014	<1.3	250	120	3.0	<1.3	34	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	7.1	0.079	51	<0.50
	5/27/2014	<1.3	230	97	2.2	<1.3	15	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	1.4	0.037	11	<0.50
	8/18/2014	<1.3	210	130	3.0	<1.3	21	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	3.0	0.054	18	0.67
	10/14/2014	<1.7	210	92	<1.7	<1.7	9.7	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	1.2	0.047	12	0.73
	2/5/2015	<1.7	240	96	1.8	<1.7	12	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	0.93	0.030	7.7	<0.50
	5/11/2015	<1.7	240	130	3.0	<1.7	41	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.4	0.15	35	0.89
	8/7/2015	<1.7	220	110	5.0	<1.7	86	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	2.2	0.12	22	0.52
	10/13/2015	<1.7	240	120	4.0	<1.7	32	<1.7	<1.7	<1.7	<1.7	<1.7	<6.7	<1.7	<3.3	3.8	0.092 J	21	<0.50
DW-2 [11]	2/14/2006	<0.7	3.0	110	0.8	<0.7	<0.7	<0.7	<0.7	2.5	<0.7	<0.7	<0.7	<0.7	<1.4	0.560	0.260	1300.000	160
	5/3/2006	<0.7	5.9	2.8	<0.7	<0.7	<0.7	<0.7	<0.7	1.0	<0.7	<0.7	<0.7	<0.7	<1.4	0.460	0.130	1200.000	1700
	2/21/2007	<0.5	1.4	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<1	0.510	0.066	20000.000	72

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Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
DW-2 (cont'd)	5/31/2007	<0.5	2.3	5.5	<0.5	<0.5	0.7	<0.5	<0.5	0.9	<0.5	<0.5	<0.5	<0.5	<1	0.210	0.450	19000.000	350
	7/21/2008	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5.0	2.000	0.028	6300.000	35
	10/7/2008	<0.5	0.6	<0.5	<0.5	<0.5	1	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.240	<0.025	5800.000	48
	2/11/2009	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.200	0.120	5900.000	30
	5/27/2009	<0.5	0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.240	0.810	13000.000	27
	7/13/2009	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.052	0.560	11000.000	22
	10/16/2009	<0.5	<0.5	1.1	<0.5	<0.5	1.1	<0.5	<0.5	1.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.220	2.300	14000.000	24
	2/19/2010	<0.5	<0.5	0.6	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.054	1.500	7400.000	17
	4/23/2010 [12]	<0.5	0.6	0.8	<0.5	<0.5	0.9	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.120	1.900	7100.000	21
	7/7/2010	<0.5	0.6	0.9	0.7	<0.5	0.5	<0.5	<0.5	1.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.065	4.700	8700.000	25
	10/21/2010	<0..5	0.5	1.1	0.9	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.098	0.490	860.000	23
	2/2/2011	<0..5	<0.5	0.6	0.9	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.042	0.620	1000.000	15
	4/15/2011	<0.5	<0.5	0.7	2.1	<0.5	<0.5	<0.5	0.7	1.1	<0.5	<0.5	<2.0	<0.5	<1.0	<0.025	0.860	610.000	11
	7/22/2011	<0.5	0.5	0.9	5.9	<0.5	0.9	<0.5	2.0	3.2	<0.5	<0.5	<2.0	<0.5	<1.0	0.13	8.4	2500	9.4
	10/26/2011	<0.5	1.3	0.7	1.9	<0.5	<0.5	<0.5	0.9	1.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.22	0.64	3500	630
	2/9/2012	<0.50	<0.50	0.90	<0.50	<0.50	<0.50	<0.50	0.5	1.4	<0.50	<0.50	<2.0	<0.50	<1.0	0.21	0.078	5300	540
	4/19/2012	<0.50	0.80	0.80	0.70	<0.50	<0.50	<0.50	<0.50	1.3	<0.50	<0.50	<2.0	<0.50	<1.0	0.21	0.80	10000	32
	7/24/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	0.097	0.58	2900	23
	10/10/2012	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	0.029	0.028	1.2	20
	3/12/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.14	3.7	8500	65
	6/4/2013	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<14	<3.6	<7.1	0.061	0.066	19000	59
	8/29/2013	<0.5	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.16	0.35	11000	33
	10/17/2013	<0.5	<0.5	2.0	<0.5	<0.5	1.3	<0.5	<0.5	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.17	0.43	16000	32
	3/4/2014	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	1.1	0.9	<0.5	<0.5	<2.0	<0.5	<1.0	0.40	0.093	16000	64
	5/28/2014	<0.5	<0.5	<0.5	<0.5	<0.5	0.7	<0.5	<0.5	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.11	0.40	14000	15
	8/18/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	1.3	0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.11	0.54	6800	8.2
	10/14/2014	<0.5	<0.5	0.5	<0.5	<0.5	0.7	<0.5	0.9	0.7	<0.5	<0.5	<2.0	<0.5	<1.0	0.21	1.1	16000	14
	2/5/2015	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.028	1.7	9400	8.6
	5/11/2015	<0.5	1.2	1.4	0.9	<0.5	3.1	<0.5	2.4	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	1.7	250	18000	16
	8/6/2015	<0.5	0.6	1.0	0.7	<0.5	<0.5	<0.5	1.4	1.0	<0.5	<0.5	<2.0	<0.5	<1.0	0.12	3.4	12000	12
	10/12/2015	<0.5	<0.5	0.8	0.9	<0.5	<0.5	<0.5	1.3	0.8	<0.5	<0.5	<2.0	<0.5	<1.0	0.10	3.8	12000	11
X2B1 [13]	12/12/2005	<2.5	420	420	8.3	2.8	41	<2.5	<2.5	<2.5	<2.5	<2.5	15	<2.5	<5	--	--	--	0.78
	1/13/2006	<2.5	84	500	45	3.7	240	<2.5	<2.5	26	<2.5	<2.5	<2.5	<2.5	<5.0	--	--	--	2.7
	2/10/2006	<3.1	450	470	8.4	3.2	35	<3.1	<3.1	<3.1	<3.1	<3.1	15	<3.1	<6.3	--	--	--	1.2

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X2B1 (cont'd)	5/1/2006	<3.1	570	1000	29	4.7	130	<3.1	<3.1	<3.1	<3.1	<3.1	6.9	<3.1	<6.3	--	--	--	0.71
	7/6/2006	<8.3	460	920	19	<8.3	71	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<17	--	--	--	0.70
	8/2/2006	<6.3	350	980	11	<6.3	71	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	--	--	--	1.1
	9/18/2006	<6.3	540	1400	19	<6.3	130	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	3.700	0.310	340.000	0.75
	10/18/2006	<10	480	1600	21	<10	130	<10	<10	<10	<10	<10	<20	<10	<20	--	--	--	1.0
	11/14/2006	<6.3	510	1300	20	<6.3	140	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	6.400	0.200	490.000	0.89
	12/11/2006	<20	450	1900	21	<20	190	<20	<20	<20	<20	<20	<200	<20	<40	13.000	0.180	1200.000	3.2
	5/31/2007	<2.5	8.5	670	14	<2.5	560	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<2.5	<5	230.000	0.410	1500.000	5.4
	8/21/2007	<3.1	3.9	190	5.8	<3.1	250	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<6.3	120.000	0.810	330.000	4.5
	11/1/2007	<0.8	8.2	120	5.2	<0.8	120	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<0.8	<1.7	130.000	0.540	2400.000	600
	2/7/2008	<3.1	240	420	6.3	<3.1	63	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<6.3	8.8	0.12	310	1.2
	2/28/2008	<2.5	150	360	9.2	<2.5	73	<2.5	5.3	7.2	<2.5	<2.5	<2.5	<2.5	<5.0	36.000	1.400	6000.000	20
	3/27/2008	<2.5	330	980	22	4.4	160	<2.5	<2.5	<2.5	<2.5	<2.5	<7.1	<2.5	<5.0	25.000	0.310	730.000	1.1
	5/2/2008	<6.3	380	1100	18	<6.3	140	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	4.700	0.140	140.000	1.4
	7/18/2008	<1.3	3.8	300	4.7	<1.3	160	<1.3	<1.3	<1.3	<1.3	<1.3	2.4	<1.3	<2.5	51.000	0.870	210.000	0.82
	10/7/2008	<2.5	30	360	5.6	<2.5	200	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	44.000	0.420	68.000	1.5
	2/11/2009	<2.5	22	660	15	<2.5	580	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	140.000	0.400	310.000	1.4
	6/1/2009	<8.3	53	990	17	<8.3	570	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	110.000	0.320	260.000	1.1
	7/13/2009	<8.3	100	1200	23	<8.3	530	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	73.000	0.260	230.000	1.1
	10/16/2009	<8.3	71	1100	17	<8.3	510	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	73.000	0.410	280.000	1.2
	2/18/2010	<8.3	57	830	20	<8.3	330	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	26.000	0.200	150.000	2.2
	4/23/2010	7.7	80	640	9.3	<5.0	220	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	25.000	0.170	130.000	1.2
	7/6/2010	<5.0	110	920	14	<5.0	520	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	32.000	0.220	200.000	0.87
	10/21/2010	<7.1	59	470	13	<7.1	690	<7.1	<7.1	<7.1	<7.1	<7.1	<29	<7.1	<14	74.000	0.470	260.000	1.1
	2/1/2011	<3.6	50	370	6.7	<3.6	140	<3.6	<3.6	<3.6	<3.6	<3.6	<14	<3.6	<7.1	13.000	0.180	80.000	0.92
	4/14/2011	<1.3	23	180	5.2	<1.3	130	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	12.000	0.270	34.000	0.96
	7/22/2011	<5.0	150	950	14	<5.0	420	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	21	0.43	92	0.96
	10/27/2011	<2.5	140	420	6.1	<2.5	130	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	21	1.1	330	0.65
	11/21/2011	0.87	470	1100	10	4.2	150	0.91	<0.5	0.78	<0.5	<0.5	6.1	1.2	<1.0	13	1.8	540	0.57
	2/9/2012	<2.5	330	1200	16.0	3.8	160	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	23	3.2	1,000	0.55
	4/19/2012	<5.0	100	670	13	<5.0	110	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	15	0.40	140	0.64
	7/23/2012	<5.0	68	860	13	<5.0	210	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	18	0.52	150	0.72
	10/11/2012	<1.3	23	360	8.1	<1.3	170	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	13	0.45	57	0.7
	12/12/2012	<6.3	360	890	8.0	<6.3	100	<6.3	<6.3	<6.3	<6.3	<6.3	12	<6.3	<13	19	1.8	600	0.70

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X2B1 (cont'd)	1/28/2013	<5.0	340	890	15	<5.0	95	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	15	1.5	1100	0.81
	2/20/2013	<6.3	320	860	11	<6.3	76	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	7.2	1.5	1100	0.80
	3/12/2013	<8.3	230	860	18	<8.3	100	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	6.9	4.6	2600	1.4
	6/4/2013	<8.3	110	1200	19	<8.3	82	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	1.6	1.1	450	1.0
	8/29/2013	<7.1	250	1100	15	<7.1	66	<7.1	<7.1	<7.1	<7.1	<7.1	<29	<7.1	<14	4.1	0.64	280	2.0
	10/17/2013	<7.1	100	1700	52	<7.1	200	<7.1	<7.1	<7.1	<7.1	<7.1	<29	<7.1	<14	7.4	0.87	440	1.5
	5/27/2014	<1.0	<1.0	34	3.3	<1.0	30	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	2.1	470	6.9	7000	270
	8/18/2014	<1.0	2.7	270	11	<1.0	120	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	150	9.6	9200	4200
	10/14/2014	<2.5	<2.5	130	5.3	<2.5	34	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	47	9.9	7200	3700
	2/5/2015	<2.5	<2.5	<2.5	<2.5	<2.5	2.6	<2.5	<2.5	<2.5	<2.5	<2.5	<10	<2.5	<5.0	4.1	5.6	18000	2300
	5/11/2015	<0.5	<0.5	1.8	0.5	<0.5	2.4	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.1	12	17000	37
	8/7/2015	<0.5	1.3	23	0.8	<0.5	13	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	5.2	45	22000	8.5
	10/13/2015	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.065 J	22	17000	4.5
X2A [14]	12/12/2005	1.6	200	230	13	2	62	1.1	<0.7	46.0	<0.7	2.9	<0.7	<0.7	<1.4	--	--	--	1.6
	1/13/2006	<3.1	150	610	45	<3.1	250	<3.1	<3.1	28	<3.1	<3.1	<3.1	<3.1	<6.3	--	--	--	2.6
	2/10/2006	<6.3	23	740	69	<6.3	340	<6.3	<6.3	32	<6.3	<6.3	<6.3	<6.3	<13	--	--	--	3.9
	4/19/2006	<5.0	110	840	57	<5.0	350	<5.0	<5.0	28	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	16
	5/1/2006	<5.0	190	790	44	<5.0	330	<5.0	<5.0	20	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	8.3
	7/6/2006	<1.7	2.2	320	52	<1.7	240	<1.7	19	26	<1.7	<1.7	<1.7	<1.7	<3.3	--	--	--	49
	8/2/2006	<0.5	1	320	58	1.1	200	1	22	35	<0.5	0.8	<0.5	<0.5	<1.0	150.000 J	0.470 J	3900 J	24
	11/14/2006	<0.5	1.9	6.7	9.1	<0.5	5.8	<0.5	80	17	<0.5	2.8	<0.5	<0.5	3.5	54.000	0.660	13000.000	40
	5/31/2007	<0.5	0.6	1.7	5.7	<0.5	1.7	<0.5	56	30	<0.5	3.3	<0.5	<0.5	4.8	24.000	3.600	15000.000	14
	8/21/2007	<0.5 / <0.5	10 / 10	18 / 18	7.5 / 7.7	<0.5 / <0.5	83 / 74	0.5 / 0.5	35 / 35	19 / 18	<0.5 / <0.5	2.0 / 2.1	<0.5 / <0.5	<0.5 / <0.5	7.0 J / 4.0 J	220.000	3.600	7100.000	8.9
	11/1/2007	<0.5 / <0.5	0.7 / 0.8	40 / 40	15 / 14	<0.5 / <0.5	210 / 170	0.9 / 0.9	35 / 34	18 / 20	<0.5 / <0.5	1.0 / 1.0	<0.5 / <0.5	<0.5 / <0.5	3.6 / 4.8	280 / 280	3.6 / 3.3	9200/8000	8.3/8.2
	2/7/2008	<0.5	2.9	36	17	<0.5	96	<0.5	24	21	<0.5	2.2	<0.5	<0.5	<1.0	51	3.3	9300	23
	2/28/2008	<0.5	1.6	60	14	<0.5	73	<0.5	20	26	<0.5	2.3	<0.5	<0.5	1.3	48.000	2.000	12000.000	110
	3/27/2008	<0.5	0.9	110	24	<0.5	140	<0.5	30	22	<0.5	1.5	<0.5	<0.5	2.0	54.000	1.600	10000.000	30
	5/2/2008	2.9	210	960	27	4.1	150	<2.5	<2.5	6.5	<2.5	<2.5	<2.5	<2.5	<5.0	13.000	0.380	1800.000	1.8
	7/18/2008	<1.7	<1.7	48	14	<1.7	420	<1.7	6.6	7.9	<1.7	<1.7	<1.7	<1.7	<3.3	340.000	1.100	5400.000	6.8
	10/7/2008	<0.5	<0.5	15	12	<0.5	880	1.7	14	10	<0.5	<0.5	<2.0	<0.5	1.1	380.000	3.700	12000.000	12
	2/11/2009	<1.7	<1.7	5.9	4.9	<1.7	190	<1.7	10	7.3	<1.7	<1.7	<6.7	<1.7	<3.3	190.000	5.200	7800.000	12
	5/27/2009	<1.7	<1.7	8.8	6.6	<1.7	250	<1.7	13	7.1	<1.7	<1.7	<6.7	<1.7	<3.3	93.000	9.000	9500.000	8.5
	7/13/2009	<1.7	<1.7	4.3	5.4	<1.7	320	<1.7	15	8.4	<1.7	<1.7	<6.7	<1.7	<3.3	79.000	8.500	10000.000	9.1
	10/16/2009	<0.5	<0.5	10	7.6	<0.5	360	1.0	20	13	<0.5	0.5	<2.0	<0.5	<1.0	83.000	11.000	12000.000	7.9

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X2A [14] (cont'd)	2/18/2010	<2.5	<2.5	4.0	3.4	<2.5	240	<2.5	17	10	<2.5	<2.5	<10	<2.5	<5.0	39.000	10.000	7500.000	6.9
	4/22/2010	<1.7	<1.7	4.7	2.6	<1.7	250	<1.7	18	12	<1.7	<1.7	<6.7	<1.7	<3.3	47.000	8.600	5700.000	5.2
	7/6/2010	<1.7	<1.7	6.6	2	<1.7	580	<1.7	20	13	<1.7	<1.7	<6.7	<1.7	<3.3	71.000	8.500	5400.000	4.4
	10/21/2010	<5.0	<5.0	13	<5.0	<5.0	850	<5.0	22	13	<5.0	<5.0	<20	<5.0	<10	78.000	6.300	4200.000	4.2
	2/1/2011	<5.0	<5.0	20	<5.0	<5.0	800	<5.0	23	12	<5.0	<5.0	<20	<5.0	<10	68.000	4.700	3200.000	3.7
	4/14/2011	<5.0	<5.0	43	<5.0	<5.0	830	<5.0	22	13	<5.0	<5.0	<20	<5.0	<10	59.000	4.000	2900.000	3.9
	7/22/2011	<5.0	<5.0	74	<5.0	<5.0	820	<5.0	27	16	<5.0	<5.0	<20	<5.0	<10	63	3.7	2900	3.9
	10/26/2011	<5.0	<5.0	88	<5.0	<5.0	830	<5.0	24	13	<5.0	<5.0	<20	<5.0	<10	52	3.4	2400	3.5
	12/20/2011	<0.5	<0.5	64	5.5	<0.5	96	<0.5	15	14	<0.5	1.2	<0.5	<0.5	<1.0	7.4	1.6	4700	7.0
	2/9/2012	<2.5	<2.5	43	3.9	<2.5	380	<2.5	17	16.0	<2.5	<2.5	<10	<2.5	<5.0	64	2.3	5400	9.4
	4/19/2012	<2.5	<2.5	32	4	<2.5	640	<2.5	15	17	<2.5	<2.5	<10	<2.5	<5.0	69	3.1	5900	11
	7/23/2012	<5.0	<5.0	27	<5.0	<5.0	670	<5.0	17	15	<5.0	<5.0	<20	<5.0	<10	73	4.1	5600	4.7
	10/11/2012	<5.0	<5.0	54	<5.0	<5.0	790	<5.0	21	23	<5.0	<5.0	<20	<5.0	<10	90	4.3	4800	4.1
	12/12/2012	<1.0	<1.0	120	6.2	<1.0	140	<1.0	14	20	<1.0	<1.0	<1.0	<1.0	<2.0	9.0	1.4	4500	6.8
	1/28/2013	<1.0	<1.0	91	5.8	<1.0	120	<1.0	13	18	<1.0	<1.0	<1.0	<1.0	<2.0	12	2.9	8100	8.9
	2/20/2013	<1.0	1.2	17	1.9	<1.0	150	<1.0	10	12	<1.0	<1.0	<1.0	<1.0	<2.0	24	4	7300	<0.5
	3/12/2013	<0.5	<0.5	2.9	0.9	<0.5	34	<0.5	16	5.7	<0.5	0.7	<2.0	<0.5	<1.0	31	4.2	9700	170
	6/4/2013	<0.5	<0.5	0.7	<0.5	<0.5	47	<0.5	19	6	<0.5	0.8	<2.0	<0.5	<1.0	33	2.6	10000	10
	8/29/2013	<0.5	<0.5	1.0	<0.5	<0.5	96	<0.5	18	9.7	<0.5	0.6	<2.0	<0.5	<1.0	46	2.8	9300	8.7
	10/17/2013	<0.7	<0.7	<0.7	<0.7	<0.7	140	<0.7	17	14	<0.7	<0.7	<2.9	<0.7	<1.4	38	3.6	8600	8.0
	2/5/2014	<1.0	<1.0	56	3.4	<1.0	130	<1.0	11	12	<1.0	<1.0	<10	<1.0	<2.0	6.5	1.1	1400	3.7
	3/4/2014	<1.0	<1.0	17	<1.0	<1.0	240	<1.0	12	12	<1.0	<1.0	<4.0	<1.0	<2.0	21	1.8	2000	3.9
	5/27/2014	<2.0	<2.0	6.1	<2.0	<2.0	300	<2.0	14	16	<2.0	<2.0	<8.0	<2.0	<4.0	28	1.6	2100	3.7
	8/18/2014	<2.5	<2.5	25	<2.5	<2.5	320	<2.5	14	13	<2.5	<2.5	<10	<2.5	<5.0	29	2.4	2000	4.0
	10/14/2014	<3.1	<3.1	10	<3.1	<3.1	530	<3.1	13	12	<3.1	<3.1	<13	<3.1	<6.3	50	3.3	2700	3.8
	2/5/2015	<3.1	<3.1	10	<3.1	<3.1	560	<3.1	14	15	<3.1	<3.1	<13	<3.1	<6.3	68	3.3	2900	2.7
	5/11/2015	<0.5	<0.5	5.2	<0.5	<0.5	510	0.6	17	19	<0.5	<0.5	<2.0	<0.5	<1.0	61	3.2	2300	4.4
	8/6/2015	<5.0	<5.0	<5.0	<5.0	<5.0	530	<5.0	16	17	<5.0	<5.0	<20	<5.0	<10	55	2.6	2100	4.0
	10/12/2015	<1.7	<1.7	2.1	<1.7	<1.7	520	<1.7	15	13	<1.7	2.0	<6.7	<1.7	<3.3	76	3.6	2500	3.3
X1B [13]	12/12/2005 [15]	<8.3	360	1600	29	10	120	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<17	--	--	--	0.72
	1/13/2006 [15]	5.8	350	1100	36	7.8	110	2.1	<2.0	9.7	<2.0	<2.0	2.3	<2.0	<4.0	--	--	--	0.72
	2/10/2006 [15]	<8.3	300	940	33	8.7	110	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<8.3	<17	--	--	--	1.5
	4/19/2006 [15]	<7.1	340	880	61	<7.1	84	<7.1	<7.1	9.3	<7.1	<7.1	<7.1	<7.1	<14	--	--	--	2.1
	5/1/2006 [15]	7.4	310	970	37	<7.1	120	<7.1	<7.1	9.6	<7.1	<7.1	<7.1	<7.1	<14	--	--	--	0.73

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X1B (cont'd)	7/6/2006 [15]	6.4	290	860	22.0	5.8	75	<5.0	<5.0	7.7	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	0.71
	8/2/2006 [15]	<7.1	240	850	19.0	<7.1	81	<7.1	<7.1	7.6	<7.1	<7.1	<7.1	<7.1	<14	--	--	--	0.67
	9/18/2006	7.7	270	850	27	7.3	94	<5.0	<5.0	8.5	<5.0	<5.0	<5.0	<5.0	<10	3.500	0.220	310.000	0.77
	10/18/2006	6.2	240	840	30	5.3	110	1.8	<0.7	9.3	<0.7	<0.7	1.8	1.6	<1.4	--	--	--	0.94
	11/14/2006 [15]	<5.0	250	840	28	5.5	140	<5.0	<5.0	6.7	<5.0	<5.0	<5.0	<5.0	<10	21.000	0.350	12000.000	0.93
	12/11/2006	<7.1	270	930	28	<7.1	120	<7.1	<7.1	9.4	<7.1	<7.1	<71	<7.1	<14	22.000	0.330	13000.000	1.0
	5/31/2007	<6.3	140	1700	47	<6.3	350	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	35.000	0.350	12000.000	1.3
	8/21/2007	<5.0	17	950	31	<5.0	200	<5.0	<5.0	6.5	<5.0	<5.0	<7.1	<5.0	<10	14.000	0.400	4000.000	1.7
	11/1/2007	<7.1	<7.1	740	36	<7.1	220	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<7.1	<14	20.000	0.190	2400.000	4.0
	2/7/2008	<4.2	260	930	<4.2	6.3	110	<4.2	<4.2	8.0	<4.2	<4.2	<4.2	<4.2	<8.3	18	0.24	3800	0.77
	2/28/2008	<5.0	180	620	19	<5.0	58	<5.0	<5.0	6.1	<5.0	<5.0	<5.0	<5.0	<10	32.000	0.630	7900.000	2.5
	3/27/2008	6.6	240	860	24	<6.3	110	<6.3	<6.3	12	<6.3	<6.3	<6.3	<6.3	<13	20.000	0.550	3800.000	1.1
	5/2/2008	<7.1	250	890	40	<7.1	93	<7.1	<7.1	8.0	<7.1	<7.1	<7.1	<7.1	<14	7.900	0.380	2200.000	1.3
	7/18/2008	<2.0	74	450	14	<2.0	380	<2.0	<2.0	6.4	<2.0	<2.0	2.7	<2.0	<4.0	19.000	0.200	1300.000	1.6
	10/7/2008	1.8	100	680	15	2.2	240	1.8	<1.3	6.4	<1.3	<1.3	<5.0	<1.3	<2.5	21.000	0.280	1800.000	1.6
	2/10/2009	<7.1	140	1000	25	<7.1	160	<7.1	<7.1	7.6	<7.1	<7.1	<29	<7.1	<14	36.000	1.200	11000.000	1.1
	6/1/2009	<3.6	79	570	25	3.8	570	<3.6	<3.6	5.3	<3.6	<3.6	<14	<3.6	<7.1	28.000	0.870	7500.000	1.4
	7/13/2009	<5.0	37	660	20	<5.0	590	<5.0	<5.0	5.3	<5.0	<5.0	<20	<5.0	<10	20.000	0.510	6900.000	1.5
	10/16/2009	<5.0	140	1300	27	7.0	400	<5.0	<5.0	7.0	<5.0	<5.0	<20	<5.0	<10	11.000	1.200	9600.000	1.3
	2/18/2010	<5.0	12	510	21	<5.0	660	<5.0	<5.0	5.1	<5.0	<5.0	<20	<5.0	<10	9.900	0.990	5600.000	1.5
	4/22/2010	<5.0	62	1500	25	<5.0	340	<5.0	<5.0	5.3	<5.0	<5.0	<20	<5.0	<10	7.600	1.600	4300.000	1.5
	7/6/2010	<10	29	1100	21	<10	300	<10	<10	<10	<10	<10	<40	<10	<20	4.000	0.790	1700.000	1.1
	10/21/2010	<8.3	240	2400	32	12	49	<8.3	<8.3	<8.3	<8.3	<8.3	<33	<8.3	<17	0.600	1.700	4300.000	1.3
	2/1/2011	<17	87	1900	24	<17	83	<17	<17	<17	<17	<17	<67	<17	<33	0.510	0.520	950.000	0.96
	4/15/2011	<10	110	1300	17	<10	28	<10	<10	<10	<10	<10	<40	<10	<20	0.170	0.180	320.000	0.91
	7/22/2011	<6.3	67	940	22	<6.3	44	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<6.3	<13	0.82	0.17	360	0.89
	10/27/2011	<6.3	200	1000	23	<6.3	110	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<6.3	<13	11	5.2	1400	0.79
	11/21/2011	7.4	360	1700	28	8.7	130	2.2	<0.5	11	<0.5	<0.5	1.7	1.1	<1.0	5.5	2.3	880	0.64
	2/9/2012	<6.3	180	780	31	<6.3	93	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<6.3	<13	7.1	1.8	1200	0.93
	4/20/2012	<6.3	150	620	35	<6.3	21	<6.3	<6.3	<6.3	<6.3	<6.3	<25	<6.3	<13	0.20	0.56	670	0.72
	7/23/2012	<5.0	190	570	16	<5.0	21	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<5.0	<10	0.15	0.47	240	0.62
	10/11/2012	<10	100	940	18	<10	64	<10	<10	<10	<10	<10	<40	<10	<20	0.25	0.5	210	0.61
	12/12/2012	<7.1	260	1100	16	<7.1	44	<7.1	<7.1	7.9	<7.1	<7.1	<7.1	<7.1	<14	5.3	2.9	1600	0.81
	1/28/2013	<10	210	950	24	<10	30	<10	<10	<10	<10	<10	<10	<10	<20	3.4	3.2	2600	0.98

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
X1B (cont'd)	2/20/2013	<7.1	200	850	27	<7.1	29	<7.1	<7.1	9.2	<7.1	<7.1	<7.1	<7.1	<14	0.92	2.9	1900	0.92
	3/12/2013	<10	200	1200	25	<10	21	<10	<10	<10	<10	<10	<40	<10	<20	0.17	2.8	1200	1.2
	6/4/2013	<7.1	82	850	14	<7.1	80	<7.1	<7.1	<7.1	<7.1	<7.1	<29	<7.1	<14	0.24	3.0	1500	1.3
	8/29/2013	<5.0	77	520	12	<5.0	79	<5.0	<5.0	5.8	<5.0	<5.0	<20	<5.0	<10	0.86	1.0	370	3.3
	10/17/2013	<5.0	100	640	37	<5.0	79	<5.0	<5.0	6.2	<5.0	<5.0	<20	<5.0	<10	0.20	0.80	250	1.2
	3/5/2014	<5.0	200	890	24	5.8	46	<5.0	<5.0	6.6	<5.0	<5.0	<20	<5.0	<10	5.0	3.0	1100	0.69
	5/28/2014	<0.5	<0.5	19	12	<0.5	26	1.3	<0.5	6.4	<0.5	<0.5	<2.0	<0.5	<1.0	820	1.5	1100	18
	8/18/2014	<0.5	<0.5	210	14	<0.5	240	1.3	<0.5	4.9	<0.5	<0.5	<2.0	<0.5	<1.0	220	0.87	570	1.7
	10/14/2014	<2.0	<2.0	230	10	<2.0	280	<2.0	<2.0	4.9	<2.0	<2.0	<8.0	<2.0	<4.0	260	0.81	1700	1.6
	2/5/2015	<2.0	<2.0	250	12	<2.0	390	<2.0	<2.0	3.7	<2.0	<2.0	<8.0	<2.0	<4.0	88	2.0	5200	<0.50
	5/11/2015	<2.0	<2.0	250	10	<2.0	340	<2.0	<2.0	3.4	<2.0	<2.0	<8.0	<2.0	<4.0	56	5.9	4000	2.0
	8/7/2015	<2.0	<2.0	200	8.9	<2.0	330	<2.0	<2.0	3.4	<2.0	<2.0	<8.0	<2.0	<4.0	45	7.0	2200	1.1
	10/13/2015	<2.0	<2.0	160	7.4	<2.0	210	<2.0	<2.0	3.6	<2.0	<2.0	<8.0	<2.0	<4.0	36	5.0	1500	5.3
ISB2AR	9/14/2007	<1.3	3.1	190	42	<1.3	84	<1.3	13	21	<1.3	<1.3	<1.3	<1.3	2.7	120	2.9	9800	250
ISB3BR	3/19/2014	<0.5	1.8	14	2.6	<0.5	76	0.6	1.0	3.2	<0.5	<0.5	<5.0	<0.5	<1.0	68	60	22000	220
16-S [16]	12/12/2005	<0.5	6.1	29	20	<0.5	37	1.3	11	32	0.7	3.3	<0.5	<0.5	2.6	--	--	--	2.3
	1/13/2006	0.6	17	43	15	<0.5	44	0.9	6.7	22	<0.5	2.2	<0.5	<0.5	1.5	--	--	--	3.0
	2/10/2006	<0.5	9.7	33	21	<0.5	27	0.6	6.3	25	<0.5	2.6	<0.5	<0.5	1.7	--	--	--	6.2
	4/19/2006	4.3	260	840	29	4.8	120	1.7	2.8	17	<0.5	0.8	2	1.4	<1.0	--	--	--	5.4
	5/1/2006	<6.3	340	810	27	<6.3	130	<6.3	<6.3	6.5	<6.3	<6.3	<6.3	<6.3	<13	--	--	--	1.9
	7/6/2006	<0.5	5.5	37	27	<0.5	14	<0.5	21.0	24.0	0.6	3	<0.5	<0.5	2.1	--	--	--	16
	8/2/2006	<0.5	2.8	30	17	<0.5	15	<0.5	23.0	21.0	0.6	2.9	<0.5	<0.5	1.5	--	--	--	72
	11/14/2006	<0.5	1.5	32	19	<0.5	13	<0.5	26	13	0.5	2.6	<0.5	<0.5	3.1	18.000	0.130	11000.000	18
	5/31/2007	<0.5	0.7	11	28	<0.5	9.6	0.6	24	21	0.5	3.0	<0.5	<0.5	7.4	4.500	0.240	5800.000	4.930
	8/21/2007	<0.5	0.8	14	31	<0.5	19	0.6	21	22	0.6	3.0	<0.5	<0.5	9.3 J	9.900	2.100	6500.000	8.900
	10/22/2007	<0.5	0.9	19	27	<0.5	27	0.6	20	28	0.5	3.0	<0.5	<0.5	6.0	13.000	1.100	7300.000	18
	2/7/2008	<0.5	2.9	14	18	<0.5	8.8	<0.5	21	32	0.7	3.6	<0.5	<0.5	7.4	5.4	1.0	8800	35
	2/28/2008	<0.5	1.1	13	9.8	<0.5	7.3	<0.5	20	21	0.5	2.8	<0.5	<0.5	1.4	20.000	0.440	10000.000	280
	3/27/2008	<0.5	1.2	13	13	<0.5	11	<0.5	27	15	0.6	2.8	<0.5	<0.5	1.4	19.000	0.470	13000.000	71
	5/2/2008	<0.5	0.9	36	12	<0.5	31	<0.5	36	12	0.5	3.0	<0.5	<0.5	<1.0	19.000	0.660	13000.000	57
	7/21/2008	<0.5	<0.5	3.6	7	<0.5	3.6	<0.5	24	5.4	<0.5	1.9	<0.5	<0.5	<1.0	10.000	0.140	9900.000	38
	10/7/2008	<0.5	<0.5	4.2	6.3	<0.5	3.9	<0.5	34	4.8	0.5	2.3	<2.0	<0.5	1.1	13.000	0.320	12000.000	40
	2/11/2009	<0.5	0.8	5.8	5.9	<0.5	5.9	<0.5	22	6.2	<0.5	1.9	<2.0	<0.5	1.8	7.000	2.200	8800.000	17
	5/27/2009	<0.5	1.3	11	8.8	<0.5	14	<0.5	28	8.2	<0.5	2.3	<2.0	<0.5	3.9	4.400	4.500	6000.000	13

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
16-S (cont'd)	7/13/2009	<0.5	1.0	14	9.3	<0.5	20	<0.5	31	11	0.6	2.8	<2.0	<0.5	3.2	3.900	3.600	4500.000	12
	10/16/2009	<0.5	1.0	18	10	<0.5	26	<0.5	24	16	0.6	2.9	<2.0	<0.5	4.1	4.400	4.600	3800.000	9.5
	2/19/2010	<0.5	0.6	7.7	8.8	<0.5	27	<0.5	16	13	<0.5	2.4	<2.0	<0.5	3.7	3.200	4.400	3300.000	9.2
	4/23/2010	<0.5	<0.5	7.3	7.2	<0.5	20	<0.5	15	12	<0.5	2.1	<2.0	<0.5	3.3	2.200	4.800	3000.000	7.5
	7/7/2010	<0.5	<0.5	7.2	4.6	<0.5	26	<0.5	31	13	0.6	2.9	<2.0	<0.5	4.9	1.800	4.000	2800.000	8.3
	10/21/2010	<0.5	<0.5	6.9	6.4	<0.5	21	<0.5	13	13	<0.5	2.1	<2.0	<0.5	2.9	2.000	2.700	1600.000	6.4
	2/2/2011	<0.5	<0.5	3.6	4.1	<0.5	18	<0.5	16	12	<0.5	2.2	<2.0	<0.5	1.8	1.500	2.900	1400.000	6.0
	4/15/2011	<0.5	<0.5	3.5	5.7	<0.5	22	<0.5	11	10	<0.5	1.7	<2.0	<0.5	1.6	1.200	2.800	1100.000	5.3
	7/22/2011	<0.5	<0.5	2.5	2.0	<0.5	11	<0.5	15	9.6	<0.5	2.1	<2.0	<0.5	1.5	0.58	3.0	1400	5.5
	10/27/2011	<0.5	<0.5	2.0	1.5	<0.5	7.9	<0.5	11	11	<0.5	1.8	<2.0	<0.5	2.2	2.5	3.3	1300	5.0
	2/8/2012	<0.50	<0.50	2.1	1.4	<0.50	5.6	<0.50	12	10.0	<0.50	1.6	<2.0	<0.50	1.1	0.38	2.7	5700	7.1
	4/20/2012	<0.50	<0.50	3.8	1.9	<0.50	9.5	<0.50	11	11	<0.50	1.9	<2.0	<0.50	<1.0	0.66	2.5	6000	6.8
	7/24/2012	<0.50	<0.50	3.3	1.1	<0.50	17	<0.50	13	13	<0.50	2.3	<2.0	<0.50	<1.0	1.2	1.6	3800	5.5
	10/10/2012	<0.50	<0.50	3.2	0.9	<0.50	20	<0.50	10	16.0	<0.50	2.4	<2.0	<0.50	<1.0	1.2	1.3	1700	4.8
	12/12/2012	<0.5	<0.5	3.4	1.4	<0.5	10	<0.5	13	16.0	0.6	2.7	<0.5	<0.5	<1.0	2	2	6700	7.8
	1/28/2013	<0.5	<0.5	4.1	2.8	<0.5	9.9	<0.5	12	14.0	<1.0	2.4	<0.5	<0.5	<1.0	0.81	2.4	9600	11
	2/20/2013	<0.5	<0.5	5.4	2.6	<0.5	13	<0.5	14	13.0	0.5	2.3	<0.5	<0.5	<1.0	1.8	2.1	10000	35
	3/12/2013	<0.5	<0.5	2.9	1.3	<0.5	7.2	<0.5	16	6.1	<0.5	1.7	<2.0	<0.5	<1.0	2.2	1.3	10000	21
	6/4/2013	<0.5	<0.5	1.0	<0.5	<0.5	1.7	<0.5	26	2.9	<0.5	1.9	<2.0	<0.5	<1.0	0.65	0.59	12000	13
	8/30/2013	<0.5	<0.5	1.8	<0.5	<0.5	4.6	<0.5	21	5.6	<0.5	1.9	<2.0	<0.5	<1.0	0.61	1.4	6000	8.7
	10/17/2013	<0.5	<0.5	2.0	0.6	<0.5	7.0	<0.5	23	7.6	0.5	2.4	<2.0	<0.5	<1.0	0.70	1.4	2800	8.5
	2/5/2014	<0.5	<0.5	2.8	1.3	<0.5	12	<0.5	13	9.5	<0.5	2.0	<5.0	<0.5	<1.0	0.61	0.70	2600	4.2
	3/5/2014	<0.5	<0.5	1.3	<0.5	<0.5	5.6	<0.5	14	6.8	<0.5	1.8	<2.0	<0.5	<1.0	0.62	1.0	2700	6.3
	5/28/2014	<0.5	<0.5	2.3	<0.5	<0.5	17	<0.5	15	8.6	<0.5	2.0	<2.0	<0.5	<1.0	1.5	1.3	2000	5.3
	8/18/2014	<0.5	<0.5	2.0	<0.5	<0.5	11	<0.5	15	7.1	<0.5	1.6	<2.0	<0.5	<1.0	1.6	1.8	3100	16
	10/14/2014	<0.5	<0.5	1.6	<0.5	<0.5	15	<0.5	23	8.0	<0.5	2.4	<2.0	<0.5	<1.0	1.6	1.4	1300	5.9
	2/5/2015	<0.5	<0.5	2.7	0.5	<0.5	15	<0.5	16	9.1	<0.5	2.1	<2.0	<0.5	<1.0	0.93	1.6	2400	4.3
	5/21/2015	<0.5	<0.5	2.2	<0.5	<0.5	10	<0.5	15	9.2	<0.5	2.0	<2.0	<0.5	<1.0	0.60	0.9	780	9.2
	8/6/2015	<0.5	<0.5	2.0	<0.5	<0.5	12	<0.5	17	9.8	<0.5	2.2	<2.0	<0.5	<1.0	0.78	0.82	1000	6.1
	10/12/2015	<0.5	<0.5	1.8	<0.5	<0.5	9.2	<0.5	17	7.8	<0.5	1.7	<2.0	<0.5	<1.0	0.68	1.0	1400	4.8
DW-7 [14]	12/12/2005	<1.3	300	100	1.6	1.7	4.6	<1.3	<1.3	1.3	<1.3	<1.3	10	<1.3	<2.5	--	--	--	<0.50
	1/13/2006	<2.5	350	210	<2.5	<2.5	5	<2.5	<2.5	<2.5	<2.5	<2.5	15	<2.5	<5.0	--	--	--	<0.50
	2/10/2006	<1.7	270	140	2.8	2	4.1	<1.7	<1.7	1.9	<1.7	<1.7	9.9	<1.7	<3.3	--	--	--	0.97
	4/19/2006	<2.0	180	290	3.8	2.3	3.9	<2.0	<2.0	<2.0	<2.0	<2.0	4.6	<2.0	<4.0	--	--	--	1.7

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
DW-7 [14] (cont'd)	5/1/2006	<2.0	110	2000	17	6.4	42	<2.0	<2.0	4.8	<2.0	<2.0	3.8	<2.0	<4.0	--	--	--	5.4
	7/6/2006	<3.6	72	430	6.1	<3.6	230	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	--	--	--	69
	8/2/2006	<1.3	57	180	5.9	1.3	150	<1.3	<1.3	3.1	<1.3	<1.3	2.8	<1.3	<2.5	170.000 J	0.160 J	4700.000 J	200
	11/14/2006[17]	<1.7	140	200	<1.7	<1.7	6.4	<1.7	<1.7	<1.7	<1.7	<1.7	4.5	<1.7	<3.3	--	--	--	0.66
	5/31/2007	<1.0	68	210	1.5	1.1	14	<1.0	<1.0	<1.0	<1.0	<1.0	3.8	<1.0	<2.0	2.500	0.150	66.000	0.72
	8/21/2007	<1.3	85	210	1.9	<1.3	10	<1.3	<1.3	<1.3	<1.3	<1.3	3.5	<1.3	<2.5	2.000	0.270	160.000	0.63
	11/1/2007	<1.0	160	97	<1.0	<1.0	5.3	<1.0	<1.0	<1.0	<1.0	<1.0	5.4	<1.0	<2.0	0.940	0.110	42.000	<0.50
	2/7/2008	<1.7	72	230	1.8	<1.7	22	<1.7	<1.7	<1.7	<1.7	<1.7	2.8	<1.7	<3.3	18	0.086	350	0.57
	2/28/2008	<1.3	130	160	4.2	<1.3	43	<1.3	<1.3	<1.3	<1.3	<1.3	2.8 U[19]	<1.3	<2.5	18.000	0.082	560.000	0.76
	3/27/2008	<1.0	140	130	1.8	<1.0	51	<1.0	<1.0	1.2	<1.0	<1.0	2.4	<1.0	<2.0	36.000	0.720	5500.000	3.6
	5/2/2008	<1.0	160	160	2.5	<1.0	59	<1.0	<1.0	1.4	<1.0	<1.0	3.3	<1.0	<2.0	6.500	0.075	570.000	2.3
	7/21/2008	<0.5	6.9	210	2.8	0.7	62	0.9	<0.5	0.6	<0.5	<0.5	1.5	<0.5	<1.0	4.500	0.490	220.000	1.1
	10/7/2008	<1.3	17	190	2.5	<1.3	70	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	2.900	0.450	150.000	1.1
	2/11/2009	<1.3	14	160	1.7	<1.3	70	<1.3	<1.3	<1.3	<1.3	<1.3	<5.0	<1.3	<2.5	2.400	0.160	270.000	0.54
	6/1/2009	<0.5	5.1	100	1.7	<0.5	65	0.7	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.960	0.280	53.000	0.67
	7/13/2009	<0.5	6.1	95	1.8	<0.5	87	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.400	0.340	58.000	0.8
	10/16/2009	<0.5	6.0	69	2.2	<0.5	110	0.7	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	2.700	0.610	64.000	0.79
	2/19/2010	<0.5	3.3	44	1.1	<0.5	26	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.450	0.230	6.100	0.89
	4/23/2010	<0.5	12.0	86	1.4	<0.5	28	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.360	0.290	9.300	0.73
	7/7/2010	<1.0	4.2	57	1.5	<1.0	110	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	1.500	0.410	14.000	<0.50
	10/21/2010	<1.0	5.2	52	2.1	<1.0	140	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	2.500	0.530	12.000	0.80
	2/2/2011	<0.5	3.1	32	0.9	<0.5	19	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.230	0.140	3.400	0.71
	4/15/2011	<0.5	5.2	62	1.5	<0.5	41	0.7	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.370	0.200	3.800	0.77
	7/22/2011	<1.0	2.0	32	1.6	<1.0	110	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	2.0	0.38	9.2	0.82
	10/27/2011	<1.0	2.1	36	1.7	<1.0	140	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	2.5	0.59	11	0.54
	2/8/2012	<0.50	2.4	46	1.1	<0.50	23	0.6	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	0.28	0.14	1.8	<0.50
	4/20/2012	<0.50	6.5	51	1.3	<0.50	24	0.50	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	0.61	0.42	4.5	<0.50
	7/24/2012	<0.50	1.7	30	1.8	<0.50	110	0.80	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	1.5	1.0	19	0.54
	10/10/2012	<0.50	1.6	26	1.5	<0.50	110	0.6	<0.50	<0.50	<0.50	<0.50	<2.0	<0.50	<1.0	2.4	0.48	6.7	<0.50
	3/12/2013	<0.5	7.1	55	1.2	<0.5	21	0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.22	0.17	31	0.73
	6/5/2013	<0.5	1.1	18	1.0	<0.5	32	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.41	0.18	12	0.72
	8/30/2013	<0.5	15	22	1.3	<0.5	83	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.6	0.68	42	1.0
	10/17/2013	<0.5	11	150	2.2	<0.5	97	0.9	<0.5	0.6	<0.5	<0.5	<2.0	<0.5	<1.0	0.73	0.33	14	0.76
	3/5/2014	<0.5	4.8	41	1.3	<0.5	20	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.23	0.14	2.6	<0.50

TABLE 3
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DW-7 [14] (cont'd)	5/28/2014	<2.0	<2.0	18	<2.0	<2.0	18	<2.0	<2.0	<2.0	<2.0	<2.0	<8.0	<2.0	<4.0	0.49	0.25	37	<0.50
	8/18/2014	<1.0	3.5	50	1.5	<1.0	89	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<1.0	<2.0	1.0	0.42	230	0.70
	10/14/2014	<0.5	<0.5	9.3	1.9	<0.5	100	0.6	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	2.0	0.59	290	0.60
	2/5/2015	<0.5	<0.5	20	1.0	<0.5	29	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.43	0.12	9.8	<0.50
	5/11/2015	<0.5	2.0	34	1.3	<0.5	17	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	0.25	0.15	9.4	1.0
	8/7/2015	<0.5	0.8	23	1.4	<0.5	66	0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.1	0.42	20	<0.50
	10/13/2015	<0.5	<0.5	4.2	1.4	<0.5	85	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0	<0.5	<1.0	1.8	0.33	19	<0.50
DW-8 [16]	12/12/2005	<1.7	300	14	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	12	<1.7	<3.3	--	--	--	<0.50
	1/13/2006	<1.3	240	15	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	8	<1.3	<2.5	--	--	--	<0.50
	2/10/2006	<1.3	200	13	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	<1.3	6.9	<1.3	<2.5	--	--	--	0.79
	4/19/2006	<1.7	220	12	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	3.8	<1.7	<3.3	--	--	--	1.2
	5/1/2006	<1.7	220	11	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	3.7	<1.7	<3.3	--	--	--	<0.50
	5/31/2007	<1.7	200	8.1	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	<1.7	5.4	<1.7	<3.3	<0.025	0.034	19.000	0.53
16-D [16]	12/12/2005	<5.0	740	970	17	6.7	45	<5.0	<5.0	7.9	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	1.2
	1/13/2006	<17	3200	4000	<17	<17	100	<17	<17	<17	<17	<17	<17	<17	<33	--	--	--	0.93
	2/10/2006	<25	1800	3100	<25	<25	82	<25	<25	<25	<25	<25	<25	<25	<50	--	--	--	1.0
	4/19/2006	<6.3	340	970	41	<6.3	91	<6.3	<6.3	9.6	<6.3	<6.3	<6.3	<6.3	<13	--	--	--	1.8
	5/1/2006	<2.5	220	390	6.8	3.1	6.9	<2.5	<2.5	<2.5	<2.5	<2.5	5.6	<2.5	<5.0	--	--	--	0.78
	7/6/2006	<3.6	110	460	4.7	<3.6	80	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<3.6	<7.1	--	--	--	8.4
	9/18/2006	<0.5	0.6	12	10	<0.5	10	<0.5	2.7	4.4	1.9	0.5	<0.5	<0.5	<1.0	250.000	0.380	19000.000	91
	10/18/2006	<0.5	1.5	50	4.7	<0.5	59	<0.5	0.8	2.3	<0.5	0.6	0.5	<0.5	<1.0	--	--	--	2.7
	11/14/2006 [17]	<0.5	1.2	26	8.8	<0.5	30	0.7	1.5	4.8	<0.5	0.6	<0.5	<0.5	<1.0	--	--	--	9.7
	5/31/2007	<0.5	1.7	140	21	0.6	190	2.2	3.0	8.6	<0.5	<0.5	<0.5	<0.5	<1.0	76.000	0.140	6600.000	2.4
	8/21/2007	<0.5	1.0	3.4	5.9	<0.5	6.6	1.4	0.9	4.8	<0.5	<0.5	<2.5	<0.5	<5.0	54.000	0.360	5900.000	2.2
	10/22/2007	<0.5	1.7	20	7.2	<0.5	150	1.4	<0.5	3.4	<0.5	<0.5	<1.7	<0.5	<3.3	50.000	0.170	7700.000	1.8
	2/7/2007	<0.5	3.0	18	5.2	<0.5	29	0.9	<0.5	3.2	<0.5	<0.5	<0.5	<0.5	<1.0	95.000	0.300	12000.000	75
	2/28/2008	<0.5	1.9	34	4.3	0.6	26	1	<0.5	2.7	<0.5	<0.5	<0.5	<0.5	<1.0	17.000	0.320	8700.000	3.7
	3/27/2008	<0.5	2.4	48	6.3	<0.5	53	0.5	<0.5	3.0	<0.5	<0.5	<0.5	<0.5	<1.0	33.000	1.200	19000.000	10
	5/2/2008	<0.5	3.3	36	5.2	<0.5	52	0.7	<0.5	2.1	<0.5	<0.5	0.6	<0.5	<1.0	17.000	0.380	8400.000	9.6
	7/21/2008	<0.5	1.5	2.1	4.1	<0.5	1.5	1.1	<0.5	1.9	<0.5	<0.5	<0.5	<0.5	<1.0	0.120	0.220	3300.000	2.4
	10/7/2008	<0.5	1.7	2.5	4.3	<0.5	4.5	1.2	<0.5	2.2	<0.5	<0.5	<2.0	<0.5	<1.0	0.310	0.230	2400.000	1.8
	2/11/2009	<0.5	1.3	71	7.1	<0.5	50	0.8	<0.5	2.2	<0.5	<0.5	<2.0	<0.5	<1.0	0.140	3.400	1500.000	1.6
	6/1/2009	<1.0	1.0	160	12	<1.0	110	<1.0	4.5	7.5	<1.0	<1.0	<4.0	<1.0	<2.0	18.000	0.860	7200.000	3.5
	7/13/2009	<1.0	<1.7	190	15	<1.0	130	1.0	6.4	8.4	<1.0	<1.0	<4.0	<1.0	<2.0	13.000	0.800	6900.000	4.1

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
16-D (cont'd)	10/16/2009	<1.7	7.0	240	16	<1.7	110	<1.7	9.7	9.9	<1.7	<1.7	<6.7	<1.7	<3.3	13.000	1.400	7100.000	4.2
	2/19/2010	<1.7	2.7	230	17	<1.7	130	<1.7	8.3	7.3	<1.7	<1.7	<6.7	<1.7	<3.3	9.600	1.300	5500.000	3.6
	4/23/2010	<1.7	2.1	240	15	<1.7	130	<1.7	6.8	8.3	<1.7	<1.7	<6.7	<1.7	<3.3	11.000	1.200	5700.000	2.9
	7/7/2010	<1.7	2.6	240	15	<1.7	210	<1.7	8.8	9.9	<1.7	<1.7	<6.7	<1.7	<3.3	9.500	1.300	5200.000	2.9
	10/21/2010	<1.7	<1.7	180	14	<1.7	180	<1.7	5.2	6.6	<1.7	<1.7	<6.7	<1.7	<3.3	10.000	0.780	3500.000	1.9
	2/2/2011	<1.3	<1.3	230	13	<1.3	240	1.5	2.0	5.8	<1.3	<1.3	<5.0	<1.3	<2.5	10.000	0.370	3800.000	1.1
	4/15/2011	<1.3	<1.3	32	7.2	<1.3	210	1.5	<1.3	3.8	<1.3	<1.3	<5.0	<1.3	<2.5	10.000	0.250	1500.000	0.88
	7/22/2011	<1.3	<1.3	40	8.3	<1.3	200	<1.3	<1.3	3.1	<1.3	<1.3	<5.0	<1.3	<2.5	13	0.39	2600	0.84
	10/27/2011	<1.3	<1.3	14	5.9	<1.3	130	<1.3	<1.3	2.5	<1.3	<1.3	<5.0	<1.3	<2.5	9.1	1.2	340	0.68
	12/20/2011	<0.5	2.0	94	8.1	<0.5	170	0.9	<0.5	1.7	<0.5	<0.5	1.1	<0.5	<1.0	46	14	2400	1.2
	2/8/2012	<0.50	<0.50	16	7.0	<0.50	80	1.1	<0.50	2.0	<0.50	<0.50	<2.0	<0.50	<1.0	31	6.6	8000	6.7
	4/20/2012	<0.50	<0.50	6.1 J	4.3 J	<0.50	70 J	0.6 J	<0.50	1.7 J	<0.50	<0.50	<2.0	<0.50	<1.0	5.5	2.8	1500	0.84
	7/24/2012	<0.50	<0.50	9.9	3.5	<0.50	130	0.80	<0.50	1.4	<0.50	<0.50	<2.0	<0.50	<1.0	9.0	2.0	1400	0.89
	10/10/2012	<1.3	<1.3	16	3.6	<1.3	180	<1.3	<1.3	1.8	<1.3	<1.3	<5.0	<1.3	<2.5	12	1.7	1800	0.93
	12/12/2012	<1.3	<1.3	29	6.3	<1.3	120	<1.3	<1.3	1.9	<1.3	<1.3	<1.3	<1.3	<2.5	140	12	6000	20
	1/28/2013	<0.5	0.5	53	6.4	<0.5	110	1.0	<0.5	1.5	<0.5	<0.5	<0.5	<0.5	<1.0	82	9.1	9100	3.5
	2/20/2013	1.5	150	730	10	3.3	68	<1.3	<1.3	3.4	<1.3	<1.3	1.4	<1.3	<2.5	8	5.6	4200	1.7
	3/12/2013	<0.7	3.0	100	3.6	<0.7	120	0.7	<0.7	<0.7	<0.7	<0.7	<2.9	<0.7	<2.0	23	9.1	6100	2.4
	6/5/2013	<1.0	<1.0	73	6.3	<1.0	250	1.3	<1.0	2.1	<1.0	<1.0	<4.0	<1.0	<2.0	12	1.9	2500	1.5
	8/30/2013	<1.7	<1.7	26	4.9	<1.7	190	<1.7	<1.7	2.1	<1.7	<1.7	<6.7	<1.7	<3.3	12	1.2	1900	1.6
	10/17/2013	<1.7	<1.7	22	4.4	<1.7	160	<1.7	<1.7	1.7	<1.7	<1.7	<6.7	<1.7	<3.3	7.1	0.93	710	1.2
	3/5/2014	<0.5	<0.5	2.2	2.8	<0.5	15	0.7	<0.5	1.7	<0.5	<0.5	<2.0	<0.5	<1.0	82	6.6	10000	60
	3/19/2014	<0.5	<0.5	22	5.2	<0.5	75	0.7	<0.5	1.8	<0.5	<0.5	<5.0	<0.5	1.3	150	14	13000	240
	5/28/2014	<0.5	<0.5	2.2	1.9	<0.5	15	0.9	<0.5	2.3	<0.5	<0.5	<2.0	<0.5	<1.0	43	3.2	18000	14
	8/18/2014	<0.5	<0.5	3.5	1.0	<0.5	36	0.6	<0.5	1.5	<0.5	<0.5	<2.0	<0.5	<1.0	4.7	3.8	4700	<0.50
	10/14/2014	<0.5	<0.5	3.3	1.2	<0.5	84	0.8	<0.5	1.8	<0.5	<0.5	<2.0	<0.5	<1.0	20	3.4	5200	1.2
	2/5/2015	<0.5	<0.5	3.5	0.9	<0.5	68	0.7	<0.5	1.7	<0.5	<0.5	<2.0	<0.5	<1.0	6.5	1.6	1200	<0.50
	5/11/2015	<0.5	<0.5	18	3.0	<0.5	210	0.8	<0.5	2.2	<0.5	<0.5	<2.0	<0.5	<1.0	0.16	0.016 J	33	1.9
	8/7/2015	<1.7	<1.7	24	3.9	<1.7	230	<1.7	<1.7	2.3	<1.7	<1.7	<6.7	<1.7	<3.3	15	1.2	3700	2.0
	10/13/2015	<1.7	<1.7	15	3.9	<1.7	250	<1.7	<1.7	1.8	<1.7	<1.7	<6.7	<1.7	<3.3	15	1.1	2600	0.81
Influent	1/13/2006	3.0	610	850	15	5.1	81	1.3	0.8	10.0	<0.5	<0.5	3.4	1.2	<1.0	--	--	--	0.96
	2/10/2006	<5.0	440	780	20	<5.0	63	<5.0	<5.0	7.1	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	1.5
	3/22/2006	<10	160	1600	21	<10	83	<10	<10	<10	<10	<10	<10	<10	<20	--	--	--	34
	4/19/2006	<3.6	260	550	20	<3.6	73	<3.6	<3.6	6.9	<3.6	<3.6	3.7	<3.6	<7.1	--	--	--	3.3

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
Influent (cont'd)	5/1/2006	<4.2	270	1100	30	<4.2	88	<4.2	<4.2	5.2	<4.2	<4.2	5.7	<4.2	<8.3	--	--	--	2.5
	8/2/2006	<2.5	55	330	12	<2.5	120	<2.5	5.5	8.1	<2.5	<2.5	<2.5	<2.5	<5	--	--	--	150
	9/18/2006	<5.0	280	940	21	<5.0	18	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	--	--	--	18
	10/18/2006	<4.2	240	790	21	4.8	89	<4.2	<4.2	4.2	<4.2	<4.2	<4.2	<4.2	<8.3	--	--	--	1.5
	11/14/2006	<4.2	390	1100	24	5.7	120	<4.2	<4.2	5.3	<4.2	<4.2	<4.2	<4.2	<8.3	--	--	--	0.9
	12/11/2006	<10	320	1100	25	<10	150	<10	<10	<10	<10	<10	<100	<10	<20	--	--	--	2.4
	4/11-13/2007 [19]	<5.0	310	3200	17	8.8	290	<5.0	<5.0	<5.0	<5.0	<5.0	<25	<5.0	<10	190.000	0.650	6700.000	14
	4/30/2007 [19]	<17	<17	2800	<17	<17	300	<17	<17	<17	<17	<17	<17	<17	<33	400.000	0.830	8900.000	35
	5/31/2007 [19]	<10 / <20	<10 / <20	2200 / 2500	12 / <20	<10 / <20	370 / 320	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<10 / <20	<20 / <40	270 / 340	0.82 / 0.91	9100/10000	18/39
	6/27/2007 [19]	<20	<20	2400	21	<20	580	<20	<20	<20	<20	<20	<20	<20	<40	--	--	--	750
	9/14/2007 [19]	<10	<10	1500	24	<10	560	<10	<10	10	<10	<10	<10	<10	<20	--	--	--	140
	10/15/2007 [19]	<13	<13	1200	<13	<13	820	<13	<13	<13	<13	<13	<13	<13	<25	260.000	1.500	13000.000	320
	11/1/2007 [19]	<6.3	<6.3	900	20	<6.3	760	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<6.3	<13	320.000	2.700	12000.000	100
	11/20/2007 [19]	<3.1	<3.1	520	7	<3.1	340	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<3.1	<6.3	340 B	5.4	14000	46
	12/18/2007 [19]	4.5	2.1	230	3.8	<2.0	160	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<4.0	270.000	3.700	13000.000	120
	1/23/2008 [19]	<0.5	3.3	290	5.7	0.8	180	1.2	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<1.0	220.000	6.300	7700.000	14
	2/4/2008	<1.7	110	260	8.6	<1.7	55	<1.7	6.4	7.8	<1.7	<1.7	1.8	<1.7	<3.3	--	--	--	25
	2/21/2008	<1.3	90	210	7.6	<1.3	60	<1.3	7.5	11	<1.3	<1.3	<1.3	<1.3	<2.5	--	--	--	61
	2/28/2008	<2.0	81	200	8.5	<2.0	38	<2.0	7.1	11	<2.0	<2.0	<2.0	<2.0	<4.0	--	--	--	64
	3/17/2008	<2.5	110	410	15	3.0	85	<2.5	10	9.8	<2.5	<2.5	4.2	<2.5	<5.0	--	--	--	48
	3/27/2008	<2.5	120	390	14	<2.5	90	<2.5	11	11	<2.5	<2.5	<2.5	<2.5	<5.0	--	--	--	22
	4/18/2008	<2.5	160	390	9.2	<2.5	56	<2.5	4.4	5	<2.5	<2.5	<10	<2.5	<5.0	--	--	--	19
	5/2/2008	<2.5	150	410	9.4	<2.5	71	<2.5	4.9	4.9	<2.5	<2.5	<2.5	<2.5	<5.0	--	--	--	7.6
	11/21/2011	4.8	410	1400	20	6.8	120	1.7	<0.5	7.0	<0.5	<0.5	3.2	1.1	<1.0	--	--	--	0.71
	12/20/2011	<0.5	1.1	87	6.7	<0.5	140	0.5	7.5	8.1	<0.5	0.7	<0.5	<0.5	<1.0	--	--	--	4.2
	1/19/2012	4.2	190	900	14	4.2	95	1.0	<1.0	5.6	<1.0	<1.0	1.7	<1.0	<2.0	--	--	--	1.4
	12/12/2012	<3.1	130	440	7.6	<3.1	8.1	<3.1	3.9	7.2	<3.1	<3.1	<3.1	<3.1	<6.3	--	--	--	8.1
	1/28/2013	<2.5	120	470	6.8	<2.5	57	<2.5	5.5	7.8	<2.5	<2.5	<2.5	<2.5	<5.0	--	--	--	5.5
	2/20/2013	<3.1	130	530	9.5	<3.1	76	<3.1	4.3	6.0	<3.1	<3.1	<3.1	<3.1	<6.3	--	--	--	11
	2/5/2014	<0.5	<0.5	37	3.1	<0.5	97	<0.5	13	12	<0.5	1.5	<5.0	<0.5	<1.0	--	--	--	3.9
	3/19/2014	<0.5	0.6	22	4.3	<0.5	97	0.6	<0.5	2.0	<0.5	<0.5	<5.0	<0.5	<1.0	--	--	--	230
Midpoint [20]	1/13/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	2/10/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	1.0
	4/19/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	1.9

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
Midpoint [20] (cont'd)	5/1/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	7/11/2006	<0.5	<0.5	<0.5	<0.5	<0.5	0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	90
	8/2/2006	<0.5	<0.5	3.8	<0.5	<0.5	7.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	99
	9/18/2006	<0.5	<0.5	4.0	<0.5	<0.5	6.2	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	5.9
	9/18/2006	<0.5	1.2	1.4	<0.5	<0.5	2.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	10/18/2006	<0.5	<0.5	0.8	<0.5	<0.5	0.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	0.71
	11/14/2006	<0.5	<0.5	<0.5	<0.5	<0.5	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<1.0
	12/11/2006	<0.5	<0.5	0.8	<0.5	<0.5	2.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	4/30/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	5/31/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	6/27/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	9/14/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	86
	10/18/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	120
	11/20/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	76
	12/18/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	120
Effluent [20]	3/22/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	24
	7/11/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<10	--	--	--	69
	9/18/2006	<0.5	<0.5	<0.5	<0.5	<0.5	0.6	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	15
	9/18/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	10/18/2006	<0.5	<0.5	1.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	11/14/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<.050
	12/11/2006	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	4/30/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	5/31/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	6/27/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	--
	9/14/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	88
	10/18/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	91
	11/20/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	65
	12/18/2007	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	100
	1/23/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	25
	2/4/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	39
	2/21/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	30
	2/28/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	62
	3/17/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	22
	3/27/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	9.8

TABLE 3
ANALYTICAL RESULTS FOR ISB PROGRAM GROUNDWATER SAMPLES [1,2]
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L), unless otherwise noted

Sample ID	Sample Date	PCE EPA 8260B	TCE EPA 8260B	cDCE EPA 8260B	tDCE EPA 8260B	1,1-DCE EPA 8260B	VC EPA 8260B	1,1-DCA EPA 8260B	CB EPA 8260B	1,2-DCB EPA 8260B	1,3-DCB EPA 8260B	1,4-DCB EPA 8260B	Freon 113 EPA 8260B	1,1,1-TCA EPA 8260B	CE EPA 8260B	Ethene AM20GAX	Ethane AM20GAX	Methane AM20GAX	TOC EPA 415.2 (mg/L)
Effluent [20] (cont'd)	4/18/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	26
	5/2/2008	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	9.0
	11/21/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	12/20/2011	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	1/19/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	12/12/2012	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	1/28/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	--	<0.50
	2/20/2013	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<1.1	--	--	--	<0.50
	2/5/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<1.0	--	--	--	<0.50
	3/19/2014	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0	<0.5	<1.0	--	--	--	1.1

Notes:

1. Samples were collected by AMEC Geomatrix, Field Solutions, Inc., or Blaine Tech Services, Inc., of San Jose, California, and submitted to Curtis and Tompkins, Ltd., of Berkeley, California, for VOC and TOC analyses. Ethene, ethane, and methane were analyzed by Microseeps, Inc., or Pace Analytical Energy Services, LLC, of Pittsburgh, Pennsylvania.
2. Baseline sampling was conducted on 6 and 7 December 2005.
3. 23-S was not accessible to sample during the February 2007 sampling event.
4. Well was sampled on 7 November 2006 as part of the annual groundwater monitoring event for the site. See the Annual Groundwater Monitoring Report (Geomatrix, 2007).
5. J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
6. UJ = The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of the quantitation necessary to accurately and precisely measure the analyte in the sample.
7. Well P2A was decommissioned in August 2007.
8. DW-1 was converted to an injection well on 22 May 2006 and 25 January 2008, and to an extraction well on 30 March 2007.
9. Well PMW-1-1 was not sampled during the August 2006 quarterly sampling event due to low recharge.
10. Monitoring well sampling discontinued due to low recharge during the baseline sampling event; however, adequate sample volumes were available during the November 2006 and February 2007 quarterly sampling events.
11. Well DW-2 was converted to an injection well on 22 May 2006. Injection was discontinued on 30 August 2007, was resumed on 25 January 2008, and was discontinued on 2 May 2008.
12. The sample bottles for analysis of ethene, ethane, and methane were broken during shipping but the samples bottles for VOC analysis were okay. DW-2 was re-sampled on 28 April 2010 for analysis of ethene, ethane, and methane.
13. Groundwater extraction at wells X1B and X2B1 was discontinued on 11 December 2006, was resumed on 25 January 2008, and was discontinued on 2 May 2008.
14. Groundwater extraction at wells X2A and DW-7 was discontinued on 3 August 2006, was resumed on 25 January 2008, and was discontinued on 2 May 2008.
15. Sample ID is "X1B1" on laboratory report.
16. Groundwater extraction at wells DW-8, 16-S, and 16-D was discontinued on 1 May, 10 August, and 18 October 2006, respectively. Extraction at wells 16-S and 16-D was resumed on 25 January 2008, and was discontinued on 2 May 2008.
17. Samples for ethene, ethane, and methane were not analyzed due to field oversight.
18. U = The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
19. DW-1 is the only extraction well in operation during the period from 11 April 2007 to 23 January 2008 and, therefore, analytical results for influent and DW-1 are the same.
20. The midpoint and effluent ports for the GAC vessel were sampled after replacement of carbon in the lag vessel on 18 September 2006. The lag carbon vessel was disconnected on 31 January 2008, and no samples were taken from the midpoint port after 31 January 2008.

Abbreviations:

< = compound not detected above indicated laboratory reporting limit
<0.5 / <0.5 = indicates that duplicate samples were collected
1,1,1-TCA = 1,1,1-trichloroethane
1,1-DCA = 1,1 dichloroethane
1,1-DCE = 1,1-dichloroethene
1,2-DCB = 1,2-dichlorobenzene
1,3-DCB = 1,3-dichlorobenzene
1,4-DCB = 1,4-dichlorobenzene
CB = chlorobenzene
cDCE = cis-1,2-dichloroethene
CE = chloroethane
PCE = tetrachloroethene
TCE = trichloroethene
tDCE = trans-1,2-dichloroethene
TOC = total organic carbon
µg/L = micrograms per liter
VC = vinyl chloride
VOC = volatile organic compound

TABLE 4

IN SITU BIOREMEDIATION WELL CONSTRUCTION DETAILS [1]

FORMER 901/902 THOMPSON PLACE

SUNNYVALE, CALIFORNIA

Well ID	Well Type	Screen Interval (ft bgs)	Borehole Diameter (inches)	Well Diameter (inches)
A-Zone Wells				
16-S	Extraction/Monitoring	9 - 16	8	4
X2A	Extraction/Monitoring	10.0 - 19.9	8.25	2
23-S	Monitoring	9.0 - 16.0	8	4
DW-2	Monitoring/Injection	10.0 - 14.0	NA	12
28-MW	Monitoring	10.0 - 16.3	8.25	2
ISB1AR	Injection	10.0 - 24.4	8.25	2
ISB2AR	Extraction/Injection	15.1 - 19.6	8.25	2
B1-Zone Wells				
16-D	Extraction/Monitoring	31 - 41	8	4
DW-7	Extraction/Monitoring	35 - 45	NA	NA
X1B	Extraction/Monitoring	25.4 - 30.2	8.25	2
X2B1	Monitoring/ Injection/Extraction	26.5 - 36.5	8.25	2
DW-1	Monitoring/ Injection/Extraction	32 - 40	NA	4
23-D	Monitoring	40 - 50	8	4
PMW-1-1	Monitoring	26.0 - 27.4	5.5	1.1
PMW-1-2	Monitoring	31.0 - 32.4	5.5	1.1
PMW-1-3	Monitoring	35.9 - 38.5	5.5	1.1
PMW-2-1	Monitoring	26.7 - 28.1	5.5	1.1
PMW-2-2	Monitoring	36.7 - 38.1	5.5	1.1
ISB3BR	Injection/Extraction	25.7 - 43.3	8.25	2
ISB2BR [1]	Injection	31.4 - 39.6	8.25	2
B2-Zone Wells				
DW-8	Extraction	45 - 65	NA	NA
PMW-2-3	Monitoring	45.5 - 48.2	5.5	1.1
ISB1BR	Injection	31.0 - 44.5	8.25	2

Notes:

1. Well ISB2BR is angled at approximately 30 degrees from vertical running beneath the building. The true of the screen interval is 31.4 to 39.6 ft bgs.

Abbreviations:

ft bgs = feet below ground surface

NA = not available

TABLE 5

IN SITU BIOREMEDIATION MONITORING PROGRAM [1]

FORMER 901/902 THOMPSON PLACE

SUNNYVALE, CALIFORNIA

Well ID	Water Levels	Sampling [1]
23-S	Quarterly	Quarterly
23-D	Quarterly	Quarterly
DW-1	Quarterly	Quarterly
28-MW	Quarterly	Quarterly
PMW-1-1	Quarterly	--
PMW-1-2	Quarterly	--
PMW-1-3	Quarterly	--
PMW-2-1	Quarterly	Quarterly
PMW-2-2	Quarterly	--
PMW-2-3	Quarterly	Quarterly
DW-2	Quarterly	Quarterly
X2B1	Quarterly	Quarterly
X2A	Quarterly	Quarterly
X1B	Quarterly	Quarterly
16-S	Quarterly	Quarterly
DW-7	Quarterly	Quarterly
16-D	Quarterly	Quarterly
DW-8	--	--
ISB1AR	--	--
ISB1BR	--	--
ISB2AR	--	--
ISB2BR	--	--
ISB3BR	--	--

Notes:

1. Samples are analyzed for volatile organic compounds by EPA Method 8260B; total organic carbon by EPA Method 415.2; and ethene, methane, ethane by method AM20GAX.
2. -- = Not included in monitoring plan.

TABLE 6
HISTORICAL IN SITU BIOREMEDIATION OPERATIONAL SUMMARY
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Year	Operation Time (hours)	Average Flow Rate - Extraction (gpm)	Total Flow Extracted during Period (gallons)	Substrate Injected during Period [1] (gallons)	Substrate Loading Rate (g/day)
A-Zone					
2008	2,019	0.80	92,364	192	5,435
2009	0	--	0	0	0
2010	0	--	0	0	0
2011	692	0.60	25,046	28	3,873
2012	1,031	0.95	58,491	76	7,042
2013	1,346	0.51	40,934	43	3,052
2014	1,128	0.48	32,621	48	3,057
2015 [2]	0	--	0	0	0
B-Zone					
2008	2,644	1.1	169,211	346	7,479
2009	0	--	0	0	0
2010	0	--	0	0	0
2011	1,290	1.09	84,158	175	12,930
2012	2,473	0.99	146,634	152	8,925
2013	1,346	0.91	73,436	77	5,465
2014	1,337	0.59	47,717	96	5,158
2015 [2]	0	--	0	0	0
Totals					
A-Zone	6,216	0.67	249,456	387	4,473
B-Zone	9,090	0.94	521,156	846	6,687

Notes:
1. From 2008 to 2013, the substrate injected was food-grade molasses. In 2014 the substrate was changed to a 60% w/w sodium lactate solution.
2. The in situ bioremediation system was not operated during 2015. Groundwater circulation with substrate amendment will resume in January 2016.

Abbreviations:
gpm = gallons per minute
g/day = grams carbohydrate injected per day

TABLE 7
STATUS OF CHEMICALS REMOVED THROUGH 2015
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Mechanism	Volume Extracted [1] (gallons)	Average Influent VOCs (µg/L)	Estimated Total VOCs Removed (pounds)	Extraction System Efficiency (lb/MG)
1983/1984 Excavations	NA	NA	10	NA
1992 Excavation	NA	NA	0.3	NA
Groundwater Extraction				
1984 through 1995 [2,3]	126,940,000	529	559	4.4
Groundwater Extraction				
1996	16,140,000	283	38	2.4
1997	15,817,920	339	45	2.8
1998	16,636,170	277	38	2.3
1999	16,170,000	251	33	1.9
2000	12,291,830	262	27	2.2
2001	13,032,970	281	29	2.2
2002	13,495,145	363	40	2.9
Subtotals [4,5]	**103,584,035**	**294**	**250**	**2.4**
ISB Groundwater Extraction				
2006	586,929	1,287	5.9	10.0
2007	154,649	2,653	3.0	19.5
2008	291,553	539	1.3	4.5
2011	109,204	1,113	1.0	9.3
2012	205,125	761	1.3	6.3
2013	114,370	721	0.7	6.0
2014	80,338	145	0.1	1.2
2015 [6]	0	NA	0.0	NA
Subtotals [4]	**1,542,168**	**1,031**	**13**	**8.1**
Total [4]	**232,066,203**		**832**	**3.6**

Notes:
1. The extraction volumes (and associated VOCs removed estimate) are based upon meter readings for individual extraction wells.
2. Estimated values based on data from a previous 5-year Status Report (Arcadis, 2001).
3. DCE (sum of trans-1,2-DCE and cis-1,2-DCE) not monitored in 1990; estimation based on 1989 data; trans-1,2-DCE not monitored in 1991; estimation based on 1989 data.
4. Mass removed values rounded to nearest pound.
5. Extraction system efficiency calculated over 1996 to 2002 period.
6. The in situ bioremediation system was not operated during 2015. Groundwater circulation with substrate amendment will resume in January 2016.

Abbreviations:
µg/L = micrograms per liter
DCE = dichloroethene
ISB = *in situ* bioremediation
lb/MG = pounds VOCs removed per million gallons extracted
NA = not available
VOCs = volatile organic compounds

TABLE 8
ISB PROGRAM GROUNDWATER ELEVATIONS - 2015
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Well Name	Date	Location Coordinates [1]		Screen Interval (feet bgs) [2]	Measuring Point Elevation [3] (feet NAVD88) [4]	Water Level Depth (feet btc) [5]	Water Level Elevation (feet NAVD88) [4]
		Latitude	Longitude				
23-S	2/5/2015	37.38292321	122.009706	9 - 16	47.03	8.66	38.37
	5/11/2015					8.98	38.05
	8/6/2015					9.88	37.15
	10/12/2015					10.29	36.74
16-S	2/5/2015	37.38302803	122.0094942	9 - 16	47.7	9.89	37.81
	5/11/2015					11.24	36.46
	8/6/2015					10.31	37.39
	10/12/2015					11.06	36.64
DW-2	2/5/2015	37.38290374	122.0095907	10 - 14	46.45	8.02	38.43
	5/11/2015					8.99	37.46
	8/6/2015					9.33	37.12
	10/12/2015					9.64	36.81
28-MW	2/5/2015	37.38294782	122.0095259	10.0 - 16.3	47.42	9.35	38.07
	5/11/2015					9.73	37.69
	8/6/2015					10.31	37.11
	10/12/2015					10.77	36.65
X2A	2/5/2015	37.38298213	122.0096288	10.0 - 19.9	47.08	9.49	37.59
	5/11/2015					9.91	37.17
	8/6/2015					10.70	36.38
	10/12/2015					11.02	36.06
X1B	2/5/2015	37.38297721	122.0095389	25.4 - 30.2	47.18	8.98	38.20
	5/11/2015					9.40	37.78
	8/6/2015					10.02	37.16
	10/12/2015					10.33	36.85
X2B1	2/5/2015	37.38298238	122.0096398	26.5 - 36.5	46.83	8.21	38.62
	5/11/2015					7.09	39.74
	8/6/2015					9.22	37.61
	10/12/2015					9.63	37.20
PMW-1-1	2/5/2015	37.38294193	122.009538	26.0 - 27.4	47.45	9.28	38.17
	5/11/2015					9.61	37.84
	8/6/2015					10.40	37.05
	10/12/2015					10.71	36.74
PMW-1-2	2/5/2015	37.38294193	122.009538	31.0 - 32.4	47.45	9.22	38.23
	5/11/2015					9.62	37.83
	8/6/2015					10.30	37.15
	10/12/2015					10.63	36.82
PMW-1-3	2/5/2015	37.38294193	122.009538	35.9 - 38.5	47.45	9.37	38.08
	5/11/2015					9.92	37.53
	8/6/2015					10.53	36.92
	10/12/2015					10.91	36.54

TABLE 8
ISB PROGRAM GROUNDWATER ELEVATIONS - 2015
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Well Name	Date	Location Coordinates [1]		Screen Interval (feet bgs) [2]	Measuring Point Elevation [3] (feet NAVD88) [4]	Water Level Depth (feet btc) [5]	Water Level Elevation (feet NAVD88) [4]
		Latitude	Longitude				
PMW-2-1	2/5/2015	37.38295602	122.0096339	26.7 - 28.1	47.26	8.99	38.27
	5/11/2015					9.37	37.89
	8/6/2015					10.09	37.17
	10/12/2015					10.34	36.92
PMW-2-2	2/5/2015	37.38295602	122.0096339	36.7 - 38.1	47.26	8.74	38.52
	5/11/2015					10.38	36.88
	8/6/2015					9.37	37.89
	10/12/2015					9.93	37.33
PMW-2-3	2/5/2015	37.38295602	122.0096339	45.5 - 48.2	47.26	8.45	38.81
	5/11/2015					9.01	38.25
	8/6/2015					9.58	37.68
	10/12/2015					10.03	37.23
16-D	2/5/2015	37.38303803	122.0095055	31 - 41	47.49	9.53	37.96
	5/11/2015					10.03	37.46
	8/6/2015					10.65	36.84
	10/12/2015					11.08	36.41
DW-1	2/5/2015	37.38289028	122.0095901	32 - 40	46.91	8.68	38.23
	5/11/2015					10.10	36.81
	8/6/2015					9.94	36.97
	10/12/2015					10.32	36.59
DW-7	2/5/2015	37.3830608	122.0095395	35 - 45	46.11	8.10	38.01
	5/11/2015					8.67	37.44
	8/6/2015					9.37	36.74
	10/12/2015					9.66	36.45
23-D	2/5/2015	37.38293321	122.009716	40 - 50	47.04	8.00	39.04
	5/11/2015					8.63	38.41
	8/6/2015					9.21	37.83
	10/12/2015					9.66	37.38

Notes:

1. Well locations were surveyed by Silicon Valley Land Surveying, Inc. (SVLS) on 16 November 2006. Wells were resurveyed by SVLS on 10 to 11 September 2007 after site redevelopment. Horizontal coordinates are referenced to the North American Datum of 1983 (NAD83).
2. feet bgs = feet below ground surface.
3. Top of casing elevations for a subset of wells was altered during repairs made on 7 to 8 August 2007 in
4. feet NAVD88 = feet relative to the North American Vertical Datum of 1988.
5. feet btc = feet below top of well casing.

TABLE 9
ISB PROGRAM WATER QUALITY PARAMETERS, FOURTH QUARTER 2015
FORMER 901 THOMPSON PLACE FACILITY
SUNNYVALE, CALIFORNIA

Well ID	Date	Temp (°C)	pH	Spec. Cond. (µS/cm)	ORP (mV)	DO (mg/L)	Turbidity (NTUs)
23-S	10/12/2015	22.1	6.75	1459	-188	0.30	4
16-S	10/12/2015	21.7	6.40	1451	-117	0.28	4
DW-2	10/12/2015	20.4	6.56	1607	-163	0.18	5
28-MW	10/12/2015	20.0	6.34	1462	-106	0.36	5
X2A	10/12/2015	21.8	6.65	1847	-112	0.33	4
X1B	10/13/2015	20.0	6.92	1137	-261	0.85	6
X2B1	10/13/2015	20.6	7.05	5142	-219	0.60	4
PMW-2-1	10/13/2015	20.1	6.84	367	-176	0.94	7
PMW-2-3	10/13/2015	19.6	7.12	922	-220	0.89	4
16-D	10/13/2015	21.9	7.05	1172	-190	0.50	5
DW-1	10/13/2015	20.2	6.73	1667	-190	1.29	8
DW-7	10/13/2015	20.0	7.22	784	-146	2.27	5
23-D	10/13/2015	20.4	7.17	960	-198	0.80	5

Abbreviations:
Temp = temperature
Spec. Cond. = specific conductivity
ORP = oxidation-reduction potential
DO = dissolved oxygen
°C = degrees celsius
µS/cm = microsiemens per centimeter
mV = millivolts
mg/L = milligrams per liter
NTUs = nephelometric turbidity units

TABLE 10
INTERPRETATION OF PERFORMANCE MONITORING RESULTS - 2015
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

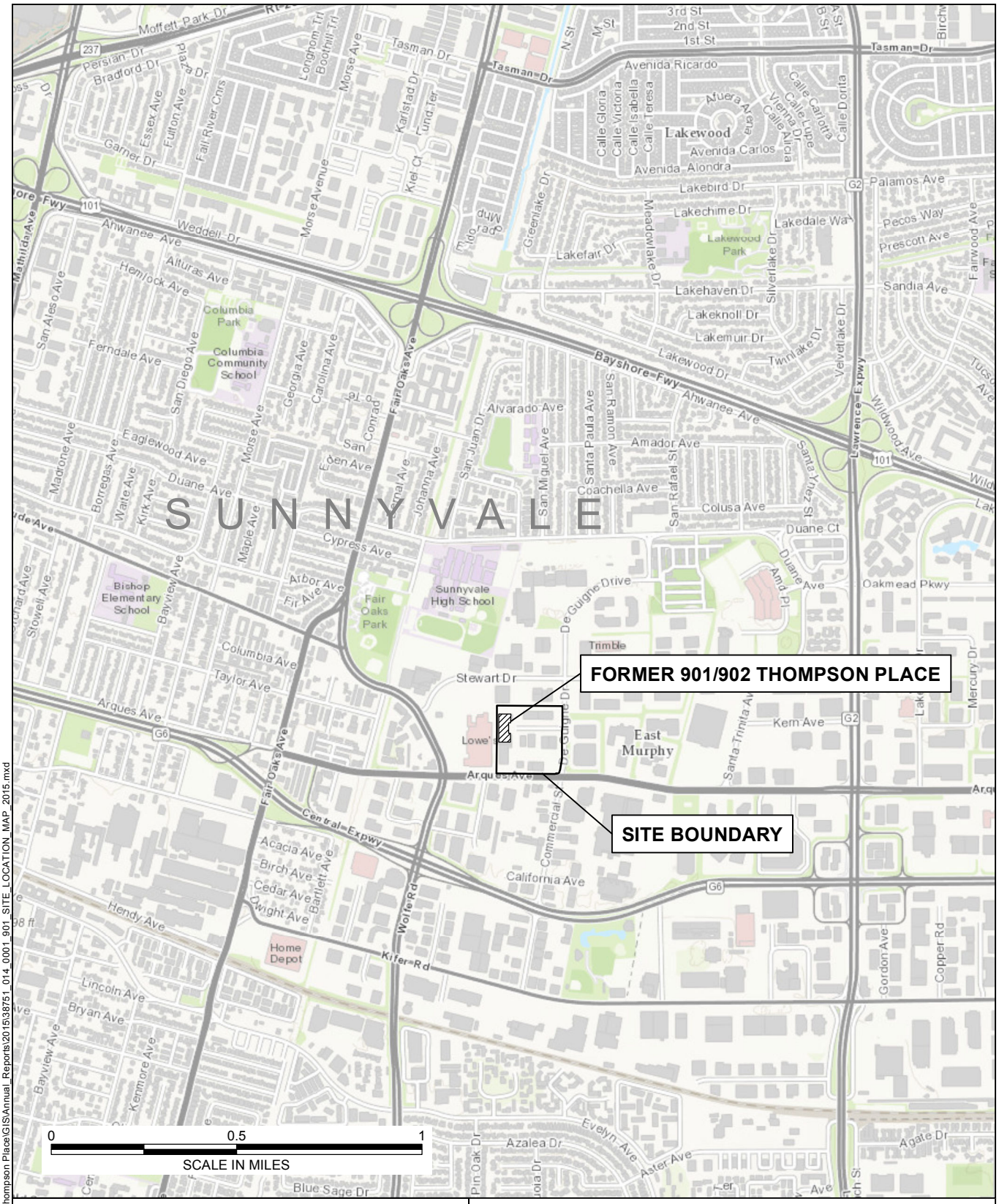
Well ID	Depth Interval (ft bgs)	Decrease in TCE relative to cDCE & VC [1]	Increase in CH_4? [2]	TOC Currently above 10 mg/L? [3]	% Decrease in VOCs from maximum to minimum value (date - date) [4]	Highest Observed %Dechlorination (date) [5]	Conclusions
23-S	9 - 16	Yes	No	No	88% (10/21/10 - 4/19/12)	29% (5/2/08)	Groundwater in the vicinity of this well has previously been affected by the ISB program, and ISB was occurring because of carbohydrate injection. However, sustained concentrations of TCE are observed as carbohydrate is depleted in the vicinity of the well.
23-D	40 - 50	No	No	No	87% (12/6/05 - 11/7/06)	48% (8/2/06)	Groundwater in the vicinity of this well has previously been affected by the ISB program, and ISB was occurring because of carbohydrate injection. However, previous rebound of TCE was observed as substrate became depleted in the vicinity of the well.
28-MW	10 - 16.3	Yes	Yes	No	99% (5/27/09 - 6/5/13)	98% (5/31/07)	The complete transformation of chlorinated VOCs to ethene promoted by substrate injection has been observed at this location. A recent rebound of cDCE and VC in the well may indicate that additional substrate is required to sustain complete transformation to ethene.
PMW-2-1	26.7 - 28.1	No	Yes	No	70% (8/21/07 - 10/13/15)	16% (3/12/13)	The presence of methane and ethene suggest that the conditions are favorable for ISB to occur. It appears that target COCs are slowly decreasing over time due to intrinsic (natural) remediation that has been ongoing likely due to natural organic material in the sediments. This well does not appear to be affected by carbohydrate injection likely due to the fine-grained sediments at this depth inteval; however, groundwater velocity is expected to be low based on well yields, therefore intrinsic remediation appears to be a viable long-term remedy at this location.
PMW-2-3	45.5 - 48.2	No	No	No	65% (2/14/06 - 10/14/14)	10% (12/7/05)	Intrinsic ISB processes appear to be responsible for the destruction of VOCs prior to implementing the ISB program (based on %dechlorination value). This well does not appear to be affected by carbohydrate injection likely due to the fine-grained sediments at this depth interval.
X2B1 [7]	26.5 - 36.5	Yes	No	No	100% (12/11/06 - 10/13/15)	95% (5/27/14)	The complete transformation of chloringate VOCs to ethene promoted by substrate injection has been observed at this location. The concentrations of all COCs are currently below cleanup goals.
X2A [7]	10.0 - 19.9	Yes	Yes	No	100% (4/19/06 - 5/31/07)	95% (5/31/07)	Ethene concentrations indicate that ISB is ongoing at this well; however, low TOC concentrations have been observed as substrate is depleted at this well.
X1B [7]	25.4 - 30.2	Yes	No	No	98% (10/21/10 - 5/28/14)	98% (5/28/14)	Ethene concentrations indicate that ISB is ongoing at this well; however, low TOC concentrations and rebounding target COCs have been observed as substrate is depleted at this well.
16-S [7]	9 - 16	Yes	Yes	No	100% (5/1/06 - 6/4/13)	81% (10/7/08)	ISB processes have been stimulated in the vicinity of this former ISB extraction well, and continue to remove VOCs in this area. Additional substrate injection may be required for complete transformation to ethene.
16-D [7]	31 - 41	Yes	No	No	100% (1/13/06 - 7/21/08)	97% (9/18/06)	Ethene concentrations indicate that ISB is ongoing at this well; however, low TOC concentrations and rebounding VC concentrations have been observed as substrate is depleted at this well. Additional substrate injection may be required for complete transformation to ethene.
DW-7 [7]	35 - 45	Yes	No	No	98% (5/1/06 - 5/28/14)	56% (8/2/06)	Groundwater in the vicinity of this well has previously been affected by the ISB program, and ISB was occurring because of carbohydrate injection. However, low TOC concentrations and rebounding target COCs have been observed as substrate is depleted at this well.
DW-1	32 - 40	No	Yes	Yes	100% (5/3/06 - 2/9/12)	93% (2/12/07)	COCs have decreased by three orders of magnitude in this area, indicating successful source area remediation near this well. Elevated TOC and methane concentrations indicate favorable conditions for ongoing, passive ISB processes.
DW-2	10 - 14	Yes	No	Yes	100% (2/14/06 - 7/21/08)	100% (7/21/08)	COCs have decreased by two orders of magnitude in this area, indicating successful source area remediation near this well. Elevated TOC and methane concentrations indicate favorable conditions for ongoing, passive ISB processes.

Notes:
1. TCE, cDCE, and VC concentrations are tabulated in Table 3. An increase in cDCE and/or VC relative to TCE with time indicates that the reductive dechlorination (the primary ISB process) of TCE is occurring.
2. CH4 concentrations are presented in Table 3. An increase in CH4 over time suggests that microbiologically mediated reduction of carbon dioxide is occurring, along with fermentation of organic compounds. This process is promoted by substrate addition, and an increase in CH4 relative to baseline conditions suggests that conditions are favorable for ISB to occur, as shown during the Pilot Study.
3. TOC concentrations are presented in Table 3. An increase in TOC above 10 mg/L (relative to baseline conditions) is assumed to be indicative of the influence of carbohydrate injection at this well. As shown in the Pilot Study, complete microbiological dechlorination of TCE to ethene by ISB processes was generally preceded by an increase in TOC several months earlier.
4. VOCs refers to the sum of the concentrations of the primary constituents of concern (TCE and cDCE) and VC (i.e., VOCs = TCE+cDCE+VC), where the concentrations of these individual compounds are summarized in Table 3. The % decrease is calculated as 1-(C2/C1) x 100%, where C1 is the earlier concentration and C2 is the later concentration. C2 is the minimum and C1 is the preceding maximum TCE+cDCE+VC concentration reported for sampling events over the performance monitoring period (December 2005 to present).
5. Values for %Dechlorination are based on concentrations of the main COCs and ethene. ISB processes are assumed to be the primary reason for an observed decrease in VOC concentrations when %dechlorination values are greater than half of the observed % decrease in VOCs.
6. Well was destroyed on 27 August 2007 due to damage that occurred during property development.
7. Well was formerly an extraction well; data used in calculations are from samples collected after pumping ceased.

Abbreviations:

cDCE = cis-1,2-dichloroethene
CH_4= methane
COCs = chemicals of concern
TOC = total organic carbon
ft bgs = feet below ground surface
ISB = *in situ* bioremediation
mg/L = milligrams per liter
VC = vinyl chloride
NC = not calculated if VOC concentrations remained the same (in general) or increased
NM = not measured in 2010
TCE = trichloroethene
VOC = volatile organic compounds

FIGURES



HALEY ALDRICH

FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

SITE LOCATION MAP

JANUARY 2016

FIGURE 1

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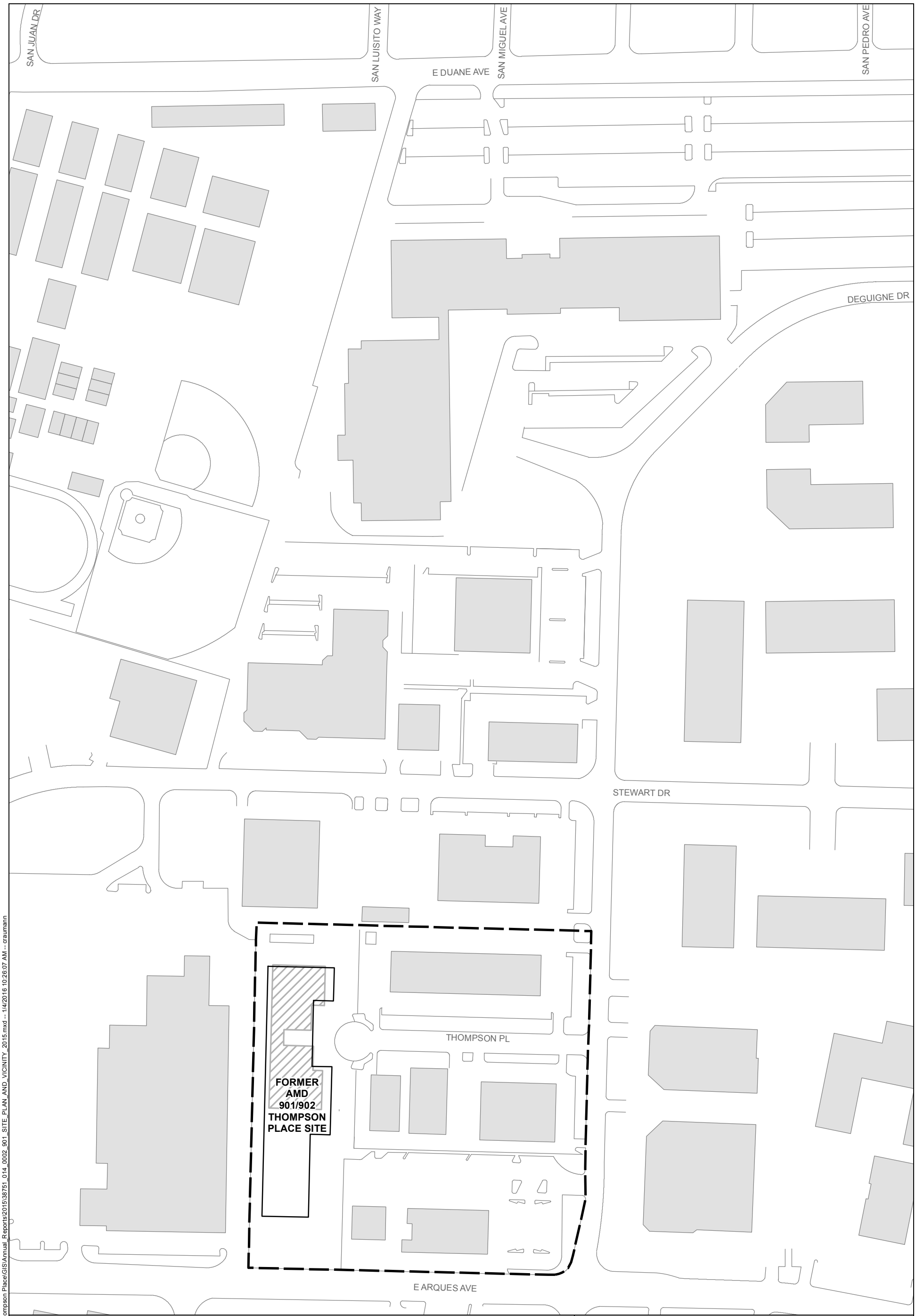

SITE BOUNDARY

CURRENT ON-SITE BUILDING

FORMER 901/902 THOMPSON PLACE

OTHER BUILDING

N

0 200 400

SCALE IN FEET 1 INCH = 200 FEET

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FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

SITE PLAN AND VICINITY

JANUARY 2016

FIGURE 2

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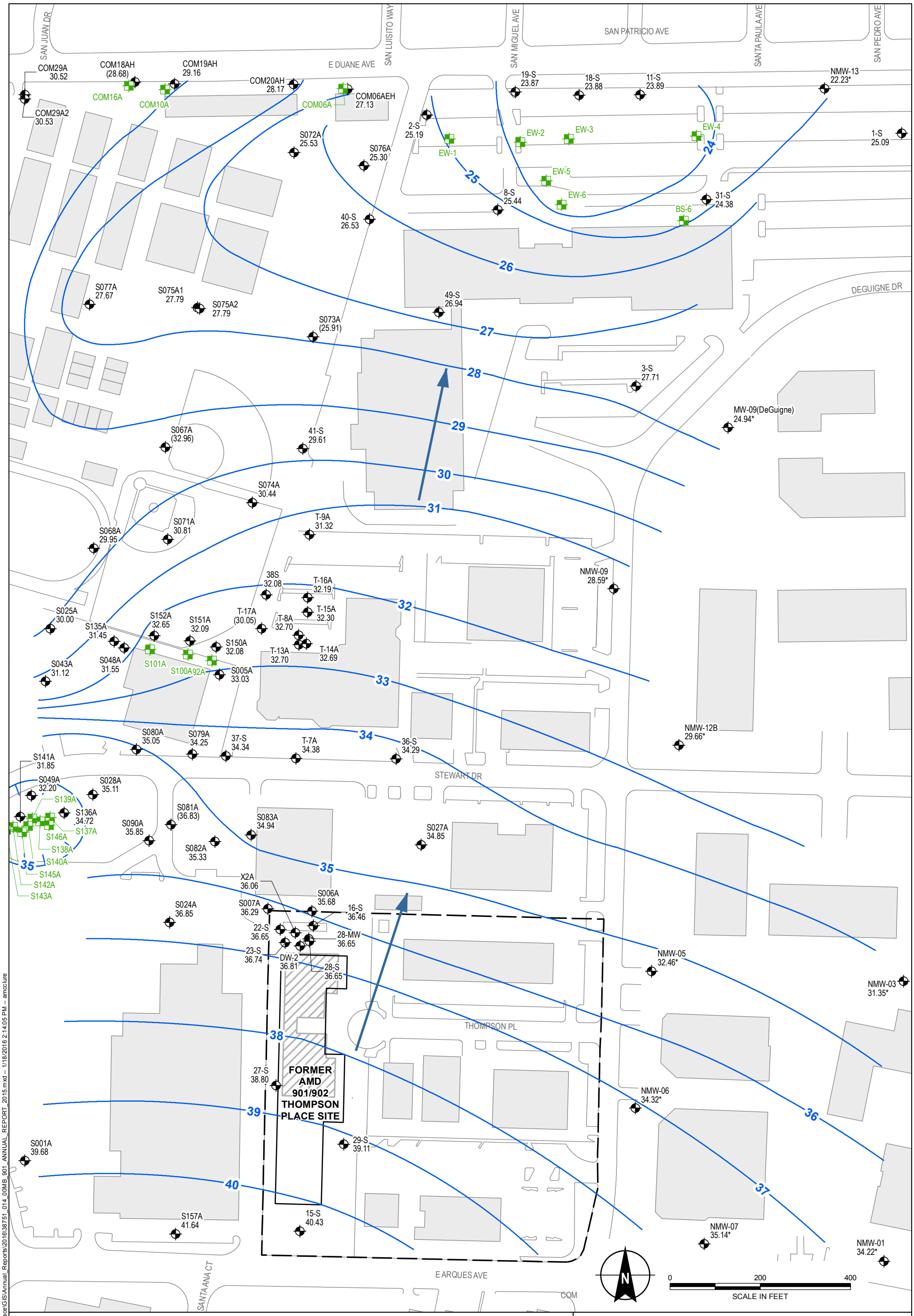

A-ZONE MONITORING WELL WITH WATER LEVEL IN FEET (NAVD88)

EXTRACTION WELL

GROUNDWATER ELEVATION CONTOUR

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

SITE BOUNDARY

CURRENT ON-SITE BUILDING

FORMER 901/902 THOMPSON PLACE

OTHER BUILDING

NOTES

1. *MOHAWK WELLS ARE SURVEYED TO A DIFFERENT VERTICAL DATUM (NGVD29), AND ARE OFFSET BY APPROXIMATELY 2.7 FEET.
2. WATER LEVELS IN PARENTHESIS, E.G., (30.05), WERE NOT USED IN GENERATING CONTOURS.
3. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.
4. EW-1 THROUGH EW-6 ARE SCREENED ACROSS BOTH THE A AND B1 ZONES.

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FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

A-ZONE WATER LEVELS
OCTOBER 2015

JANUARY 2016

FIGURE 3

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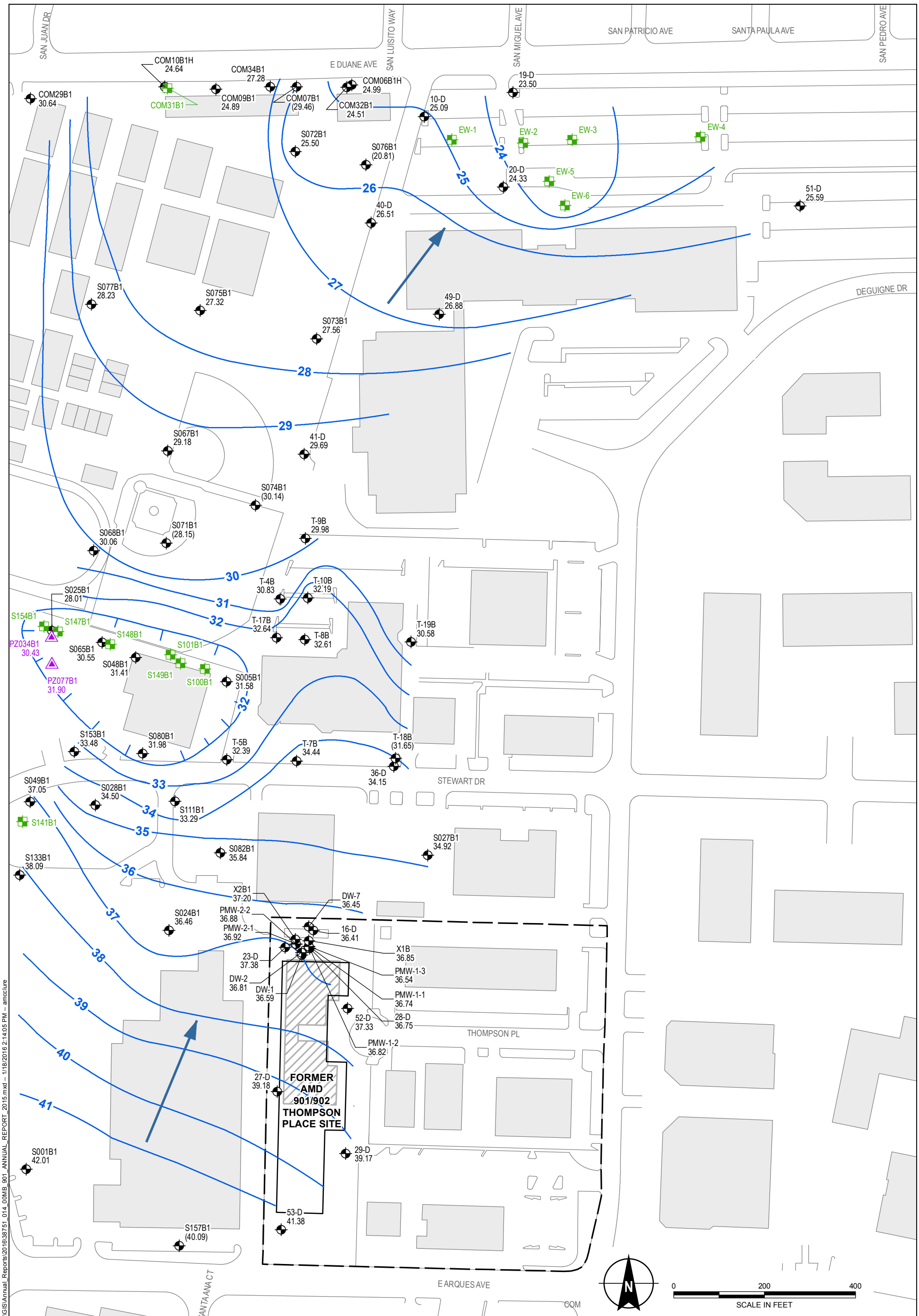

MONITORING WELL

EXTRACTION WELL

PIEZOMETER

GROUNDWATER ELEVATION CONTOUR

APPROXIMATE DIRECTION OF GROUNDWATER FLOW

SITE BOUNDARY

CURRENT ON-SITE BUILDING

FORMER 901/902 THOMPSON PLACE

OTHER BUILDING

NOTES

1. WATER LEVELS IN PARENTHESIS, E.G., (40.09), WERE NOT USED IN GENERATING CONTOURS.
2. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.
3. EW-1 THROUGH EW-6 ARE SCREENED ACROSS BOTH THE A AND B1 ZONES.

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FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

B1-ZONE WATER LEVELS
OCTOBER 2015

JANUARY 2016

FIGURE 4

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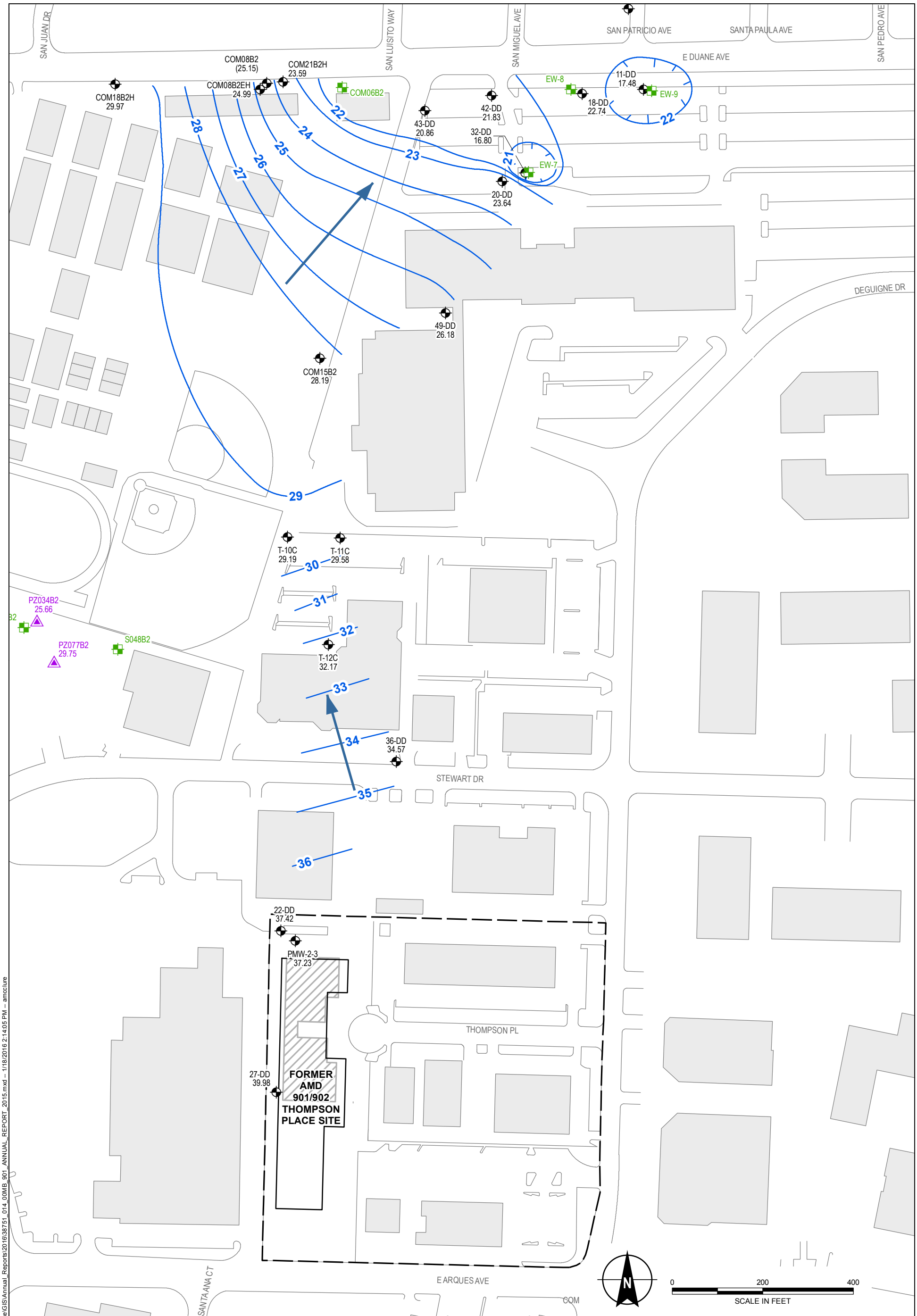

MONITORING WELL
EXTRACTION WELL
PIEZOMETER
GROUNDWATER ELEVATION CONTOUR
APPROXIMATE DIRECTION OF GROUNDWATER FLOW
SITE BOUNDARY
CURRENT ON-SITE BUILDING
FORMER 901/902 THOMPSON PLACE
OTHER BUILDING

NOTES

1. WATER LEVELS IN PARENTHESIS, E.G., (25.15), WERE NOT USED IN GENERATING CONTOURS.
2. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.

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FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

B2-ZONE WATER LEVELS
OCTOBER 2015

JANUARY 2016

FIGURE 5

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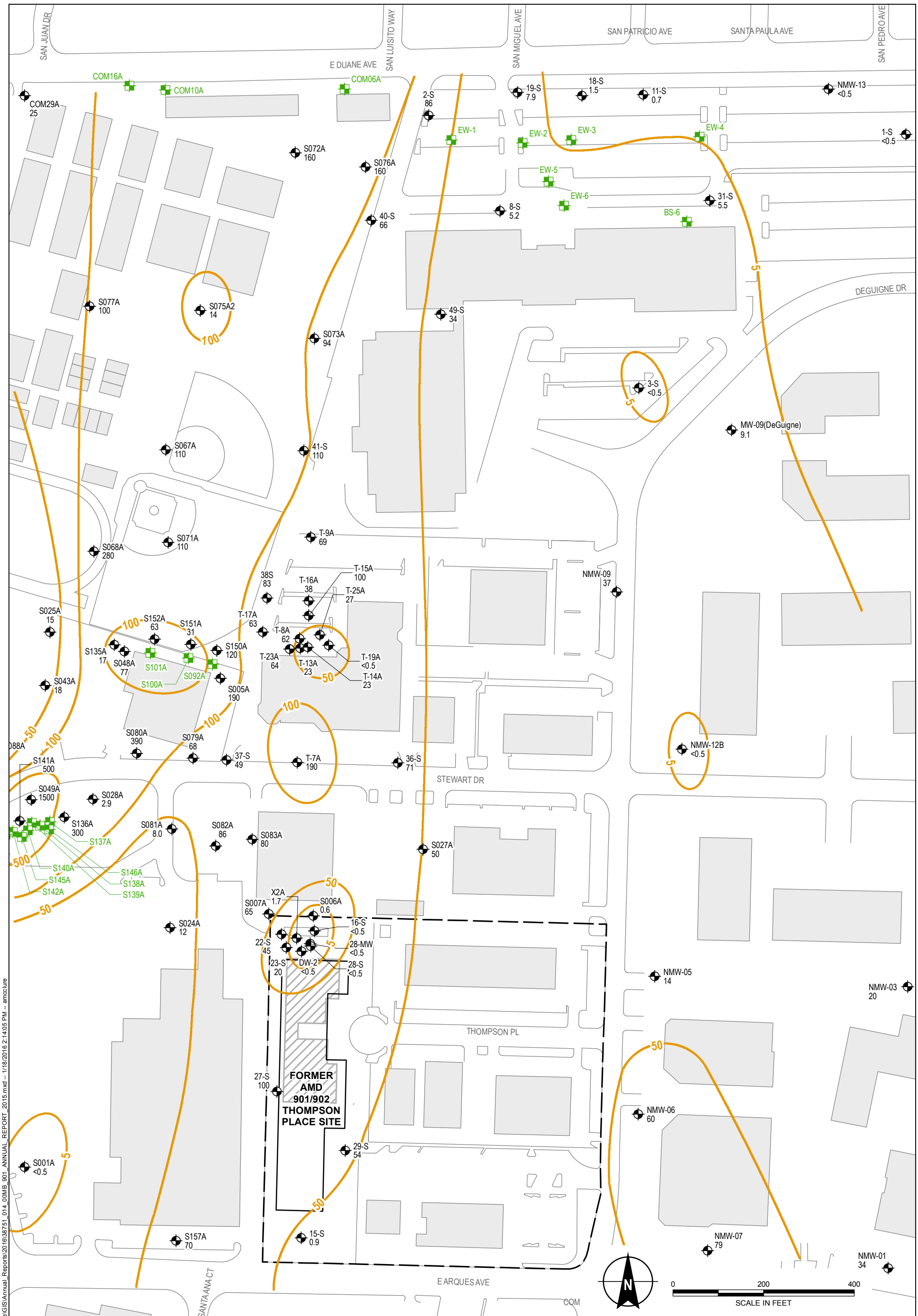

MONITORING WELL

EXTRACTION WELL

TCE CONCENTRATION CONTOUR

SITE BOUNDARY

CURRENT ON-SITE BUILDING

FORMER 901/902 THOMPSON PLACE

OTHER BUILDING

NOTES

1. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA, PREVIOUS SITE-INVESTIGATION DATA, AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.
2. CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER (µg/L).
3. EW-1 THROUGH EW-6 ARE SCREENED ACROSS BOTH THE A AND B1 ZONES.
4. TCE = TRICHLOROETHENE
5. < = NOT DETECTED ABOVE THE LABRATORY REPORTING LIMIT SHOWN

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FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

A-ZONE TCE CONTOURS
OCTOBER 2015

JANUARY 2016

FIGURE 6

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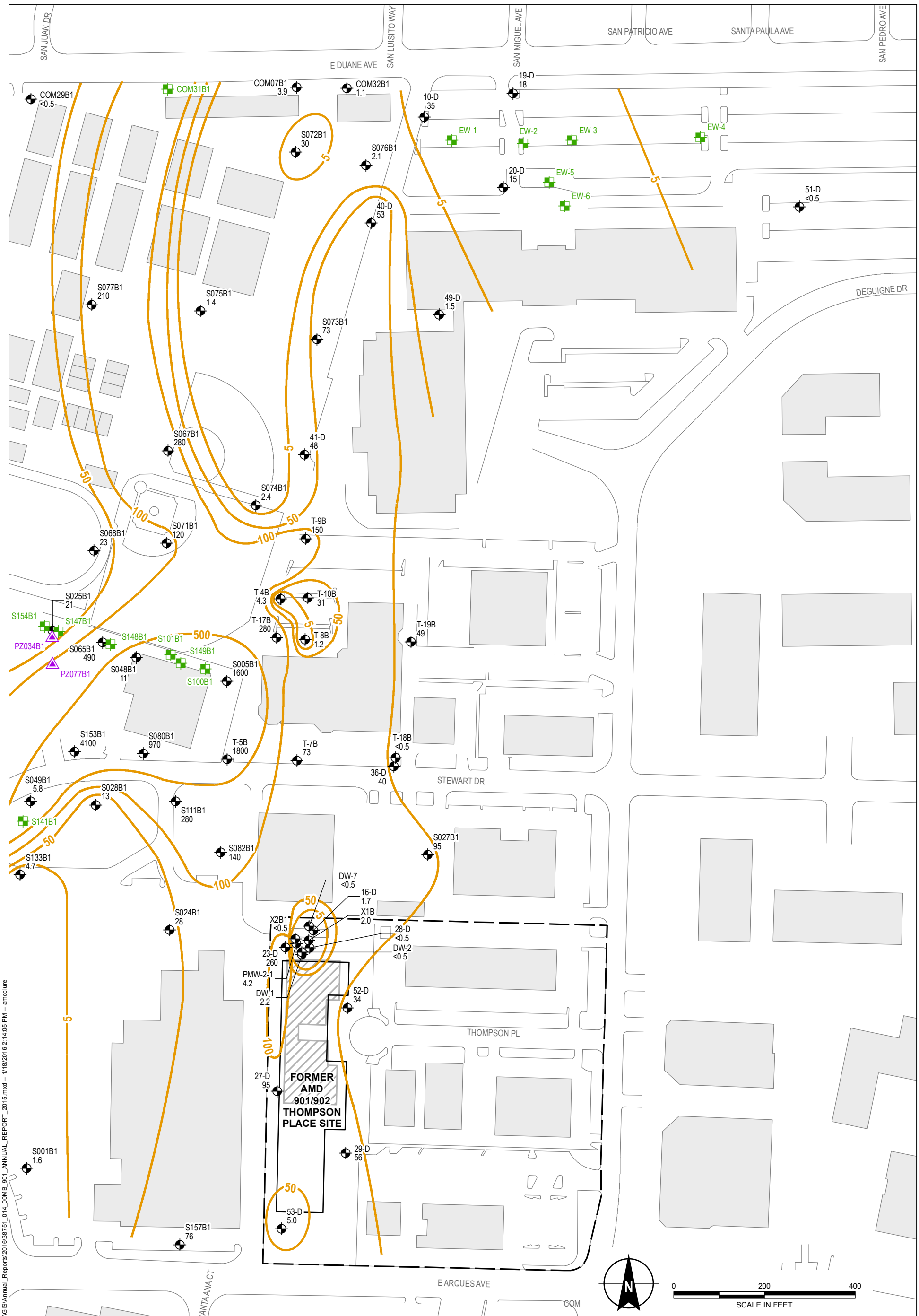

MONITORING WELL

EXTRACTION WELL

PIEZOMETER

TCE CONCENTRATION CONTOUR

SITE BOUNDARY

CURRENT ON-SITE BUILDING

FORMER 901/902 THOMPSON PLACE

OTHER BUILDING

NOTES

1. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA, PREVIOUS SITE-INVESTIGATION DATA, AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.
2. CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER (µg/L).
3. EW-1 THROUGH EW-6 ARE SCREENED ACROSS BOTH THE A AND B1 ZONES.
4. TCE = TRICHLOROETHENE
5. < = NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT SHOWN

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FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

B1-ZONE TCE CONTOURS
OCTOBER 2015

JANUARY 2016

FIGURE 7

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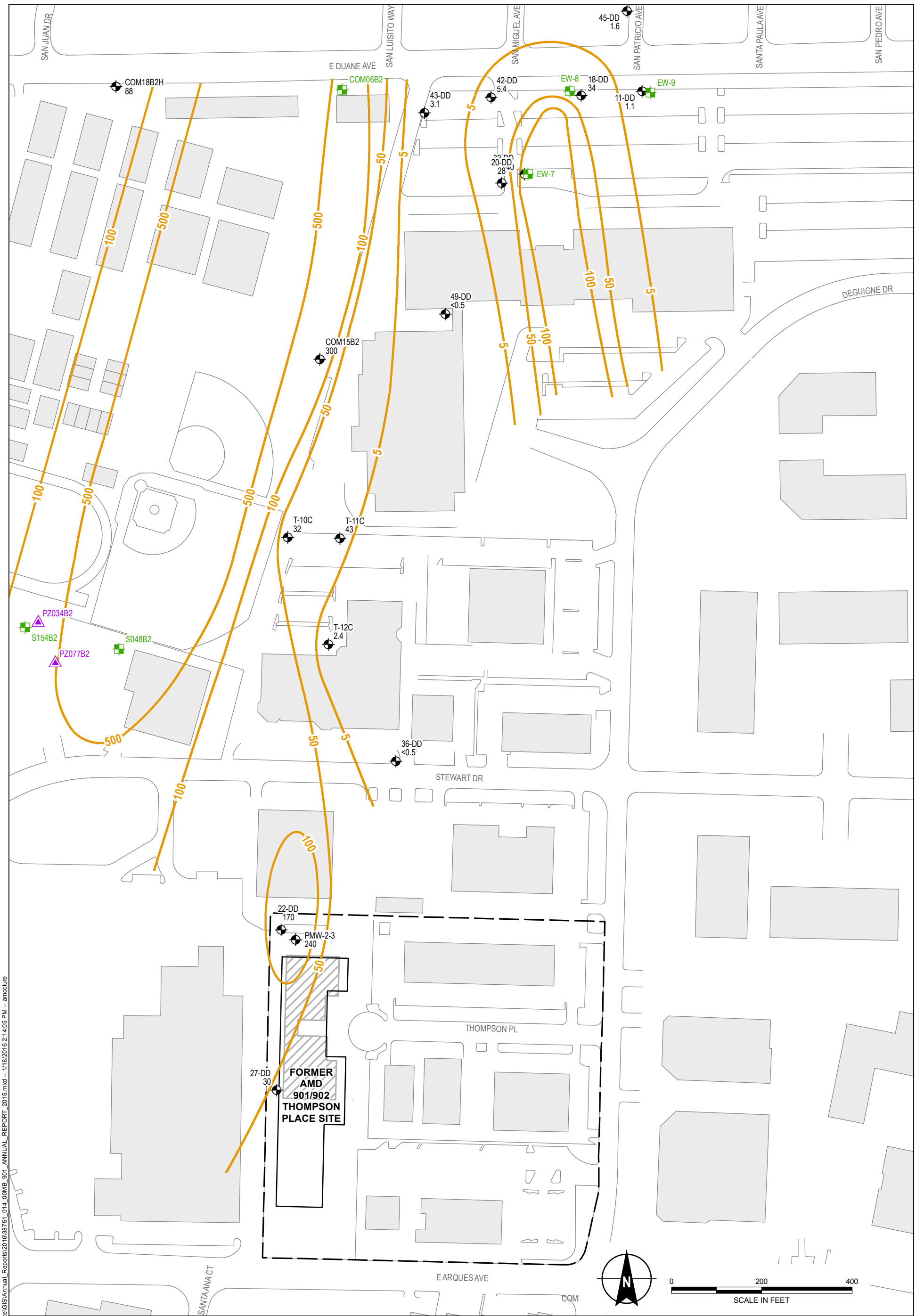

MONITORING WELL
EXTRACTION WELL
PIEZOMETER
TCE CONCENTRATION CONTOUR
SITE BOUNDARY
CURRENT ON-SITE BUILDING
FORMER 901/902 THOMPSON PLACE
OTHER BUILDING

NOTES

1. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA, PREVIOUS SITE-INVESTIGATION DATA, AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.
2. CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER (µg/L).
3. CONCENTRATION OF TCE REPORTED FOR COM06B2, S154B2, AND S048B2 WERE 480, 110, AND 7,900 µg/L, RESPECTIVELY
4. TCE = TRICHLOROETHENE
5. < = NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT SHOWN

HALEY ALDRICH

FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

B2-ZONE TCE CONTOURS
OCTOBER 2015

JANUARY 2016

FIGURE 8

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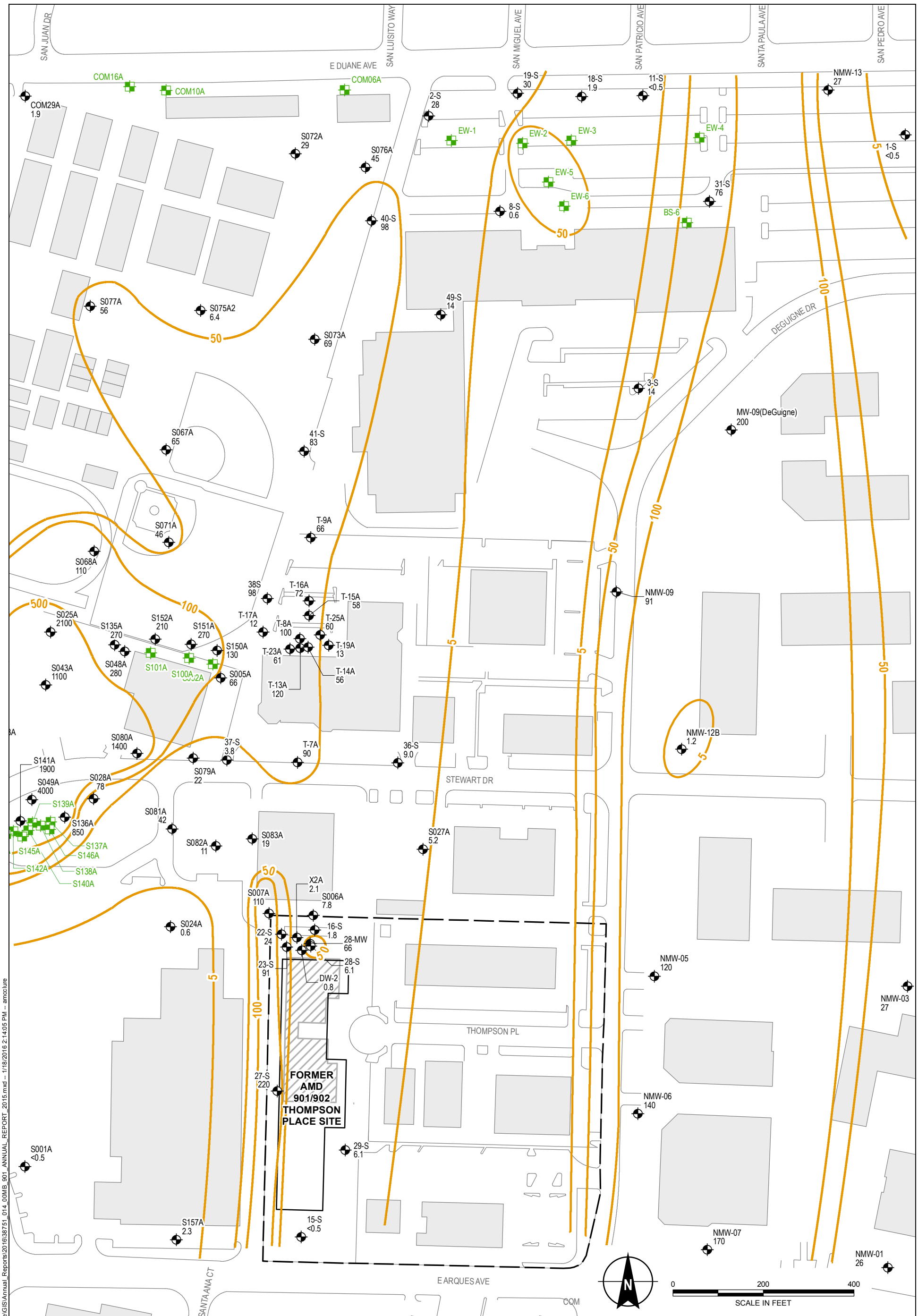

MONITORING WELL

EXTRACTION WELL

cDCE CONCENTRATION CONTOUR

SITE BOUNDARY

CURRENT ON-SITE BUILDING

FORMER 901/902 THOMPSON PLACE

OTHER BUILDING

NOTES

1. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA, PREVIOUS SITE-INVESTIGATION DATA, AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.
2. CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER (µg/L).
3. EW-1 THROUGH EW-6 ARE SCREENED ACROSS BOTH THE A AND B1 ZONES.
4. cDCE = CIS-1,2-DICHLOROETHENE
5. < = NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT SHOWN

HALEY ALDRICH

FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

A-ZONE cDCE CONTOURS
OCTOBER 2015

JANUARY 2016

FIGURE 9

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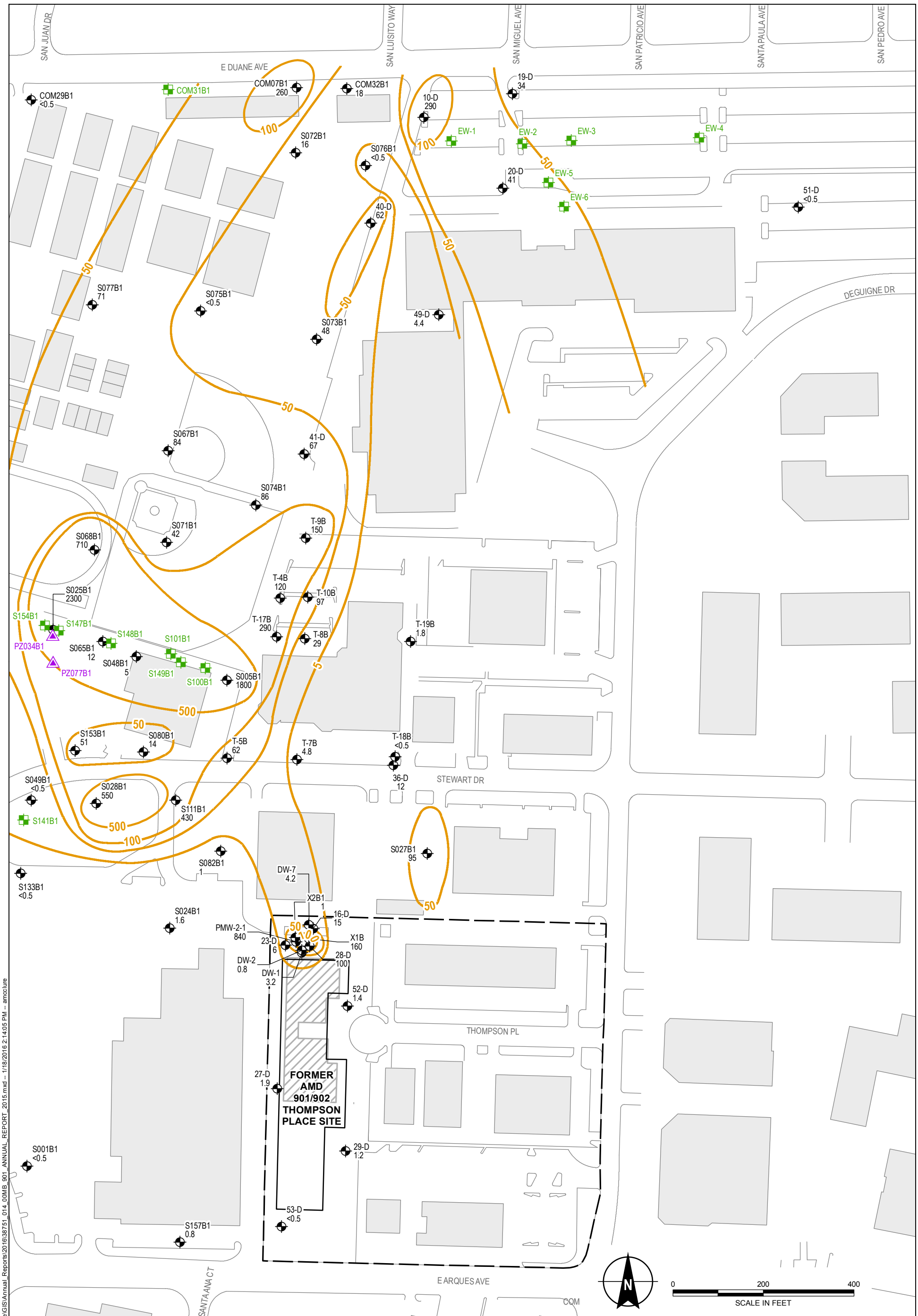

MONITORING WELL

EXTRACTION WELL

PIEZOMETER

cDCE CONCENTRATION CONTOUR

SITE BOUNDARY

CURRENT ON-SITE BUILDING

FORMER 901/902 THOMPSON PLACE

OTHER BUILDING

NOTES

1. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA, PREVIOUS SITE-INVESTIGATION DATA, AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.
2. CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER (µg/L).
3. EW-1 THROUGH EW-6 ARE SCREENED ACROSS BOTH THE A AND B1 ZONES.
4. cDCE = CIS-1,2-DICHLOROETHENE
5. < = NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT SHOWN

HALEY ALDRICH

FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

B1-ZONE cDCE CONTOURS
OCTOBER 2015

JANUARY 2016

FIGURE 10

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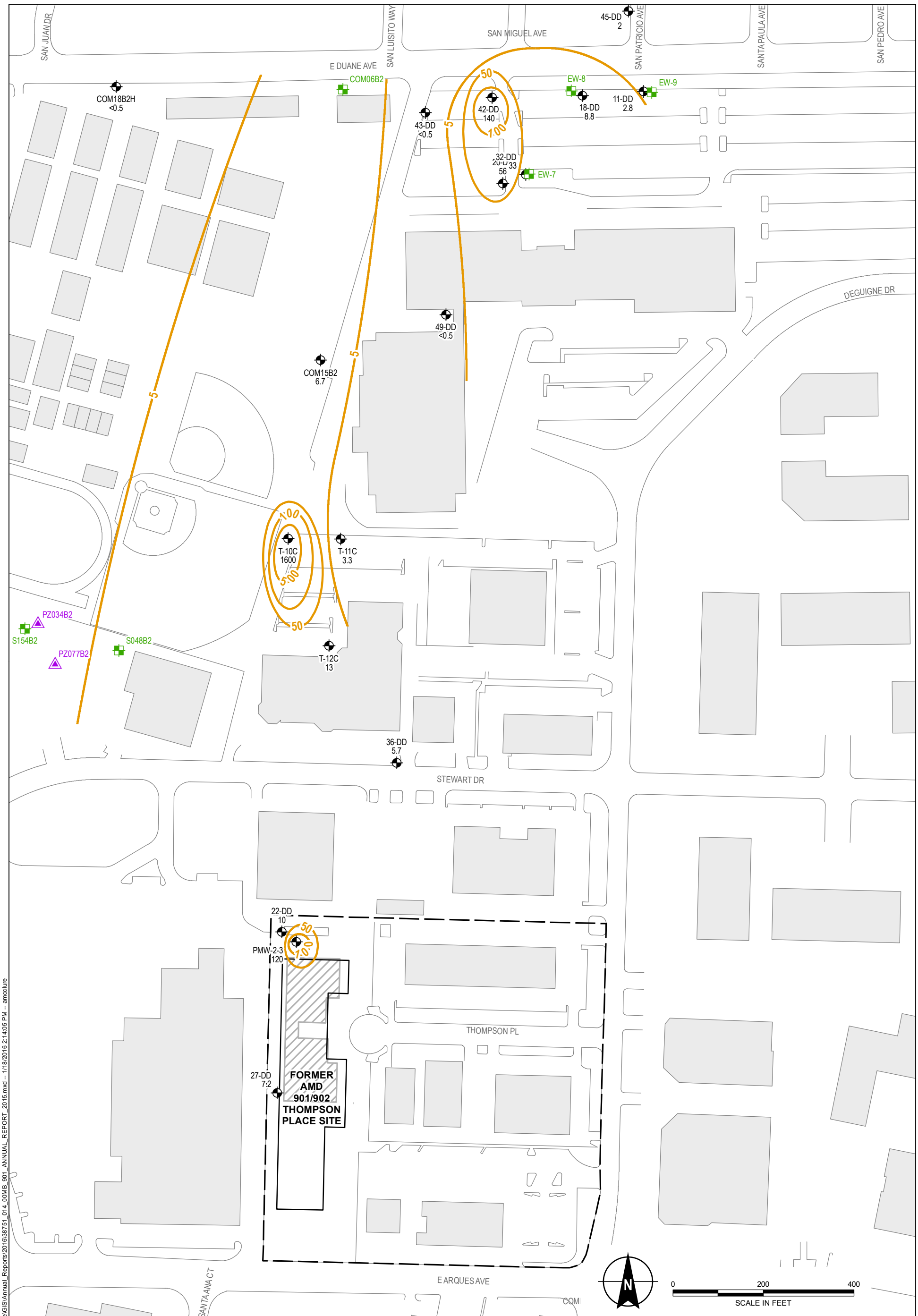


MONITORING WELL
EXTRACTION WELL
PIEZOMETER
cDCE CONCENTRATION CONTOUR

SITE BOUNDARY
CURRENT ON-SITE BUILDING
FORMER 901/902 THOMPSON PLACE
OTHER BUILDING

NOTES

1. CONTOURS ARE BASED ON INTERPRETATION OF MONITORING-WELL DATA, PREVIOUS SITE-INVESTIGATION DATA, AND CURRENT UNDERSTANDING OF HYDROGEOLOGIC CONDITIONS. THEY ARE PROVIDED FOR CLARITY AND ARE NOT INTENDED TO IMPLY CERTAINTY.
2. CONCENTRATIONS PRESENTED IN MICROGRAMS PER LITER (µg/L).
3. cDCE = CIS-1,2-DICHLOROETHENE
4. < = NOT DETECTED ABOVE THE LABORATORY REPORTING LIMIT SHOWN

HALEY ALDRICH

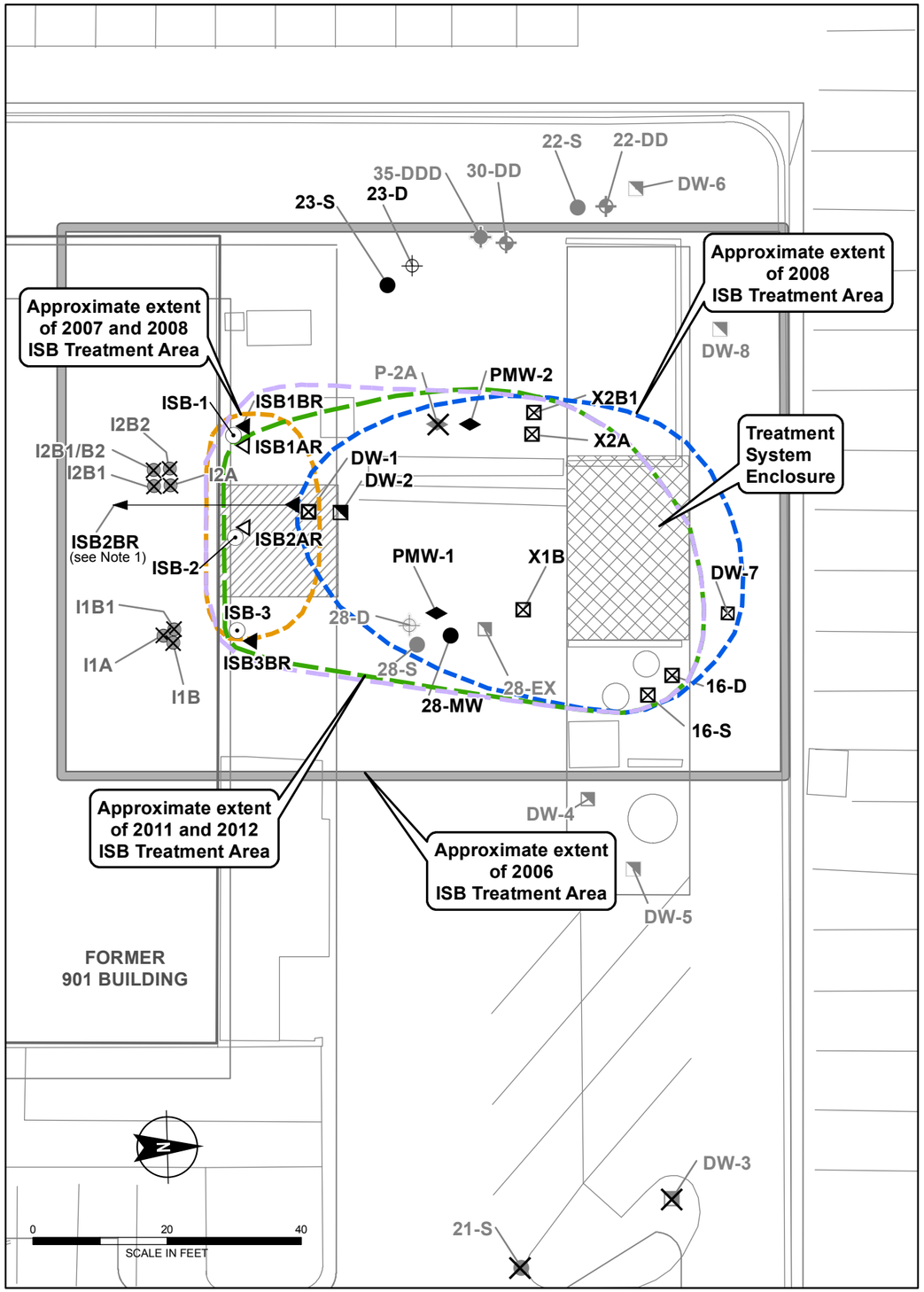
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

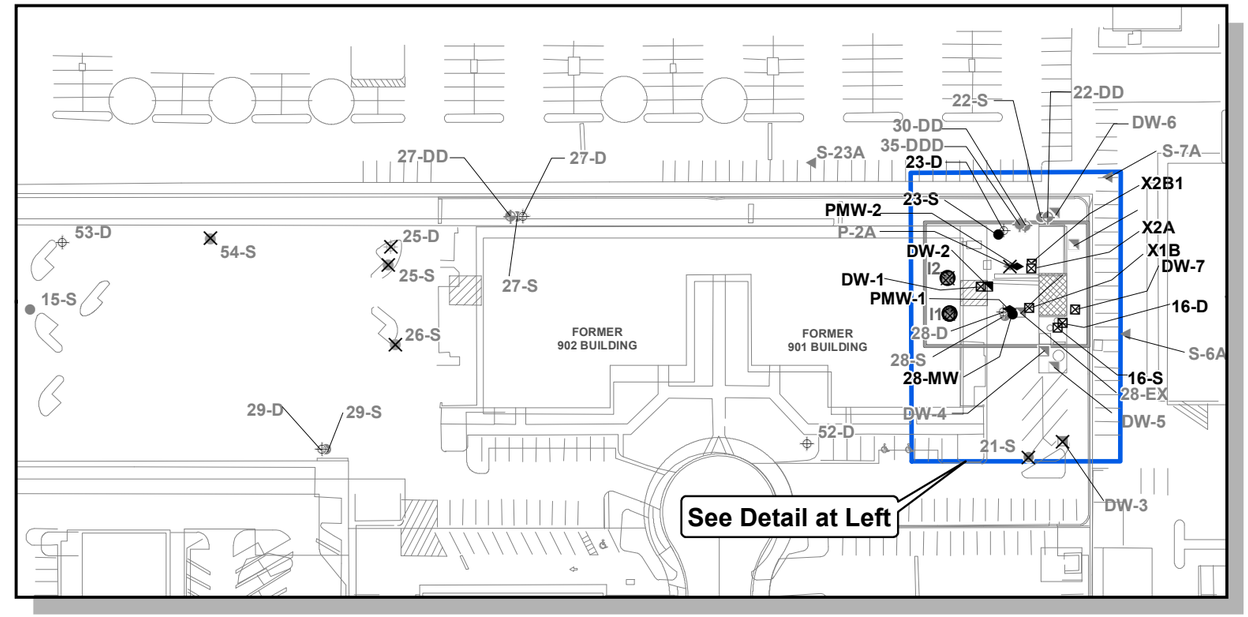
B2-ZONE cDCE CONTOURS
OCTOBER 2015

JANUARY 2016

FIGURE 11

G:\39751_AMD_Former 901-902 Thompson Place\GIS\Annual_Reports\2016\38751_014_00MB_901_ANNUAL_REPORT_2015.mxd -- 1/18/2016 2:14:05 PM -- amcclure





LEGEND

- EXTRACTION WELL
- A-ZONE MONITORING WELL
- B1-ZONE MONITORING WELL
- B2-ZONE MONITORING WELL
- B3-ZONE MONITORING WELL
- A-ZONE INJECTION WELL
- B-ZONE INJECTION WELL
- DESTROYED WELL
- PERFORMANCE MONITORING WELL (PMW-1, PMW-1, P-2A)
- IN SITU BIOREMEDIATION EXTRACTION WELL
- SOIL BORING AND DEPTH-DISCRETE GROUNDWATER SAMPLING LOCATION
- FORMER BUILDING BOUNDARIES
- FORMER POINT SOURCE LOCATION (NEUTRALIZATION AND STORAGE TANKS)

0 100 200
SCALE IN FEET

NOTES

1. ALL LOCATIONS AND DIMENSIONS ARE APPROXIMATE.
2. INJECTION WELL ISB2BR INSTALLED AT A 30-DEGREE ANGLE FROM VERTICAL WITH A BEARING TO THE SOUTH.
3. BASE MAP PROVIDED BY AMD.

HALEY ALDRICH

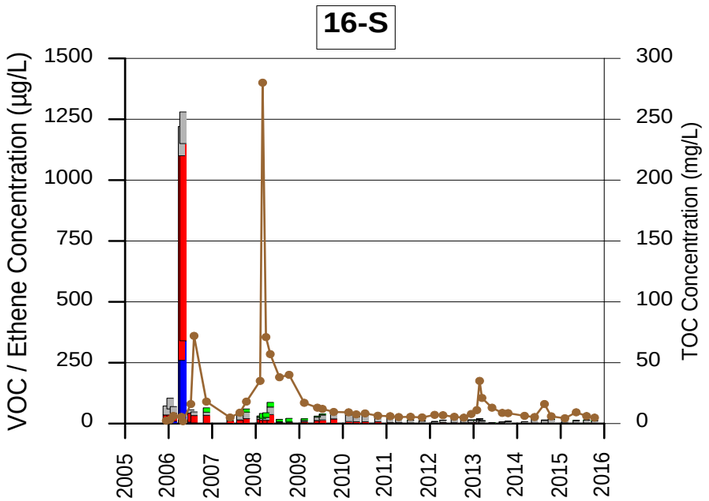
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

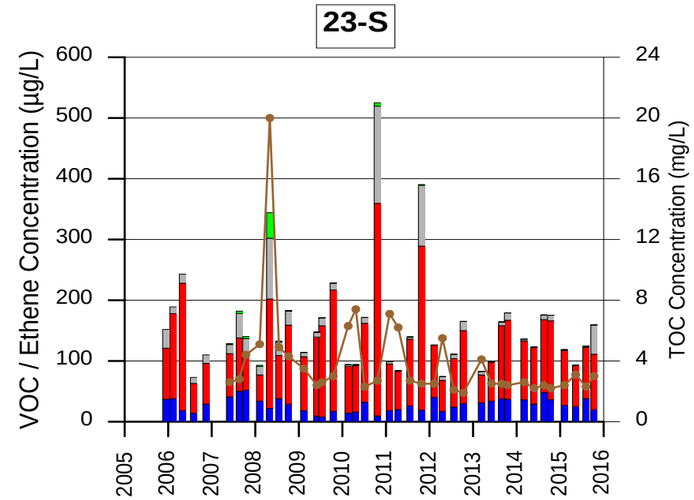
LAYOUT OF THE IN SITU BIOREMEDIATION PROGRAM

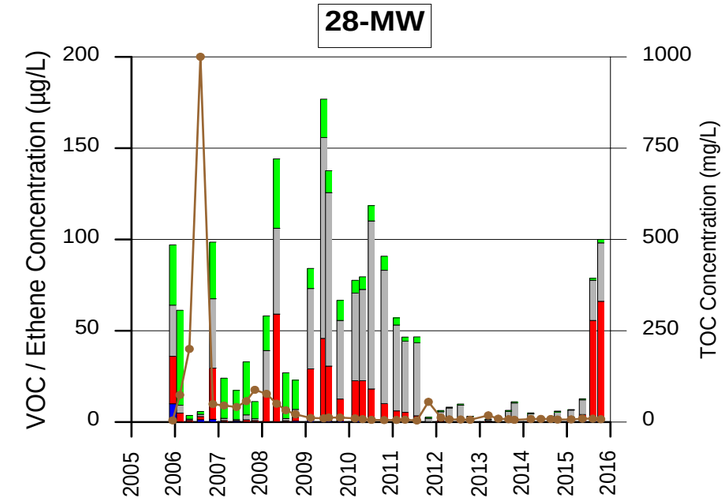
JANUARY 2016

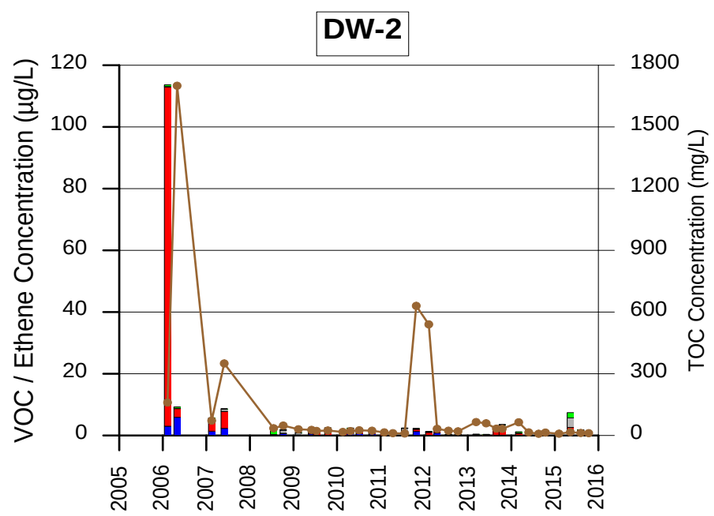
FIGURE 12

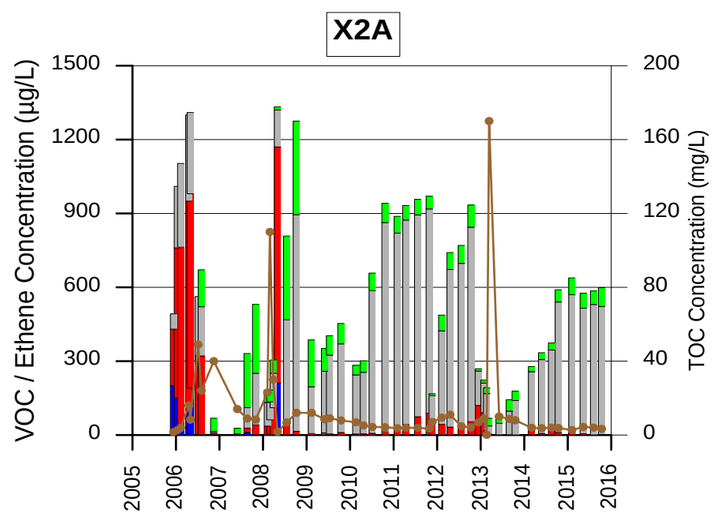
GIS FILE PATH: \\sdgl\common\39751_AMD_Former 901-902 Thompson Place\GIS\Figures\Figures_20131139751_AMD\Global\GIS\MapProjects\2016-01139751-003-0001-SitePlan.mxd — USER: amcclure — LAST SAVED: 1/18/2016 1:33:31 PM











EXPLANATION

- TCE
- cDCE
- VC
- Ethene
- TOC

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
TOC = total organic carbon
µg/L = micrograms per liter
mg/L = milligrams per liter
VOC = volatile organic compound

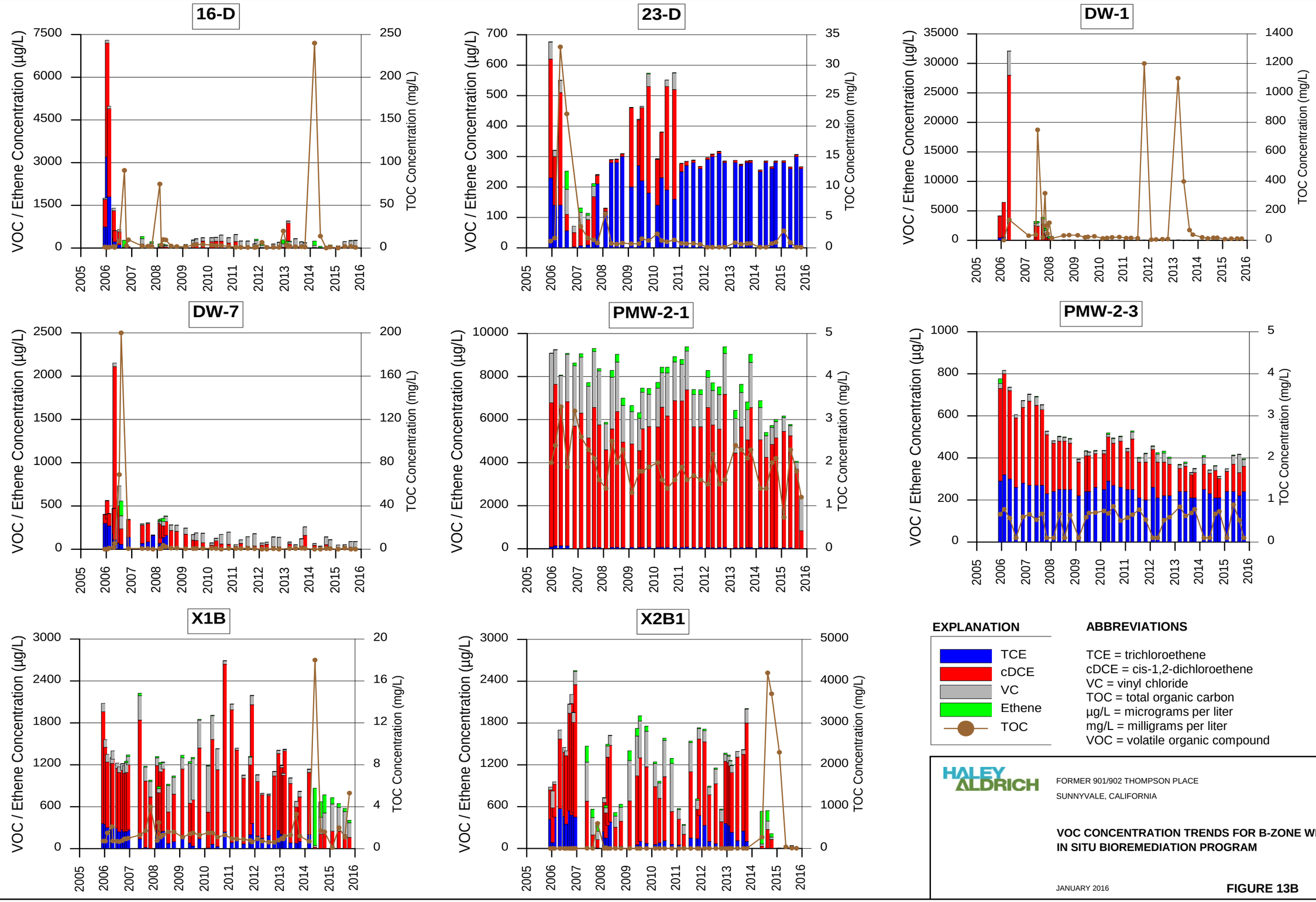
HALEY ALDRICH

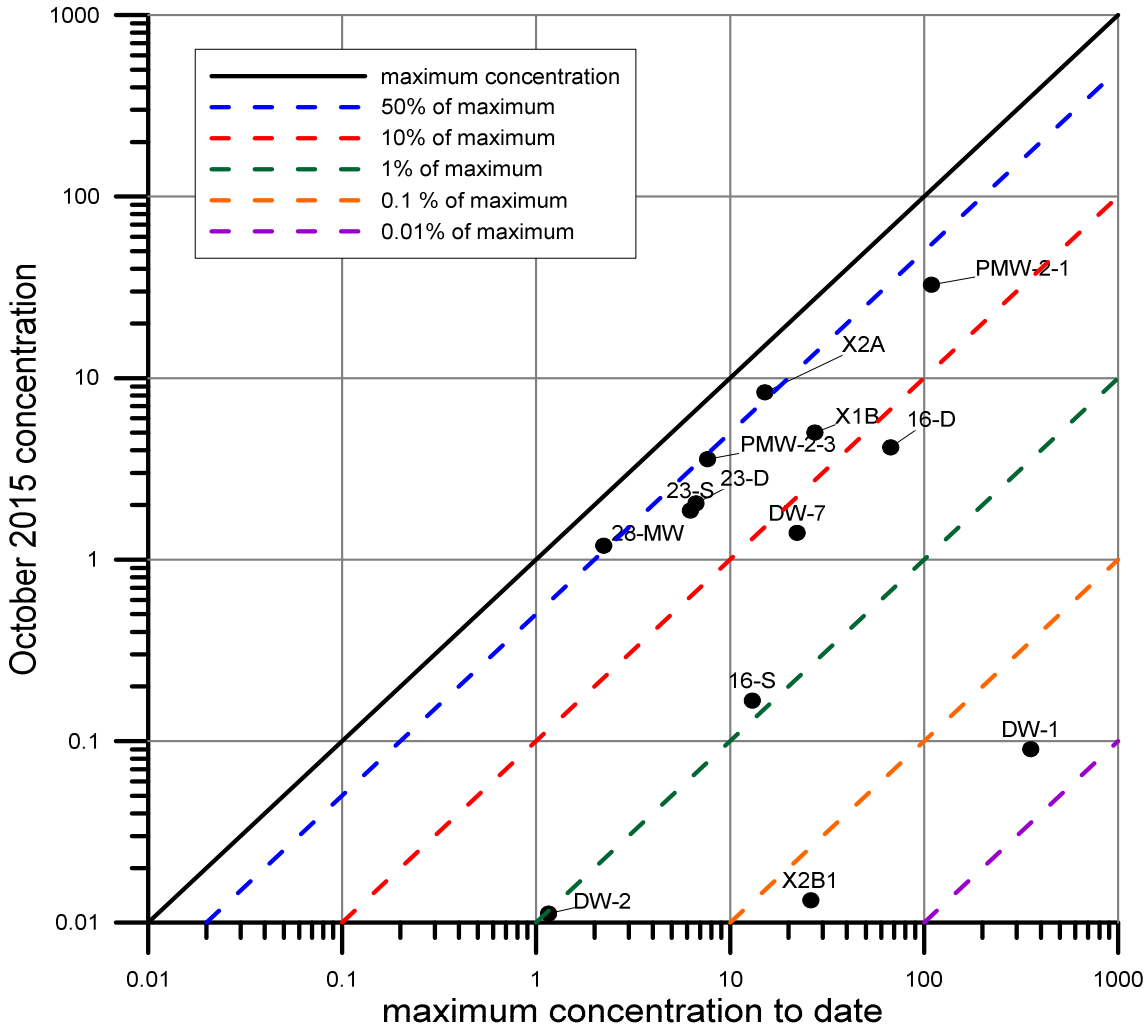
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

VOC CONCENTRATION TRENDS FOR A-ZONE WELLS IN SITU BIOREMEDIATION PROGRAM

JANUARY 2016

FIGURE 13A


16-D
23-D
DW-1
DW-7
PMW-2-1
PMW-2-3
X1B
X2B1
VOC / Ethene Concentration (µg/L)
TOC Concentration (mg/L)
EXPLANATION
TCE
cDCE
VC
Ethene
TOC
ABBREVIATIONS
TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
TOC = total organic carbon
µg/L = micrograms per liter
mg/L = milligrams per liter
VOC = volatile organic compound
HALEY ALDRICH
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA
VOC CONCENTRATION TRENDS FOR B-ZONE WELLS
IN SITU BIOREMEDIATION PROGRAM
JANUARY 2016
FIGURE 13B



NOTES:
1. Concentrations are the sum of TCE, cDCE, and VC, expressed in micromoles per liter.

ABBREVIATIONS:
TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride

HALEY ALDRICH

ADVANCED MICRO DEVICES, INC.
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

COMPARISON OF MOST RECENT AND HISTORICAL MAXIMUM CONCENTRATIONS

JANUARY 2016

FIGURE 14

APPENDIX A

Field Sampling Data Sheets and Photo Log of Sampling Procedures

Recording the liquid level.

Pumping three casing volumes of purge water from the well through a totalizer into a five-gallon bucket.

Recording the stabilization parameters on the field data sheet.

Dropping the Teflon bailer to collect samples.

Filling VOA vials from the Teflon bailer.

Checking VOA for bubbles.

Haley & Aldrich, Inc.

Filling out Chain-of-Custody after samples are placed in a cooler.

WELL GAUGING DATA

Project # 151012-BW1 Date 10/12/15 Client Haley + Aldrich

Site 901 Thompson Pl. Sunnyvale

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
37-S	0955	4					7.72	13.10		
36-S	1000	4					7.17	14.97		Roots
36-D	1005	4					7.11	20.15		
36-DD	1010	4					7.01	55.03		
29-S	1055	4					10.99	14.81		
29-D	1100	4					11.00	26.48		
15-S	1105	4					10.39	16.54		
53-D	1110	4					9.56	36.82		
27-S	1115	4					11.91	12.77		
27-D	1120	4					11.41	27.14		
27-DD	1125	4					10.74	52.55		
PMW-1-1	1130						10.71	26.52		
PMW-1-2	1135						10.63	32.15		
PMW-1-3	1140						10.91	38.92		
PMW-2-1	1145						10.31	27.51		
PMW-2-2	1150						10.38	37.45		
PMW-2-3	1155						10.03	48.17		

WELL GAUGING DATA

Project # 151012-BW1 Date 10/12/15 Client Haley + Aldrich

Site 901 Thompson Pl. Sunnyvale

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
DW-1	1200	12					10.32	38.77		
DW-2	1205	12					9.64	13.87		
16-S	1210	4					11.24	~~16~~ 17.09		
16-D	1215	4					11.08	38.75		
DW-7	1220	6					9.66	44.37		
52-D	1225	4					10.98	38.46		
28-MW	1045	2					10.77	16.43		
28-S	1050	4					11.23	15.94		
28-D	1055	4					10.99	23.72		
X1B	1100	2					10.35	29.03		
X2A	1105	2					11.02	20.50		
X2B1	1110	2					9.63	34.20		
23-S	1115	4					10.29	16.22		
23-D	1120	4					9.66	44.92		
35-DDD	1125	4					8.48	78.44		
22-S	1130	4					9.72	14.74		
22-DD	1135	4					9.03	43.65		

WELL MONITORING DATA SHEET

Project #: 151012-BLW1	Client: H+A
Sampler: BLW	Date: 10/13/15
Well I.D.: 35-DDD	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 78.44	Depth to Water (DTW): 8.48
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): (YSI) HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 22.47	

6926

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / X Electric Submersible @ 18.5' / Waterra / Peristaltic / Extraction Pump / Other ___

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ___

2.0 gpm

45.5 (Gals.) X 3 = 136.5 Gals.
1 Case Volume — Specified Volumes — Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	DO mg/L / ORP mV Observations	
1210	19.8	6.75	376	12	45.5	1.02 -241	Pump lowered to 60'
1223	19.7	6.72	379	7	91.0	0.97 -236	Pump lowered to bottom
1236	19.6	6.71	382	5	136.5	0.94 -231	

Did well dewater? Yes (No) Gallons actually evacuated: 136.5

Sampling Date: 10/13/15 Sampling Time: 1300 Depth to Water: 22.06

Sample I.D.: 35-DDD Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/13/15
Well I.D.: 15-S	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 16.54	Depth to Water (DTW): 10.39
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.62 (6.15)	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / X Electric Submersible @ 16' 1.0gpm / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

4.0 (Gals.) X 3 = 12.0 Gals.
1 Case Volume / Specified Volumes / Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	DO mg/L / ORP mV Observations
1605	22.3	6.80	1195	37	4.0	~~1.55~~ 1.15 -257
1609	22.3	6.79	1202	18	8.0	0.72 -263
1613	22.1	6.77	1215	12	12.0	0.68 -266

Did well dewater? Yes (No) Gallons actually evacuated: 12.0

Sampling Date: 10/13/15 Sampling Time: 1615 Depth to Water: 10.88

Sample I.D.: 15-S Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/13/15
Well I.D.: 53-D	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 36.82	Depth to Water (DTW): 9.56
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 27.26	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / ☒ Electric Submersible @ 20' 2.0 gpm / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: ☒ Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

17.7 (Gals.) X 3 = 53.1 Gals.
1 Case Volume / Specified Volumes / Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	DO mg/L	ORP mV Observations
1639	20.5	7.09	951	7	17.7	0.21	-297
1648	20.4	7.09	953	5	35.4	0.16	-301
1657	20.3	7.08	957	4	53.1	0.14	-300

Did well dewater? Yes (No) Gallons actually evacuated: 53.1

Sampling Date: 10/13/15 Sampling Time: 1700 Depth to Water:

Sample I.D.: 53-D Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): EB-1 @ Time 1720 Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/13/15
Well I.D.: 29-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 14.81	Depth to Water (DTW): 10.99
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.75 (3.82)	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / X Electric Submersible @ 14.5' @ 0.5 gpm / Waterra / Peristaltic / Extraction Pump / Other ___

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other: ___

2.5 (Gals.) X 3 = 7.5 Gals.
1 Case Volume — Specified Volumes — Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	DO mg/L ORP mV Observations
1505	23.3	6.85	1165	46	2.5	1.90 -220
1510	23.0	6.78	1165	12	5.0	1.81 -211
1515	22.9	6.80	1165	10	7.5	1.84 -196

Did well dewater? Yes (No) Gallons actually evacuated: 7.5

Sampling Date: 10/13/15 Sampling Time: 1520 Depth to Water: 11.12

Sample I.D.: 29-S Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/13/15
Well I.D.: 29-D	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 26.48	Depth to Water (DTW): 11.00
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.48 14.10	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / X Electric Submersible @ 21' 2.0 gpm / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: X Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

10.1 (Gals.) X 3 = 30.3 Gals.
1 Case Volume / Specified Volumes / Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or °C)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	DO mg/L	ORP mV
1535	21.3	6.90	1063	10	10.1	0.32	-278
1540	21.3	6.89	1068	7	20.2	0.42	-286
1545	21.3	6.88	1070	5	30.3	0.40	-288

Observations

Did well dewater? Yes (No) Gallons actually evacuated: 30.3

Sampling Date: 10/13/15 Sampling Time: 1550 Depth to Water: 11.38

Sample I.D.: 29-D Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

27.48

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 52-D	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 38.46	Depth to Water Pre: 10.98 Post: 11.04
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: X 2" Grundfos Pump Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other ___

1CV = 17.9 3CV = 53.7

Flow Rate: 20 gpm 80% = 16.48' Pump Depth: 21'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals or mL)	Observations
0818	20.8	6.86	961	10	0.49	-233	9.0	
0823	20.9	6.88	965	7	0.54	-256	17.9	
0827	20.9	6.90	973	6	0.46	-261	26.9	
0833	20.9	6.92	984	5	0.38	-267	35.8	
0837	20.9	6.91	986	5	0.36	-268	44.8	
0841	20.9	6.91	987	4	0.35	-267	53.7	

Did well dewater? Yes (No)	Amount actually evacuated: 53.7 gal
Sampling Time: 0845	Sampling Date: 10/14/15
Sample I.D.: 52-D	Laboratory: C+T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H + A
Sampler: BW	Date: 10/13/15
Well I.D.: 27-D	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth (TD): 27.14	Depth to Water (DTW): 11.41
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 15.75 14.56	

Purge Method: Bailer / Disposable Bailer / Positive Air Displacement / (Electric Submersible) @ 21.5' 1.0 gpm / Waterra / Peristaltic / Extraction Pump / Other_____

Sampling Method: (X) Bailer / Disposable Bailer / Extraction Port / Dedicated Tubing / Other:

10.2 (Gals.) X 3 = 30.6 Gals.
1 Case Volume — Specified Volumes — Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F or (°C))	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	DO mg/L	ORP mV Observations
1415	20.4	6.86	1070	18	10.2	0.22	-262
1425	20.4	6.86	1071	10	20.4	0.35	-274
1435	20.4	6.86	1071	7	30.6	0.38	-276

Did well dewater? Yes (No) Gallons actually evacuated: 30.6

Sampling Date: 10/13/15 Sampling Time: 1440 Depth to Water:

Sample I.D.: 27-D Laboratory: Kiff CalScience Other C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: See COC

EB I.D. (if applicable): @ Time Duplicate I.D. (if applicable): 1-D @ 1445

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

WELL MONITORING DATA SHEET

48.02

Project #: 151012-BW	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 36-DD	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 55.03	Depth to Water Pre: 7.01 Post:
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: X 2" Grundfos Pump Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing New Tubing Other Bailer

Flow Rate: 3.0 gpm Pump Depth: 17'

Time	Temp. (°C or °F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed ((gals) or mL)	Observations
1007	21.0	7.07	940	11	0.05	-220	15.1	lower pump to 30'
1012	21.4	7.18	943	8	0.04	-215	31.2	lower pump to 54'
1017	21.5	7.20	945	7	0.10	-207	46.7	
	* Dewatered @ 48.0 gallons							
1035	21.8	7.26	971	41	0.61	-214	—	

Did well dewater? (Yes) No	Amount actually evacuated: 48.0
Sampling Time: 1035	Sampling Date: 10/14/15
Sample I.D.: 36-DD	Laboratory: CT
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET 13.04

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 36-D	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 20.15	Depth to Water Pre: 7.11 Post: 7.26
Depth to Free Product: —	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: X 2" Grundfos Pump 1CV = 8.5 Peristaltic Pump Bladder Pump
Sampling Method: X Dedicated Tubing 3CV = 25.5 New Tubing Other ___
Flow Rate: ~~2.0~~ 2.0 gpm 80% = 9.72 Pump Depth: 17'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
0924	22.6	6.87	1184	12	0.52	-219	~~8.5~~ 4.0	
0928	22.7	6.84	1185	10	0.43	-217	8.5	
0932	22.6	6.84	1185	9	0.42	-218	12.5	
0936	22.6	6.84	1186	8	0.40	-219	17.0	
0940	22.5	6.83	1185	7	0.36	-219	21.0	
0945	22.5	6.83	1185	7	0.35	-220	25.5	

Did well dewater? Yes (No)	Amount actually evacuated: 25.5 gal
Sampling Time: 0950	Sampling Date: 10/14/15
Sample I.D.: 36-D	Laboratory: CT
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET

7.80

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 36-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.97	Depth to Water Pre: 7.17 Post: 7.29
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: X 2" Grundfos Pump 1CV = 5.1gal Peristaltic Pump Bladder Pump
Sampling Method: X Dedicated Tubing 3CV = 15.3gal New Tubing Other ___

Flow Rate: 1.0 gpm 80% = 8.73 Pump Depth: 14'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1044	23.2	6.84	1193	18	0.20	-221	2.5	
1046	23.8	6.79	1204	12	0.37	-209	5.1	
1048	23.9	6.78	1202	10	0.40	-211	7.6	
1050	23.9	6.80	1205	9	0.39	-218	10.2	
1053	23.9	6.81	1206	7	0.35	-217	12.7	
1055	23.9	6.81	1207	6	0.32	-213	15.3	

Did well dewater? Yes (No) Amount actually evacuated: 15.3 gal

Sampling Time: 1100 Sampling Date: 10/14/15

Sample I.D.: 36-S Laboratory: C+T

Analyzed for: TPH-G BTEX MTBE TPH-D Other:

Equipment Blank I.D.: @ Time Duplicate I.D.:

WELL MONITORING DATA SHEET 5.38

Project #: 151012-BW	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 37-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 13.10	Depth to Water Pre: 7.72 Post:
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: ☒ 2" Grundfos Pump 80% = 8.80 Peristaltic Pump Bladder Pump
Sampling Method: ☒ Dedicated Tubing New Tubing Other ___

Flow Rate: 1.0 gpm 1 CV = 3.5 gal 3 CV = 10.5 gal Pump Depth: 12.5

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
0854	23.3	6.74	1184	62	0.78	-171	1.7	
0856	23.5	6.76	1185	15	0.77	-175	3.5	
0858	23.6	6.78	1186	10	0.76	-177	5.2	
0900	23.7	6.80	1187	7	0.74	-179	7.0	
0902	23.8	6.81	1188	8	0.73	-180	8.7	
0905	23.8	6.81	1189	7	0.72	-181	10.5	

Did well dewater? Yes (No)	Amount actually evacuated: 10.5 gal
Sampling Time: 0910	Sampling Date: 10/14/15
Sample I.D.: 37-S	Laboratory: C+T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET 12.73

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 28-D	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 23.72	Depth to Water Pre: 10.99 Post: 11.14
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: X 2" Grundfos Pump 1 CV = 8.3 gal Peristaltic Pump Bladder Pump
Sampling Method: X Dedicated Tubing 3 CV = 24.9 gal New Tubing Other ___
Flow Rate: 2.0 gpm 80% = 13.54 Pump Depth: 21'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1148	19.4	6.62	1449	386	0.42	-188	4.1	
1150	19.7	6.37	1399	146	0.40	-188	8.3	
1152	19.6	6.37	1387	36	0.28	-190	12.4	
1154	19.6	6.39	1376	20	0.22	-191	16.6	
1156	19.6	6.41	1369	15	0.20	-193	20.7	
1159	19.7	6.43	1366	12	0.18	-194	24.9	

Did well dewater? Yes (No)	Amount actually evacuated: 24.9
Sampling Time: 1200	Sampling Date: 10/14/15
Sample I.D.: 28-D	Laboratory: C+T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET 41.81

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 27-DD	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 52.55	Depth to Water Pre: 10.74 Post: 17.48
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: X2" Grundfos Pump 1cV = 27.2 gal Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing 3cV = 81.6 gal New Tubing Other Bailer
Flow Rate: 2.0 gpm 80% = 19.10 Pump Depth: 21'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1435	20.8	7.14	754	681	0.21	-298	14.0	
1442	20.7	7.13	752	214	0.19	-295	27.2	
1449	20.7	7.13	744	188	0.16	-285	41.2	
1456	20.7	7.13	734	174	0.15	-287	54.4	
1503	20.6	7.14	728	141	0.14	-285	68.4	
1509	20.6	7.15	721	136	0.14	-281	81.6	

Did well dewater? Yes (No)	Amount actually evacuated: 81.6 gal
Sampling Time: 1510	Sampling Date: 10/14/15
Sample I.D.: 27-DD	Laboratory: C+T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: EB-2 @ Time 1515	Duplicate I.D.:

WELL MONITORING DATA SHEET

4.71

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 28-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 15.94	Depth to Water Pre: 11.23 Post: 11.47
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: 437 Pro Plus

Purge Method: X 2" Grundfos Pump 1cV = 3.1 Peristaltic Pump Bladder Pump
Sampling Method: X Dedicated Tubing 3cV = 9.3 New Tubing Other ___
Flow Rate: 1.0 gpm 80% = 12.17 Pump Depth: 15'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals or mL)	Observations
1212	20.0	6.67	1226	16	0.52	-194	1.6	
1214	20.0	6.67	1221	10	0.16	-196	3.1	
1215	19.9	6.65	1222	9	0.11	-197	4.7	
1217	19.9	6.67	1223	8	0.11	-196	6.2	
1219	19.9	6.67	1223	7	0.10	-197	7.8	
1221	19.9	6.67	1225	6	0.09	-196	9.3	

Did well dewater? Yes (No)	Amount actually evacuated: 9.3
Sampling Time: 1225	Sampling Date: 10/14/15
Sample I.D.: 28-S	Laboratory: C+T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET

5.02

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 22-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 14.74	Depth to Water Pre: 9.72 Post: 10.64
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: X 2" Grundfos Pump 1cV = 3.3gal Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing 3cV = 9.9gal New Tubing Other ___
Flow Rate: 180 gpm 80% = 10.72 Pump Depth: 14'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1330	20.8	6.76	1335	>1000	0.42	-189	1.5	
1332	20.6	6.74	1339	>1000	0.40	-190	3.3	
1334	20.5	6.70	1340	>1000	0.39	-184	4.8	
1336	20.5	6.67	1341	>1000	0.44	-186	6.6	
* Dewatered @ 7.0 gallons								
1345	20.7	6.71	1339	141	0.63	-181	—	

Did well dewater? (Yes) No	Amount actually evacuated: 7.0 gal
Sampling Time: 1345	Sampling Date: 10/14/15
Sample I.D.: 22-S	Laboratory: C+T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET 34.62

Project #: 151012-BW1	Client: H+A
Sampler: BW	Date: 10/14/15
Well I.D.: 22-DD	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 43.65	Depth to Water Pre: 9.03 Post: 12.71
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: 837 Pro Plus

Purge Method: 2" Grundfos Pump
Sampling Method: Dedicated Tubing

1CV = 22.5 gal
3CV = 67.5 gal
80% = 15.75

Peristaltic Pump
New Tubing

Bladder Pump
Other ___

Flow Rate: 3.0 gpm

Pump Depth: 19'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1252	19.8	7.09	930	8	0.06	-139	11.0	
1256	20.3	7.10	933	12	0.04	-184	22.5	
1300	20.3	7.10	933	16	0.05	-191	33.5	
1304	20.4	7.10	932	14	0.04	-196	45.0	
1308	20.4	7.11	934	17	0.05	-194	56.0	
1313	20.5	7.11	935	16	0.05	-195	67.5	

Did well dewater? Yes (No)	Amount actually evacuated: 67.5 gal
Sampling Time: 1315	Sampling Date: 10/14/15
Sample I.D.: 22-DD	Laboratory: C+T
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW/JC	Date: 10/14/15
Well I.D.: 27-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 12.77	Depth to Water Pre: 11.91 Post:
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump 1CV = 0.6gal Peristaltic Pump Bladder Pump Bailer
Sampling Method: Dedicated Tubing 3CV = 1.8gal New Tubing Other Bailer
Flow Rate: _____ 80% 12.08 Pump Depth: _____

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	Observations
1329	21.6	7.06	1329	>1000	2.14	-1	0.6	
* Dewatered @ 0.6 gallons								
1400	21.8	7.08	1315	>1000	2.04	-6	—	

Did well dewater? (Yes) No Amount actually evacuated: 0.6 gal
Sampling Time: 27-S Sampling Date: 10/14/15
Sample I.D.: 1400 Laboratory: CT
Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC
Equipment Blank I.D.: @ Time Duplicate I.D.: 2-D @ 1405

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/12/15
Well I.D.: DW-2	Well Diameter: 2 3 4 6 8 12
Total Well Depth: 13.87	Depth to Water Pre: 9.64 Post: 9.64
Depth to Free Product:	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other _____

Flow Rate: 200ml/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1425	20.9	6.63	1825	12	0.16	-152	600	9.64
1428	20.7	6.62	1750	10	0.19	-159	1200	9.64
1431	20.5	6.58	1630	7	0.18	-161	1800	9.64
1434	20.4	6.57	1615	6	0.17	-162	2400	9.64
1437	20.4	6.56	1607	5	0.18	-163	3000	9.64

Did well dewater? Yes No	Amount actually evacuated: 3000ml
Sampling Time: 1440	Sampling Date: 10/12/15
Sample I.D.: DW-2	Laboratory: C+T / Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/12/15
Well I.D.: 16-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 17.09	Depth to Water Pre: 11.24 Post: 11.32
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other ___

Flow Rate: 200ml/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1358	21.8	6.40	1451	9	0.41	-111	600	11.28
1401	21.7	6.39	1451	7	0.35	-113	1200	11.29
1404	21.8	6.38	1450	5	0.32	-115	1800	11.30
1407	21.6	6.40	1450	5	0.29	-116	2400	11.31
1410	21.7	6.40	1451	4	0.28	-117	3000	11.32

Did well dewater? Yes (No)	Amount actually evacuated: 3000ml
Sampling Time: 1415	Sampling Date: 10/12/15
Sample I.D.: 16-S	Laboratory: C+T / Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/12/15
Well I.D.: 23-S	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 16.22	Depth to Water Pre: 10.29 Post: 10.35
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump ✗ Peristaltic Pump Bladder Pump

Sampling Method: ✗ Dedicated Tubing New Tubing Other ___

Flow Rate: 200ml/min Pump Depth: 12'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1531	22.5	6.81	1594	7	0.38	-192	600	10.32
1534	22.5	6.79	1541	6	0.36	-197	1200	10.33
1537	22.1	6.78	1482	5	0.32	-192	1800	10.34
1540	22.2	6.76	1465	4	0.31	-190	2400	10.35
1543	22.1	6.75	1459	4	0.30	-188	3000	10.35

Did well dewater? Yes (No)	Amount actually evacuated: 3000ml
Sampling Time: 1550	Sampling Date: 10/12/15
Sample I.D.: 23-S	Laboratory: C+T / Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 150012-BW1	Client: H+A
Sampler: BW	Start Date: 10/12/15
Well I.D.: 28-MW	Well Diameter: (2) 3 (4) 6 8 ___
Total Well Depth: 16.43	Depth to Water Pre: 10.77 Post: 10.83
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing X New Tubing Other ___

Flow Rate: 200 ml/min Pump Depth: 13'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1327	24.2	6.64	1529	3.	0.60	-95	600	10.80
1330	22.5	6.37	1544	3	0.42	-97	1200	10.81
1333	20.1	6.33	1463	4	0.39	-105	1800	10.82
1336	20.0	6.34	1463	5	0.37	-105	2400	10.82
1339	20.0	6.34	1462	5	0.36	-106	3000	10.83

Did well dewater? Yes (No)	Amount actually evacuated: 3000 ml
Sampling Time: 1340	Sampling Date: 10/12/15
Sample I.D.: 28-MW	Laboratory: CT / Microseps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.: DUP-1 @ 1345 / MS/MSD

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/12/15
Well I.D.: X2A	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 20.50	Depth to Water Pre: 11.02 Post: 11.18
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump ✗ Peristaltic Pump Bladder Pump

Sampling Method: ✗ Dedicated Tubing New Tubing Other ___

Flow Rate: 200 ml/min Pump Depth: 14'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1456	21.8	6.72	1730	12	0.42	-112	600	11.12
1459	22.1	6.67	1838	9	0.37	-112	1200	11.15
1502	22.0	6.65	1850	7	0.35	-112	1800	11.16
1505	21.9	6.65	1849	5	0.34	-112	2400	11.17
1508	21.8	6.65	1847	4	0.33	-112	3000	11.18

Did well dewater? Yes (No)	Amount actually evacuated: 3000 ml
Sampling Time: 1510	Sampling Date: 10/12/15
Sample I.D.: X2A	Laboratory: C+T / Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/13/15
Well I.D.: PMW2-1	Well Diameter: 2 3 4 6 8 CMT
Total Well Depth: 27.51	Depth to Water Pre: 10.34 Post:
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: PVC Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump ✗ Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing ✗ New Tubing Other

Flow Rate: ~200ml/min Pump Depth: 27'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
0802	20.7	6.80	377	40	0.97	-200	600	—
0805	20.4	6.81	369	17	0.94	-191	1200	—
0808	20.2	6.83	370	10	0.93	-179	1800	—
0811	20.3	6.84	368	9	0.93	-177	2400	—
0814	20.1	6.84	367	7	0.94	-176	3000	—
								10.62 Post sample tubing removed

Did well dewater? Yes No Amount actually evacuated: 3000ml

Sampling Time: 0815 Sampling Date: 10/13/15

Sample I.D.: PMW-2-1 Laboratory: C+T / Microseeps

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/13/15
Well I.D.: PMW-2-3	Well Diameter: 2 3 4 6 8 CMT
Total Well Depth: 48.17	Depth to Water Pre: 10.03 Post: 10.27
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump ✗Peristaltic Pump Bladder Pump
Sampling Method: Dedicated Tubing ✗New Tubing Other

Flow Rate: 200ml/min Pump Depth: 47'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
0832	19.7	7.16	912	12	1.15	-240	600	—
0835	19.6	7.15	915	10	0.94	-237	1200	—
0838	19.6	7.14	920	7	0.91	-221	1800	—
0841	19.6	7.14	921	5	0.90	-220	2400	—
0844	19.6	7.12	922	4	0.89	-220	3000	—
								10.27 Post Sample tubing removed

Did well dewater? Yes (No) Amount actually evacuated: 3000ml

Sampling Time: 0850 Sampling Date: 10/13/15

Sample I.D.: PMW-2-3 Laboratory: CT / Microseeps

Analyzed for: TPH-G BTEX MTBE TPH-D Other: See COC

Equipment Blank I.D.: @ Time Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW	Client: H+A
Sampler: BW	Start Date: 10/13/15
Well I.D.: X1B	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 29.03	Depth to Water Pre: 10.35 Post: 10.41
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other ___

Flow Rate: 200 ml/min Pump Depth: 28'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
0910	20.1	6.96	1136	12	1.56	-257	600	10.38
0913	20.1	6.94	1137	10	0.91	-258	1200	10.39
0916	20.0	6.93	1139	9	0.88	-259	1800	10.40
0919	20.0	6.92	1138	7	0.87	-261	2400	10.40
0922	20.0	6.92	1137	6	0.85	-261	3000	10.41

Did well dewater? Yes (No)	Amount actually evacuated: 3000ml
Sampling Time: 0925	Sampling Date: 10/13/15
Sample I.D.: X1B	Laboratory: C+T / microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/13/15
Well I.D.: X2B1	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 34.20	Depth to Water Pre: 9.63 Post: 9.66
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other ___

Flow Rate: 200 ml/min Pump Depth: 31'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
0942	20.5	7.04	5112	10	0.67	-215	600	9.64
0945	20.5	7.04	5115	7	0.65	-216	1200	9.65
0948	20.6	7.05	5128	6	0.62	-217	1800	9.65
0951	20.6	7.06	5136	5	0.61	-219	2400	9.66
0954	20.6	7.05	5142	4	0.60	-219	3000	9.66

Did well dewater? Yes (No)	Amount actually evacuated: 3000ml
Sampling Time: 0955	Sampling Date: 10/13/15
Sample I.D.: X2B1	Laboratory: C+T / Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/13/15
Well I.D.: DW-1	Well Diameter: 2 3 4 6 8 (12)
Total Well Depth: 38.77	Depth to Water Pre: 10.32 Post: 10.36
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other _____

Flow Rate: 200mL/min Pump Depth: 35'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1043	20.5	6.81	1657	18	2.40	-179	600	10.36
1046	20.4	6.75	1661	12	2.36	-188	1200	10.36
1049	20.3	6.74	1663	10	1.31	-189	1800	10.36
1052	20.2	6.73	1665	9	1.30	-190	2400	10.36
1055	20.2	6.73	1667	8	1.29	-190	3000	10.36

Did well dewater? Yes (No)	Amount actually evacuated: 3000ml
Sampling Time: 1100	Sampling Date: 10/13/15
Sample I.D.: DW-1	Laboratory: C+T / Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H + A
Sampler: BW	Start Date: 10/13/15
Well I.D.: 16-D	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth: 38.75	Depth to Water Pre: 11.08 Post: 11.14
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other ____

Flow Rate: 200ml/min Pump Depth: 36'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1113	21.8	7.07	1187	13	0.91	-209	600	11.10
1116	21.8	7.06	1185	10	0.61	-198	1200	11.12
1119	21.9	7.04	1183	8	0.52	-191	1800	11.13
1122	21.9	7.04	1180	6	0.51	-190	2400	11.13
1125	21.9	7.05	1172	5	0.50	-190	3000	11.14

Did well dewater? Yes (No)	Amount actually evacuated: 3000 ml
Sampling Time: 1130	Sampling Date: 10/13/15
Sample I.D.: 16-D	Laboratory: C+T/Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/13/15
Well I.D.: DW-7	Well Diameter: 2 3 4 (6) 8 ~~2"~~
Total Well Depth: 44.37	Depth to Water Pre: 9.66 Post: 9.69
Depth to Free Product: –	Thickness of Free Product (feet): –
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump ✓ Peristaltic Pump Bladder Pump

Sampling Method: ✓ Dedicated Tubing New Tubing Other_____

Flow Rate: 200 ml/min Pump Depth: 40'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
0732	20.3	7.64	800	17	2.62	-169	600	9.69
0735	20.2	7.31	791	10	2.41	-160	1200	9.69
0738	20.1	7.26	790	6	2.31	-150	1800	9.69
0741	20.0	7.24	786	5	2.28	-147	2400	9.69
0744	20.0	7.22	784	5	2.27	-146	3000	9.69

Did well dewater? Yes (No)	Amount actually evacuated: 3000ml
Sampling Time: 0745	Sampling Date: 10/13/15
Sample I.D.: DW-7	Laboratory: C+T / Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

LOW FLOW WELL MONITORING DATA SHEET

Project #: 151012-BW1	Client: H+A
Sampler: BW	Start Date: 10/13/15
Well I.D.: 23-D	Well Diameter: 2 3 (4) 6 8 ___
Total Well Depth: 44.92	Depth to Water Pre: 9.66 Post: 9.72
Depth to Free Product: —	Thickness of Free Product (feet): —
Referenced to: (PVC) Grade	Flow Cell Type: YSI Pro Plus

Purge Method: 2" Grundfos Pump X Peristaltic Pump Bladder Pump

Sampling Method: X Dedicated Tubing New Tubing Other ___

Flow Rate: 200ml/min Pump Depth: 44'

Time	Temp. (°C or °F)	pH	Cond. (mS or µS)	Turbidity (NTUs)	D.O. (mg/L)	ORP (mV)	Water Removed (gals. or mL)	DTW / Observations
1013	21.0	7.33	1055	11	1.13	-181	600	9.68
1016	20.8	7.22	1004	7	0.90	-191	1200	9.70
1019	20.6	7.20	970	5	0.82	-198	1800	9.71
1022	20.5	7.18	963	4	0.83	-199	2400	9.72
1025	20.4	7.17	960	5	0.80	-198	3000	9.72

Did well dewater? Yes (No)	Amount actually evacuated: 3000ml
Sampling Time: 1030	Sampling Date: 10/13/15
Sample I.D.: 23-D	Laboratory: C+T/Microseeps
Analyzed for: TPH-G BTEX MTBE TPH-D	Other: See COC
Equipment Blank I.D.: @ Time	Duplicate I.D.:

WELLHEAD INSPECTION CHECKLIST

Client Haley + Aldrich Date 10/12/15

Site Address 901 Thompson Pl Sunnyvale

Job Number 151012-BW1 Technician BW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
37-S		2/2 Tabs Stripped						
36-S		Christy						
36-D		Christy						
36-DD		Christy						
29-S		Christy - Full of Dirt						
29-D		Christy						
15-S		Christy						
53-D		Christy						
27-S		Christy						
27-D		Christy						
27-DD		Christy						
PMW-1		2/2 Tabs Stripped						
PMW-2		2/2 Tabs Stripped						
DW-1		Vault - open						
DW-2		Vault - open						
16-S		No Box						

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client Haley + Aldrich Date 10/12/15

Site Address 901 Thompson Pl. Sunnyvale

Job Number 151012-BW1 Technician BW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
16-D		Christy						
DW-7		Vault - overgrown						
52-D		Christy						
28-MW		Casing too tall, 2/2 bolts missing						
28-S		2/2 Tabs Stripped						
28-D		2/2 Tabs Stripped						
X1B		No Box						
X2A		No Box						
X2B1		No Box						
23-S		Christy						
23-D		Christy						
35-DOD		Christy						
22-S		Christy						
22-D		Christy						

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client: Haley + Aldrich Date: 10/12/15

Site Address: 915 DeGuigne Sunnyvale

Job Number: 151012-BW1 Technician: BW

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
3-S		Christy						
41-S		Christy						
41-D		Christy						
49-S		Christy						
49-D		Christy						
49-DD		Christy						
40-S		Christy						
40-D		Christy						
8-S		Christy						
20-D		Christy						
20-DD		Christy						
32-DD		Christy						
31-S		Christy						
51-D		Christy						
1-S		Christy						
45-DD		Christy						
EW-3		Vault						

NOTES:

WELLHEAD INSPECTION CHECKLIST

Client: Haley & Aldrich Date: 10/12/15

Site Address: 901 Thompson Place & 915 Deguine

Job Number: Technician:

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
11-DD	X							
11-S	X							
18-DD	X							
18-S	X							
50-DDD	X							
19-S	X							
19-D	X							
42-DD	X							
43DD	X							
2-S	X							
10-D	X							
28-MW	X							
28-S	X							
28-D	X							
X1B	X							
X2A	X							

NOTES:

WELLHEAD INSPECTION CHECKLIST

Page _____ of _____

Client Haley & Aldrich Date 10/12/15

Site Address 901 Thompson Place & 915 DeGuine

Job Number _____ Technician _____

Well ID	Well Inspected - No Corrective Action Required	Water Bailed From Wellbox	Wellbox Components Cleaned	Cap Replaced	Lock Replaced	Other Action Taken (explain below)	Well Not Inspected (explain below)	Repair Order Submitted
X2B1	X							
23-5	X							
23-D	X							
35-DDD	X							
22-5	X							
2200	X							

NOTES: _____

TEST EQUIPMENT CALIBRATION LOG

PROJECT NAME 901 Thompson Pl. Sunnyvale				PROJECT NUMBER 151012-BM			
EQUIPMENT NAME	EQUIPMENT NUMBER	DATE/TIME OF TEST	STANDARDS USED	EQUIPMENT READING	CALIBRATED TO: OR WITHIN 10%:	TEMP.	INITIALS
YSI Pro Plus	14E100345	10/12/15 @ 0610	pH 7, 10, 4 Cond 3900 µS/cm	7.0, 10.0, 4.0 3900 µS/cm	ok	20.0°C	BM
↓	↓	10/12/15 @ 0615	DO 100% ORP	100% 237mV	ok	20.0°C	BM
		10/13/15 @ 0630	pH 7, 10, 4 Cond 3900 µS/cm	7.0, 10.0, 4.0 3900 µS/cm	ok	20.1°C	BM
		10/13/15 @ 0630	DO 100% ORP	100% 237mV	ok	20.0°C	BM
		10/14/15 @ 0625	pH 7, 10, 4 Cond 3900 µS/cm	7.0, 10.0, 4.0 3900 µS/cm	ok	20.2°C	BM
		10/14/15 @ 0630	DO 100% ORP	100% 237mV	ok	20.0°C	BM

APPENDIX B

Historical Groundwater Elevation Data

HISTORICAL GROUNDWATER ELEVATION DATA

FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Well ID	Jun-87	Aug-87	Nov-87	Mar-88	Jun-88	Sep-88	Dec-88	Mar-89	Jun-89	Oct-89	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	Apr-91	Jul-91	Oct-91	Jan-92	Apr-92	Jul-92	Oct-92	Jan-93	Apr-93	Jul-93	Aug-93	Sep-93	Oct-93	Jan-94	Apr-94
A Aquifer																														
14-S	34.66	34.64	34.21	33.56	33.40	33.17	32.25	31.22	30.32	29.57	DRY	DRY	28.80	DRY	DRY	29.03	28.52	DRY	28.57	29.82	30.45	30.71	30.56	33.17	33.34	NM	NM	33.02	32.49	32.75
15-S	36.66	49.06	36.22	35.52	35.26	34.96	34.59	34.16	33.50	31.90	DRY	DRY	32.25	DRY	DRY	DRY	DRY	DRY	DRY	DRY	33.94	32.43	DRY	34.12	34.60	NM	NM	34.11	34.28	34.41
16-S	32.81	33.00	32.79	31.27	DRY	30.00	29.51	30.23	28.66	DRY	DRY	29.76	DRY	DRY	29.18	29.85	30.16	DRY	DRY	31.41	29.62	34.27	28.76	29.48	29.14	28.96	34.24	32.57	29.19	29.08
17-S	32.55	32.48	32.22	31.45	31.19	30.67	30.09	29.67	28.85	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	29.00	28.91	29.12	29.42	31.42	31.20	NM	NM	30.76	30.37	30.56
21-S	32.57	32.52	32.36	31.35	30.75	30.00	29.50	29.45	28.77	25.94	25.44	25.34	DRY	DRY	DRY	DRY	25.98	25.99	DRY	26.66	26.77	29.29	27.97	29.34	29.49	29.19	29.49	29.51	29.23	29.12
22-S	32.74	32.86	32.87	32.35	31.33	30.76	30.15	29.95	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	29.28	31.60	30.53	30.91	30.38	30.24	32.49	33.03	30.65	30.49
23-S	32.83	32.94	32.89	31.68	31.19	30.52	29.89	29.84	28.72	DRY	DRY	DRY	DRY	DRY	DRY	DRY	28.51	DRY	DRY	DRY	29.06	31.49	30.25	30.67	30.26	30.10	31.92	33.00	30.54	30.21
25-S	35.53	46.43*	35.28	34.23	34.21	33.63	33.11	32.74	32.36	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	33.08	34.20	NM	NM	DRY	32.95	34.94
26-S	35.12	36.25	34.80	33.99	33.45	32.98	32.49	32.20	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	32.54	32.55	NM	NM	DRY	32.23	32.30
27-S	35.06	35.06	34.81	34.22	33.81	33.36	32.82	32.39	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	32.63	32.78	32.61	32.56	32.41	32.61	32.62
28-S	32.77	32.88	32.79	31.60	31.10	30.49	29.90	29.90	29.63	DRY	DRY	DRY	DRY	DRY	29.44	DRY	DRY	DRY	DRY	DRY	DRY	31.57	29.92	30.30	30.03	29.87	31.45	32.81	30.29	30.67
29-S	35.03	34.94	34.69	34.22	33.79	33.37	32.74	32.30	31.43	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	32.30	32.31	NM	NM	31.81	32.07	32.30
36-S	30.93	30.13	30.07	29.72	28.97	28.22	28.06	27.90	27.34	28.43	DRY	DRY	25.54	27.25	DRY	26.30	25.32	DRY	27.54	30.06	27.42	27.95	27.81	29.64	28.51	NM	NM	27.83	27.55	27.71
37-S	30.16	29.95	30.25	29.26	28.27	27.36	27.26	27.10	DRY	27.56	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	30.24	27.93	NM	NM	28.36	27.40	27.52
38-S	27.70	26.58	26.97	27.11	26.15	25.41	25.26	25.23	24.91	24.56	DRY	DRY	DRY	DRY	DRY	DRY	DRY	DRY	IA	DRY	DRY	DRY	24.85	25.85	DRY	NM	NM	DRY	DRY	DRY
54-S	NI	NI	NI	NI	NI	NI	NI	NI	NI	30.73	29.48	29.48	29.97	29.74	29.19	30.46	29.85	29.37	IA	31.43	31.33	32.12	29.50	33.55	33.66	NM	NM	33.28	33.45	33.54
B1 Aquifer																														
16-D	31.25	30.74	30.62	29.81	29.13	27.77	28.03	27.38	24.86	24.00	22.40	27.70	24.98	24.37	23.19	26.74	25.75	18.93	20.15	26.47	26.85	26.35	18.48	20.27	22.45	21.36	24.35	21.89	22.31	23.11
23-D	30.07	29.14	28.37	29.14	27.07	26.17	25.90	24.85	15.97	16.43	15.63	14.80	14.25	18.94	17.07	17.53	16.73	16.35	21.10	26.11	25.67	19.92	16.74	20.27	23.38	23.67	23.97	11.53	16.33	16.68
25-D	35.69	35.79	35.72	34.79	34.20	33.73	33.12	32.73	32.09	29.76	28.51	28.46	29.37	29.20	28.66	29.92	29.33	28.83	28.82	31.07	30.82	31.71	30.98	33.03	33.12	NM	NM	32.70	32.86	33.00
27-D	35.26	35.27	34.98	34.34	33.95	33.48	32.87	32.47	31.87	29.85	28.59	28.52	29.05	28.89	28.38	29.62	28.92	28.5	28.52	30.81	30.58	31.46	30.70	32.72	32.83	32.64	32.60	32.42	32.60	32.68
28-D	32.74	32.85	32.74	34.56	31.09	30.46	29.88	29.86	28.94	26.44	25.29	27.98	27.40	26.09	28.41	28.77	28.51	25.68	25.84	28.08	28.90	31.60	29.91	30.30	30.04	29.88	31.47	32.81	30.29	29.96
29-D	35.23	35.18	34.82	34.09	33.69	33.15	32.56	32.14	31.33	29.66	28.33	28.32	28.83	28.56	28.05	29.32	28.59	28.15	28.30	30.51	30.22	31.13	30.38	32.46	32.56	NM	NM	32.10	32.25	32.40
36-D	30.94	30.20	30.16	29.90	29.10	28.34	28.09	28.04	27.44	27.61	26.34	25.36	25.18	25.36	24.23	25.55	24.92	24.63	24.86	28.61	26.59	27.68	27.47	29.20	28.19	NM	NM	27.89	27.64	27.80
52-D	NI	NI	NI	NI	NI	NI	NI	NI	NI	32.53	24.52	24.65	24.80	24.83	24.53	25.79	25.01	24.3	24.77	28.39	27.98	28.71	26.56	28.56	29.16	28.89	29.03	27.93	28.46	28.63
53-D	NI	NI	NI	NI	NI	NI	NI	NI	NI	35.21	30.01	29.97	30.13	30.10	29.61	31.11	30.31	29.75	29.92	32.06	31.99	32.36	31.61	33.84	34.13	NM	NM	33.39	33.58	33.89
B2 Aquifer																														
22-DD	30.31	29.37	28.46	32.49	29.18	28.97	27.58	28.70	20.84	15.87	15.22	14.88	14.60	19.81	16.47	16.91	17.20	16.29	20.95	26.14	24.74	21.61	17.21	20.01	23.33	23.62	24.05	10.80	15.72	19.31
27-DD	32.67	33.04	32.49	32.26	31.18	29.82	29.38	28.83	29.99	26.61	25.53	25.58	25.32	25.99	25.63	26.76	25.91	25.23	26.27	29.24	28.57	28.88	26.77	29.57	29.68	29.71	29.86	27.42	29.18	29.28
30-DD	30.13	29.21	28.30	29.17	26.97	26.09	25.79	24.75	15.61	15.95	15.25	14.35	14.05	20.54	16.81	17.28	16.53	16.15	20.67	26.09	25.66	19.74	16.57	20.13	23.44	23.65	23.94	11.02	16.01	16.20
36-DD	29.99	28.95	28.97	28.80	27.77	26.80	26.48	26.26	25.49	26.23	25.48	23.42	23.78	24.75	23.27	24.83	23.99	23.61	24.52	28.59	26.01	26.88	26.21	28.45	27.89	NM	NM	26.87	26.74	26.76
B3 Aquifer																														
35-DDD	30.01	29.75	28.66	29.75	27.69	25.78	25.43	25.13	24.01	23.90	23.88	23.38	23.34	24.28	23.96	25.16	24.26	23.51	24.69	27.71	26.81	27.73	24.69	27.51	27.34	NM	27.49	25.06	26.25	27.06

Abbreviations:

IA	Well inaccessible
NM	Not measured
DRY	No water in well
NI	NI - Not installed
NA	NA - Not available

* Water level measurement is believed to be inaccurate

Notes:

Groundwater elevations are reported in feet above mean sea level (USGS Datum) through 2004, and feet NAVD88 since 2005
Top of casing elevations were resurveyed in October 1997, and again in December 2005. Groundwater elevations measured during subsequent monitoring events were calculated using resurveyed elevations.

HISTORICAL GROUNDWATER ELEVATION DATA

FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Well ID	Jul-94	Oct-94	Jan-95	Apr-95	Jul-95	Oct-95	Apr-96	Oct-96	Apr-97	Oct-97	Apr-98	Oct-98	Oct-99	Oct-00	Oct-01	Oct-02	Oct-03	Oct-04	Oct-05	Nov-06	Oct-07	Oct-08	Oct-09	Oct-10	Oct-11	Oct-12	Oct-13	Oct-14	Oct-15
A Aquifer																													
14-S	33.07	33.55	33.24	35.17	34.65	34.50	34.90	34.34	34.95	34.54	35.87	35.37	35.14	35.18	35.25	35.21	35.44	35.28	38.25	38.33	38.22	NM	NM	NM	NM	NM	NM	NM	NM
15-S	34.77	35.02	35.15	37.75	38.14	37.10	38.24	37.31	38.44	37.92	NM	38.81	NM	DRY	DRY	DRY	DRY	DRY	DRY	DRY	42.34	42.02	41.69	41.81	42.17	41.97	41.84	41.35	40.43
16-S	29.86	30.20	34.76	32.99	31.13	30.89	34.54	31.22	34.29	32.53	NM	34.87	33.30	33.26	33.44	34.08	34.94	34.55	37.75	37.57	37.72	37.53	37.10	37.42	38.09	37.56	37.29	37.03	36.46
17-S	30.80	31.25	31.05	33.72	32.51	32.50	33.22	32.19	33.12	32.50	NM	33.50	33.14	33.11	33.33	33.41	33.74	33.67	36.67	36.76	36.84	NM	NM	NM	NM	NM	NM	NM	NM
21-S	29.62	30.65	30.71	32.97	31.50	32.00	32.92	31.46	32.65	32.11	34.10	33.46	32.95	DRY	DRY	DRY	34.72	DRY	37.94	37.96	NM	NM	NM	NM	NM	NM	NM	NM	NM
22-S	31.13	31.88	33.44	33.71	32.60	32.36	35.06	32.67	33.84	33.24	34.95	34.43	33.82	33.86	33.81	34.09	34.71	34.53	38.42	38.53	38.78	38.27	37.75	37.97	38.59	38.19	37.87	37.57	36.65
23-S	30.90	31.63	32.96	33.65	32.52	32.40	34.62	32.63	33.80	33.18	NM	33.40	33.70	33.81	33.79	34.05	34.84	34.80	38.66	38.71	38.97	38.4	37.83	38.11	38.74	38.28	38.02	37.65	36.74
25-S	33.31	33.78	34.38	36.39	35.60	35.60	36.74	35.71	36.84	36.36	38.18	37.37	37.08	37.02	37.31	37.42	38.22	37.75	41.02	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
26-S	32.84	33.35	33.32	35.88	34.96	35.05	36.17	35.07	36.31	35.75	NM	38.00	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
27-S	33.22	33.77	33.80	36.01	35.35	35.45	36.44	35.56	36.53	36.04	NM	36.99	36.63	36.74	36.85	36.75	37.54	37.37	40.53	41.68	41.05	40.56	40.17	40.28	40.66	40.39	40.21	39.73	38.80
28-S	30.59	31.25	32.61	33.33	32.15	32.22	34.05	32.20	33.47	32.83	NM	34.11	33.47	33.48	33.58	33.82	34.95	NM	38.29	38.15	38.37	38.15	37.43	37.75	38.47	37.93	37.71	37.42	36.65
29-S	32.73	33.19	33.31	35.98	35.03	35.06	36.37	35.23	36.35	35.77	NM	37.02	36.70	36.78	37.01	36.91	37.69	37.50	40.74	41.01	41.12	40.78	40.46	40.58	40.99	40.78	40.57	40.12	39.11
36-S	28.33	30.08	29.28	31.61	31.07	30.28	31.23	29.82	30.74	30.12	32.07	31.26	30.84	30.75	31.10	31.55	32.10	31.67	35.23	35.16	35.52	35.10	34.64	34.84	35.21	35.06	34.78	34.87	34.29
37-S	28.19	29.51	28.25	31.66	30.00	30.19	32.55	30.32	30.98	30.04	NM	30.80	30.88	30.71	30.77	31.10	31.86	31.39	35.82	35.65	36.46	35.82	34.75	35.18	35.63	35.52	35.05	35.24	34.34
38-S	25.23	29.14	26.28	29.44	27.31	26.83	28.41	26.99	27.94	26.72	NM	27.51	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
54-S	34.08	34.61	34.57	36.93	36.43	36.46	37.46	36.65	37.68	37.18	NM	37.13	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
B1 Aquifer																													
16-D	25.30	23.97	27.89	24.63	20.35	21.08	26.81	25.05	25.96	20.47	NM	26.82	26.91	26.88	27.81	28.13	33.89	33.83	38.21	37.23	38.87	36.52	36.54	37.27	37.82	37.80	37.54	37.34	36.41
23-D	15.80	20.28	18.41	19.49	13.73	15.58	16.51	15.73	17.66	19.55	17.25	16.95	18.49	17.63	17.51	19.62	34.05	34.31	39.23	38.00	40.21	37.24	37.45	38.23	39.20	39.98*	38.68	38.29	37.38
25-D	33.54	34.18	34.10	36.49	35.81	35.86	36.91	35.99	36.90	36.45	NM	36.50	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
27-D	33.28	33.90	33.87	36.22	35.49	35.62	37.83	35.74	36.69	36.24	37.94	37.26	36.98	37.15	37.20	37.14	37.83	37.68	41.01	42.02	41.44	40.99	40.60	40.73	41.08	40.81	40.62	40.19	39.18
28-D	30.59	31.25	32.59	33.34	33.16	32.14	34.07	32.22	33.64	33.01	NM	34.29	33.62	33.68	33.81	34.01	35.16	35.29	38.45	37.61	38.53	38.14	37.51	37.85	38.55	37.99	37.79	37.52	36.75
29-D	32.95	33.60	33.56	NA	35.21	35.33	36.46	35.38	36.46	35.95	NM	37.08	36.83	36.93	37.14	37.06	37.83	37.61	40.95	41.17	41.26	40.84	40.47	40.65	41.05	40.82	40.66	40.17	39.17
36-D	28.36	30.16	29.27	31.69	30.17	30.39	31.34	29.95	30.81	30.20	32.05	31.26	30.90	30.78	31.12	31.11	32.03	31.67	35.26	35.21	35.58	35.16	34.66	34.85	35.24	35.09	34.82	34.90	34.15
52-D	29.20	30.48	30.22	32.46	31.06	31.74	32.59	31.27	32.55	32.23	34.15	33.50	33.15	33.12	33.45	33.69	35.68	35.58	39.30	39.00	39.80	38.74	38.42	38.74	39.32	39.13	38.82	38.51	37.33
53-D	34.27	35.03	34.83	37.45	36.84	36.88	38.23	37.23	38.60	38.65	NM	39.19	39.09	38.87	39.11	39.31	40.22	39.85	43.60	43.32	43.75	42.88	42.67	42.99	43.47	43.18	42.98	42.21	41.38
B2 Aquifer																													
22-DD	15.86	21.08	18.24	19.10	12.42	22.84	15.46	15.93	22.15	18.37	NM	17.62	17.39	16.50	NM	20.81	33.97	34.17	39.19	37.90	40.08	37.30	37.39	38.21	39.20	38.99	38.67	38.29	37.42
27-DD	29.59	31.22	30.43	33.28	32.21	32.48	34.15	32.89	34.67	34.39	36.36	35.43	35.43	35.09	34.75	34.54	38.46	38.38	42.68	43.21	43.48	41.10	40.83	41.54	42.60	42.26	41.84	40.97	39.98
30-DD	15.44	20.14	18.07	19.16	13.22	15.16	16.04	15.06	17.11	19.06	16.48	16.40	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM	NM
36-DD	26.58	28.96	28.53	30.75	29.38	29.75	31.46	28.84	29.88	29.12	30.84	30.08	30.07	29.32	29.76	30.18	31.79	31.70	35.67	35.09	36.09	34.79	34.73	35.04	35.86	35.69	35.39	35.34	34.57
B3 Aquifer																													
35-DDD	27.12	29.33	27.94	30.58	29.51	30.41	32.47	30.11	33.21	33.02	NM	34.31	33.92	30.87	31.54	33.51	36.52	36.52	41.90	40.00	43.38	39.17	38.92	39.99	41.48	41.17	40.41	39.58	37.99

Abbreviations:

IA	Well inaccessible
NM	Not measured
DRY	No water in well
NI	NI - Not installed
NA	NA - Not available

* Water level measurement is believed to be inaccurate

Notes:

Groundwater elevations are reported in feet above mean sea level (USGS Datum) through 2004, and feet NAVD88 since 2005
Top of casing elevations were resurveyed in October 1997, and again in December 2005. Groundwater
elevations measured during subsequent monitoring events were calculated using resurveyed elevations.

APPENDIX C

Historical TCE, cDCE, and Total VOC Concentrations

APPENDIX C-1
HISTORICAL TRICHLOROETHENE CONCENTRATIONS IN GROUNDWATER
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L)

	Extraction Wells								A-Zone Wells																	B1-Zone Wells									B2-Zone Wells				B3-Zone Well
Date	DW-1	DW-2	DW-3	DW-4	DW-5	DW-6	DW-7	DW-8	14-S	15-S	16-S	17-S	21-S	22-S	23-S	25-S	26-S	27-S	28-S	29-S	36-S	37-S	38-S	54-S	16-D	23-D	25-D	27-D	28-D	29-D	36-D	52-D	53-D	22-DD	27-DD	30-DD	36-DD	35-DDD
Apr-82	NS	NS	NS	NI	NI	NI	NI	NI	1	1	400	1	2100	6700	3700	1450	1400	1100	13000	99	NS	NS	NS	NI	1000	2200	600	320	29000	110	NS	NI	NI	11000	NS	740	NS	NI
Jun-82	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	17	NS	910	1800	1100	640	440	1100	14000	110	710	2600	1250	NI	3200	3900	600	140	16000	43	NS	NI	NI	280	250	2200	NS	NI
Jul-82	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	180	NS	NS	6500	5300	210	1200	1700	23000	110	NS	NS	NS	NI	NS	7900	170	260	30000	100	210	NI	NI	660	17	NS	40	NI
Aug-82	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	NS	NS	3900	NS	NS	NS	NS	NS	NS	NS	590	1400	2200	NI	NS	1600	NS	NS	NS	NS	500	NI	NI	420	NS	930	31	NI
May-83	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	110	NS	NS	NS	NS	NS	NS	NS	110000	NS	82	270	2000	NI	1700	2000	NS	NS	20000	NS	9200	NI	NI	26	NS	NS	990	NI
Jul-83	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NI	NS	1800	NS	NS	NS	NS	650	NI	NI	360	NS	NS	NS	NI
Sep-83	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	130	NS	NS	780	120	NS	780	2000	24000	NS	290	3200	4000	NI	46000	520	340	840	37000	NS	160	NI	NI	380	NS	NS	NS	NI
Mar-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	11	51	NS	810	390	410	1500	830	1100	73	58	150	450	NS	NI	420	1	440	290	27	310	110	NI	NI	500	15	610	1	NI
Apr-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	80	NS	920	650	310	1300	810	910	61	63	170	610	1700	NI	1000	370	440	370	18	450	130	NI	NI	580	9	610	NS	NI
May-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	75	NS	900	1360	420	1400	880	1200	150	340	160	600	1600	NI	1050	1300	NS	350	190	70	160	NI	NI	NS	39	530	11	NI
Jun-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	72	NS	1240	1860	270	1010	1370	950	300	100	220	510	1710	NI	620	190	590	330	560	810	170	NI	NI	840	2	690	1	NI
Jul-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	1	70	NS	1230	1940	480	1580	980	870	220	110	160	730	2380	NI	100	1410	540	300	160	380	160	NI	NI	NS	20	170	7	NI
Aug-85	NS	NS	NS	NI	NI	NI	NI	NI	1	NS	NS	4	1900	NS	800	NS	1560	1900	NS	185	280	620	NS	NI	NS	NS	960	640	NS	NS	NS	NI	NI	590	75	1260	12	NS
Sep-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	1200	NS	980	1900	920	1700	1200	1300	240	120	120	690	1800	NI	820	1400	430	430	220	430	130	NI	NI	470	28	780	13	7
Oct-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	940	NS	1000	1500	970	1800	1100	1200	170	160	130	420	2700	NI	230	4900	520	520	240	570	190	NI	NI	330	100	770	53	8
Nov-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	540	23	1200	2300	1400	1500	1440	1200	230	115	136	340	3000	NI	950	1100	690	530	130	560	150	NI	NI	350	59	720	9	5
Dec-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	1	450	NS	1100	2800	1100	2200	1200	1600	300	110	150	690	2200	NI	630	3200	460	510	120	590	1	NI	NI	760	37	690	9	4
Jan-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	260	NS	1100	2400	570	2100	950	2200	1500	160	160	1	1800	NI	290	540	620	450	460	570	120	NI	NI	520	23	9	9	NS
Feb-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	490	NS	1100	2200	1100	1400	720	780	820	150	130	470	1100	NI	260	570	450	510	510	670	180	NI	NI	490	350	700	12	1
Apr-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	1	350	NS	750	1500	700	1030	430	1200	2200	150	45	360	2000	NI	1100	1300	380	250	830	310	70	NI	NI	450	94	130	2	1
Jun-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	1	NS	70	1200	590	1700	870	1500	1800	160	110	640	2500	NI	600	1400	600	310	860	340	130	NI	NI	660	140	370	14	4
Sep-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	2900	NS	1100	1000	780	3500	840	1500	2000	150	NR	620	2400	NI	150	1600	590	310	1100	440	120	NI	NI	520	330	480	9	1
Oct-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	69	NS	830	880	890	1900	550	1300	1800	84	68	290	1100	NI	350	2000	420	170	1100	510	55	NI	NI	340	110	2	13	2
Dec-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	52	NS	770	410	740	1700	230	1000	2200	230	110	700	1700	NI	490	1800	450	360	340	470	99	NI	NI	360	250	14	18	1
Feb-87	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	26	NS	320	290	540	1500	410	1600	580	100	52	350	890	NI	260	520	440	150	300	290	74	NI	NI	380	170	43	11	1
Apr-87	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	51	NS	490	540	850	1300	610	1800	650	140	120	560	910	NI	370	1900	570	230	280	190	130	NI	NI	520	210	29	22	1
Jun-87	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	24	NS	480	550	750	1600	660	1600	1200	84	99	600	1400	NI	310	1800	300	340	620	390	110	NI	NI	560	330	13	8	1
Aug-87	NS	NS	NS	NI	NI	NI	NI	NI	ND	NS	30	ND	680	440	550	1200	420	1500	2400	190	120	760	1600	NI	240	1900	400	390	1200	280	88	NI	NI	550	410	11	17	1
Oct-87	NS	NS	NS	NI	NI	NI	NI	NI	ND	NS	35	ND	ND	370	500	1400	640	1500	1700	160	85	540	1300	NI	380	1500	320	ND	1200	460	78	NI	NI	490	290	8	24	1
Dec-87	NS	NS	NS	NI	NI	NI	NI	NI	ND	NS	23	ND	400	190	530	700	410	1100	540	NR	65	340	1100	NI	140	500	290	170	540	370	65	NI	NI	650	250	5	13	1
Mar-88	NS	NS	NS	NI	NI	NI	NI	NI	ND	NS	ND	1	480	190	480	940	480	1300	680	95	60	500	1400	NI	560	1100	290	380	240	590	78	NI	NI	170	260	14	22	ND
Jun-88	NS	NS	NS	500	52	4	NI	NI	ND	1	ND	ND	560	690	300	1100	760	1800	1600	170	180	790	2200	NI	190	480	440	180	300	610	170	NI	NI	460	420	28	25	ND
Sep-88	NS	NS	NS	300	38	19	NI	NI	ND	NS	110	ND	629	470	210	750	520	1600	1000	180	150	480	1800	NI	450	850	480	470	130	400	98	NI	NI	520	450	9.4	54	0.9
Dec-88	NS	NS	330	225	39	ND	NI	NI	ND	NS	ND	ND	280	310	ND	NS	800	1500	1100	120	140	740	NS	NI	440	220	370	370	140	460	140	NI	NI	480	580	38	69	ND
Mar-89	NS	NS	190	ND	NS	NS	NI	NI	NS	ND	190	NS	525	NS	440	400	NS	2100	NS	140	140	370	NS	NI	440	1300	500	420	210	480	140	NI	NI	360	430	38	64	0.5
Jun-89	NS	NS	NS	NS	NS	NS	NI	NI	NS	ND	NS	ND	470	NS	110	290	NS	NS	330	3	120	NS	1400	NI	430	1100	320	270	210	330	170	NI	NI	760	320	65	30	1
Oct-89	NS	NS	NS	NS	NS	NS	NI	NI	NS	ND	NS	NS	510	NS	NS	NS	NS	NS	NS	NS	87	130	650	1	390	2700	370	330	180	390	87	450	ND	740	290	NS	25	3
Jan-90	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	490	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	230	1200	390	280	73	390	95	300	NS	480	280	98	29	1
Apr-90	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	ND	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1	350	1500	57	420	58	310	110	240	ND	500	320	210	28	ND
Jul-90	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	300	1400	450	390	96	570	120	360	NS	720	370	250	41	1
Oct-90	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	26	NS	NS	2	400	1300	500	350	97	520	160	260	ND	750	360	770	26	0.5
Jan-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	38	NS	NS	NS	NS	NS	NS	NS	60	NS	NS	NS	NS	NS	855	1500	450	350	64	455	110	440	NS	750	365	NS	33	2
Apr-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	45	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	2	840	970	420	400	160	550	110	190	1	440	370	160	27	1
Jul-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	56	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	620	1400	400	390	210	450	110	320	NS	720	290	670	38	1
Oct-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	5	800	1100	390	320	190	400	130	180	ND	640	250	68	42	0.8
Jan-92	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	20	NS	NS	NS	820	930	400	370	100	410	110	200	NS	650	280	15	20	ND
Apr-92	NS	NS	NS	NS	NS	NS	NI	NI	ND	NS	67	ND	220	NS	NS	NS	NS	NS	110	NS	50	NS	NS	ND	200	980	120	230	86	120	120	170	ND	230	230	66	25	1.2
Jul-92	NS	NS	NS	NS	NS	NS	NI	NI	ND	NS	69	NS	710	110	15	NS	NS	NS	NS	NS	56	NS	NS	3	460	1100	400	370	130	400	130	330	NS	470	370	240	24	0.9
Oct-92	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	50	NS	ND	NS	6	NS	NS	NS	140	NS	47	NS	NS	15	150	810	90	230	130	380	100	120	2.4	200	280	140	25	2
Jan-93	NS	NS	NS	NS	NS	NS	790	21	ND	NS	NS	ND	1090	44	8	NS	NS	NS	140	NS	62	NS	380	ND	820	1200	NS	NS	130	NS	NS	NS	NS	430	NS	20	NS	ND
Apr-93	NS	NS	NS	NS	NS	NS	400	12	ND	ND	64	ND	670	140	12	NS	44	440	160	110	51	740	660	1	240	950	730	380	110	71	85	340	4.1	270	110	23	36	2.9
Jul-93	NS	NS	NS	NS	NS	NS	NS	240	ND	ND	81	2	570	82	36	28	33	540	160	80	70	610	NS	2	500	1200	NS	NS	160	NS	NS	NS	NS	310	NS	51	NS	4.4

APPENDIX C-1
HISTORICAL TRICHLOROETHENE CONCENTRATIONS IN GROUNDWATER
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L)

	Extraction Wells								A-Zone Wells																B1-Zone Wells									B2-Zone Wells				B3-Zone Well
Date	**DW-1**	**DW-2**	**DW-3**	**DW-4**	**DW-5**	**DW-6**	**DW-7**	**DW-8**	**14-S**	**15-S**	**16-S**	**17-S**	**21-S**	**22-S**	**23-S**	**25-S**	**26-S**	**27-S**	**28-S**	**29-S**	**36-S**	**37-S**	**38-S**	**54-S**	**16-D**	**23-D**	**25-D**	**27-D**	**28-D**	**29-D**	**36-D**	**52-D**	**53-D**	**22-DD**	**27-DD**	**30-DD**	**36-DD**	**35-DDD**
Oct-93	NS	NS	NS	NS	NS	NS	520	160	ND	ND	60	ND	400	94	10	NS	NS	330	110	54	60	430	NS	1	260	760	370	290	120	140	NS	92	NS	360	320	460	NS	4
Jan-94	NS	NS	NS	NS	NS	NS	NS	280	ND	ND	60	ND	400	68	33	4	39	450	160	39	48	280	NS	ND	170	1100	NS	NS	130	NS	NS	NS	NS	300	NS	360	NS	3
Apr-94	NS	NS	NS	NS	NS	NS	390	290	ND	ND	61	ND	450	62	30	10	34	370	210	40	43	400	NS	4	120	950	350	350	140	390	88	160	ND	280	420	32	57	2.3
Jul-94	NS	NS	NS	NS	NS	NS	440	270	ND	ND	58	2	480	100	16	2	63	390	140	130	39	400	950	1	140	290	NS	NS	120	NS	NS	NS	NS	270	NS	35	NS	5.2
Oct-94	NS	NS	NS	NS	NS	NS	460	350	ND	ND	86	1	530	120	10	50	86	670	130	190	22	400	210	1	180	780	350	280	120	300	NS	7.1	NS	480	290	58	NS	2
Jan-95	NS	NS	NS	NS	NS	NS	370	350	ND	ND	42	1	370	84	20	8	82	530	130	72	ND	310	580	ND	120	460	NS	NS	100	NS	NS	NS	NS	110	NS	5.9	NS	NS
Apr-95	NS	NS	NS	NS	NS	NS	420	240	ND	ND	1.2	ND	340	91	37	7.5	97	490	160	120	17	270	630	0.8	270	640	410	260	120	300	56	250	0.6	120	460	30	47	1.9
Jul-95	NS	NS	NS	NS	NS	NS	110	240	ND	ND	52	ND	460	100	28	4.7	380	620	180	140	24	420	810	1.1	280	810	NS	NS	160	NS	NS	NS	NS	270	NS	210	NS	1.8
Oct-95	NS	NS	NS	NS	NS	NS	390	330	ND	ND	84	NS	920	120	40	11	380	800	220	190	20	410	1300	1.2	270	710	310	280	170	300	NS	14	NS	350	770	420	NS	2.6
Apr-96	1900	NS	210	120	74	390	330	250	ND	ND	85	2.2	380	68	45	11	290	640	190	88	7.9	250	710	1.5	110	540	63	220	140	350	11	45	ND	210	410	270	44	0.6
Oct-96	NS	NS	NS	NS	NS	NS	240	240	NS	NS	38	NS	320	94	7	14	NS	750	180	110	NS	NS	370	NS	39	310	220	190	140	200	NS	21	NS	92	320	93	NS	0.8
Apr-97	1600	NS	190	95	78	230	250	200	ND	ND	46	1.9	340	130	14	87	120	430	370	82	21	170	120	1.4	80	340	18	220	200	91	32	56	ND	200	260	15	18	1.4
Oct-97	2200	NS	180	170	75	230	220	NS	ND	ND	50	4.4	290	120	22	74	120	640	310	100	20	260	160	1.5	120	250	200	190	150	210	52	0.7	ND	210	310	49	13	1.8
Apr-98	1400	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	NS	NS	NS	95	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	81	NS	NS	NS	NS	NS	11	NS
Oct-98	910	NS	NS	NS	93	NS	NS	260	ND	ND	34	10	190	70	NS	39	NS	NS	340	95	7.2	NS	NS	NS	67	240	NS	NS	NS	180	1.1	0.7	ND	210	NS	NS	11	1.6
May-99	NS	NS	190	240	52	210	230	230	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oct-99	1800	NS	NS	260	86	280	240	230	ND	NS	44	15	230	38	16	32	NS	810	550	71	100	83	NS	NS	56	300	NS	200	370	150	3.2	190	ND	220	290	NS	6.4	ND
Jan-00	NS	NS	NS	71	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	730	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	3.2 *	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oct-00	1100	12	NS	280	110	190	210	210	ND	NS	33	14	NS	27	6.3	110	NS	620	370	52	83	200	NS	NS	31	170	NS	190	360	160	110	4.2	3.8	NS	200	NS	6.4	1
Oct-01	1400	12	NS	250	100	240	250	250	ND	NS	25	22	NS	26	3.1	62	NS	680	270	30	140	150	NS	NS	82	180	NS	140	470	160	67	5.4	4.1	NS	300	NS	11	1
Oct/Nov-02	730	NS	NS	250	110	240	210	270	ND	NS	43	38	NS	33	9.4	84	NS	910	330	25	140	170	NS	NS	130	200	NS	190	290	58	150	24	5.6	120	320	NS	8.1	0.6
Oct-03	13000	NS	NS	29	61	210	250	270	ND	NS	8.9	41	NS	71	17	2.7	NS	960	71	49	100	160	NS	NS	95	220	NS	63	250	0.6	110	13	3.3	180	220	NS	1.2	ND
Oct-04	16000	NS	NS	50	8.6	1.2	230	250	ND	NS	5.1	40	NS	130	25	67	NS	520	NS	84	91	110	NS	NS	300	250	NS	25	11	1.1	85	ND	1.8	9	190	NS	0.5	ND
Oct-05	18000	NS	NS	NS	NS	NS	NS	NS	ND	NS	3	42	NS	190	33	86	NS	480	41	20	91	91	NS	NS	110	110	NS	36	160	1.3	4.6	29	1.2	2.8	110	NS	ND	ND
Oct-06	NS	NS	NS	NS	NS	NS	NS	11	ND	NS	1	58	NS	2.3	29	NS	NS	340	1.2	32	98	83	NS	NS	1.5	3.1	NS	58	1.3	3.6	92	32	1.3	1.1	93	NS	0.8	0.5
Oct-07	ND	NS	NS	NS	NS	NS	160	NS	ND	30	0.9	72	NS	6.5	52	NS	NS	130	ND	16	70	81	NS	NS	1.7	210	NS	120	ND	53	17	37	5.0	3.7	79	NS	1.5	ND
Oct-08	2.5	0.6	NS	NS	NS	NS	17	NS	NS	15	ND	NS	NS	7.8	29	NS	NS	280	1.6	25	98	81	NS	NS	1.7	300	NS	130	0.9	49	27	33	6.9	140	94	NS	1.6	ND
Oct-09	ND	ND	NS	NS	NS	NS	6	NS	NS	13	1	NS	NS	7.7	17	NS	NS	330	0.5	13	80	91	NS	NS	7	180	NS	110	1.4	89	19	29	7	94	83	NS	1.3	ND
Oct-10	0.6	0.5	NS	NS	NS	NS	5.2	NS	NS	11	ND	NS	NS	16	9.5	NS	NS	300	ND	18	75	60	NS	NS	ND	160	NS	110	1.5	35	47	35	6.9	97	59	NS	ND	ND
Oct-11	18	1.3	NS	NS	NS	NS	2.1	NS	NS	3.4	ND	NS	NS	23	19	NS	NS	270	ND	62	73	63	NS	NS	ND	260	NS	110	0.6	60	29	27	5.8	150	52	NS	2.6	ND
Oct-12	0.9	ND	NS	NS	NS	NS	1.6	NS	NS	6.2	ND	NS	NS	17	30	NS	NS	270	ND	29	80	63	NS	NS	ND	280	NS	94	ND	49	47	31	6.9	150	60	NS	3.2	ND
Oct-13	0.7	ND	NS	NS	NS	NS	11	NS	NS	7.0	ND	NS	NS	28	37	NS	NS	230	ND	26	74	95	NS	NS	ND	280	NS	88	ND	28	38	32	6.9	170	37	NS	ND	ND
Oct-14	ND	ND	NS	NS	NS	NS	ND	NS	NS	2.3	ND	NS	NS	36	36	NS	NS	210	ND	23	73	83	NS	NS	ND	280	NS	110	ND	55	56	33	5.8	180	44	NS	ND	ND
Oct-15	2.2	ND	NS	NS	NS	NS	ND	NS	NS	0.9	ND	NS	NS	45	20	NS	NS	100	ND	54	71	49	NS	NS	ND	260	NS	95	0.5	56	40	34	5.0	170	30	NS	ND	ND

Abbreviations:

ND	Not Detected
NI	Not Installed
NS	Not Sampled

APPENDIX C-2
HISTORICAL cis-1,2-DICHLOROETHENE CONCENTRATIONS IN GROUNDWATER
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L)

	Extraction Wells								A-Zone Wells																B1-Zone Wells									B2-Zone Wells				B3-Zone Well
Date	DW-1	DW-2	DW-3	DW-4	DW-5	DW-6	DW-7	DW-8	14-S	15-S	16-S	17-S	21-S	22-S	23-S	25-S	26-S	27-S	28-S	29-S	36-S	37-S	38-S	54-S	16-D	23-D	25-D	27-D	28-D	29-D	36-D	52-D	53-D	22-DD	27-DD	30-DD	36-DD	35-DDD
Apr-82	NS	NS	NS	NI	NI	NI	NI	NI	1	1	2700	1	10	4200	3600	10	160	120	700	5	NS	NS	NS	NI	810	4600	10	10	1300	5	NS	NI	NI	8200	NS	5	NS	NI
Jun-82	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	1	NS	750	1520	750	1	37	2	1400	2	10	10	10	NI	46	6800	2	9	2800	1	NS	NI	NI	770	2	170	NS	NI
Jul-82	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	2100	NS	NS	17000	5500	28	110	4	4500	4	NS	NS	NS	NI	NS	2700	14	4	5100	4	5	NI	NI	NS	4	NS	5	NI
Aug-82	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	NS	NS	3300	NS	NS	NS	NS	NS	NS	NS	55	27	300	NI	NS	NS	NS	NS	NS	NS	52	NI	NI	1700	NS	110	3	NI
May-83	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	2400	NS	NS	NS	NS	NS	NS	NS	70000	NS	1	17	350	NI	35	NS	NS	NS	12000	NS	1	NI	NI	44	NS	NS	120	NI
Jul-83	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NI	NS	NS	NS	NS	NS	NS	38	NI	NI	NS	NS	NS	NS	NI
Mar-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	1	1300	NS	210	920	3300	7	45	12	1500	9	13	27	NS	NI	1200	5700	21	8	1800	14	13	NI	NI	110	6	38	44	NI
Apr-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	2500	NS	140	1400	4800	6	43	11	1100	8	14	21	210	NI	870	3400	16	9	1100	13	10	NI	NI	82	1	10	NS	NI
May-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	4100	NS	106	1800	3900	6	38	14	1800	8	10	22	200	NI	660	4800	NS	45	1100	18	13	NI	NI	NS	10	9	31	NI
Jun-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	5200	NS	80	2090	1070	4	26	6	1420	10	10	12	180	NI	540	1610	10	6	1470	13	9	NI	NI	34	1	7	6	NI
Jul-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	1	6300	NS	63	2630	1071	5	29	8	960	10	7	1	250	NI	63	4300	14	6	610	1	11	NI	NI	NS	5	3	1	NI
Aug-85	NS	NS	NS	NI	NI	NI	NI	NI	1	NS	NS	20	490	NS	1000	NS	100	45	NS	40	64	70	NS	NI	NS	NS	96	47	NS	NS	NS	NI	NI	390	1	18	45	NS
Sep-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	3100	NS	81	2300	1200	11	21	19	1400	12	6	23	190	NI	890	2200	12	8	1200	16	8	NI	NI	430	6	4	11	2
Oct-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	3800	NS	78	2500	1100	1	16	16	1200	8	7	4	190	NI	250	4200	11	8	1100	11	13	NI	NI	67	100	8	25	1
Nov-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	4500	7	141	2200	1800	1	42	56	1100	6	7	15	270	NI	1600	4200	15	8	1100	10	9	NI	NI	420	8	5	13	1
Dec-85	NS	NS	NS	NI	NI	NI	NI	NI	NS	1	6100	NS	100	3500	1700	1	28	1	1700	6	10	1	270	NI	3000	9100	270	37	1200	14	8	NI	NI	1000	3	9	13	1
Jan-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	5900	NS	80	1700	1300	1	22	1	3900	14	9	14	180	NI	4600	5700	12	9	1900	13	10	NI	NI	1	1	100	14	NS
Feb-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	2600	NS	78	1800	1700	15	15	1	3900	21	7	11	100	NI	4000	6000	14	10	3100	14	12	NI	NI	530	10	6	16	1
Apr-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	1	9600	NS	40	920	2000	1	11	1	3200	19	4	7	140	NI	3100	9600	7	6	2400	11	5	NI	NI	920	2	5	7	8
Jun-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	6600	NS	6	1200	2000	60	15	21	9200	20	6	20	150	NI	1600	2200	13	8	8000	10	9	NI	NI	610	4	5	20	10
Aug-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	6600	NS	61	880	1700	1	16	10	13000	11	NS	15	97	NI	590	1400	10	7	9700	10	8	NI	NI	1100	8	4	16	1
Oct-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	1100	NS	56	1300	1500	410	13	11	6300	12	6	25	120	NI	670	4100	1	8	7300	10	7	NI	NI	660	3	10	30	4
Dec-86	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	440	NS	870	700	1400	1	6	5	4500	9	5	31	100	NI	590	5100	9	4	5100	42	4	NI	NI	1300	6	150	9	1
Feb-87	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	290	NS	1200	1800	1500	1	19	1	4800	13	6	26	210	NI	430	3700	9	6	5300	10	6	NI	NI	500	12	6	44	3
Apr-87	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	620	NS	230	2200	2200	1	11	43	4600	13	7	22	140	NI	530	980	10	5	5300	5	15	NI	NI	2400	5	14	34	1
Jun-87	NS	NS	NS	NI	NI	NI	NI	NI	NS	NS	550	NS	120	1500	1100	1	10	26	9800	3	5	25	340	NI	520	230	5	7	12000	3	4	NI	NI	1800	5	22	16	1
Aug-87	NS	NS	NS	NI	NI	NI	NI	NI	1	NS	350	1	53	1200	980	ND	ND	ND	1400	5	7	18	320	NI	560	1200	ND	ND	14000	8	10	NI	NI	1800	6	24	40	1
Oct-87	NS	NS	NS	NI	NI	NI	NI	NI	ND	NS	400	ND	38	850	930	ND	ND	ND	7800	4	55	ND	150	NI	660	1600	13	ND	8600	ND	15	NI	NI	1600	ND	5	37	1
Dec-87	NS	NS	NS	NI	NI	NI	NI	NI	ND	NS	630	ND	30	320	850	ND	ND	ND	ND	NS	5	38	210	NI	700	750	ND	12	8000	ND	16	NI	NI	1400	ND	25	19	2
Mar-88	NS	NS	NS	NI	NI	NI	NI	NI	ND	NS	3000	ND	ND	320	700	ND	7	ND	5400	6	15	ND	70	NI	1100	760	ND	ND	4600	590	17	NI	NI	79	ND	9	13	ND
Jun-88	NS	NS	NS	8600	1	21	NI	NI	ND	ND	2000	ND	27	710	1100	ND	10	24	2300	5	32	ND	190	NI	1100	1400	ND	5	3100	ND	39	NI	NI	1200	3	21	20	ND
Sep-88	NS	NS	NS	5770	ND	8	NI	NI	ND	NS	2353	ND	33	500	1600	ND	ND	ND	1200	ND	16	ND	67	NI	1100	3000	ND	4	1600	ND	21	NI	NI	760	ND	3	22	ND
Dec-88	NS	NS	164	8225	ND	6	NI	NI	1	NS	2800	ND	ND	470	3800	NS	10	40	760	4	15	ND	NS	NI	1280	1800	6	ND	1600	ND	40	NI	NI	1200	ND	38	26	ND
Mar-89	NS	NS	33	6100	NS	NS	NI	NI	NS	ND	2800	NS	55	NS	2600	ND	NS	40	NS	79	21	40	NS	NI	1300	3500	11	ND	1300	ND	35	NI	NI	760	ND	13	28	ND
Jun-89	NS	NS	NS	NS	NS	NS	NI	NI	ND	ND	NS	ND	50	NS	1200	ND	NS	NS	170	1	17	NS	180	NI	650	2400	8	ND	1200	ND	51	NI	NI	650	ND	41	20	ND
Oct-89	NS	NS	NS	NS	NS	NS	NI	NI	ND	ND	NS	NS	120	NS	NS	NS	NS	NS	NS	NS	8	ND	140	ND	480	790	16	ND	770	ND	8	ND	ND	560	ND	52	22	ND
Jan-90	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	460	670	ND	ND	400	ND	13	ND	NS	170	ND	6	9	1
Apr-90	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	420	NS	NS	NS	NS	NS	NS	NS	NS	NS	2	NS	NS	ND	850	530	4	14	270	ND	14	ND	ND	290	ND	27	5	ND
Jul-90	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	730	620	18	ND	250	ND	14	ND	NS	320	ND	36	13	ND
Oct-90	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	1	NS	NS	ND	510	400	ND	ND	300	ND	15	ND	ND	230	ND	40	7	ND
Jan-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	170	NS	NS	NS	NS	NS	NS	NS	62	NS	NS	NS	NS	NS	455	420	ND	ND	220	ND	15	ND	NS	260	ND	NS	7	ND
Apr-91	NS	NS	NS	NS	NS	NS	NI	NI	ND	NS	180	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	280	520	12	ND	245	ND	15	ND	ND	150	ND	25	6	ND
Jul-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	250	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	230	690	13	ND	1830	ND	14	ND	NS	260	ND	58	9	1
Oct-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	810	1500	ND	ND	760	ND	13	ND	ND	220	ND	22	ND	ND
Jan 92	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	NS	490	360	8	ND	500	ND	11	ND	NS	56	ND	5	5	ND
Apr 92	NS	NS	NS	NS	NS	NS	NI	NI	ND	NS	102	ND	127	NS	NS	NS	NS	NS	54	NS	ND	NS	NS	ND	242	494	7	3	92	3	ND	3	ND	155	3	ND	ND	ND
Jul 92	NS	NS	NS	NS	NS	NS	NI	NI	ND	NS	174	NS	332	717	558	NS	NS	NS	NS	NS	2	NS	NS	ND	616	102	9	5	135	5	12	5	NS	1115	7	15	7	ND
Oct 92	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	205	NS	32	NS	197	NS	NS	NS	146	NS	5	NS	NS	3	123	715	3	7	158	7	11	1	ND	8053	19	24	13	ND
Jan 93	NS	NS	NS	NS	NS	NS	59	8	ND	NS	NS	ND	821	394	475	NS	NS	NS	660	NS	2	NS	684	ND	389	2203	NS	NS	795	NS	NS	NS	NS	3613	NS	11	NS	ND
Apr 93	NS	NS	NS	NS	NS	NS	81	ND	ND	ND	78	ND	707	1616	741	NS	170	157	373	3	5	20	525	ND	1027	1504	10	ND	1720	2	4	6	4	2420	2	19	11	ND
Jul 93	NS	NS	NS	NS	NS	NS	NS	3	ND	ND	84	ND	703	575	854	6	241	171	340	ND	ND	21	NS	ND	598	663	NS	NS	1538	NS	NS	NS	NS	1917	NS	27	NS	1
Oct 93	NS	NS	NS	NS	NS	NS	146	2	ND	ND	44	ND	379	354	434	NS	NS	73	336	12	2	9	NS	ND	415	990	7	4	448	1	NS	3	NS	1660	6	18	NS	1

APPENDIX C-2
HISTORICAL cis-1,2-DICHLOROETHENE CONCENTRATIONS IN GROUNDWATER
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L)

	Extraction Wells								A-Zone Wells																B1-Zone Wells									B2-Zone Wells				B3-Zone Well
Date	**DW-1**	**DW-2**	**DW-3**	**DW-4**	**DW-5**	**DW-6**	**DW-7**	**DW-8**	**14-S**	**15-S**	**16-S**	**17-S**	**21-S**	**22-S**	**23-S**	**25-S**	**26-S**	**27-S**	**28-S**	**29-S**	**36-S**	**37-S**	**38-S**	**54-S**	**16-D**	**23-D**	**25-D**	**27-D**	**28-D**	**29-D**	**36-D**	**52-D**	**53-D**	**22-DD**	**27-DD**	**30-DD**	**36-DD**	**35-DDD**
Jan 94	NS	NS	NS	NS	NS	NS	NS	9	ND	ND	37	ND	606	386	797	13	221	83	605	45	1	7	NS	ND	538	577	NS	NS	879	NS	NS	NS	NS	798	NS	21	NS	1
Apr 94	NS	NS	NS	NS	NS	NS	118	ND	ND	ND	37	ND	518	293	487	24	260	34	222	7	2	8	NS	ND	352	430	7	4	696	4	2	3	ND	1246	7	22	8	ND
Jul 94	NS	NS	NS	NS	NS	NS	115	ND	ND	ND	67	0.9	592	285	637	16	302	46	525	5	0.6	13	362	ND	378	306	NS	NS	648	NS	NS	NS	NS	138	NS	17	NS	1
Oct-94	NS	NS	NS	NS	NS	NS	72	6	ND	ND	156	ND	780	331	985	7	181	40	786	2	ND	6	151	ND	510	687	4	2	837	4	NS	ND	NS	156	5	14	NS	0.6
Jan-95	NS	NS	NS	NS	NS	NS	84	5.8	ND	ND	68	ND	543	386	515	ND	15	25	309	0.8	ND	25	501	ND	278	733	NS	NS	550	NS	NS	NS	NS	1948	NS	9.3	NS	ND
Apr-95	NS	NS	NS	NS	NS	NS	98.7	7.1	ND	ND	149	ND	480	264	1025	29	92	21	577	4.7	ND	4.9	223	ND	247	686	8.8	3.9	640	4.3	8.6	3.6	0.7	1448	13	7.7	13	ND
Jul-95	NS	NS	NS	NS	NS	NS	499	2.3	ND	ND	58	ND	514	204	613	8.8	152	51	719	6.2	1.1	6	222	ND	327	633	NS	NS	709	NS	NS	NS	NS	723	NS	77	NS	ND
Oct-95	NS	NS	NS	NS	NS	NS	84	ND	ND	ND	150	ND	330	410	888	14	87	20	903	ND	ND	ND	140	ND	220	460	ND	ND	864	ND	NS	ND	NS	400	ND	92	NS	ND
Apr-96	1638	NS	31	770	120	13	147	7.2	ND	ND	ND	11	405	172.3	693	5.2	84	20	644	3.2	ND	3.2	364	ND	ND	518	2.9	2.2	556	4.1	12	ND	ND	354	8	79	0.6	ND
Oct-96	NS	NS	NS	NS	NS	NS	54	ND	NS	NS	93	NS	170	310	270	3.5	NS	ND	490	ND	NS	NS	550	NS	232	440	2.9	ND	390	ND	NS	ND	NS	470	5.3	8.9	NS	ND
Apr-97	980	NS	8.6	188	56	11	80	2.8	ND	ND	96	55	391	366	299	4.3	47	21	404	16	6	7.8	404	ND	303	562	9	4.8	459	4.7	45	1.3	ND	736	15	11	42.7	ND
Oct-97	1400	NS	17	410	53	14	86	NS	1.9	ND	90	85	286	194	228	5.4	49	32	387	5.4	21	12	520	ND	236	230	5.2	4.5	371	6.9	92	ND	ND	194	18	20	50	ND
Apr-98	830	NS	NS	NS	NS	NS	NS	NS	2.2	NS	NS	NS	NS	NS	NS	6.6	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	130	NS	NS	NS	ND	NS	42	NS
Oct-98	890	NS	NS	NS	67	NS	NS	6	3.5	ND	34	230	40	180	NS	7	NS	23	330	10	13	NS	NS	NS	200	160	NS	2.4	NS	4.1	2	ND	ND	320	9.2	NS	69	ND
May-99	NS	NS	8.5	220	20	7	86	25	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oct-99	1505	NS	NS	230	54	11	91.5	22	ND	NS	66	200	28	260	220	ND	NS	81	708	7.9	167.7	147.1	NS	NS	23	220	NS	ND	575	ND	ND	4.2	ND	298.5	18	NS	97	ND
Jan-00	NS	NS	NS	73	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	57	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	199	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oct-00	940	NS	NS	190	140	13	68	20	21	NS	79	180	NS	170	180	12	NS	45	210	6.9	100	9.7	NS	NS	160	290	NS	3.2	400	4.9	97	ND	ND	NS	11	NS	100	ND
Oct-01	890	NS	NS	140	160	13	82	15	96	NS	62	180	NS	150	150	40	NS	62	91	3.7	110	2.5	NS	NS	190	270	NS	2.5	240	2.9	48	ND	ND	NS	17	NS	110	ND
Oct/Nov-02	490	NS	NS	120	150	22	88	14	120	NS	60	170	NS	180	170	58	NS	72	83	9.3	70	3.7	NS	NS	170	220	NS	4.4	280	1.6	90	31	ND	690	14	NS	130	ND
Oct-03	13000	NS	NS	150	28	26	97	91	160	NS	160	140	NS	250	210	0.6	NS	110	85	4	53	2.9	NS	NS	340	150	NS	71	91	0.7	57	33	4.5	300	16	NS	29	ND
Oct-04	14000	NS	NS	87	18	2.1	100	18	150	NS	26	90	NS	190	240	37	NS	160	NS	5.3	34	3.3	NS	NS	520	92	NS	32	34	ND	46	1.3	6.9	150	8.6	NS	31	ND
Oct-05	17000	NS	NS	NS	NS	NS	NS	NS	140	NS	27	61	NS	180	96	74	NS	75	29	1.7	22	5.2	NS	NS	140	74	NS	26	54	ND	1.5	2.1	4.4	160	4.7	NS	73	ND
Oct-06	NS	NS	NS	NS	NS	NS	69	99	130	NS	18	65	NS	14	67	NS	NS	27	3.3	1.7	20	8.5	NS	NS	50	47	NS	15	7.3	72	42	2.2	0.7	10	3.2	NS	22	ND
Oct-07	NS	NS	NS	NS	NS	NS	NS	NS	120	2.1	19	57	NS	27	60	NS	NS	6.4	1.5	0.8	15	2.4	NS	NS	20	28	NS	1.4	2.0	0.7	6.1	1.4	ND	96	2.2	NS	22	ND
Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	16	4.2	NS	NS	41	130	NS	NS	23	8.1	1.7	13	3.6	NS	NS	2.5	8	NS	2.5	12	0.9	5.8	1.7	ND	21	2.4	NS	24	ND
Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.1	18	NS	NS	31	200	NS	NS	52	18	1	9.3	2.2	NS	NS	240	350	NS	1.5	10	11	40	1	ND	84	2.9	NS	35	ND
Oct-10	1.2	1.1	NS	NS	NS	NS	52	NS	NS	9.3	6.9	NS	NS	25	350	NS	NS	79	6.1	1.6	11	3.7	NS	NS	180	360	NS	1.9	15	1.5	34	1.8	ND	78	3.9	NS	14	ND
Oct-11	7.4	0.7	NS	NS	NS	NS	36	NS	NS	3.6	2	NS	NS	27	270	NS	NS	66	0.6	2.8	8	2.3	NS	NS	14	7.4	NS	1.7	0.8	0.9	34	1.1	ND	12	3.1	NS	10	ND
Oct-12	1.8	ND	NS	NS	NS	NS	26	NS	NS	5.0	3.2	NS	NS	25	120	NS	NS	64	3.5	2.2	10	2.5	NS	NS	16	4.6	NS	2.1	1.9	1.2	29	1.7	ND	18	3.5	NS	24	ND
Oct-13	0.6	2.0	NS	NS	NS	NS	150	NS	NS	6.1	2.0	NS	NS	23	130	NS	NS	110	4.4	1.5	8.1	1.6	NS	NS	22	6.6	NS	1.3	0.8	0.6	28	1.4	ND	3.8	5.8	NS	11	ND
Oct-14	ND	0.5	NS	NS	NS	NS	9.3	NS	NS	1.5	1.6	NS	NS	28	130	NS	NS	180	10	1.3	13	2.7	NS	NS	3.3	4.7	NS	2.4	2.0	0.9	23	1.3	ND	5.5	4.6	NS	7.1	ND
Oct-15	3.2	0.8	NS	NS	NS	NS	4.2	NS	NS	ND	1.8	NS	NS	24	91	NS	NS	220	6.1	6.1	9.0	3.8	NS	NS	15	6.0	NS	1.9	100	1.2	12	1.4	ND	10	7.2	NS	5.7	ND

Abbreviations:

ND	Not Detected
NI	Not Installed
NS	Not Sampled

APPENDIX C-3
HISTORICAL TOTAL VOLATILE ORGANIC COMPOUND CONCENTRATIONS IN GROUNDWATER
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

Concentrations reported in micrograms per liter (µg/L)

Well	Extraction Wells								A-Zone Wells																B1-Zone Wells									B2-Zone Wells				B3-Zone Well
ID	DW-1	DW-2	DW-3	DW-4	DW-5	DW-6	DW-7	DW-8	14-S	15-S	16-S	17-S	21-S	22-S	23-S	25-S	26-S	27-S	28-S	29-S	36-S	37-S	38-S	54-S	16-D	23-D	25-D	27-D	28-D	29-D	36-D	52-D	53-D	22-DD	27-DD	30-DD	36-DD	35-DDD
Jan-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	208	NS	NS	NS	NS	NS	NS	NS	122	NS	NS	NS	NS	NS	1310	1920	474	369	348	486	125	462	NS	1010	384	103	40	2
Apr-91	NS	NS	NS	NS	NS	NS	NI	NI	ND	NS	235	NS	NS	NS	NS	NS	NS	NS	NS	NS	ND	NS	NS	4	1160	1515	464	432	405	582	125	197	4	590	399	192	33	1
Jul-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	363	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	857	2090	449	410	2830	483	129	341	NS	987	304	728	48	1
Oct-91	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	6.6	1692	2600	390	320	1170	400	143	190	4.4	898	250	95	42	0.8
Jan-92	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	21	NS	NS	NS	1332	1290	433	393	820	436	121	211	NS	706	290	25	25	ND
Apr-92	NS	NS	NS	NS	NS	NS	NI	NI	1.5	NS	217	1.4	374	NS	NS	NS	NS	NS	169	NS	53	NS	NS	ND	469	1485	145	262	202	133	123	197	ND	441	259	66	25	1.2
Jul-92	NS	NS	NS	NS	NS	NS	NI	NI	ND	NS	263	NS	1065	841	757	NS	NS	NS	NS	NS	64	NS	NS	4.5	1161	1238	461	411	287	441	149	366	NS	1660	408	274	31	0.9
Oct-92	NS	NS	NS	NS	NS	NS	NI	NI	NS	NS	352	NS	255	NS	445	NS	NS	NS	330	NS	57	NS	NS	21	301	1554	125	254	339	415	119	132	4.6	8392	318	177	40	1.6
Jan-93	NS	NS	NS	NS	NS	NS	850	29	ND	NS	NS	ND	1967	454	584	NS	NS	NS	920	NS	64	NS	1089	ND	1275	3453	NS	NS	1124	NS	NS	NS	NS	4069	NS	35	NS	ND
Apr-93	NS	NS	NS	NS	NS	NS	536	12	ND	ND	154	4	2236	1932	2375	NS	218	616	751	128	60	767	1198	4.3	1457	2577	813	423	2115	81	94	390	9.9	2806	152	84	49	2.9
Jul-93	NS	NS	NS	NS	NS	NS	NS	259	ND	8.2	173	5.4	1667	679	1996	48	280	737	689	97	74	640	NS	4.4	1490	1949	NS	NS	2036	NS	NS	NS	NS	2314	NS	115	NS	5.1
Oct-93	NS	NS	NS	NS	NS	NS	706	171	1.2	ND	128	4	951	465	815	NS	NS	439	574	81	69	444	NS	4	767	1789	416	321	599	145	NS	112	NS	2089	350	498	NS	4.7
Jan-94	NS	NS	NS	NS	NS	NS	NS	306	ND	ND	101	6	1213	480	1384	20	262	563	936	94	50	291	NS	2.5	819	1740	NS	NS	1137	NS	NS	NS	NS	1146	NS	402	NS	3.7
Apr-94	NS	NS	NS	NS	NS	NS	548	310	ND	ND	103	6	1241	361	923	34	296	419	515	54	45	414	NS	7.2	622	1444	404	385	965	424	92	177	ND	1567	450	57	65	2.9
Jul-94	NS	NS	NS	NS	NS	NS	584	284	ND	ND	139	5.1	1340	475	1370	37	368	464	806	147	41	416	1320	4	721	650	NS	NS	891	NS	NS	NS	NS	420	NS	57	NS	6.5
Oct-94	NS	NS	NS	NS	NS	NS	560	378	ND	ND	299	4.7	1528	518	1629	61	271	735	1000	208	23	417	379	4.2	764	1631	385	304	1196	329	NS	8.8	NS	660	306	75	NS	2.6
Jan-95	NS	NS	NS	NS	NS	NS	476	369	ND	ND	153	1.4	1093	492	986	8	100	576	517	77	ND	323	1091	302	506	1238	NS	NS	935	NS	NS	NS	NS	2106	NS	25	NS	ND
Apr-95	NS	NS	NS	NS	NS	NS	550	266	ND	ND	280	1.8	959	429	1515	38	194	537	848	138	18	280	864	5	586	1360	458	289	877	330	67	277	1.3	1608	490	42	62	1.9
Jul-95	NS	NS	NS	NS	NS	NS	681	255	ND	ND	151	2.7	1155	427	1032	14	537	730	1080	163	27	432	1044	4.1	740	1515	NS	NS	1061	NS	NS	NS	NS	1015	NS	315	NS	1.8
Oct-95	NS	NS	NS	NS	NS	NS	474	330	ND	ND	313	5	1360	628	1466	26	467	842	1283	190	22	410	1440	4.2	545	1212	310	280	1174	300	NS	16	NS	750	770	512	NS	2.6
Apr-96	3578	NS	262	1068	212	411	507	279	ND	ND	172	15	982	281	911	16	379	681	910	94	7.9	256	1077	3.1	177	1084	68	233	804	375	26	46	0.6	575	431	396	65	0.6
Oct-96	NS	NS	NS	NS	NS	NS	294	246	NS	NS	154	NS	552	455	327	18	NS	750	739	110	NS	NS	920	NS	319	750	241	190	563	200	NS	21	NS	562	333	102	NS	0.8
Apr-97	2609	NS	218	336	145	252	363	227	ND	ND	192	60	868	560	384	96	172	468	845	103	27	178	524	4.3	502	954	27	247	766	115	77	63	ND	997	294	29	61	1.4
Oct-97	3850	NS	220	663	142	254	327	NS	1.9	ND	198	94	680	380	346	92	169	695	792	111	41	272	680	4.3	416	485	222	215	645	225	147	0.7	ND	417	339	74	64	1.8
Apr-98	2230	NS	NS	NS	NS	NS	NS	NS	2.2	NS	NS	NS	NS	NS	NS	102	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	211	NS	NS	NS	250	NS	53	NS
Oct-98	1886	NS	NS	NS	166	NS	NS	276	3.5	ND	104	253	289	312	NS	50	NS	236	712	109	20	NS	NS	NS	318	404	NS	202	NS	205	3.1	0.7	ND	549	299	NS	81	1.6
May-99	NS	NS	249	546	75	221	344	264	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oct-99	3380	NS	NS	531	145	291	337	260	0	0	169	218	355	351	302	32	NS	957	1329	79	270	230	NS	NS	387	520	NS	218	1009	156	3	226	0	519	336	NS	103	ND
Jan-00	NS	NS	NS	169	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	844	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	374	NS	NS	NS	NS	NS	NS	NS	NS	NS
Oct-00	2070	NS	NS	546	269	208	298	235	21.6	NS	197	201	NS	263	287	131	NS	689	623	62	195	216	NS	NS	254	478	NS	207	842	176	217	6.2	6	NS	218	NS	109	1
Oct-01	2342	NS	NS	454	278	256	354	274	97	NS	179	213	NS	235	291	121	NS	773	388	35	261	155	NS	NS	309	470	NS	152	748	171	120	8	6	NS	331	NS	125	1
Oct/Nov-02	1238	NS	NS	422	271	266	316	295	122	NS	176	213	NS	285	302	162	NS	1011	442	37	218	175	NS	NS	339	444	NS	203	642	62	251	56	8	832	344	NS	143	1
Oct-03	26593	NS	NS	333	91	241	360	373	162	NS	429	186	NS	410	362	5	NS	1120	340	56	160	164	NS	NS	471	403	NS	198	377	11	176	57	9	505	246	NS	37	1
Oct-04	30500	NS	NS	295	28	18	343	275	152	NS	156	135	NS	416	363	116	NS	727	NS	97	132	116	NS	NS	874	365	NS	73	121	4	142	3	10	446	207	NS	39	0.7
Oct-05	35490	NS	NS	NS	NS	NS	NS	NS	142	NS	152	106	NS	476	217	181	NS	579	146	23	118	97	NS	NS	267	201	NS	74	261	7	7	36	6	343	119	NS	89	1.5
Oct-06	NS	NS	NS	NS	NS	NS	102.6	111.4	133	NS	94	130	NS	171	169	NS	NS	387	60	36	124	95	NS	NS	119	89	NS	93	61	103	142	38	7	118	101	NS	31	0.5
Oct-07	NS	NS	NS	NS	NS	NS	NS	NS	123	33.9	132	135	NS	108	153	NS	NS	144	42	19	88	86	NS	NS	184	247	NS	128	51	59	24	42	6	147	84	NS	28	ND
Oct-08	NS	NS	NS	NS	NS	NS	NS	NS	NS	32	19	NS	NS	83	221	NS	NS	321	27	29	115	86	NS	NS	16	308	NS	138	28	54	34	35	9	167	101	NS	28	ND
Oct-09	NS	NS	NS	NS	NS	NS	NS	NS	NS	19	71	NS	NS	77	265	NS	NS	411	96	15	92	95	NS	NS	383	597	NS	118	44	107	61	31	8	212	90	NS	41	ND
Oct-10	18.2	2.5	NS	NS	NS	NS	199.3	NS	NS	20.3	47.3	NS	NS	85.4	556.5	NS	NS	396	103.7	20.3	89.8	64.6	NS	NS	380.6	603	NS	117.8	116.5	38.7	84.3	38.3	6.9	206.6	65.2	NS	16.9	ND
Oct-11	29.4	6.6	NS	NS	NS	NS	179.8	NS	NS	7	24.4	NS	NS	97	428	NS	NS	350.2	25.2	68.4	84	66.1	NS	NS	149.9	246.9	NS	116.1	11.3	65.5	65.6	29.4	6.3	165.3	57	NS	20	ND
Oct-12	5.3	ND	NS	NS	NS	NS	139.7	NS	NS	11.2	52.5	NS	NS	92	194.8	NS	NS	349.8	63.3	33	92.6	66.3	NS	NS	201.4	284.6	NS	104.1	27.2	54.2	79.2	34	6.9	173.6	65.8	NS	32.3	ND
Oct-13	11.7	4.0	NS	NS	NS	NS	261.7	NS	NS	13.1	17.2	NS	NS	98	214.5	NS	NS	361.2	48.7	28.8	84.9	97.6	NS	NS	188.1	286.6	NS	93.6	8.4	29.8	68.1	34.1	6.9	173.8	44.2	NS	13.2	ND
Oct-14	4.9	2.8	NS	NS	NS	NS	111.8	NS	NS	3.8	50.0	NS	NS	111.3	204.3	NS	NS	456.0	86.0	25.6	91.9	86.5	NS	NS	91.1	292.4	NS	126.6	24.3	60.8	82.3	35.5	5.8	185.5	53.4	NS	8.9	ND
Oct-15	16.1	3.8	NS	NS	NS	NS	90.6	NS	NS	0.9	37.5	NS	NS	119.5	194.0	NS	NS	382.3	88.7	63.6	82.8	53.7	NS	NS	270.7	266.0	NS	107.8	145	61.7	54.2	36.6	5.0	180.0	41.3	NS	8.5	ND

Abbreviations:

ND	Not Detected
NI	Not Installed
NS	Not Sampled

APPENDIX D

Laboratory Analytical Reports

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 270723
ANALYTICAL REPORT

Haley & Aldrich, Inc. 1956 Webster Street Oakland, CA 94612	Project : 39751 Location : Annual GWM Level : II

Sample ID	Lab ID
35-DDD	270723-001
27-D	270723-002
29-S	270723-003
29-D	270723-004
15-S	270723-005
53-D	270723-006
1-D	270723-007
TB-1	270723-008
EB-1	270723-009
52-D	270723-010
37-S	270723-011
36-D	270723-012
36-DD	270723-013
36-S	270723-014
28-D	270723-015
28-S	270723-016
22-DD	270723-017
22-S	270723-018
27-S	270723-019
27-DD	270723-020
2-D	270723-021
EB-2	270723-022

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 10/26/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**270723**
Client:	**Haley & Aldrich, Inc.**
Project:	**39751**
Location:	**Annual GWM**
Request Date:	**10/15/15**
Samples Received:	**10/15/15**

This data package contains sample and QC results for twenty two water samples, requested for the above referenced project on 10/15/15. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Subject: RE: 39751 - C&T Login Summary (270723)
From: "Zlotoff, Michael" <MZlotoff@haleyaldrich.com>
Date: 10/16/2015 9:23 PM
To: Tracy Babjar <tracy.babjar@ctberk.com>
CC: "Calhoun, Michael" <MCalhoun@haleyaldrich.com>, Mike Ninokata <mNinokata@blainetech.com>

Hi Tracy,

The login looks good with the exception of the following:

- Please change Sample 013, Client ID 36-DDD, to 36-DD
- Please change PO# to 39751-014

Thanks,

Michael

Michael J. Zlotoff, PE
Senior Engineer

Haley & Aldrich, Inc.
2107 North First Street | Suite 380
San Jose, CA 95131-2028

T: (408) 961.4810
C: (408) 890.8400
F: (408) 453.8708

www.haleyaldrich.com

From: C&T Sample Control [mailto:sample.control@ctberk.com]
Sent: Thursday, October 15, 2015 11:26 PM
To: Calhoun, Michael; Zlotoff, Michael
Subject: 39751 - C&T Login Summary (270723)

C&T Login Summary for 270723

Project: 39751
Site: Annual GWM
Lab Login #: 270723
Report Level: II
PO#: 39751-015
C&T Proj Mgr: Tracy Babjar

Report To: Haley & Aldrich, Inc.
1956 Webster Street
Suite 450
Oakland, CA 94612
ATTN: Michael Calhoun
(510) 879-4554

Bill To: Haley & Aldrich, Inc.
70 Blanchard Road
Suite 204
Burlington, MA 01803
ATTN: Accounts Payable
(617) 886-7400

Client ID	Lab ID	Sampled	Received	DueDate	Matrix	Dry	Analyses	COC #	Comments
35-DDD	001	10/13/15 13:00	10/15/15			N		151012-BW1	

270723

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 151012-BW1

CLIENT: Haley & Aldrich

SITE: **Annual GWM**
901 Thompson Place
Sunnyvale, CA

LAB: C & T | DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

CONDUCT ANALYSIS TO DETECT

	SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	35-DDD	10/13/15	1300	W	3	VOA		X				
2	27-D		1440	W	3	VOA		X				
3	29-S		1520	W	3	VOA		X				
4	29-D		1550	W	3	VOA		X				
5	15-S		1615	W	3	VOA		X				
6	53-D		1700	W	~~8~~ 9	VOA		X	MS/MSD			
7	1-D		1445	W	3	VOA		X				
8	TB-1		1200	W	2	VOA		X				
9	EB-1		1720	W	3	VOA		X				

SAMPLING COMPLETED: DATE 10/14/15 TIME 1515
SAMPLING PERFORMED BY: Brian Weeks

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/14/15	1800	[signature] S.C.	10/14/15	1800
[signature] (S.C.)	10/15/15	1456	[signature]	10/15/15	1456
[signature]	10/15/15	1722	[signature]	10/15/15	1722

SHIPPED VIA: [signature]
DATE SENT: | TIME SENT: | COOLER #:

start cold RL

270723

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 151012-BW1

CLIENT: Haley & Aldrich

SITE: **Annual GWM**
901 Thompson Place
Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT

LAB: C & T

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

	SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)								ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
10	52-D	10/14/15	0845	W	3	VOA		X											
11	37-S		0910		3			X											
12	36-D		0950		3			X											
13	36-DDD		1035		3			X											
14	36-S		1100		3			X											
15	28-D		1200		3			X											
16	28-S		1225		3			X											
17	22-DD		1315		3			X											
18	22-S		1345		3			X											
19	27-S		1400		3			X											

SAMPLING COMPLETED: DATE 10/14/15 TIME 1515

SAMPLING PERFORMED BY: Brian Weeks

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/14/15	1800	[signature] S.C	10/14/15	1800
[signature] (S.C)	10/15/15	1456	[signature]	10/15/15	1456
[signature]	10/15/15	1722	[signature]	10/15/15	1722

SHIPPED VIA: _____ DATE SENT: _____ TIME SENT: _____ COOLER #: _____

intact cold 0°C

270723

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY
BTS #

CLIENT: Haley & Aldrich

SITE: **Annual GWM**
901 Thompson Place
Sunnyvale, CA

CONDUCT ANALYSIS TO DETECT

LAB: C & T

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
20 27-DD	10/14/15	1510	W	3	VOA		X				
21 2-D	↓	1405	W	3	VOA		X				
22 EB-2	↓	1515	W	3	VOA		X				

SAMPLING COMPLETED: DATE 10/14/15 TIME 1515

SAMPLING PERFORMED BY: Brian Weeks

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/14/15	1800	[signature] S.C.	10/14/15	1800
[signature] (S.C)	10/15/15	1456	[signature]	10/15/15	1456
[signature]	10/15/15	1722	[signature]	10/15/15	1722

SHIPPED VIA

DATE SENT	TIME SENT	COOLER #

intact cold RL

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 270723 Date Received 10/15/15 Number of coolers 2
Client Blaine Tech Services Project Annual GWM

Date Opened 10/15 By (print) CN (sign) [signature]
Date Logged in ↓ By (print) SC (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 0.5°2 2.5

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ YES (NO)
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

14.) Sample 013 labled "36-DD" on container but is marked "36-DDD" on COC

Rev 10, 9/12

Curtis & Tompkins, Ltd.

Detections Summary for 270723

Results for any subcontracted analyses are not included in this summary.

Client : Haley & Aldrich, Inc.
Project : 39751
Location : Annual GWM

Client Sample ID : 35-DDD Laboratory Sample ID : 270723-001

No Detections

Client Sample ID : 27-D Laboratory Sample ID : 270723-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	1.5		0.7	ug/L	As Recd	1.429	EPA 8260B	EPA 5030B
Trichloroethene	80		0.7	ug/L	As Recd	1.429	EPA 8260B	EPA 5030B
Tetrachloroethene	5.3		0.7	ug/L	As Recd	1.429	EPA 8260B	EPA 5030B
1,2,4-Trichlorobenzene	4.0		0.7	ug/L	As Recd	1.429	EPA 8260B	EPA 5030B

Client Sample ID : 29-S Laboratory Sample ID : 270723-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	0.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	0.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,1-Dichloroethane	0.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	6.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,1,1-Trichloroethane	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	54		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 29-D Laboratory Sample ID : 270723-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
1,1-Dichloroethene	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	1.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,1,1-Trichloroethane	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	56		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	3.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 15-S Laboratory Sample ID : 270723-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Curtis & Tompkins, Ltd.

Client Sample ID : 53-D Laboratory Sample ID : 270723-006

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Trichloroethene	5.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 1-D Laboratory Sample ID : 270723-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
1,1-Dichloroethene	0.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	1.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	95		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	5.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2,4-Trichlorobenzene	4.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : TB-1 Laboratory Sample ID : 270723-008

No Detections

Client Sample ID : EB-1 Laboratory Sample ID : 270723-009

No Detections

Client Sample ID : 52-D Laboratory Sample ID : 270723-010

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	1.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	34		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2,4-Trichlorobenzene	1.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 37-S Laboratory Sample ID : 270723-011

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	3.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	49		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 36-D Laboratory Sample ID : 270723-012

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
trans-1,2-Dichloroethene	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	12		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	40		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	1.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Curtis & Tompkins, Ltd.

Client Sample ID : 36-DD Laboratory Sample ID : 270723-013

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	1.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	1.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	5.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 36-S Laboratory Sample ID : 270723-014

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	9.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	71		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	2.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 28-D Laboratory Sample ID : 270723-015

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	27		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chloroethane	1.3		1.0	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	3.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	100		2.5	ug/L	As Recd	5.000	EPA 8260B	EPA 5030B
Trichloroethene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	7.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	5.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 28-S Laboratory Sample ID : 270723-016

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	66		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,1-Dichloroethane	0.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	6.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	1.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	13		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 22-DD Laboratory Sample ID : 270723-017

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	10		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
Trichloroethene	170		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B

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Client Sample ID : 22-S Laboratory Sample ID : 270723-018

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	5.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	9.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	24		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	45		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	2.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	2.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	1.6		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	29		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 27-S Laboratory Sample ID : 270723-019

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	3.6		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
1,1-Dichloroethene	3.5		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	8.5		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	220		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Trichloroethene	99		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Tetrachloroethene	7.1		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
1,3-Dichlorobenzene	14		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	2.3		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
1,2,4-Trichlorobenzene	24		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B

Client Sample ID : 27-DD Laboratory Sample ID : 270723-020

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	7.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	30		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	1.3		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2,4-Trichlorobenzene	2.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : 2-D Laboratory Sample ID : 270723-021

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	3.6		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
1,1-Dichloroethene	2.8		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	8.9		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	220		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
Trichloroethene	100		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
Tetrachloroethene	8.3		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
1,3-Dichlorobenzene	13		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	2.3		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
1,2,4-Trichlorobenzene	22		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B
1,2,3-Trichlorobenzene	1.4		1.3	ug/L	As Recd	2.500	EPA 8260B	EPA 5030B

Client Sample ID : EB-2 Laboratory Sample ID : 270723-022

No Detections

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	35-DDD	Batch#:	228418
Lab ID:	270723-001	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	27-D	Batch#:	228496
Lab ID:	270723-002	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.429		

Analyte	Result	RL
Chloromethane	ND	1.4
Vinyl Chloride	ND	0.7
Bromomethane	ND	1.4
Chloroethane	ND	1.4
Trichlorofluoromethane	ND	1.4
Freon 113	ND	2.9
1,1-Dichloroethene	ND	0.7
Methylene Chloride	ND	29
trans-1,2-Dichloroethene	ND	0.7
1,1-Dichloroethane	ND	0.7
cis-1,2-Dichloroethene	1.5	0.7
Chloroform	ND	1.4
1,1,1-Trichloroethane	ND	0.7
Carbon Tetrachloride	ND	0.7
1,2-Dichloroethane	ND	0.7
Trichloroethene	80	0.7
1,2-Dichloropropane	ND	0.7
Bromodichloromethane	ND	0.7
cis-1,3-Dichloropropene	ND	0.7
trans-1,3-Dichloropropene	ND	0.7
1,1,2-Trichloroethane	ND	0.7
Tetrachloroethene	5.3	0.7
Dibromochloromethane	ND	0.7
Chlorobenzene	ND	0.7
Bromoform	ND	0.7
1,1,2,2-Tetrachloroethane	ND	0.7
1,3-Dichlorobenzene	ND	0.7
1,4-Dichlorobenzene	ND	0.7
1,2-Dichlorobenzene	ND	0.7
1,2,4-Trichlorobenzene	4.0	0.7
1,2,3-Trichlorobenzene	ND	0.7

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	29-S	Batch#:	228418
Lab ID:	270723-003	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	0.7	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	0.7	0.5
1,1-Dichloroethane	0.7	0.5
cis-1,2-Dichloroethene	6.1	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	0.5	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	54	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	0.9	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	114	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	29-D	Batch#:	228418
Lab ID:	270723-004	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	0.6	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	1.2	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	0.8	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	56	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	3.1	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	117	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	15-S	Batch#:	228418
Lab ID:	270723-005	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	0.9	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	53-D	Batch#:	228420
Lab ID:	270723-006	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	5.0	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	75-139
Toluene-d8	102	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	1-D	Batch#:	228545
Lab ID:	270723-007	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/21/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	0.7	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	1.9	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	95	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	5.6	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	4.6	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	96	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	TB-1	Batch#:	228449
Lab ID:	270723-008	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	107	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	EB-1	Batch#:	228449
Lab ID:	270723-009	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	52-D	Batch#:	228449
Lab ID:	270723-010	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	1.4	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	34	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	1.2	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	107	80-120
Bromofluorobenzene	105	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	37-S	Batch#:	228449
Lab ID:	270723-011	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	3.8	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	49	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	0.9	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	114	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	36-D	Batch#:	228449
Lab ID:	270723-012	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	0.6	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	12	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	40	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	1.6	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	36-DD	Batch#:	228449
Lab ID:	270723-013	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	1.7	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	1.1	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	5.7	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	36-S	Batch#:	228449
Lab ID:	270723-014	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	9.0	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	71	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	2.8	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	28-D	Sampled:	10/14/15
Lab ID:	270723-015	Received:	10/15/15
Matrix:	Water	Analyzed:	10/20/15
Units:	ug/L		

Analyte	Result	RL	Diln Fac	Batch#
Chloromethane	ND	1.0	1.000	228449
Vinyl Chloride	27	0.5	1.000	228449
Bromomethane	ND	1.0	1.000	228449
Chloroethane	1.3	1.0	1.000	228449
Trichlorofluoromethane	ND	1.0	1.000	228449
Freon 113	ND	2.0	1.000	228449
1,1-Dichloroethene	ND	0.5	1.000	228449
Methylene Chloride	ND	20	1.000	228449
trans-1,2-Dichloroethene	3.0	0.5	1.000	228449
1,1-Dichloroethane	ND	0.5	1.000	228449
cis-1,2-Dichloroethene	100	2.5	5.000	228495
Chloroform	ND	1.0	1.000	228449
1,1,1-Trichloroethane	ND	0.5	1.000	228449
Carbon Tetrachloride	ND	0.5	1.000	228449
1,2-Dichloroethane	ND	0.5	1.000	228449
Trichloroethene	0.5	0.5	1.000	228449
1,2-Dichloropropane	ND	0.5	1.000	228449
Bromodichloromethane	ND	0.5	1.000	228449
cis-1,3-Dichloropropene	ND	0.5	1.000	228449
trans-1,3-Dichloropropene	ND	0.5	1.000	228449
1,1,2-Trichloroethane	ND	0.5	1.000	228449
Tetrachloroethene	ND	0.5	1.000	228449
Dibromochloromethane	ND	0.5	1.000	228449
Chlorobenzene	7.4	0.5	1.000	228449
Bromoform	ND	0.5	1.000	228449
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	228449
1,3-Dichlorobenzene	ND	0.5	1.000	228449
1,4-Dichlorobenzene	0.5	0.5	1.000	228449
1,2-Dichlorobenzene	5.1	0.5	1.000	228449
1,2,4-Trichlorobenzene	ND	0.5	1.000	228449
1,2,3-Trichlorobenzene	ND	0.5	1.000	228449

Surrogate	%REC	Limits	Diln Fac	Batch#
1,2-Dichloroethane-d4	115	75-139	1.000	228449
Toluene-d8	107	80-120	1.000	228449
Bromofluorobenzene	100	80-120	1.000	228449

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	28-S	Batch#:	228449
Lab ID:	270723-016	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	66	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	0.8	0.5
1,1-Dichloroethane	0.6	0.5
cis-1,2-Dichloroethene	6.1	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	1.4	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	0.8	0.5
1,2-Dichlorobenzene	13	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	22-DD	Batch#:	228496
Lab ID:	270723-017	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	2.500		

Analyte	Result	RL
Chloromethane	ND	2.5
Vinyl Chloride	ND	1.3
Bromomethane	ND	2.5
Chloroethane	ND	2.5
Trichlorofluoromethane	ND	2.5
Freon 113	ND	5.0
1,1-Dichloroethene	ND	1.3
Methylene Chloride	ND	50
trans-1,2-Dichloroethene	ND	1.3
1,1-Dichloroethane	ND	1.3
cis-1,2-Dichloroethene	10	1.3
Chloroform	ND	2.5
1,1,1-Trichloroethane	ND	1.3
Carbon Tetrachloride	ND	1.3
1,2-Dichloroethane	ND	1.3
Trichloroethene	170	1.3
1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3
cis-1,3-Dichloropropene	ND	1.3
trans-1,3-Dichloropropene	ND	1.3
1,1,2-Trichloroethane	ND	1.3
Tetrachloroethene	ND	1.3
Dibromochloromethane	ND	1.3
Chlorobenzene	ND	1.3
Bromoform	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.3
1,3-Dichlorobenzene	ND	1.3
1,4-Dichlorobenzene	ND	1.3
1,2-Dichlorobenzene	ND	1.3
1,2,4-Trichlorobenzene	ND	1.3
1,2,3-Trichlorobenzene	ND	1.3

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	22-S	Batch#:	228496
Lab ID:	270723-018	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	5.9	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	9.8	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	24	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	45	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	2.1	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	2.1	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	1.6	0.5
1,2-Dichlorobenzene	29	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	27-S	Batch#:	228496
Lab ID:	270723-019	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/21/15
Diln Fac:	3.333		

Analyte	Result	RL
Chloromethane	ND	3.3
Vinyl Chloride	3.6	1.7
Bromomethane	ND	3.3
Chloroethane	ND	3.3
Trichlorofluoromethane	ND	3.3
Freon 113	ND	6.7
1,1-Dichloroethene	3.5	1.7
Methylene Chloride	ND	67
trans-1,2-Dichloroethene	8.5	1.7
1,1-Dichloroethane	ND	1.7
cis-1,2-Dichloroethene	220	1.7
Chloroform	ND	3.3
1,1,1-Trichloroethane	ND	1.7
Carbon Tetrachloride	ND	1.7
1,2-Dichloroethane	ND	1.7
Trichloroethene	99	1.7
1,2-Dichloropropane	ND	1.7
Bromodichloromethane	ND	1.7
cis-1,3-Dichloropropene	ND	1.7
trans-1,3-Dichloropropene	ND	1.7
1,1,2-Trichloroethane	ND	1.7
Tetrachloroethene	7.1	1.7
Dibromochloromethane	ND	1.7
Chlorobenzene	ND	1.7
Bromoform	ND	1.7
1,1,2,2-Tetrachloroethane	ND	1.7
1,3-Dichlorobenzene	14	1.7
1,4-Dichlorobenzene	2.3	1.7
1,2-Dichlorobenzene	ND	1.7
1,2,4-Trichlorobenzene	24	1.7
1,2,3-Trichlorobenzene	ND	1.7

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	27-DD	Batch#:	228496
Lab ID:	270723-020	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	7.2	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	30	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	1.3	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	2.8	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	115	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	2-D	Batch#:	228496
Lab ID:	270723-021	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/21/15
Diln Fac:	2.500		

Analyte	Result	RL
Chloromethane	ND	2.5
Vinyl Chloride	3.6	1.3
Bromomethane	ND	2.5
Chloroethane	ND	2.5
Trichlorofluoromethane	ND	2.5
Freon 113	ND	5.0
1,1-Dichloroethene	2.8	1.3
Methylene Chloride	ND	50
trans-1,2-Dichloroethene	8.9	1.3
1,1-Dichloroethane	ND	1.3
cis-1,2-Dichloroethene	220	1.3
Chloroform	ND	2.5
1,1,1-Trichloroethane	ND	1.3
Carbon Tetrachloride	ND	1.3
1,2-Dichloroethane	ND	1.3
Trichloroethene	100	1.3
1,2-Dichloropropane	ND	1.3
Bromodichloromethane	ND	1.3
cis-1,3-Dichloropropene	ND	1.3
trans-1,3-Dichloropropene	ND	1.3
1,1,2-Trichloroethane	ND	1.3
Tetrachloroethene	8.3	1.3
Dibromochloromethane	ND	1.3
Chlorobenzene	ND	1.3
Bromoform	ND	1.3
1,1,2,2-Tetrachloroethane	ND	1.3
1,3-Dichlorobenzene	13	1.3
1,4-Dichlorobenzene	2.3	1.3
1,2-Dichlorobenzene	ND	1.3
1,2,4-Trichlorobenzene	22	1.3
1,2,3-Trichlorobenzene	1.4	1.3

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	EB-2	Batch#:	228496
Lab ID:	270723-022	Sampled:	10/14/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228418
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Type: BS Lab ID: QC808690

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.78	102	66-135
Trichloroethene	12.50	13.67	109	80-123
Chlorobenzene	12.50	14.44	116	80-123
1,2,4-Trichlorobenzene	12.50	15.66	125	66-133
1,2,3-Trichlorobenzene	12.50	14.85	119	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC808691

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.23	98	66-135	4	24
Trichloroethene	12.50	12.86	103	80-123	6	20
Chlorobenzene	12.50	14.06	112	80-123	3	20
1,2,4-Trichlorobenzene	12.50	15.22	122	66-133	3	24
1,2,3-Trichlorobenzene	12.50	14.50	116	64-134	2	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC808692	Batch#:	228418
Matrix:	Water	Analyzed:	10/19/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	117	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC808698	Batch#:	228420
Matrix:	Water	Analyzed:	10/19/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	97	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228449
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Type: BS Lab ID: QC808816

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.34	83	66-135
Trichloroethene	12.50	11.52	92	80-123
Chlorobenzene	12.50	13.15	105	80-123
1,2,4-Trichlorobenzene	12.50	15.23	122	66-133
1,2,3-Trichlorobenzene	12.50	14.87	119	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	99	80-120

Type: BSD Lab ID: QC808817

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.05	96	66-135	15	24
Trichloroethene	12.50	12.27	98	80-123	6	20
Chlorobenzene	12.50	13.78	110	80-123	5	20
1,2,4-Trichlorobenzene	12.50	15.91	127	66-133	4	24
1,2,3-Trichlorobenzene	12.50	15.52	124	64-134	4	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	75-139
Toluene-d8	107	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC808818	Batch#:	228449
Matrix:	Water	Analyzed:	10/19/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	75-139
Toluene-d8	107	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC808834	Batch#:	228420
Matrix:	Water	Analyzed:	10/19/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.97	104	66-135
Trichloroethene	12.50	12.88	103	80-123
Chlorobenzene	12.50	13.56	108	80-123
1,2,4-Trichlorobenzene	12.50	11.93	95	66-133
1,2,3-Trichlorobenzene	12.50	11.43	91	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	96	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	53-D	Batch#:	228420
MSS Lab ID:	270723-006	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Type: MS Lab ID: QC808855

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.1519	12.50	13.83	111	73-129
Trichloroethene	4.975	12.50	18.66	109	73-123
Chlorobenzene	<0.1296	12.50	12.92	103	80-120
1,2,4-Trichlorobenzene	<0.1325	12.50	12.58	101	68-120
1,2,3-Trichlorobenzene	<0.1396	12.50	12.89	103	68-121

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	120	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	95	80-120

Type: MSD Lab ID: QC808856

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.85	103	73-129	7	25
Trichloroethene	12.50	17.32	99	73-123	7	20
Chlorobenzene	12.50	13.62	109	80-120	5	24
1,2,4-Trichlorobenzene	12.50	13.21	106	68-120	5	21
1,2,3-Trichlorobenzene	12.50	13.71	110	68-121	6	22

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228495
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Type: BS Lab ID: QC809001

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	50.00	54.99	110	66-135
Trichloroethene	50.00	54.81	110	80-123
Chlorobenzene	50.00	49.63	99	80-123
1,2,4-Trichlorobenzene	50.00	41.58	83	66-133
1,2,3-Trichlorobenzene	50.00	38.25	77	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	86	75-139
Toluene-d8	87	80-120
Bromofluorobenzene	96	80-120

Type: BSD Lab ID: QC809002

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	50.00	50.87	102	66-135	8	24
Trichloroethene	50.00	51.75	104	80-123	6	20
Chlorobenzene	50.00	46.25	93	80-123	7	20
1,2,4-Trichlorobenzene	50.00	39.49	79	66-133	5	24
1,2,3-Trichlorobenzene	50.00	36.68	73	64-134	4	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	85	75-139
Toluene-d8	88	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC809003	Batch#:	228495
Matrix:	Water	Analyzed:	10/20/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	91	75-139
Toluene-d8	94	80-120
Bromofluorobenzene	102	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228496
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Type: BS Lab ID: QC809008

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.40	91	66-135
Trichloroethene	12.50	12.01	96	80-123
Chlorobenzene	12.50	13.06	105	80-123
1,2,4-Trichlorobenzene	12.50	15.48	124	66-133
1,2,3-Trichlorobenzene	12.50	15.01	120	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC809009

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.27	98	66-135	7	24
Trichloroethene	12.50	12.89	103	80-123	7	20
Chlorobenzene	12.50	13.71	110	80-123	5	20
1,2,4-Trichlorobenzene	12.50	15.45	124	66-133	0	24
1,2,3-Trichlorobenzene	12.50	14.85	119	64-134	1	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC809010	Batch#:	228496
Matrix:	Water	Analyzed:	10/20/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC809204	Batch#:	228545
Matrix:	Water	Analyzed:	10/21/15
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.98	96	66-135
Trichloroethene	12.50	12.89	103	80-123
Chlorobenzene	12.50	14.15	113	80-123
1,2,4-Trichlorobenzene	12.50	16.06	129	66-133
1,2,3-Trichlorobenzene	12.50	15.74	126	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	97	80-120

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC809205	Batch#:	228545
Matrix:	Water	Analyzed:	10/21/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270723	Location:	Annual GWM
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	228545
MSS Lab ID:	270787-001	Sampled:	10/19/15
Matrix:	Water	Received:	10/19/15
Units:	ug/L	Analyzed:	10/21/15
Diln Fac:	12.50		

Type: MS Lab ID: QC809240

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	4.934	156.3	135.8	84	73-129
Trichloroethene	534.4	156.3	672.4	88	73-123
Chlorobenzene	<1.250	156.3	153.8	98	80-120
1,2,4-Trichlorobenzene	<1.403	156.3	169.0	108	68-120
1,2,3-Trichlorobenzene	<1.250	156.3	172.2	110	68-121

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	104	80-120
Bromofluorobenzene	97	80-120

Type: MSD Lab ID: QC809241

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	156.3	140.2	87	73-129	3	25
Trichloroethene	156.3	700.2	106	73-123	4	20
Chlorobenzene	156.3	160.7	103	80-120	4	24
1,2,4-Trichlorobenzene	156.3	173.2	111	68-120	2	21
1,2,3-Trichlorobenzene	156.3	173.3	111	68-121	1	22

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	110	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	98	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878

Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878
2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 270724
ANALYTICAL REPORT

Haley & Aldrich, Inc. 1956 Webster Street Oakland, CA 94612	Project : 39751 Location : Quarterly ISB Monitoring Level : II

Sample ID	Lab ID
28-MW	270724-001
16-S	270724-002
DW-2	270724-003
X2A	270724-004
23-S	270724-005
TB-1	270724-006
DUP-1	270724-007
DW-7	270724-008
PMW-2-1	270724-009
PMW-2-3	270724-010
X1B	270724-011
X2B1	270724-012
23-D	270724-013
DW-1	270724-014
16-D	270724-015

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: Tracy Babjar Date: 10/23/2015

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

CA ELAP# 2896, NELAP# 4044-001

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**270724**
Client:	**Haley & Aldrich, Inc.**
Project:	**39751**
Location:	**Quarterly ISB Monitoring**
Request Date:	**10/15/15**
Samples Received:	**10/15/15**

This data package contains sample and QC results for fifteen water samples, requested for the above referenced project on 10/15/15. The samples were received cold and intact.

Volatile Organics by GC/MS (EPA 8260B):
X2B1 (lab # 270724-012) had pH greater than 2. No other analytical problems were encountered.

Total Organic Carbon (TOC) (SM5310C):
No analytical problems were encountered.

Subject: RE: 39751 - C&T Login Summary (270724)
From: "Zlotoff, Michael" <MZlotoff@haleyaldrich.com>
Date: 10/16/2015 9:34 PM
To: Tracy Babjar <tracy.babjar@ctberk.com>
CC: "Calhoun, Michael" <MCalhoun@haleyaldrich.com>

Hi Tracy,

The 270724 login looks good with the following exceptions:

- Sample ID 009: Please revise Client ID from DMW-2-1 to PMW-2-1
- Sample ID 010: Please revise Client ID from DMW-2-3 to PMW-2-3

Thank you,

Michael

Michael J. Zlotoff, PE
Senior Engineer

Haley & Aldrich, Inc.
2107 North First Street | Suite 380
San Jose, CA 95131-2028

T: (408) 961.4810
C: (408) 890.8400
F: (408) 453.8708

www.haleyaldrich.com

From: C&T Sample Control [mailto:sample.control@ctberk.com]
Sent: Thursday, October 15, 2015 11:27 PM
To: Calhoun, Michael; Zlotoff, Michael
Subject: 39751 - C&T Login Summary (270724)

C&T Login Summary for 270724

Project: 39751
Site: Quarterly ISB Monitoring
Lab Login #: 270724
Report Level: II
PO#: 39751-015
C&T Proj Mgr: Tracy Babjar

Report To: Haley & Aldrich, Inc.
1956 Webster Street
Suite 450
Oakland, CA 94612
ATTN: Michael Calhoun
(510) 879-4554

Bill To: Haley & Aldrich, Inc.
70 Blanchard Road
Suite 204
Burlington, MA 01803
ATTN: Accounts Payable
(617) 886-7400

Client ID	Lab ID	Sampled	Received	DueDate	Matrix	Dry	Analyses	COC #	Comments
28-MW	001	10/12/15 13:40	10/15/15			N			MS/MSD
				10/22	Water		8010MS		
				10/22	Water		TOC		
16-S	002	10/12/15 14:15	10/15/15			N			
				10/22	Water		8010MS		
				10/22	Water		TOC		
DW-2	003	10/12/15 14:40	10/15/15			N			

270724

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 151012-BW1

CLIENT Haley & Aldrich

SITE **Quarterly ISB Monitoring**
901 Thompson Place
Sunnyvale, CA

LAB C & T | DHS #

MUST MEET SPECIFICATIONS
☑ EPA
☐ LIA
☐ OTHER
☐ RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

CONDUCT ANALYSIS TO DETECT

	SAMPLE I.D.	DATE	TIME	MATRIX S = Soil W = H2O	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	TOC (415.1)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1	28-MW	10/12/15	1340	W	10	MIX		X	X							MS/MSD			
2	16-S	↓	1415	W	4	MIX		X	X										
3	DW-2		1440	W	4	MIX		X	X										
4	X2A		1510	W	4	MIX		X	X										
5	23-S		1550	W	4	MIX		X	X										
6	TB-1		0700	W	3	VOA		X											
7	DUP-1		1345	W	4	MIX		X	X										
8	DW-7	10/13/15	0745	W	4	MIX		X	X										
9	PMW-2-1		0815	W	4	MIX		X	X										
10	PMW-2-3		0850	W	4	MIX		X	X										

SAMPLING COMPLETED DATE 10/13/15 TIME 1130
SAMPLING PERFORMED BY Brian Weeks

RESULTS NEEDED NO LATER THAN Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/14/15	1800	[signature] S.C.	10/14/15	1800
[signature] (S.C.)	10/15/15	1459	[signature]	10/15/15	1459
[signature]	10/15/15	1722	[signature]	10/15/15	1722

SHIPPED VIA | DATE SENT | TIME SENT | COOLER #

intact cold RC

270724

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 151012-BW1

CLIENT: Haley & Aldrich

SITE: **Quarterly ISB Monitoring**
901 Thompson Place
Sunnyvale, CA

LAB: C & T

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

	SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	VOCs (8010 list by EPA 8260B)	TOC (415.1)	ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
11	X1B	10/13/15	0925	W	4	MIX		X	X				
12	X2B1	↓	0955	W	4	MIX		X	X				
13	23-D		1030	W	4	MIX		X	X				
14	DW-1		1100	W	4	MIX		X	X				
15	16-D	↓	1130	W	4	MIX		X	X				

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY
	10/13/15	1130	Brian Weeks

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/14/15	1800	[signature] S.C.	10/14/15	1800
[signature] (S.C.)	10/15/15	1459	[signature]	10/15/15	1459
[signature]	10/15/15	1722	[signature]	10/15/15	1722

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #

Start cold RC

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 270724 Date Received 10/15/15 Number of coolers 2
Client Blaine Tech Services Project Quarterly ISB Monitoring

Date Opened 10/15/15 By (print) CN (sign) [signature]
Date Logged in [illegible] By (print) SL (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
   Shipping info _____

2A. Were custody seals present? .... ☐ YES (circle) on cooler on samples ☒ NO
   How many _____ Name _____ Date _____
2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) ___ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

☐ Bubble Wrap ☐ Foam blocks ☐ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: ☐ Wet ☐ Blue/Gel ☐ None Temp(°C) 0.5°C, 2.5

☐ Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

☐ Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
   If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ (YES) NO N/A
16. Did you check preservatives for all bottles for each sample? _____ (YES) NO N/A
17. Did you document your preservative check? _____ (YES) NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ (YES) NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____

Rev 10, 9/12

Curtis & Tompkins Sample Preservation for 270724

Sample	pH: <2	>9	>12	Other
-001a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[ ]	[ ]	[ ]	
e	[ ]	[ ]	[ ]	
f	[ ]	[ ]	[ ]	
g	[ ]	[ ]	[ ]	
h	[ ]	[ ]	[ ]	
i	[ ]	[ ]	[ ]	
j	[X]	[ ]	[ ]	
-002a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-003a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-004a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-005a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-007a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-008a	[ ]	[ ]	[ ]	
b	SC ~~[X]~~	[ ]	[ ]	

Sample	pH: <2	>9	>12	Other
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-009a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-010a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-011a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-012a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-013a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-014a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	
-015a	[ ]	[ ]	[ ]	
b	[ ]	[ ]	[ ]	
c	[ ]	[ ]	[ ]	
d	[X]	[ ]	[ ]	

Analyst: SC
Date: 10/15/15

Page 1 of 1

Curtis & Tompkins, Ltd.

Detections Summary for 270724

Results for any subcontracted analyses are not included in this summary.

Client : Haley & Aldrich, Inc.
Project : 39751
Location : Quarterly ISB Monitoring

Client Sample ID : 28-MW Laboratory Sample ID : 270724-001

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	32		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	66		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	8.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	6.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	7.4		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : 16-S Laboratory Sample ID : 270724-002

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	9.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	1.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	17		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	1.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	7.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	4.8		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : DW-2 Laboratory Sample ID : 270724-003

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
trans-1,2-Dichloroethene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	1.3		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	11		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : X2A Laboratory Sample ID : 270724-004

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	520		5.0	ug/L	As Recd	10.00	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	2.1		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Chlorobenzene	15		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	2.0		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	13		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Total Organic Carbon	3.3		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : 23-S Laboratory Sample ID : 270724-005

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	48		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,1-Dichloroethene	0.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	12		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	91		1.0	ug/L	As Recd	2.000	EPA 8260B	EPA 5030B
Trichloroethene	20		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Tetrachloroethene	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	0.8		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	20		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	3.0		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : TB-1 Laboratory Sample ID : 270724-006

No Detections

Client Sample ID : DUP-1 Laboratory Sample ID : 270724-007

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	31		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	1.1		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	63		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	7.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,4-Dichlorobenzene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	5.9		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	7.5		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : DW-7 Laboratory Sample ID : 270724-008

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	85		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	1.4		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	4.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B

Client Sample ID : PMW-2-1 Laboratory Sample ID : 270724-009

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	1,500		10	ug/L	As Recd	20.00	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	31		4.2	ug/L	As Recd	8.333	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	840		10	ug/L	As Recd	20.00	EPA 8260B	EPA 5030B
Total Organic Carbon	1.2		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : PMW-2-3 Laboratory Sample ID : 270724-010

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	32		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	4.0		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	120		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Trichloroethene	240		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B

Client Sample ID : X1B Laboratory Sample ID : 270724-011

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	210		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	7.4		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	160		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	3.6		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
1,2,4-Trichlorobenzene	2.1		2.0	ug/L	As Recd	4.000	EPA 8260B	EPA 5030B
Total Organic Carbon	5.3		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : X2B1 Laboratory Sample ID : 270724-012

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	1.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	4.5		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Client Sample ID : 23-D Laboratory Sample ID : 270724-013

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
cis-1,2-Dichloroethene	6.0		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Trichloroethene	260		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B

Client Sample ID : DW-1 Laboratory Sample ID : 270724-014

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	2.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	5.7		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	3.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Trichloroethene	2.2		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Chlorobenzene	2.0		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	0.5		0.5	ug/L	As Recd	1.000	EPA 8260B	EPA 5030B
Total Organic Carbon	12		5.0	mg/L	TOTAL	10.00	SM5310C	METHOD

Curtis & Tompkins, Ltd.

Client Sample ID : 16-D Laboratory Sample ID : 270724-015

Analyte	Result	Flags	RL	Units	Basis	IDF	Method	Prep Method
Vinyl Chloride	250		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
trans-1,2-Dichloroethene	3.9		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
cis-1,2-Dichloroethene	15		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
1,2-Dichlorobenzene	1.8		1.7	ug/L	As Recd	3.333	EPA 8260B	EPA 5030B
Total Organic Carbon	0.81		0.50	mg/L	TOTAL	1.000	SM5310C	METHOD

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	28-MW	Batch#:	228415
Lab ID:	270724-001	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	32	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	0.9	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	66	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	8.0	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	0.5	0.5
1,2-Dichlorobenzene	6.0	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	83	80-120
Bromofluorobenzene	89	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	16-S	Batch#:	228418
Lab ID:	270724-002	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	9.2	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	1.8	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	17	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	1.7	0.5
1,2-Dichlorobenzene	7.8	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	DW-2	Batch#:	228418
Lab ID:	270724-003	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	0.9	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	0.8	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	1.3	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	0.8	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	117	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	105	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	X2A	Units:	ug/L
Lab ID:	270724-004	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	3.3	3.333	228418	10/19/15
Vinyl Chloride	520	5.0	10.00	228496	10/20/15
Bromomethane	ND	3.3	3.333	228418	10/19/15
Chloroethane	ND	3.3	3.333	228418	10/19/15
Trichlorofluoromethane	ND	3.3	3.333	228418	10/19/15
Freon 113	ND	6.7	3.333	228418	10/19/15
1,1-Dichloroethene	ND	1.7	3.333	228418	10/19/15
Methylene Chloride	ND	67	3.333	228418	10/19/15
trans-1,2-Dichloroethene	ND	1.7	3.333	228418	10/19/15
1,1-Dichloroethane	ND	1.7	3.333	228418	10/19/15
cis-1,2-Dichloroethene	2.1	1.7	3.333	228418	10/19/15
Chloroform	ND	3.3	3.333	228418	10/19/15
1,1,1-Trichloroethane	ND	1.7	3.333	228418	10/19/15
Carbon Tetrachloride	ND	1.7	3.333	228418	10/19/15
1,2-Dichloroethane	ND	1.7	3.333	228418	10/19/15
Trichloroethene	ND	1.7	3.333	228418	10/19/15
1,2-Dichloropropane	ND	1.7	3.333	228418	10/19/15
Bromodichloromethane	ND	1.7	3.333	228418	10/19/15
cis-1,3-Dichloropropene	ND	1.7	3.333	228418	10/19/15
trans-1,3-Dichloropropene	ND	1.7	3.333	228418	10/19/15
1,1,2-Trichloroethane	ND	1.7	3.333	228418	10/19/15
Tetrachloroethene	ND	1.7	3.333	228418	10/19/15
Dibromochloromethane	ND	1.7	3.333	228418	10/19/15
Chlorobenzene	15	1.7	3.333	228418	10/19/15
Bromoform	ND	1.7	3.333	228418	10/19/15
1,1,2,2-Tetrachloroethane	ND	1.7	3.333	228418	10/19/15
1,3-Dichlorobenzene	ND	1.7	3.333	228418	10/19/15
1,4-Dichlorobenzene	2.0	1.7	3.333	228418	10/19/15
1,2-Dichlorobenzene	13	1.7	3.333	228418	10/19/15
1,2,4-Trichlorobenzene	ND	1.7	3.333	228418	10/19/15
1,2,3-Trichlorobenzene	ND	1.7	3.333	228418	10/19/15

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	120	75-139	3.333	228418	10/19/15
Toluene-d8	101	80-120	3.333	228418	10/19/15
Bromofluorobenzene	105	80-120	3.333	228418	10/19/15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	23-S	Units:	ug/L
Lab ID:	270724-005	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	1.0	1.000	228418	10/19/15
Vinyl Chloride	48	0.5	1.000	228418	10/19/15
Bromomethane	ND	1.0	1.000	228418	10/19/15
Chloroethane	ND	1.0	1.000	228418	10/19/15
Trichlorofluoromethane	ND	1.0	1.000	228418	10/19/15
Freon 113	ND	2.0	1.000	228418	10/19/15
1,1-Dichloroethene	0.9	0.5	1.000	228418	10/19/15
Methylene Chloride	ND	20	1.000	228418	10/19/15
trans-1,2-Dichloroethene	12	0.5	1.000	228418	10/19/15
1,1-Dichloroethane	ND	0.5	1.000	228418	10/19/15
cis-1,2-Dichloroethene	91	1.0	2.000	228496	10/20/15
Chloroform	ND	1.0	1.000	228418	10/19/15
1,1,1-Trichloroethane	ND	0.5	1.000	228418	10/19/15
Carbon Tetrachloride	ND	0.5	1.000	228418	10/19/15
1,2-Dichloroethane	ND	0.5	1.000	228418	10/19/15
Trichloroethene	20	0.5	1.000	228418	10/19/15
1,2-Dichloropropane	ND	0.5	1.000	228418	10/19/15
Bromodichloromethane	ND	0.5	1.000	228418	10/19/15
cis-1,3-Dichloropropene	ND	0.5	1.000	228418	10/19/15
trans-1,3-Dichloropropene	ND	0.5	1.000	228418	10/19/15
1,1,2-Trichloroethane	ND	0.5	1.000	228418	10/19/15
Tetrachloroethene	0.8	0.5	1.000	228418	10/19/15
Dibromochloromethane	ND	0.5	1.000	228418	10/19/15
Chlorobenzene	0.5	0.5	1.000	228418	10/19/15
Bromoform	ND	0.5	1.000	228418	10/19/15
1,1,2,2-Tetrachloroethane	ND	0.5	1.000	228418	10/19/15
1,3-Dichlorobenzene	ND	0.5	1.000	228418	10/19/15
1,4-Dichlorobenzene	0.8	0.5	1.000	228418	10/19/15
1,2-Dichlorobenzene	20	0.5	1.000	228418	10/19/15
1,2,4-Trichlorobenzene	ND	0.5	1.000	228418	10/19/15
1,2,3-Trichlorobenzene	ND	0.5	1.000	228418	10/19/15

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	114	75-139	1.000	228418	10/19/15
Toluene-d8	99	80-120	1.000	228418	10/19/15
Bromofluorobenzene	103	80-120	1.000	228418	10/19/15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	TB-1	Batch#:	228403
Lab ID:	270724-006	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/17/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	106	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	DUP-1	Batch#:	228415
Lab ID:	270724-007	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	31	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	1.1	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	63	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	7.7	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	0.5	0.5
1,2-Dichlorobenzene	5.9	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	112	75-139
Toluene-d8	85	80-120
Bromofluorobenzene	91	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	DW-7	Batch#:	228415
Lab ID:	270724-008	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	85	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	1.4	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	4.2	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	75-139
Toluene-d8	83	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	PMW-2-1	Units:	ug/L
Lab ID:	270724-009	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Chloromethane	ND	8.3	8.333	228415	10/19/15
Vinyl Chloride	1,500	10	20.00	228466	10/20/15
Bromomethane	ND	8.3	8.333	228415	10/19/15
Chloroethane	ND	8.3	8.333	228415	10/19/15
Trichlorofluoromethane	ND	8.3	8.333	228415	10/19/15
Freon 113	ND	17	8.333	228415	10/19/15
1,1-Dichloroethene	ND	4.2	8.333	228415	10/19/15
Methylene Chloride	ND	170	8.333	228415	10/19/15
trans-1,2-Dichloroethene	31	4.2	8.333	228415	10/19/15
1,1-Dichloroethane	ND	4.2	8.333	228415	10/19/15
cis-1,2-Dichloroethene	840	10	20.00	228466	10/20/15
Chloroform	ND	8.3	8.333	228415	10/19/15
1,1,1-Trichloroethane	ND	4.2	8.333	228415	10/19/15
Carbon Tetrachloride	ND	4.2	8.333	228415	10/19/15
1,2-Dichloroethane	ND	4.2	8.333	228415	10/19/15
Trichloroethene	ND	4.2	8.333	228415	10/19/15
1,2-Dichloropropane	ND	4.2	8.333	228415	10/19/15
Bromodichloromethane	ND	4.2	8.333	228415	10/19/15
cis-1,3-Dichloropropene	ND	4.2	8.333	228415	10/19/15
trans-1,3-Dichloropropene	ND	4.2	8.333	228415	10/19/15
1,1,2-Trichloroethane	ND	4.2	8.333	228415	10/19/15
Tetrachloroethene	ND	4.2	8.333	228415	10/19/15
Dibromochloromethane	ND	4.2	8.333	228415	10/19/15
Chlorobenzene	ND	4.2	8.333	228415	10/19/15
Bromoform	ND	4.2	8.333	228415	10/19/15
1,1,2,2-Tetrachloroethane	ND	4.2	8.333	228415	10/19/15
1,3-Dichlorobenzene	ND	4.2	8.333	228415	10/19/15
1,4-Dichlorobenzene	ND	4.2	8.333	228415	10/19/15
1,2-Dichlorobenzene	ND	4.2	8.333	228415	10/19/15
1,2,4-Trichlorobenzene	ND	4.2	8.333	228415	10/19/15
1,2,3-Trichlorobenzene	ND	4.2	8.333	228415	10/19/15

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
1,2-Dichloroethane-d4	115	75-139	8.333	228415	10/19/15
Toluene-d8	88	80-120	8.333	228415	10/19/15
Bromofluorobenzene	91	80-120	8.333	228415	10/19/15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	PMW-2-3	Batch#:	228415
Lab ID:	270724-010	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	3.333		

Analyte	Result	RL
Chloromethane	ND	3.3
Vinyl Chloride	32	1.7
Bromomethane	ND	3.3
Chloroethane	ND	3.3
Trichlorofluoromethane	ND	3.3
Freon 113	ND	6.7
1,1-Dichloroethene	ND	1.7
Methylene Chloride	ND	67
trans-1,2-Dichloroethene	4.0	1.7
1,1-Dichloroethane	ND	1.7
cis-1,2-Dichloroethene	120	1.7
Chloroform	ND	3.3
1,1,1-Trichloroethane	ND	1.7
Carbon Tetrachloride	ND	1.7
1,2-Dichloroethane	ND	1.7
Trichloroethene	240	1.7
1,2-Dichloropropane	ND	1.7
Bromodichloromethane	ND	1.7
cis-1,3-Dichloropropene	ND	1.7
trans-1,3-Dichloropropene	ND	1.7
1,1,2-Trichloroethane	ND	1.7
Tetrachloroethene	ND	1.7
Dibromochloromethane	ND	1.7
Chlorobenzene	ND	1.7
Bromoform	ND	1.7
1,1,2,2-Tetrachloroethane	ND	1.7
1,3-Dichlorobenzene	ND	1.7
1,4-Dichlorobenzene	ND	1.7
1,2-Dichlorobenzene	ND	1.7
1,2,4-Trichlorobenzene	ND	1.7
1,2,3-Trichlorobenzene	ND	1.7

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	120	75-139
Toluene-d8	83	80-120
Bromofluorobenzene	92	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	X1B	Batch#:	228415
Lab ID:	270724-011	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	4.000		

Analyte	Result	RL
Chloromethane	ND	4.0
Vinyl Chloride	210	2.0
Bromomethane	ND	4.0
Chloroethane	ND	4.0
Trichlorofluoromethane	ND	4.0
Freon 113	ND	8.0
1,1-Dichloroethene	ND	2.0
Methylene Chloride	ND	80
trans-1,2-Dichloroethene	7.4	2.0
1,1-Dichloroethane	ND	2.0
cis-1,2-Dichloroethene	160	2.0
Chloroform	ND	4.0
1,1,1-Trichloroethane	ND	2.0
Carbon Tetrachloride	ND	2.0
1,2-Dichloroethane	ND	2.0
Trichloroethene	ND	2.0
1,2-Dichloropropane	ND	2.0
Bromodichloromethane	ND	2.0
cis-1,3-Dichloropropene	ND	2.0
trans-1,3-Dichloropropene	ND	2.0
1,1,2-Trichloroethane	ND	2.0
Tetrachloroethene	ND	2.0
Dibromochloromethane	ND	2.0
Chlorobenzene	ND	2.0
Bromoform	ND	2.0
1,1,2,2-Tetrachloroethane	ND	2.0
1,3-Dichlorobenzene	ND	2.0
1,4-Dichlorobenzene	ND	2.0
1,2-Dichlorobenzene	3.6	2.0
1,2,4-Trichlorobenzene	2.1	2.0
1,2,3-Trichlorobenzene	ND	2.0

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	88	80-120
Bromofluorobenzene	92	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	X2B1	Batch#:	228415
Lab ID:	270724-012	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	1.0	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	115	75-139
Toluene-d8	85	80-120
Bromofluorobenzene	89	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	23-D	Batch#:	228415
Lab ID:	270724-013	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	3.333		

Analyte	Result	RL
Chloromethane	ND	3.3
Vinyl Chloride	ND	1.7
Bromomethane	ND	3.3
Chloroethane	ND	3.3
Trichlorofluoromethane	ND	3.3
Freon 113	ND	6.7
1,1-Dichloroethene	ND	1.7
Methylene Chloride	ND	67
trans-1,2-Dichloroethene	ND	1.7
1,1-Dichloroethane	ND	1.7
cis-1,2-Dichloroethene	6.0	1.7
Chloroform	ND	3.3
1,1,1-Trichloroethane	ND	1.7
Carbon Tetrachloride	ND	1.7
1,2-Dichloroethane	ND	1.7
Trichloroethene	260	1.7
1,2-Dichloropropane	ND	1.7
Bromodichloromethane	ND	1.7
cis-1,3-Dichloropropene	ND	1.7
trans-1,3-Dichloropropene	ND	1.7
1,1,2-Trichloroethane	ND	1.7
Tetrachloroethene	ND	1.7
Dibromochloromethane	ND	1.7
Chlorobenzene	ND	1.7
Bromoform	ND	1.7
1,1,2,2-Tetrachloroethane	ND	1.7
1,3-Dichlorobenzene	ND	1.7
1,4-Dichlorobenzene	ND	1.7
1,2-Dichlorobenzene	ND	1.7
1,2,4-Trichlorobenzene	ND	1.7
1,2,3-Trichlorobenzene	ND	1.7

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	114	75-139
Toluene-d8	87	80-120
Bromofluorobenzene	93	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	DW-1	Batch#:	228415
Lab ID:	270724-014	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	2.5	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	5.7	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	3.2	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	2.2	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	2.0	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	0.5	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	117	75-139
Toluene-d8	84	80-120
Bromofluorobenzene	90	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	16-D	Batch#:	228415
Lab ID:	270724-015	Sampled:	10/13/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	3.333		

Analyte	Result	RL
Chloromethane	ND	3.3
Vinyl Chloride	250	1.7
Bromomethane	ND	3.3
Chloroethane	ND	3.3
Trichlorofluoromethane	ND	3.3
Freon 113	ND	6.7
1,1-Dichloroethene	ND	1.7
Methylene Chloride	ND	67
trans-1,2-Dichloroethene	3.9	1.7
1,1-Dichloroethane	ND	1.7
cis-1,2-Dichloroethene	15	1.7
Chloroform	ND	3.3
1,1,1-Trichloroethane	ND	1.7
Carbon Tetrachloride	ND	1.7
1,2-Dichloroethane	ND	1.7
Trichloroethene	ND	1.7
1,2-Dichloropropane	ND	1.7
Bromodichloromethane	ND	1.7
cis-1,3-Dichloropropene	ND	1.7
trans-1,3-Dichloropropene	ND	1.7
1,1,2-Trichloroethane	ND	1.7
Tetrachloroethene	ND	1.7
Dibromochloromethane	ND	1.7
Chlorobenzene	ND	1.7
Bromoform	ND	1.7
1,1,2,2-Tetrachloroethane	ND	1.7
1,3-Dichlorobenzene	ND	1.7
1,4-Dichlorobenzene	ND	1.7
1,2-Dichlorobenzene	1.8	1.7
1,2,4-Trichlorobenzene	ND	1.7
1,2,3-Trichlorobenzene	ND	1.7

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	115	75-139
Toluene-d8	85	80-120
Bromofluorobenzene	90	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228403
Units:	ug/L	Analyzed:	10/17/15
Diln Fac:	1.000		

Type: BS Lab ID: QC808633

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	13.57	109	66-135
Trichloroethene	12.50	13.69	110	80-123
Chlorobenzene	12.50	13.68	109	80-123
1,2,4-Trichlorobenzene	12.50	14.61	117	66-133
1,2,3-Trichlorobenzene	12.50	14.26	114	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	101	80-120

Type: BSD Lab ID: QC808634

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.96	104	66-135	5	24
Trichloroethene	12.50	12.81	103	80-123	7	20
Chlorobenzene	12.50	13.15	105	80-123	4	20
1,2,4-Trichlorobenzene	12.50	13.60	109	66-133	7	24
1,2,3-Trichlorobenzene	12.50	12.98	104	64-134	9	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	107	75-139
Toluene-d8	99	80-120
Bromofluorobenzene	102	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC808635	Batch#:	228403
Matrix:	Water	Analyzed:	10/17/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	98	80-120
Bromofluorobenzene	104	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228415
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Type: BS Lab ID: QC808679

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.60	93	66-135
Trichloroethene	12.50	13.57	109	80-123
Chlorobenzene	12.50	13.03	104	80-123
1,2,4-Trichlorobenzene	12.50	14.53	116	66-133
1,2,3-Trichlorobenzene	12.50	13.60	109	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	83	80-120
Bromofluorobenzene	93	80-120

Type: BSD Lab ID: QC808680

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	10.76	86	66-135	7	24
Trichloroethene	12.50	13.84	111	80-123	2	20
Chlorobenzene	12.50	13.24	106	80-123	2	20
1,2,4-Trichlorobenzene	12.50	14.52	116	66-133	0	24
1,2,3-Trichlorobenzene	12.50	13.92	111	64-134	2	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	85	80-120
Bromofluorobenzene	90	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC808681	Batch#:	228415
Matrix:	Water	Analyzed:	10/19/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	111	75-139
Toluene-d8	84	80-120
Bromofluorobenzene	91	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228418
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Type: BS Lab ID: QC808690

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	12.78	102	66-135
Trichloroethene	12.50	13.67	109	80-123
Chlorobenzene	12.50	14.44	116	80-123
1,2,4-Trichlorobenzene	12.50	15.66	125	66-133
1,2,3-Trichlorobenzene	12.50	14.85	119	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	116	75-139
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC808691

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.23	98	66-135	4	24
Trichloroethene	12.50	12.86	103	80-123	6	20
Chlorobenzene	12.50	14.06	112	80-123	3	20
1,2,4-Trichlorobenzene	12.50	15.22	122	66-133	3	24
1,2,3-Trichlorobenzene	12.50	14.50	116	64-134	2	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	113	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC808692	Batch#:	228418
Matrix:	Water	Analyzed:	10/19/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	117	75-139
Toluene-d8	100	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Field ID:	28-MW	Batch#:	228415
MSS Lab ID:	270724-001	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15
Units:	ug/L	Analyzed:	10/19/15
Diln Fac:	1.000		

Type: MS Lab ID: QC808711

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	0.1754	12.50	13.42	106	73-129
Trichloroethene	0.1804	12.50	14.91	118	73-123
Chlorobenzene	7.967	12.50	20.12	97	80-120
1,2,4-Trichlorobenzene	<0.1320	12.50	14.98	120	68-120
1,2,3-Trichlorobenzene	<0.1578	12.50	14.60	117	68-121

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	108	75-139
Toluene-d8	84	80-120
Bromofluorobenzene	94	80-120

Type: MSD Lab ID: QC808712

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.73	100	73-129	5	25
Trichloroethene	12.50	14.36	113	73-123	4	20
Chlorobenzene	12.50	20.64	101	80-120	3	24
1,2,4-Trichlorobenzene	12.50	14.98	120	68-120	0	21
1,2,3-Trichlorobenzene	12.50	14.44	116	68-121	1	22

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	75-139
Toluene-d8	82	80-120
Bromofluorobenzene	93	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228466
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Type: BS Lab ID: QC808878

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.25	90	66-135
Trichloroethene	12.50	13.03	104	80-123
Chlorobenzene	12.50	12.88	103	80-123
1,2,4-Trichlorobenzene	12.50	13.55	108	66-133
1,2,3-Trichlorobenzene	12.50	12.83	103	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	108	75-139
Toluene-d8	84	80-120
Bromofluorobenzene	86	80-120

Type: BSD Lab ID: QC808879

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	11.46	92	66-135	2	24
Trichloroethene	12.50	13.09	105	80-123	0	20
Chlorobenzene	12.50	12.73	102	80-123	1	20
1,2,4-Trichlorobenzene	12.50	14.57	117	66-133	7	24
1,2,3-Trichlorobenzene	12.50	13.74	110	64-134	7	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	75-139
Toluene-d8	83	80-120
Bromofluorobenzene	90	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC808882	Batch#:	228466
Matrix:	Water	Analyzed:	10/20/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	87	80-120
Bromofluorobenzene	91	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	228496
Units:	ug/L	Analyzed:	10/20/15
Diln Fac:	1.000		

Type: BS Lab ID: QC809008

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.40	91	66-135
Trichloroethene	12.50	12.01	96	80-123
Chlorobenzene	12.50	13.06	105	80-123
1,2,4-Trichlorobenzene	12.50	15.48	124	66-133
1,2,3-Trichlorobenzene	12.50	15.01	120	64-134

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC809009

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	12.27	98	66-135	7	24
Trichloroethene	12.50	12.89	103	80-123	7	20
Chlorobenzene	12.50	13.71	110	80-123	5	20
1,2,4-Trichlorobenzene	12.50	15.45	124	66-133	0	24
1,2,3-Trichlorobenzene	12.50	14.85	119	64-134	1	25

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	106	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	EPA 5030B
Project#:	39751	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC809010	Batch#:	228496
Matrix:	Water	Analyzed:	10/20/15
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	20
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
cis-1,2-Dichloroethene	ND	0.5
Chloroform	ND	1.0
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Bromoform	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2,4-Trichlorobenzene	ND	0.5
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	109	75-139
Toluene-d8	105	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Total Organic Carbon (TOC)

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	METHOD
Project#:	39751	Analysis:	SM5310C
Analyte:	Total Organic Carbon	Batch#:	228450
Matrix:	Water	Received:	10/15/15
Units:	mg/L		

Field ID	Type	Lab ID	Result	RL	Diln Fac	Sampled	Analyzed
28-MW	SAMPLE	270724-001	7.4	0.50	1.000	10/12/15	10/19/15
16-S	SAMPLE	270724-002	4.8	0.50	1.000	10/12/15	10/19/15
DW-2	SAMPLE	270724-003	11	0.50	1.000	10/12/15	10/19/15
X2A	SAMPLE	270724-004	3.3	0.50	1.000	10/12/15	10/19/15
23-S	SAMPLE	270724-005	3.0	0.50	1.000	10/12/15	10/19/15
DUP-1	SAMPLE	270724-007	7.5	0.50	1.000	10/12/15	10/19/15
DW-7	SAMPLE	270724-008	ND	0.50	1.000	10/13/15	10/19/15
PMW-2-1	SAMPLE	270724-009	1.2	0.50	1.000	10/13/15	10/19/15
PMW-2-3	SAMPLE	270724-010	ND	0.50	1.000	10/13/15	10/19/15
X1B	SAMPLE	270724-011	5.3	0.50	1.000	10/13/15	10/19/15
X2B1	SAMPLE	270724-012	4.5	0.50	1.000	10/13/15	10/22/15
23-D	SAMPLE	270724-013	ND	0.50	1.000	10/13/15	10/19/15
DW-1	SAMPLE	270724-014	12	5.0	10.00	10/13/15	10/19/15
16-D	SAMPLE	270724-015	0.81	0.50	1.000	10/13/15	10/19/15
	BLANK	QC808819	ND	0.50	1.000		10/19/15

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Total Organic Carbon (TOC)

Lab #:	270724	Location:	Quarterly ISB Monitoring
Client:	Haley & Aldrich, Inc.	Prep:	METHOD
Project#:	39751	Analysis:	SM5310C
Analyte:	Total Organic Carbon	Diln Fac:	1.000
Field ID:	28-MW	Batch#:	228450
MSS Lab ID:	270724-001	Sampled:	10/12/15
Matrix:	Water	Received:	10/15/15
Units:	mg/L	Analyzed:	10/19/15

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC808820		10.00	9.773	98	90-110		
MS	QC808821	7.398	2.000	9.508	105	35-129		
MSD	QC808822		2.000	9.551	108	35-129	0	44

RPD= Relative Percent Difference

Pace Analytical Energy Services, LLC
220 William Pitt Way
Pittsburgh, PA 15238
Phone: (412) 826-5245
Fax: (412) 826-3433

October 27, 2015

Michael Calhoun
Haley & Aldrich
1956 Webster St
Suite 450
Oakland, CA 94612

RE: **901 THOMPSON PLACE**

Pace Workorder: 17042

Dear Michael Calhoun:

Enclosed are the analytical results for sample(s) received by the laboratory on Friday, October 16, 2015. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ruth Welsh

Ruth Welsh 10/27/2015 RLO 10-28-15

Customer Service Representative

Enclosures

As a valued client we would appreciate your comments on our service.
Please email info@microseeps.com.

Total Number of Pages 25

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Phone: (412) 826-5245
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LABORATORY ACCREDITATIONS & CERTIFICATIONS

Accreditor:	Pennsylvania Department of Environmental Protection, Bureau of Laboratories
Accreditation ID:	02-00538
Scope:	NELAP Non-Potable Water and Solid & Hazardous Waste
Accreditor:	South Carolina Department of Health and Environmental Control, Office of Environmental Laboratory Certification
Accreditation ID:	89009003
Scope:	Clean Water Act (CWA); Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: New Jersey, Department of Environmental Protection
Accreditation ID:	PA026
Scope:	Non-Potable Water; Solid and Chemical Materials
Accreditor:	NELAP: New York, Department of Health Wadsworth Center
Accreditation ID:	11815
Scope:	Non-Potable Water; Solid and Hazardous Waste
Accreditor:	State of Connecticut, Department of Public Health, Division of Environmental Health
Accreditation ID:	PH-0263
Scope:	Clean Water Act (CWA) Resource Conservation and Recovery Act (RCRA)
Accreditor:	NELAP: Texas, Commission on Environmental Quality
Accreditation ID:	T104704453-09-TX
Scope:	Non-Potable Water
Accreditor:	State of New Hampshire
Accreditation ID:	299409
Scope:	Non-potable water
Accreditor:	State of Georgia
Accreditation ID:	Chapter 391-3-26
Scope:	As per the Georgia EPD Rules and Regulations for Commercial Laboratories, PAES is accredited by the Pennsylvania Department of Environmental Protection Bureau of Laboratories under the National Environmental Laboratory Approval Program (NELAC).

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SAMPLE SUMMARY

Workorder: 17042 901 THOMPSON PLACE

Lab ID	Sample ID	Matrix	Date Collected	Date Received
170420001	28-MW	Water	10/12/2015 13:40	10/16/2015 11:15
170420002	16-S	Water	10/12/2015 14:15	10/16/2015 11:15
170420003	DW-2	Water	10/12/2015 14:40	10/16/2015 11:15
170420004	X2A	Water	10/12/2015 15:10	10/16/2015 11:15
170420005	23-S	Water	10/12/2015 15:50	10/16/2015 11:15
170420006	DW-7	Water	10/13/2015 07:45	10/16/2015 11:15
170420007	PMW-2-1	Water	10/13/2015 08:15	10/16/2015 11:15
170420008	PMW-2-3	Water	10/13/2015 08:50	10/16/2015 11:15
170420009	X1B	Water	10/13/2015 09:25	10/16/2015 11:15
170420010	X2B1	Water	10/13/2015 09:55	10/16/2015 11:15
170420011	23-D	Water	10/13/2015 10:30	10/16/2015 11:15
170420012	DW-1	Water	10/13/2015 11:00	10/16/2015 11:15
170420013	16-D	Water	10/13/2015 11:30	10/16/2015 11:15

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PROJECT SUMMARY

Workorder: 17042 901 THOMPSON PLACE

Workorder Comments

The container pH for samples 17042 (0012) were measured as below the expected pH range (< 10) for those samples preserved with trisodium phosphate, as assigned to PAES method AM20GAx.

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420001** Date Received: 10/16/2015 11:15 Matrix: Water
Sample ID: **28-MW** Date Collected: 10/12/2015 13:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**6700**	ug/l	0.50	0.037	1	10/19/2015 15:39	BW	n
Ethane	**4.4**	ug/l	0.10	0.0020	1	10/19/2015 15:39	BW	n
Ethene	**1.9**	ug/l	0.10	0.0040	1	10/19/2015 15:39	BW	n

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Phone: (412) 826-5245
Fax: (412) 826-3433

ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420002** Date Received: 10/16/2015 11:15 Matrix: Water

Sample ID: **16-S** Date Collected: 10/12/2015 14:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**1400**	ug/l	0.50	0.037	1	10/19/2015 15:52	BW	n
Ethane	**1.0**	ug/l	0.10	0.0020	1	10/19/2015 15:52	BW	n
Ethene	**0.68**	ug/l	0.10	0.0040	1	10/19/2015 15:52	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420003** Date Received: 10/16/2015 11:15 Matrix: Water
Sample ID: **DW-2** Date Collected: 10/12/2015 14:40

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**12000**	ug/l	0.50	0.037	1	10/19/2015 16:03	BW	n
Ethane	**3.8**	ug/l	0.10	0.0020	1	10/19/2015 16:03	BW	n
Ethene	**0.10**	ug/l	0.10	0.0040	1	10/19/2015 16:03	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420004** Date Received: 10/16/2015 11:15 Matrix: Water
Sample ID: **X2A** Date Collected: 10/12/2015 15:10

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**2500**	ug/l	0.50	0.037	1	10/19/2015 16:14	BW	n
Ethane	**3.6**	ug/l	0.10	0.0020	1	10/19/2015 16:14	BW	n
Ethene	**76**	ug/l	0.10	0.0040	1	10/19/2015 16:14	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420005** Date Received: 10/16/2015 11:15 Matrix: Water
Sample ID: **23-S** Date Collected: 10/12/2015 15:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**80**	ug/l	0.50	0.037	1	10/19/2015 16:25	BW	n
Ethane	**0.050J**	ug/l	0.10	0.0020	1	10/19/2015 16:25	BW	n
Ethene	**0.72**	ug/l	0.10	0.0040	1	10/19/2015 16:25	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420006** Date Received: 10/16/2015 11:15 Matrix: Water

Sample ID: **DW-7** Date Collected: 10/13/2015 07:45

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**19**	ug/l	0.50	0.037	1	10/19/2015 16:35	BW	n
Ethane	**0.33**	ug/l	0.10	0.0020	1	10/19/2015 16:35	BW	n
Ethene	**1.8**	ug/l	0.10	0.0040	1	10/19/2015 16:35	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420007** Date Received: 10/16/2015 11:15 Matrix: Water

Sample ID: **PMW-2-1** Date Collected: 10/13/2015 08:15

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**4800**	ug/l	0.50	0.037	1	10/19/2015 16:54	BW	n
Ethane	**6.4**	ug/l	0.10	0.0020	1	10/19/2015 16:54	BW	n
Ethene	**110**	ug/l	0.10	0.0040	1	10/19/2015 16:54	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420008** Date Received: 10/16/2015 11:15 Matrix: Water
Sample ID: **PMW-2-3** Date Collected: 10/13/2015 08:50

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**21**	ug/l	0.50	0.037	1	10/19/2015 17:16	BW	n
Ethane	**0.092J**	ug/l	0.10	0.0020	1	10/19/2015 17:16	BW	n
Ethene	**3.8**	ug/l	0.10	0.0040	1	10/19/2015 17:16	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420009** Date Received: 10/16/2015 11:15 Matrix: Water
Sample ID: **X1B** Date Collected: 10/13/2015 09:25

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**1500**	ug/l	0.50	0.037	1	10/19/2015 18:19	BW	n
Ethane	**5.0**	ug/l	0.10	0.0020	1	10/19/2015 18:19	BW	n
Ethene	**36**	ug/l	0.10	0.0040	1	10/19/2015 18:19	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420010** Date Received: 10/16/2015 11:15 Matrix: Water

Sample ID: **X2B1** Date Collected: 10/13/2015 09:55

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**17000**	ug/l	0.50	0.037	1	10/19/2015 18:29	BW	n
Ethane	**22**	ug/l	0.10	0.0020	1	10/19/2015 18:29	BW	n
Ethene	**0.065J**	ug/l	0.10	0.0040	1	10/19/2015 18:29	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420011** Date Received: 10/16/2015 11:15 Matrix: Water
Sample ID: **23-D** Date Collected: 10/13/2015 10:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**0.39J**	ug/l	0.50	0.037	1	10/19/2015 18:38	BW	n
Ethane	**0.0075J**	ug/l	0.10	0.0020	1	10/19/2015 18:38	BW	n
Ethene	**0.17**	ug/l	0.10	0.0040	1	10/19/2015 18:38	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420012** Date Received: 10/16/2015 11:15 Matrix: Water

Sample ID: **DW-1** Date Collected: 10/13/2015 11:00

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**12000**	ug/l	0.50	0.037	1	10/24/2015 08:47	BW	n
Ethane	**220**	ug/l	0.10	0.0020	1	10/24/2015 08:47	BW	n
Ethene	**0.59**	ug/l	0.10	0.0040	1	10/24/2015 08:47	BW	n

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ANALYTICAL RESULTS

Workorder: 17042 901 THOMPSON PLACE

Lab ID: **170420013** Date Received: 10/16/2015 11:15 Matrix: Water
Sample ID: **16-D** Date Collected: 10/13/2015 11:30

Parameters	Results	Units	PQL	MDL	DF	Analyzed	By	Qualifiers
RISK - MICR								
Analysis Desc: AM20GAX			Analytical Method: AM20GAX					
Methane	**2600**	ug/l	0.50	0.037	1	10/24/2015 08:57	BW	n
Ethane	**1.1**	ug/l	0.10	0.0020	1	10/24/2015 08:57	BW	n
Ethene	**15**	ug/l	0.10	0.0040	1	10/24/2015 08:57	BW	n

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ANALYTICAL RESULTS QUALIFIERS

Workorder: 17042 901 THOMPSON PLACE

DEFINITIONS/QUALIFIERS

Disclaimer : The Pennsylvania Department of Environmental Protection (PADEP) has decided to no longer recognize analyses that do not produce data for primary compliance, for NELAP accreditation. The methods affected by this decision are AM20GAx, AM21G, SW846 7199 and AM4.02. The laboratory shall continue to administer the NELAP/TNI standard requirements in the performance of these methods.

MDL	Method Detection Limit. Can be used synonymously with LOD; Limit Of Detection.
PQL	Practical Quanitation Limit. Can be used synonymously with LOQ; Limit Of Quantitation.
ND	Not detected at or above reporting limit.
DF	Dilution Factor.
S	Surrogate.
RPD	Relative Percent Difference.
% Rec	Percent Recovery.
U	Indicates the compound was analyzed for, but not detected at or above the noted concentration.
J	Estimated concentration greater than the set method detection limit (MDL) and less than the set reporting limit (PQL).
n	The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA

Workorder: 17042 901 THOMPSON PLACE

QC Batch: DISG/4910 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 170420001, 170420002, 170420003, 170420004, 170420005, 170420006, 170420007, 170420008, 170420009, 170420010, 170420011

METHOD BLANK: 37792

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 37794 37796

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	750	720	740	96	98	80-120	2.1	20	n
Ethane	ug/l	38	39	40	104	106	80-120	1.9	20	n
Ethene	ug/l	35	37	38	105	107	80-120	1.9	20	n

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QUALITY CONTROL DATA

Workorder: 17042 901 THOMPSON PLACE

QC Batch: DISG/4933 Analysis Method: AM20GAX

QC Batch Method: AM20GAX

Associated Lab Samples: 170420012, 170420013

METHOD BLANK: 37997

Parameter	Units	Blank Result	Reporting Limit	Qualifiers
RISK				
Methane	ug/l	0.50 U	0.50	n
Ethane	ug/l	0.10 U	0.10	n
Ethene	ug/l	0.10 U	0.10	n

LABORATORY CONTROL SAMPLE & LCSD: 37998 37999

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK										
Methane	ug/l	750	700	700	94	94	80-120	0	20	n
Ethane	ug/l	38	38	38	102	101	80-120	0.99	20	n
Ethene	ug/l	35	36	36	103	102	80-120	0.98	20	n

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 38028 38029 Original: 170600003

Parameter	Units	Original Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limit	RPD	Max RPD	Qualifiers
RISK											
Methane	ug/l	260	750	980	940	96	92	70-130	4.3	20	n
Ethane	ug/l	0.085	38	35	35	93	92	70-130	1.1	20	n
Ethene	ug/l	0.022	35	33	33	93	92	70-130	1.1	20	n

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QUALITY CONTROL DATA QUALIFIERS

Workorder: 17042 901 THOMPSON PLACE

QUALITY CONTROL PARAMETER QUALIFIERS

n The laboratory does not hold NELAP/TNI accreditation for this method or analyte.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Workorder: 17042 901 THOMPSON PLACE

Lab ID	Sample ID	Prep Method	Prep Batch	Analysis Method	Analysis Batch
170420001	28-MW			AM20GAX	DISG/4910
170420002	16-S			AM20GAX	DISG/4910
170420003	DW-2			AM20GAX	DISG/4910
170420004	X2A			AM20GAX	DISG/4910
170420005	23-S			AM20GAX	DISG/4910
170420006	DW-7			AM20GAX	DISG/4910
170420007	PMW-2-1			AM20GAX	DISG/4910
170420008	PMW-2-3			AM20GAX	DISG/4910
170420009	X1B			AM20GAX	DISG/4910
170420010	X2B1			AM20GAX	DISG/4910
170420011	23-D			AM20GAX	DISG/4910
170420012	DW-1			AM20GAX	DISG/4933
170420013	16-D			AM20GAX	DISG/4933

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BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 151012-BW1

CLIENT: Haley & Aldrich

SITE: **Quarterly ISB Monitoring**
901 Thompson Place
Sunnyvale, CA

LAB: Pace/Microseeps | DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL	CONTAINERS	C = COMPOSITE ALL CONTAINERS	Methane, Ethane, Ethene (AM20GAX)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
28-MW	10/12/15	1340	W	VOA-3	VOA		X										
16-S	↓	1415	W	3	VOA		X										
DW-2	↓	1440	W	3	VOA		X										
X2A	↓	1510	W	3	VOA		X										
235	↓	1550	W	3	VOA		X										
DW-7	10/13/15	0745	W	3	VOA		X										
PMW-2-1	↓	0815	W	3	VOA		X										
PMW-2-3	↓	0850	W	3	VOA		X										
X1B	↓	0925	W	3	VOA		X										
X2B1	↓	0955	W	3	VOA		X										

SAMPLING COMPLETED: DATE 10/13/15 TIME 1800

SAMPLING PERFORMED BY: Brian Weeks

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/14/15	1800	[signature] S.C.	10/14/15	1800
[signature] (S.C.)	10/16/15	1545	[signature] PACS	10.16.15	11 15

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
FED-EX	10/15/15	1545	

17042

2/2

BLAINE
TECH SERVICES, INC.

1680 ROGERS AVENUE
SAN JOSE, CALIFORNIA 95112-1105
FAX (408) 573-7771
PHONE (408) 573-0555

CHAIN OF CUSTODY BTS # 15OR-BW1

CLIENT: Haley & Aldrich

SITE: **Quarterly ISB Monitoring**
901 Thompson Place
Sunnyvale, CA

LAB: Pace/Microseeps

DHS #

MUST MEET SPECIFICATIONS
- [x] EPA
- [ ] LIA
- [ ] OTHER
- [ ] RWQCB REGION _____

SPECIAL INSTRUCTIONS

Invoice and Report to: Haley & Aldrich
Mike Calhoun & Michael Zlotoff
mcalhoun@haleyaldrich.com & mzlotoff@haleyaldrich.com
510.879.4554
EFD Required. Site ID: SL720041205 Consultant ID: HAIS
PO Number 39751-015

C = COMPOSITE ALL CONTAINERS

CONDUCT ANALYSIS TO DETECT

SAMPLE I.D.	DATE	TIME	MATRIX (S = Soil, W = H2O)	CONTAINERS TOTAL		C = COMPOSITE ALL CONTAINERS	Methane, Ethane, Ethene (AM20GAX)							ADD'L INFORMATION	STATUS	CONDITION	LAB SAMPLE #
1123-D	10/13/15	1030	W	3	VOA		X										
12 DW-1	↓	1100	W	3	VOA		X										
1316-D	↓	1130	W	3	VOA		X										

SAMPLING COMPLETED: DATE 10/13/15 TIME 1130

SAMPLING PERFORMED BY: Brian Weeks

RESULTS NEEDED NO LATER THAN: Standard TAT

RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
[signature]	10/14/15	1800	[signature] S.C.	10/14/15	1800
[signature] (S.C)	10/15/15	1545	[signature] PACS	10.16.15	11 15

SHIPPED VIA	DATE SENT	TIME SENT	COOLER #
FED-EX	10/15/15	1545	

Cooler Receipt Form

Client Name: Haley & Aldrich Project: 901 Thompson Place Lab Work Order: 17042

A. Shipping/Container Information (circle appropriate response)

Courier: (FedEx) UPS USPS Client Other:_____ Air bill Present: (Yes) No

Tracking Number: 774753260910

Custody Seal on Cooler/Box Present: Yes (No) Seals Intact: Yes No

Cooler/Box Packing Material: (Bubble Wrap) Absorbent Foam (Other)_____

Type of Ice: (Wet) Blue None Ice Intact: (Yes) Melted

Cooler Temperature: 5°C Radiation Screened: Yes (No) Chain of Custody Present: (Yes) No

Comments:_____

B. Laboratory Assignment/Log-in (check appropriate response)

	YES	NO	N/A	Comment Reference non-Conformance
Chain of Custody properly filled out	✓			
Chain of Custody relinquished	✓			
Sampler Name & Signature on COC	✓			
Containers intact	✓			
Were samples in separate bags	✓			
Sample container labels match COC Sample name/date and time collected	✓			
Sufficient volume provided	✓			
PAES containers used	✓			
Are containers properly preserved for the requested testing? (as labeled)	✓			
If an unknown preservation state, were containers checked? Exception: VOA's coliform			✓	If yes, see pH form.
Was volume for dissolved testing field filtered, as noted on the COC? Was volume received in a preserved container?			✓	

Comments:_____

Cooler contents examined/received by: LY Date: 10.16.15

Project Manager Review: RW Date: 10-18-15

APPENDIX E

Quality Assurance/Quality Control Data

Data Usability Summary Report (DUSR)
901 Thompson Place
Analytical Laboratory: Curtis & Tompkins, Ltd. - Berkeley, CA
Sample Delivery Group # 270723

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
  USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
35-DDD	EB-1	28-S
27-D	52-D	22-DD
29-S	37-S	22-S
29-D	36-D	27-S
15-S	36-DD	27-DD
53-D	36-S	2-D
1-D	28-D	EB-2
TB-1		

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Field Duplicate Sample Analysis
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

Target Analyte(s)	Original Sample ID. 27-D	FD Sample ID. 1-D	%RPD	Flag Original and FD sample results with:
1,1-Dichloroethene	0.7	0.7	0%	
cis-1,2-Dichloroethene	1.5	1.9	24%	
Trichloroethene	80	95	17%	
Tetrachloroethene	5.3	5.6	6%	
1,2,4-Trichlorobenzene	4.0	4.6	14%	

Target Analyte(s)	Original Sample ID. 27-S	FD Sample ID. 2-D	%RPD	Flag Original and FD sample results with:
Vinyl chloride	3.6	3.6	0%	
1,1-Dichloroethene	3.5	2.8	22%	
trans-1,2-Dichloroethene	8.5	8.9	5%	
cis-1,2-Dichloroethene	220	220	0%	
Trichloroethene	99	100	1%	
Tetrachloroethene	7.1	8.3	16%	
1,3-Dichlorobenzene	14	13	7%	
1,4-Dichlorobenzene	2.3	2.3	0%	
1,2,3-Trichlorobenzene	1.7	1.4	19%	
1,2,4-Trichlorobenzene	24	22	9%	

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
Quarterly ISB Monitoring - 901 Thompson Place
Analytical Laboratory: Curtis & Tompkins, Ltd. - Berkeley, CA
Sample Delivery Group # 270724

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Inorganic Data Review (EPA 540-R-04-004)
- USEPA National Functional Guidelines for Organic Data Review (EPA 540-R-08-01) and/or
  USEPA National Functional Guidelines for Low Concentration Organic Data Review (EPA 540-R-00-006)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID	Sample ID
28-MW	TB-1	X1B
16-S	DUP-1	X2B1
DW-2	DW-7	23-D
X2A	PMW-2-1	DW-1
23-S	PMW-2-3	16-D

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	VOCs	EPA 8260B	14 days
2.	Total Organic Carbon (TOC)	EPA 9060	28 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Blank Sample Analysis
- System Monitoring Compound Recoveries
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Duplicate Sample Analysis
- Field Duplicate Sample Analysis
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

System Monitoring Compound Recoveries

System monitoring/surrogate compounds are added to each sample prior to analysis of organic parameters to confirm the efficiency of the sample preparation procedure. The calculated recovery for each surrogate compound was evaluated to confirm the accuracy of the reported results. The calculated recovery of these compounds fell within the laboratory specific quality control criteria. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Duplicate Sample Analysis

The replicate percent difference (RPD) was evaluated for each duplicate sample pair to monitor the reproducibility of the data. The RPD for each sample pair was within the QA/QC limit of 30% for aqueous samples and 50% for solid matrices, for those target analytes with sample concentrations >5X the MDL. No qualification of the data is recommended.

Field Duplicate Sample Analysis

The overall variability attributable to the sampling procedure, sample matrix, and laboratory procedures, was evaluated by assessing the relative percent difference (RPD) data from field duplicate samples. All calculated RPD values were within matrix specific data quality objectives, with the exception of results qualified "J" as shown in the table(s) below:

Target Analyte(s)	Original Sample ID. 28-MW	FD Sample ID. DUP-1	%RPD	Flag Original and FD sample results with:
Vinyl chloride	32.0	31	3%	
trans-1,2-Dichloroethene	0.9	1.1	20%	
cis-1,2-Dichloroethene	66	63	5%	
Chlorobenzene	8	7.7	4%	
1,4-Dichlorobenzene	0.5	0.5	0%	
1,2-Dichlorobenzene	6	5.9	2%	

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Target Analyte(s)	Original Sample ID. 28-MW	FD Sample ID. DUP-1	%RPD	Flag Original and FD sample results with:
Total Organic Carbon (TOC)	7.4	7.5	1%	

Action:

If the sample matrix is solid and the %RPD is greater than 50%, the original sample results are qualified "J". If the sample matrix is water or air and the %RPD is greater than 35%, the original sample results are qualified "J".

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

Data Usability Summary Report (DUSR)
901 Thompson Place
Analytical Laboratory: Pace Analytical Energy Services, LLC - Pittsburgh, PA
Sample Delivery Group # 17042

Analytical results for the project samples were reviewed to evaluate the data usability. Data was assessed in accordance with guidance from the following Federal and/or State guidance documents:

- USEPA National Functional Guidelines for Inorganic Data Review (EPA 540-R-04-004)

and method protocol criteria where applicable as prescribed by "Test Methods for Evaluating Solid Waste", SW846, Update III, 1996, or Standard Methods for the Examination of Water and Wastewater, Eds 18-20.

This DUSR pertains to the following samples:

Sample ID	Sample ID
28-MW	PMW-2-3
16-S	X1B
DW-2	X2B1
X2A	23-D
23-S	DW-1
DW-7	16-D
PMW-2-1	

Project Samples were analyzed according to the following analytical methods

	Parameter	Analytical Method	Holding Time Criteria
1.	Dissolved Gases in Water	AM20GAX	14 days

The following items/criteria applicable to the analysis of project samples and associated QA/QC procedures were reviewed

- Holding Times
- Blank Sample Analysis
- Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries
- Sample Data Reporting Format
- Data Qualifiers
- Summary

Preservation and Holding Times

Maximum allowable holding times, measured from the time of sample collection to the time of sample preparation or analysis, were met for each project sample analyzed as part of this sample delivery group. No qualification of the data is recommended.

Blank Sample Analysis

In accordance with cited USEPA guidelines, positive sample results should be reported unless the concentration of the compound in the project sample is less than or equal to 10 times (10X) the amount in any blank for metals and the common organic laboratory contaminants (methylene chloride, acetone, 2-butanone, cyclohexane, and phthalate esters), or 5 times (5X) the amount for other target compounds. Target analytes were not detected in associated blank samples (trip, equipment, method) prepared and analyzed concurrently with the project samples. No qualification of the data is recommended.

Laboratory Control Samples, Matrix Spike/Matrix Spike Duplicate Recoveries

Analytical precision and accuracy was evaluated based on the laboratory control and matrix spike sample analyses performed concurrently with the project samples. For matrix spike samples, after the addition of a known amount of each target analyte to the sample matrix, the sample was analyzed to confirm the ability to identify these compounds within the sample matrix. For LCS analyses, after the addition of a known amount of each target analyte into laboratory reagent water, the sample was analyzed to confirm the ability of the analytical system to accurately quantify the compounds. The reported recovery of MS/MSD and LCS analyses fell within the laboratory QA acceptance criteria. No qualification of the data is recommended.

Sample Data Reporting Format

The sample data are presented using USEPA Contract Laboratory Protocol (CLP) format or equivalent. The data package has been reviewed for completeness and found to contain each required sample result and associated QA/QC report form. The reporting format is complete and compliant with the objectives of the project. No qualification of the data is recommended.

Data Qualifiers

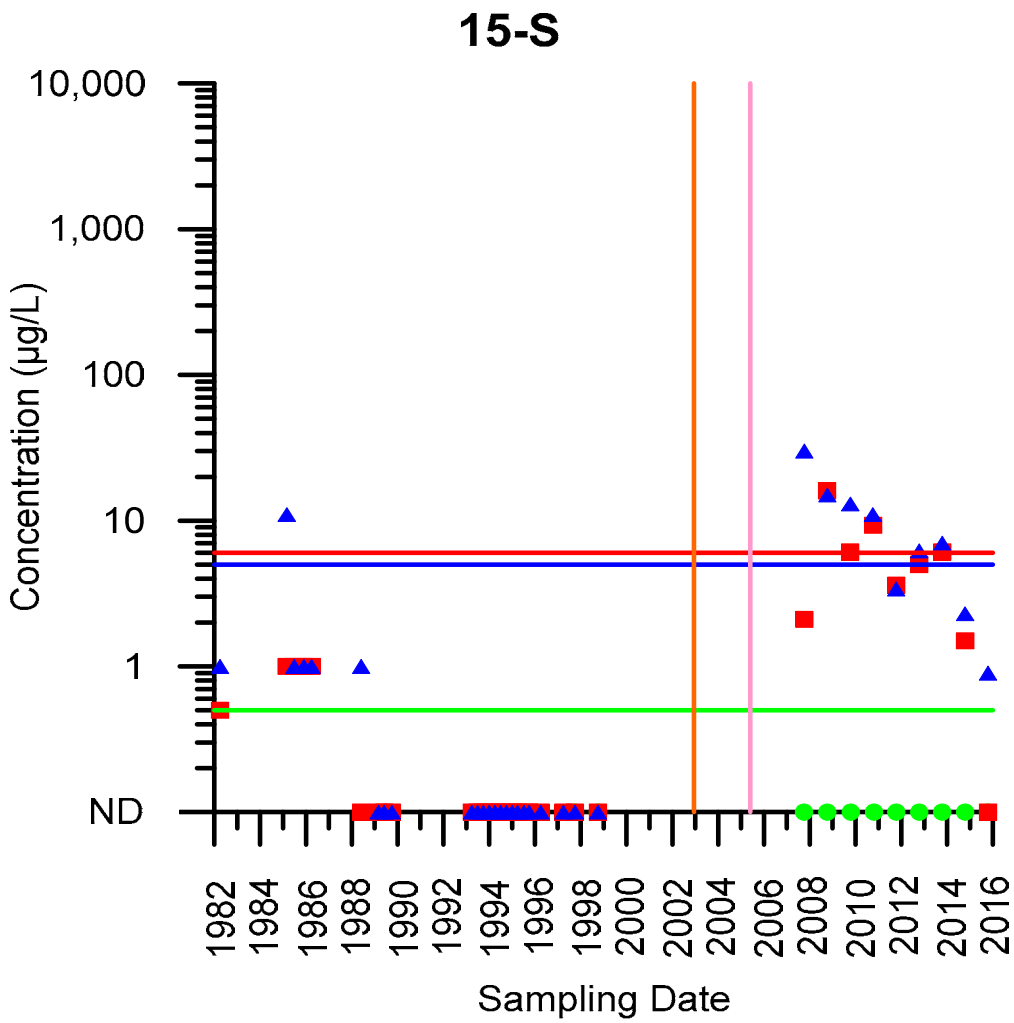
Samples that contain results between the MDL and RL were flagged as estimated, "J", by the laboratory. The data user should be aware that there is a possibility of false positive or mis-identification at the quantitation levels. The laboratory also qualified results when target analytes were detected in the associated method/preparation blank sample. Based on a spot check of the data qualifiers used, these flags appeared to be applied to the reported results in accordance with EPA guidance.

Summary

The results presented in each report were found to be compliant with the data quality objectives for the project and usable. Based on our review, the usability of the data is 100%, with the few exceptions noted above.

APPENDIX F

Concentration Trend Plots for Site Monitoring Wells



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

HALEY ALDRICH

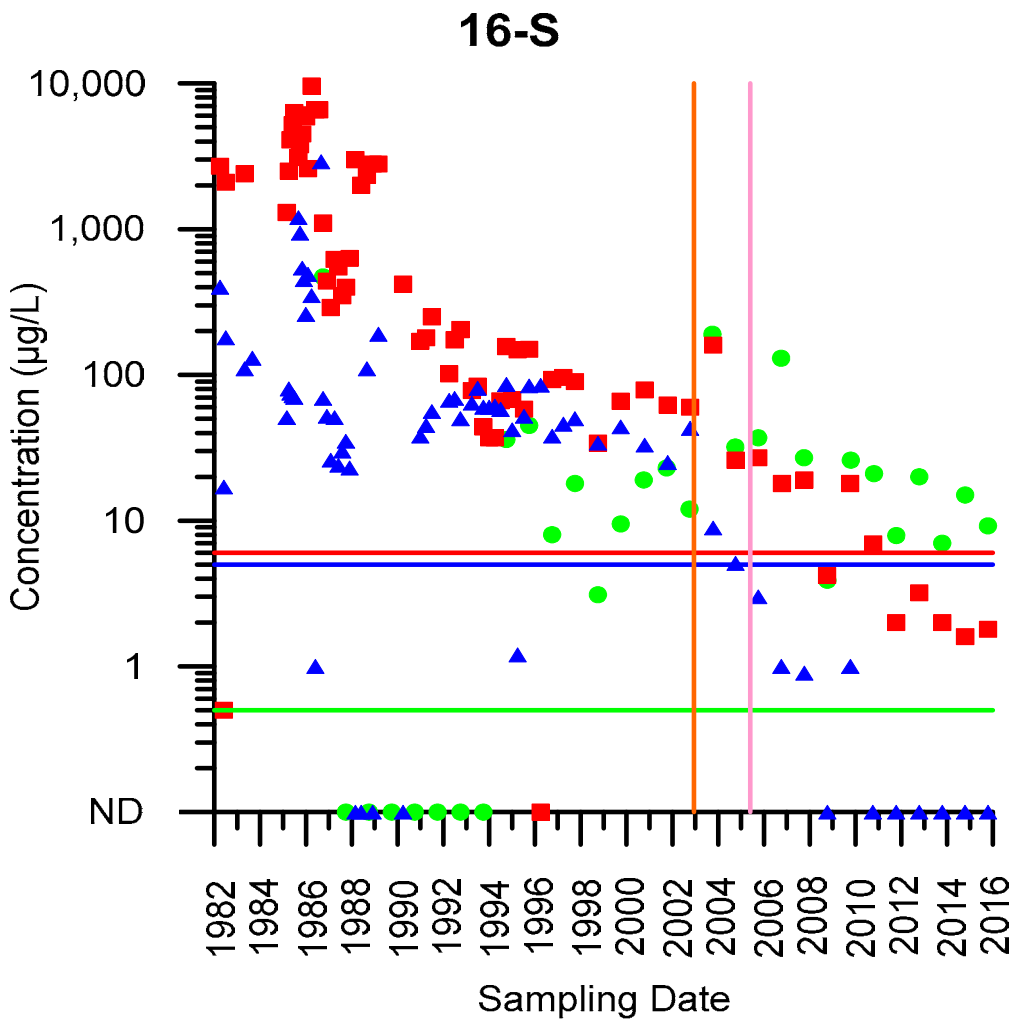
FORMER 901/902 THOMPSON PLACE
SUNNYVALE, CALIFORNIA

CONCENTRATION TRENDS FOR WELL 15-S

JANUARY 2016

FIGURE F-1

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-1



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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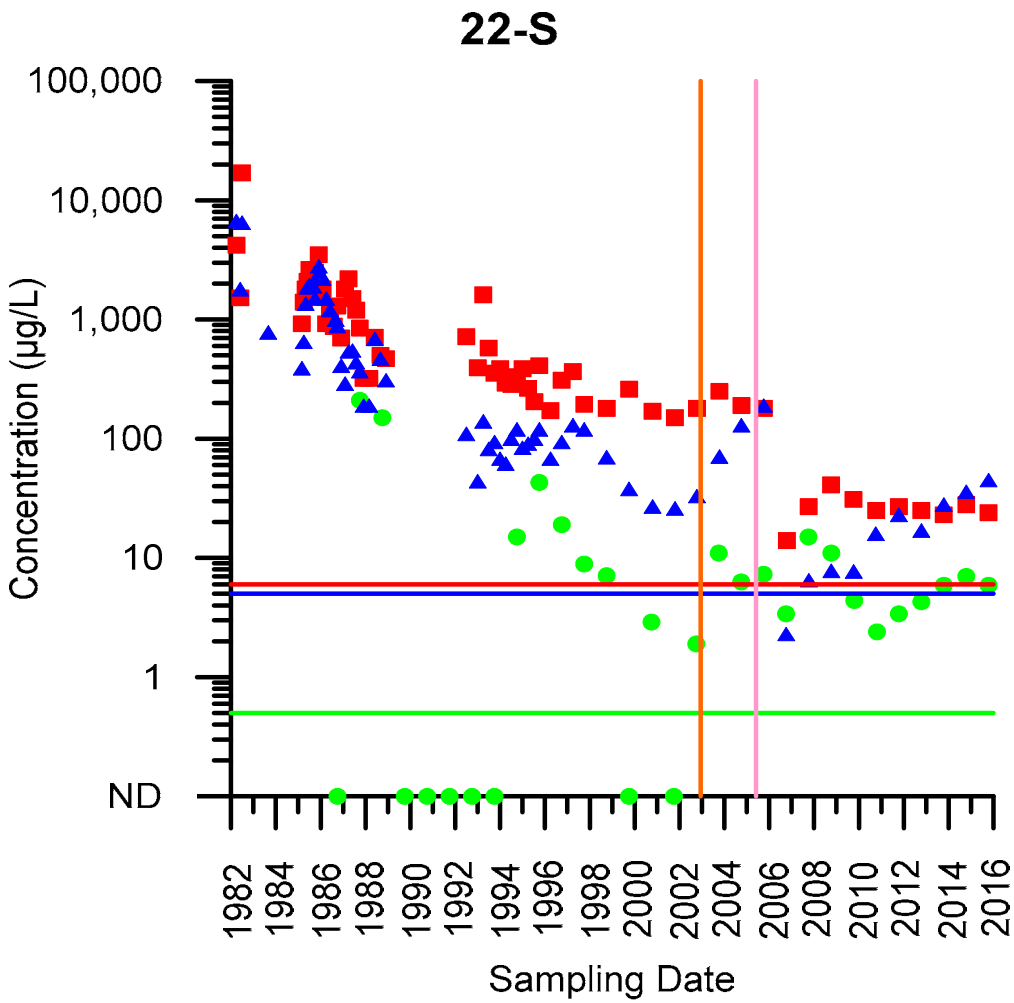
CONCENTRATION TRENDS FOR WELL 16-S

JANUARY 2016

FIGURE F-2

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-2



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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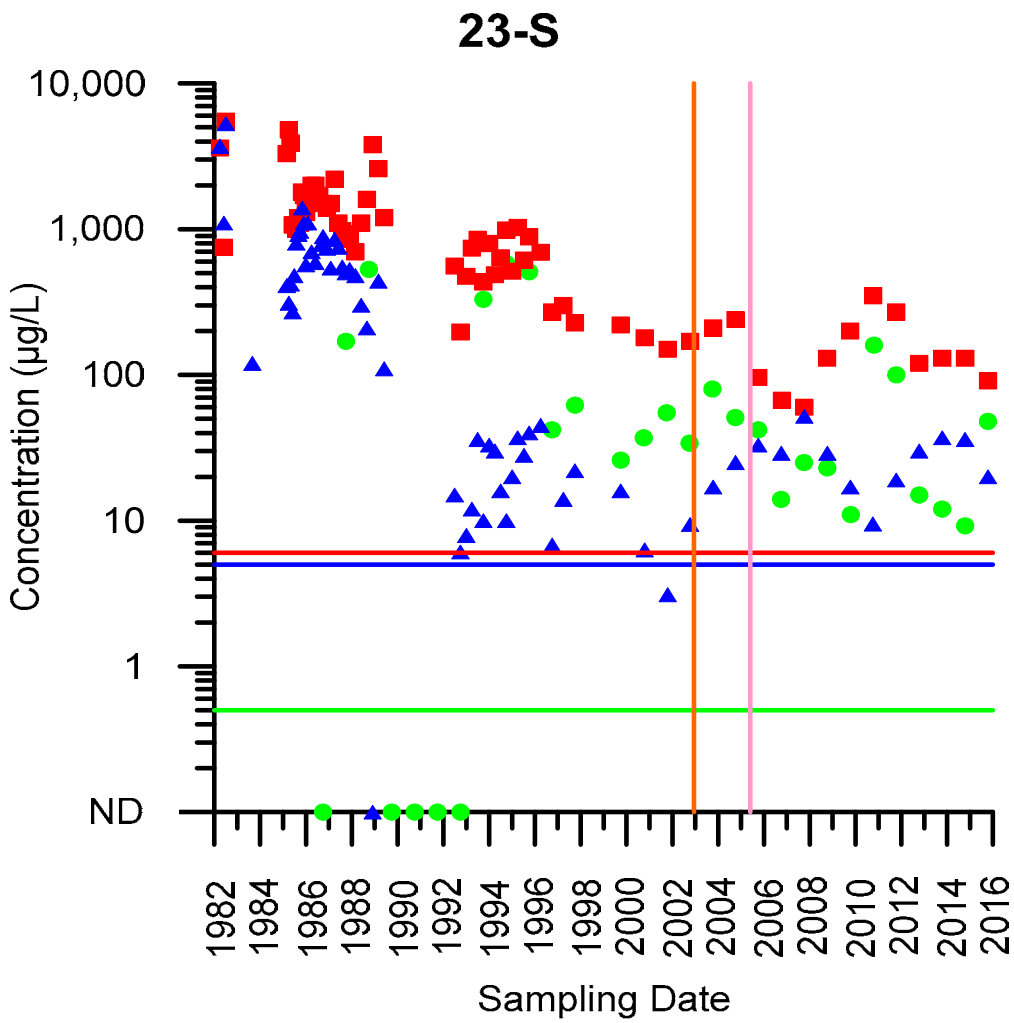
CONCENTRATION TRENDS FOR WELL 22-S

JANUARY 2016

FIGURE F-3

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-3



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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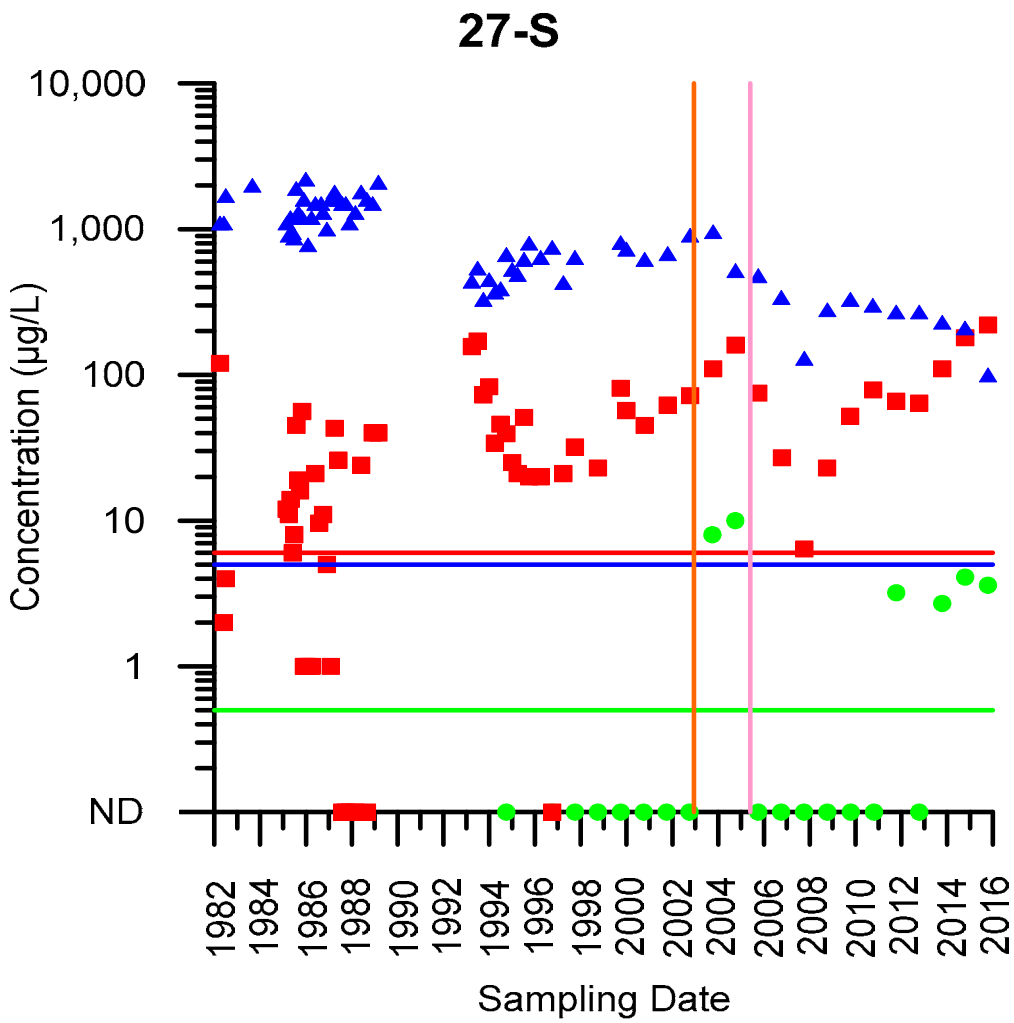
CONCENTRATION TRENDS FOR WELL 23-S

JANUARY 2016

FIGURE F-4

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-4



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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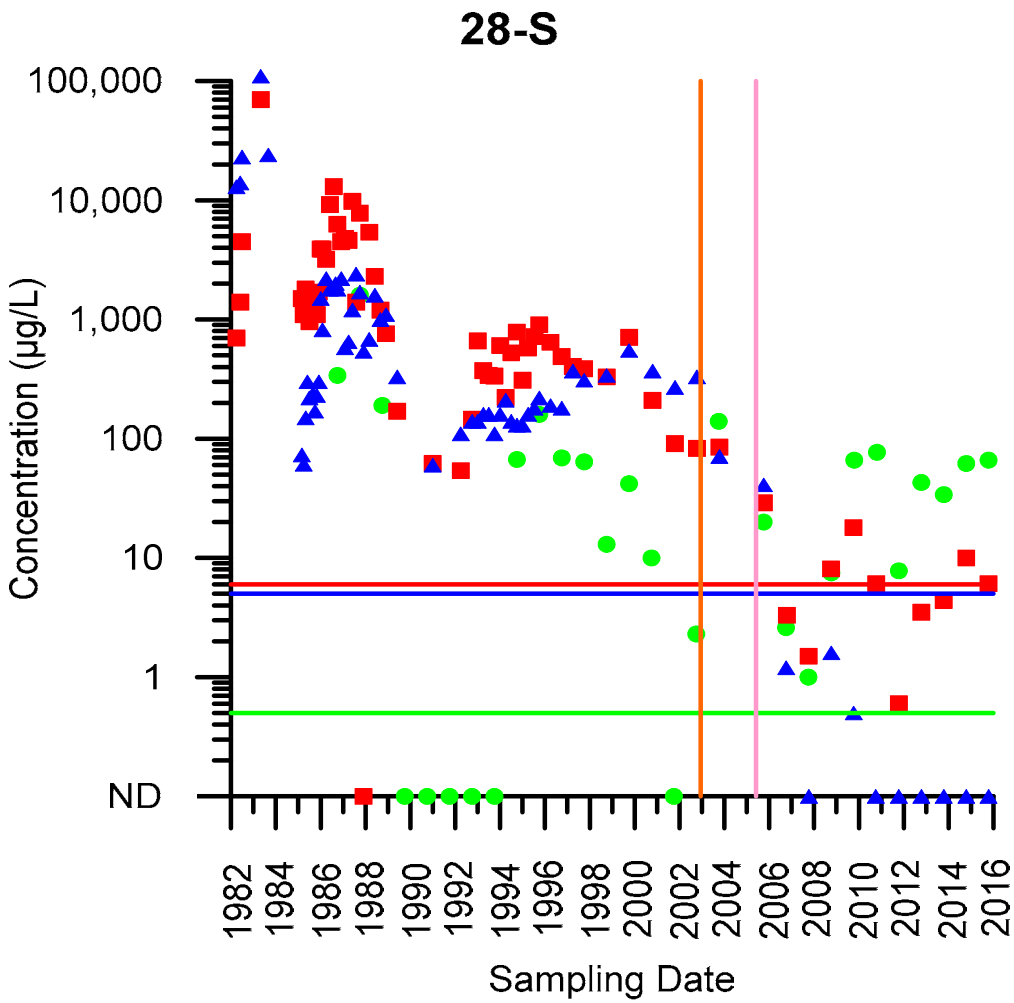
CONCENTRATION TRENDS FOR WELL 27-S

JANUARY 2016

FIGURE F-5

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-5



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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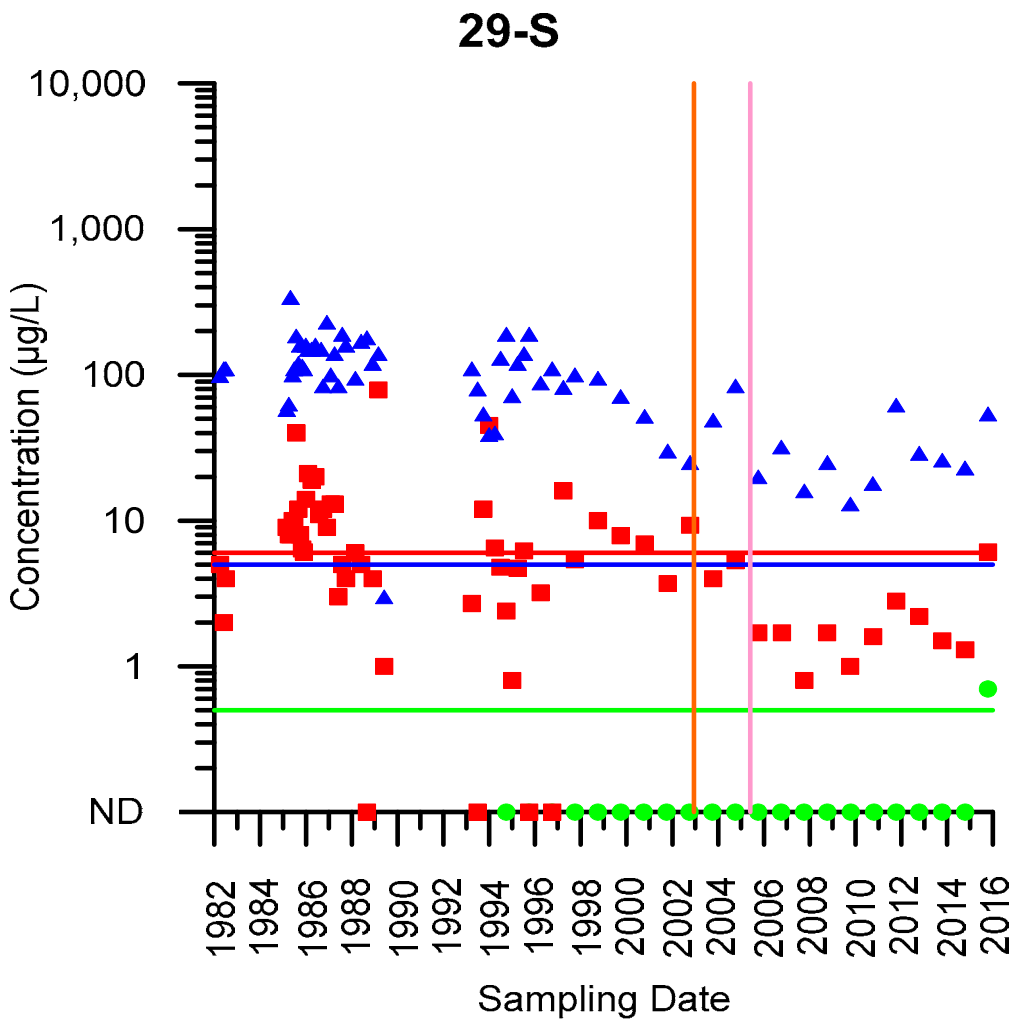
CONCENTRATION TRENDS FOR WELL 28-S

JANUARY 2016

FIGURE F-6

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-6



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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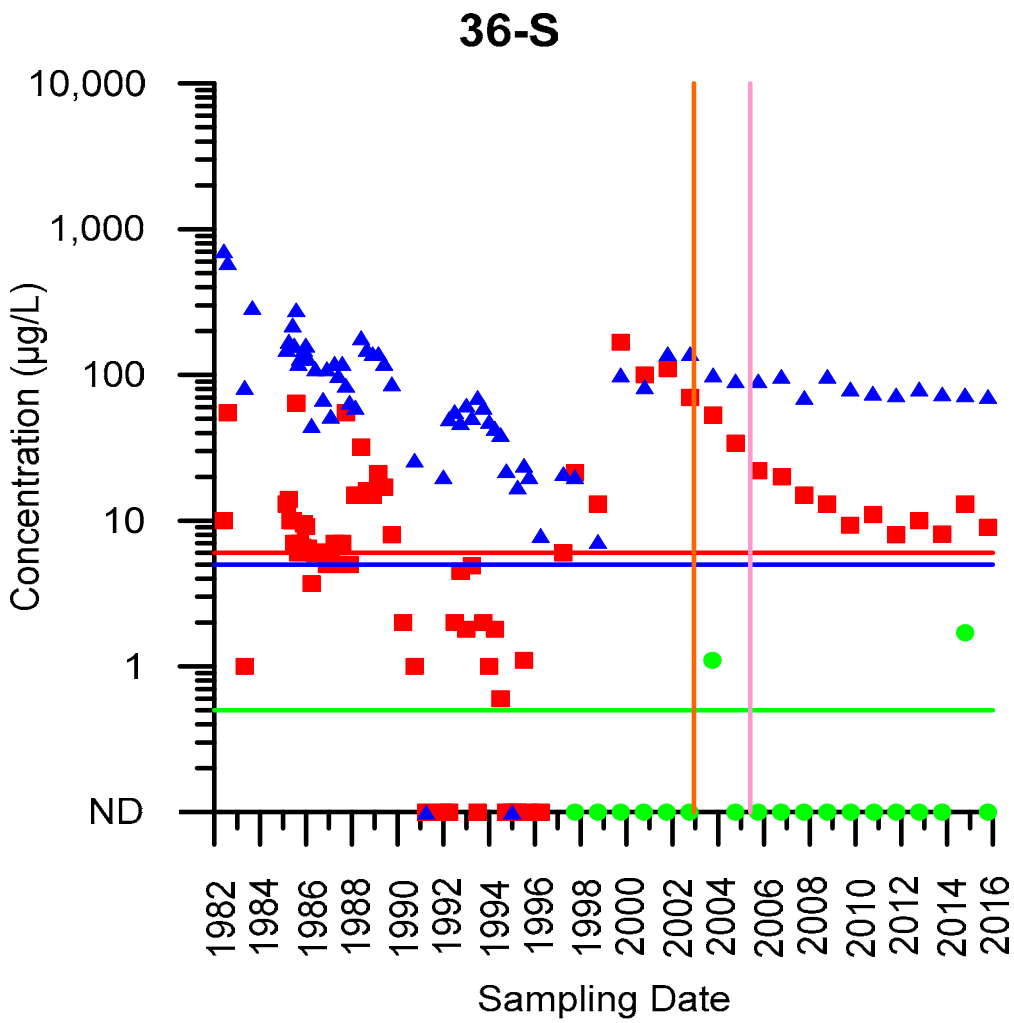
CONCENTRATION TRENDS FOR WELL 29-S

JANUARY 2016

FIGURE F-7

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-7



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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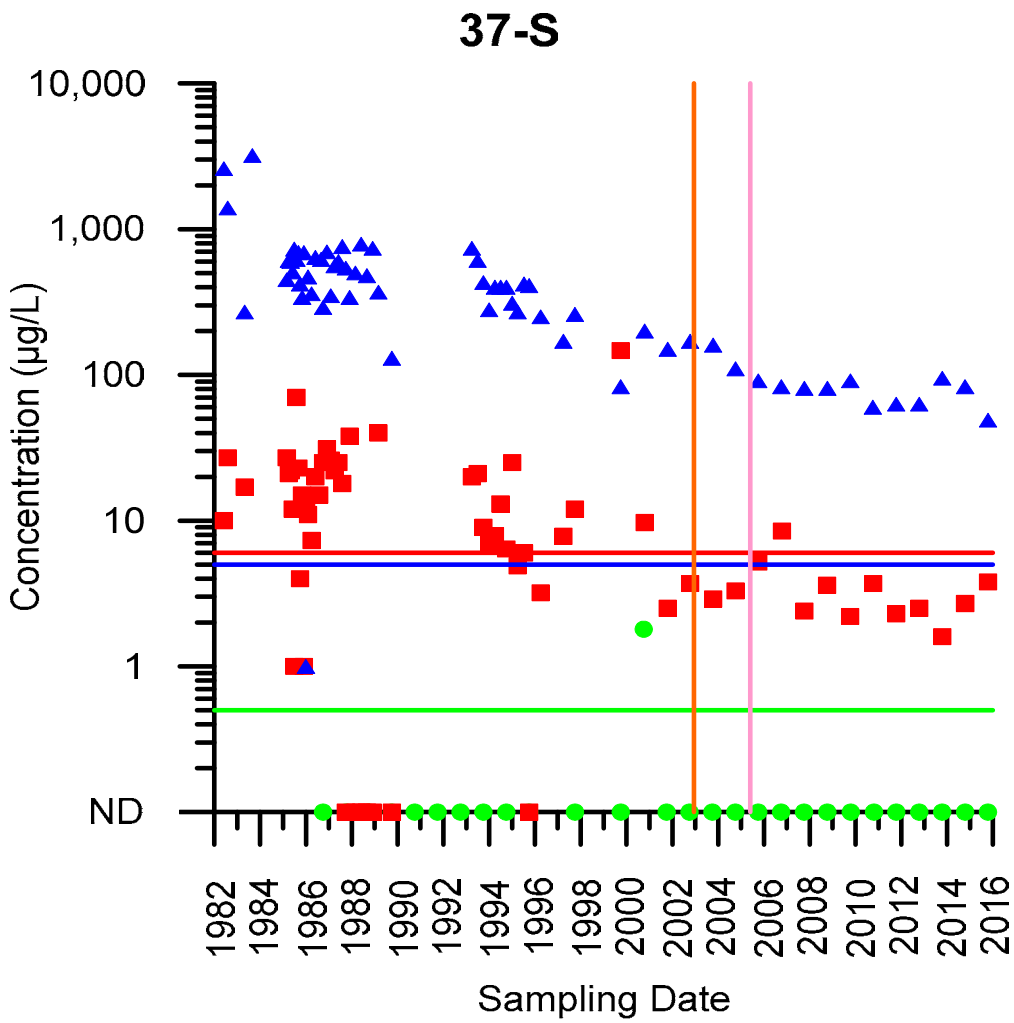
CONCENTRATION TRENDS FOR WELL 36-S

JANUARY 2016

FIGURE F-8

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-8



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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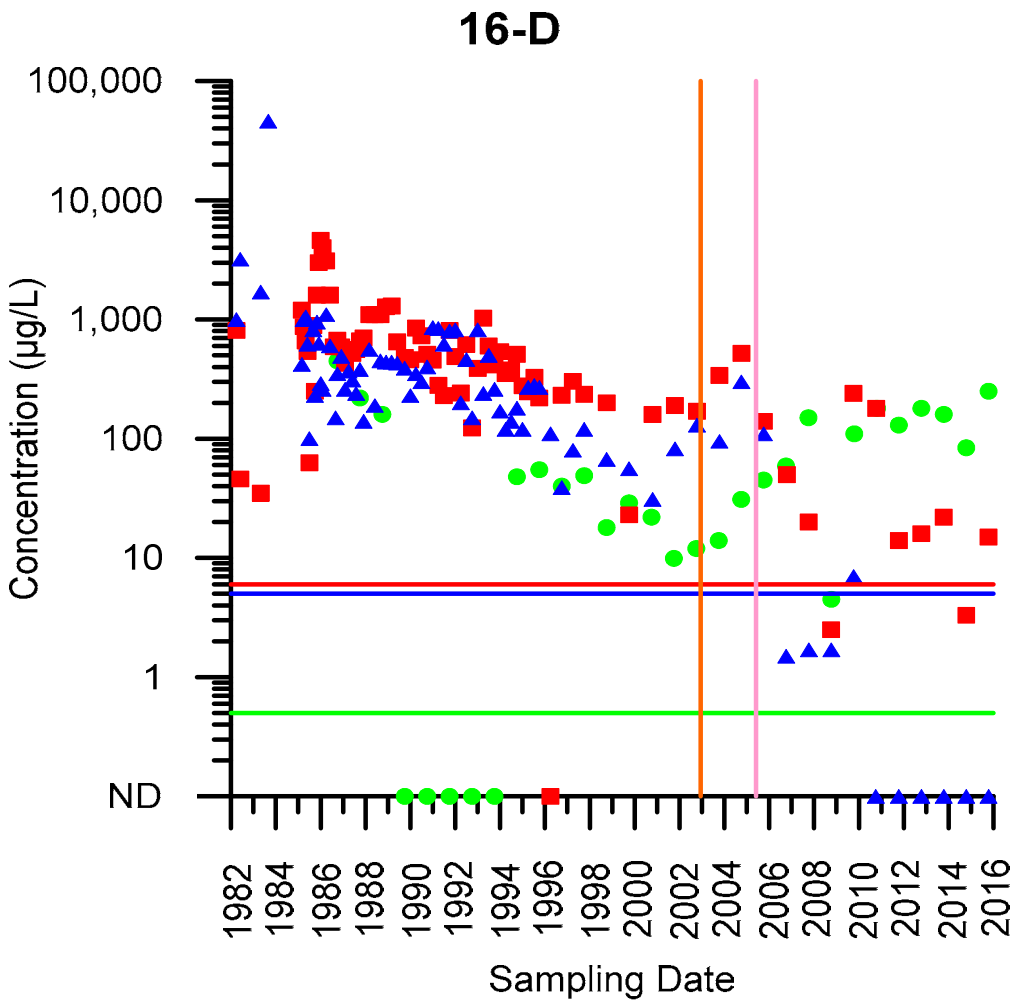
CONCENTRATION TRENDS FOR WELL 37-S

JANUARY 2016

FIGURE F-9

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-9



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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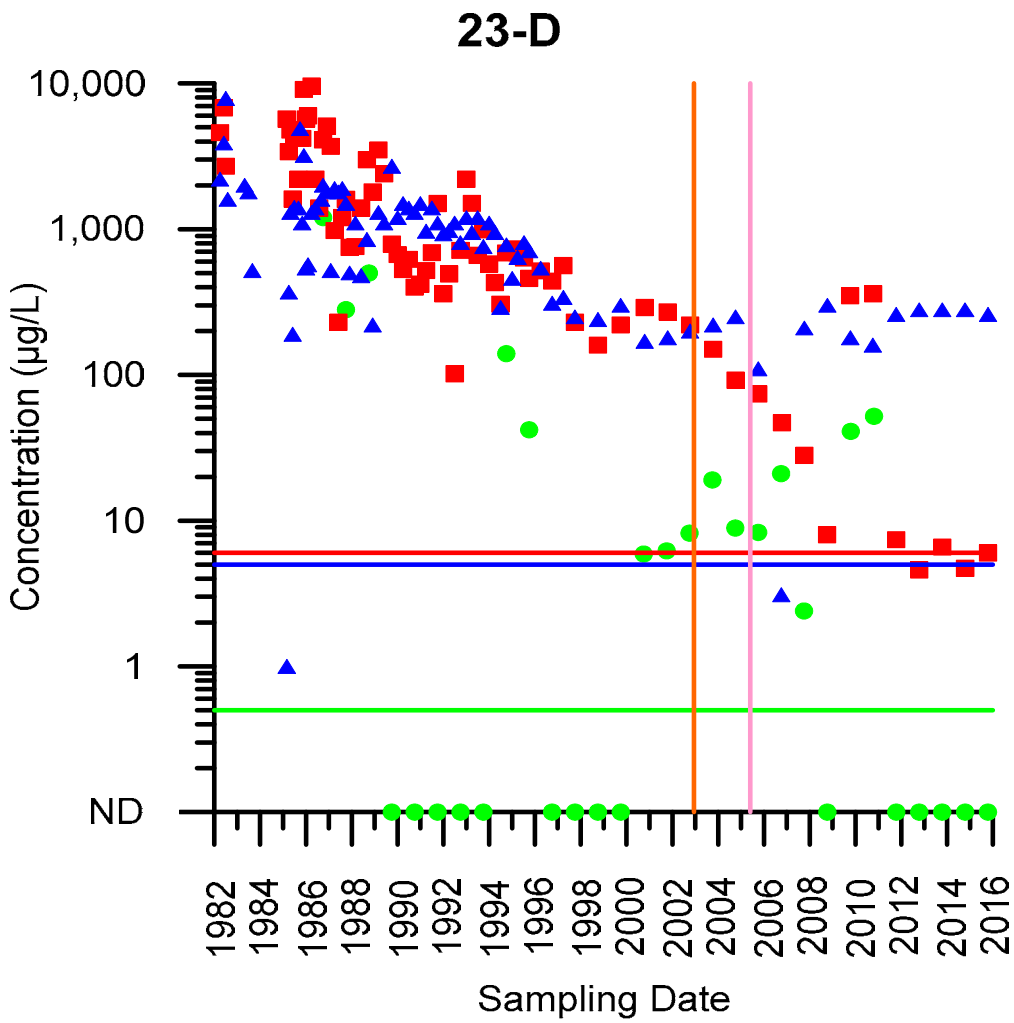
CONCENTRATION TRENDS FOR WELL 16-D

JANUARY 2016

FIGURE F-10

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-10



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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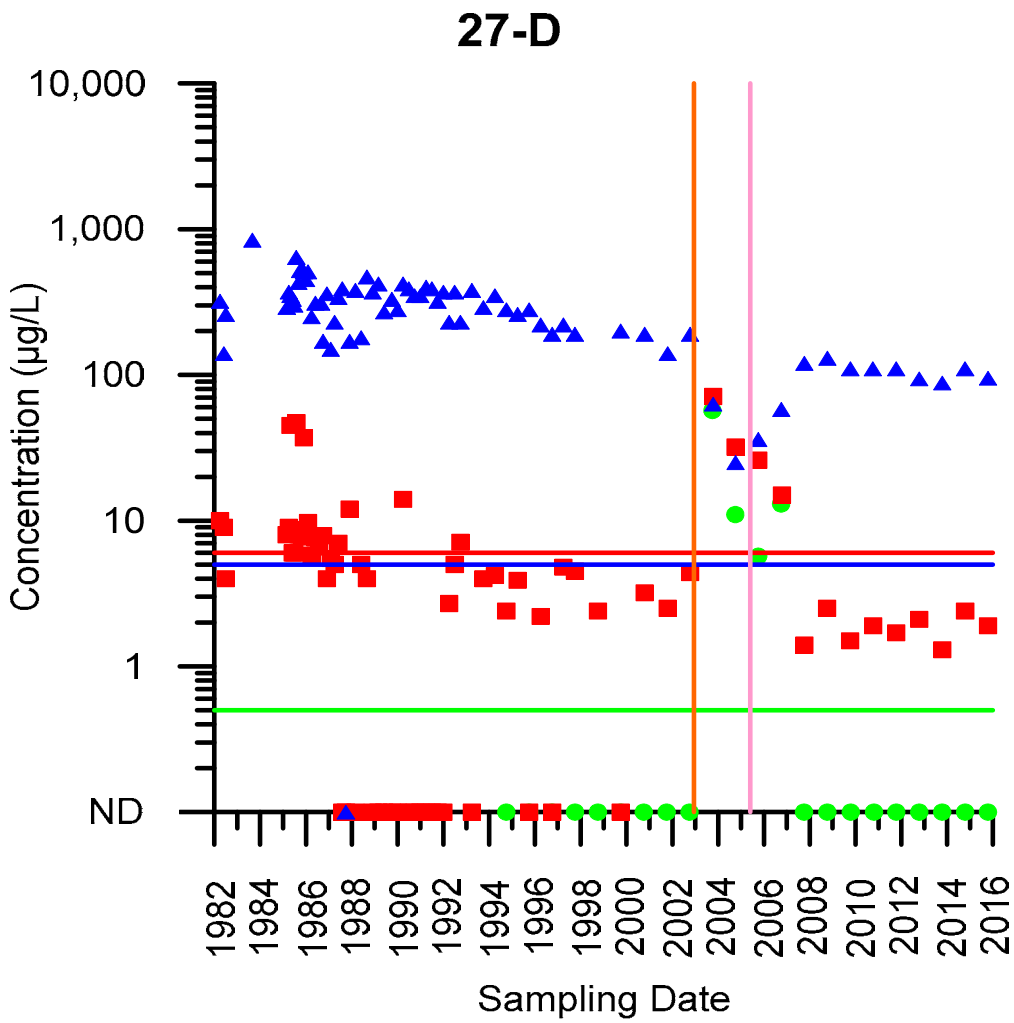
SUNNYVALE, CALIFORNIA

CONCENTRATION TRENDS FOR WELL 23-D

JANUARY 2016

FIGURE F-11

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-11



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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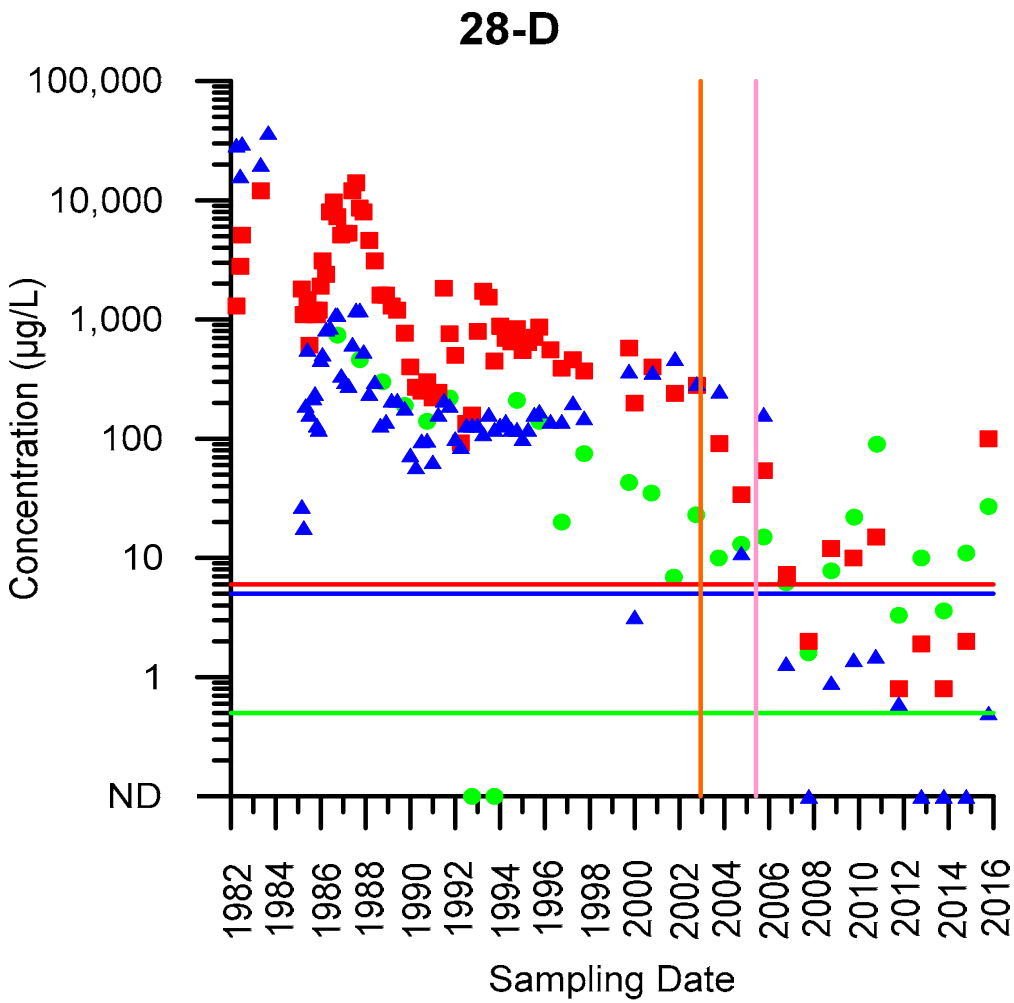
FIGURE F-12

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-12



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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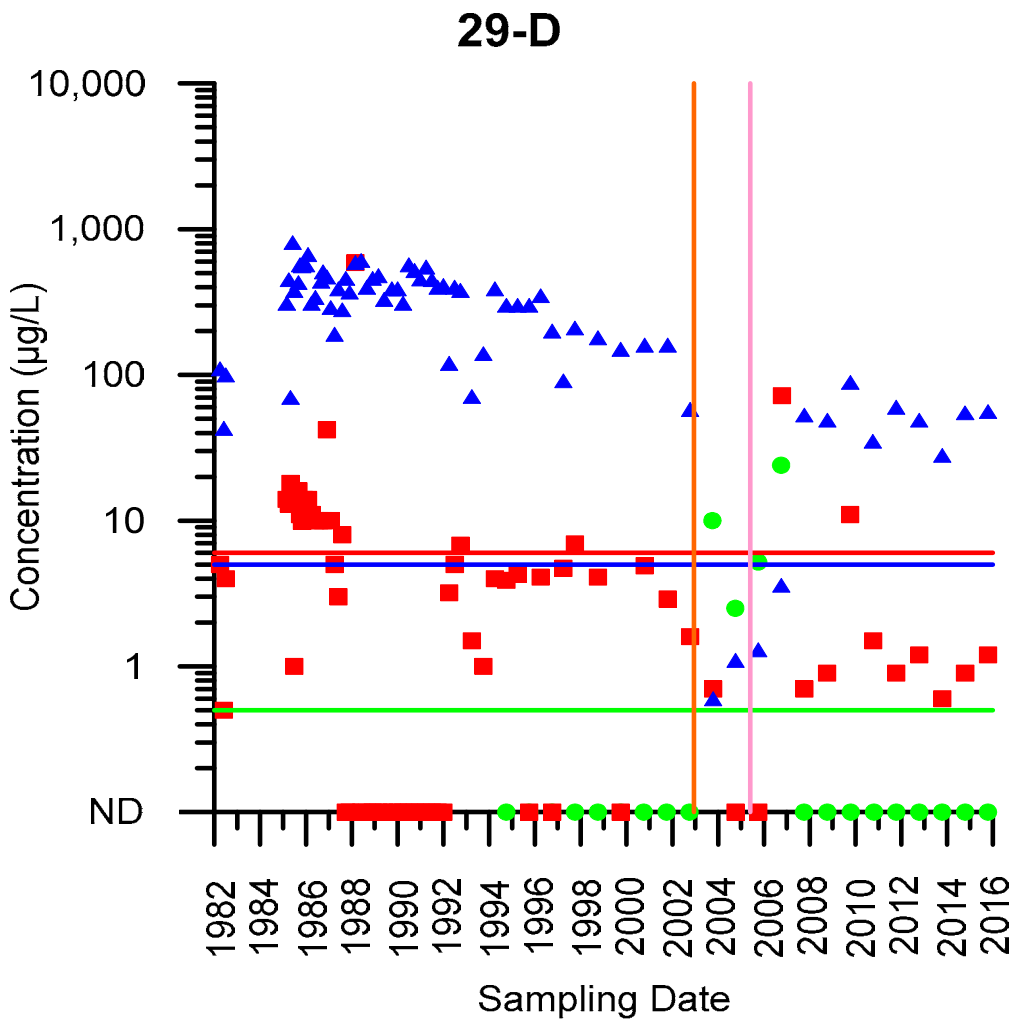
FIGURE F-13

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-13



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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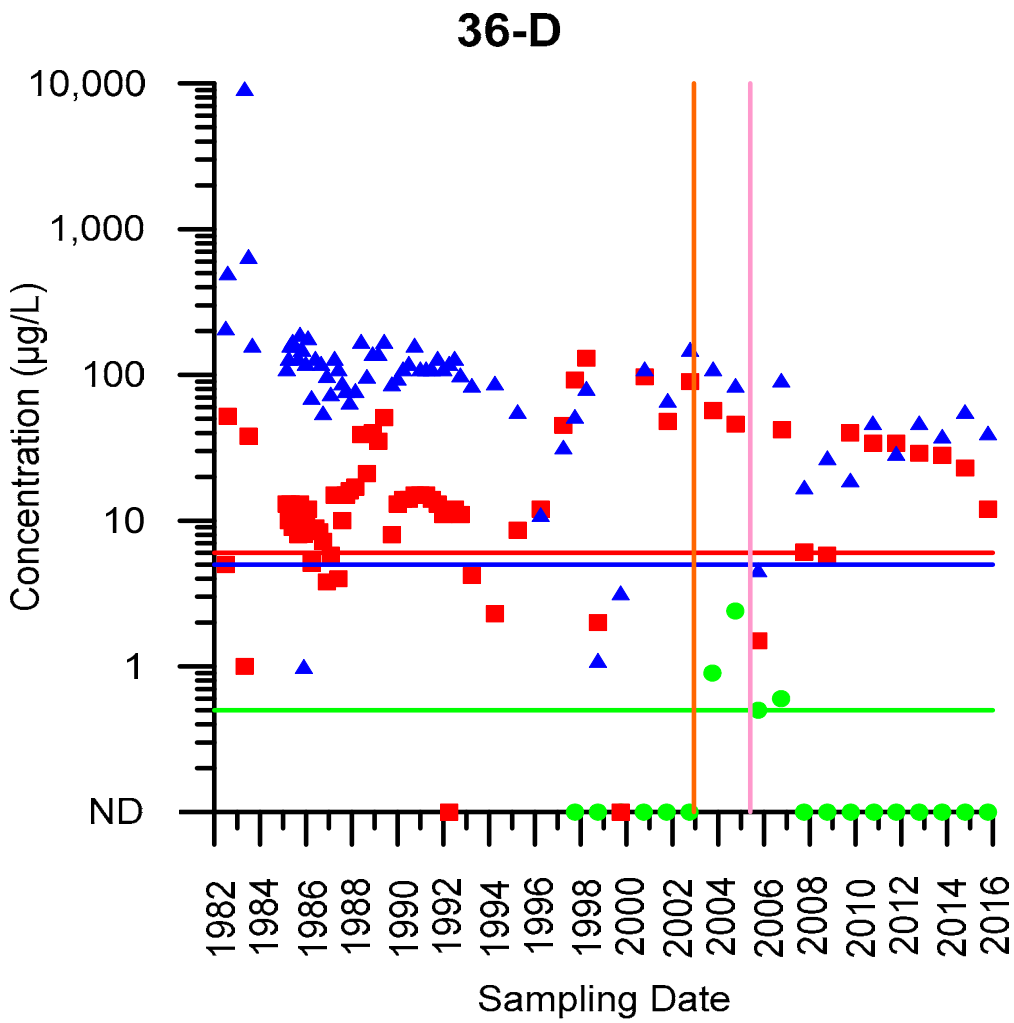
FIGURE F-14

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-14



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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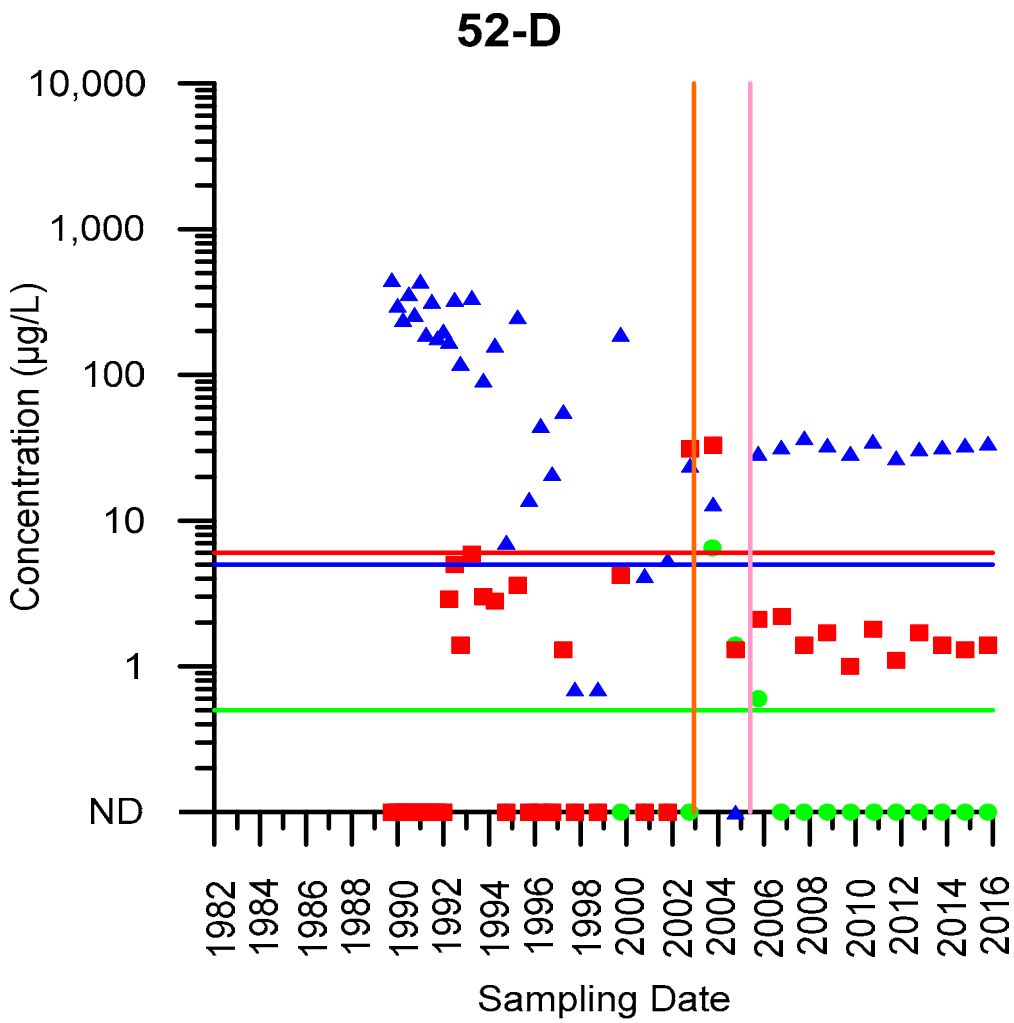
FIGURE F-15

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-15



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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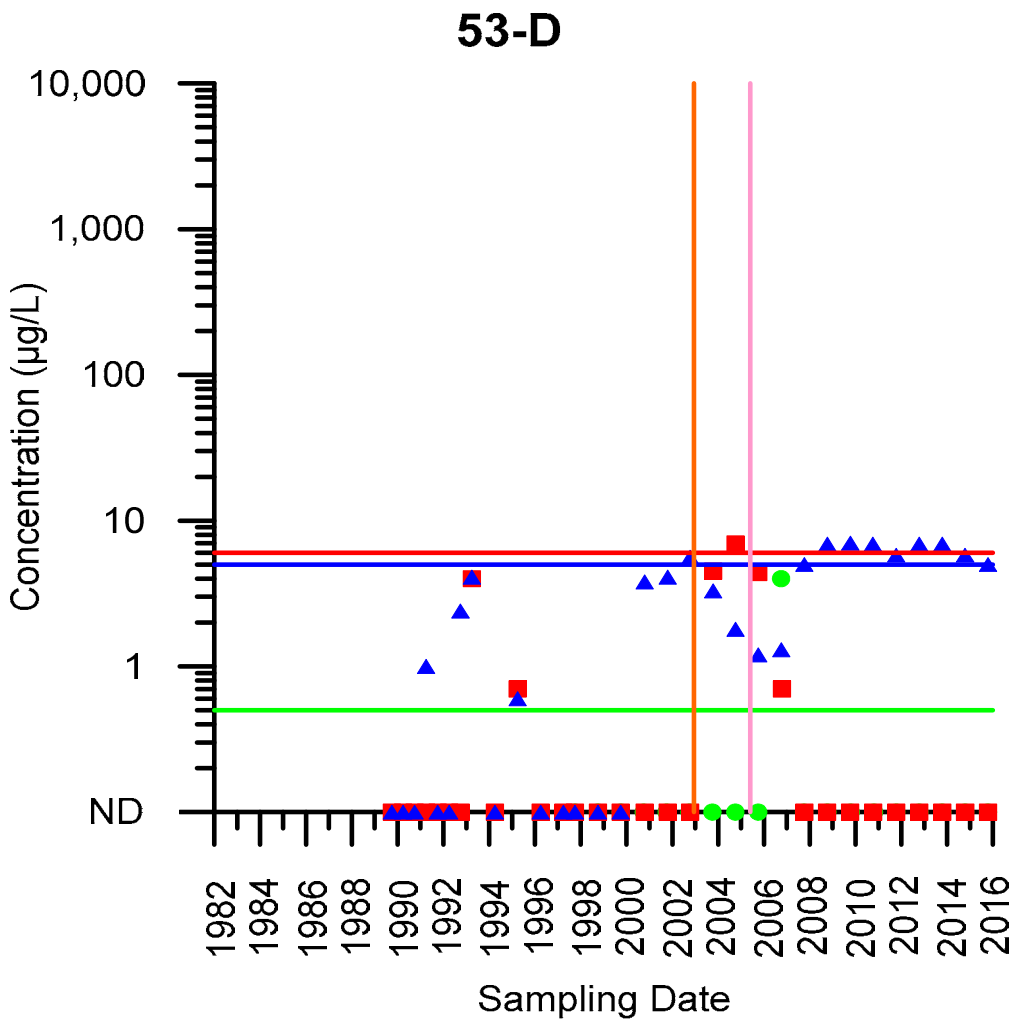
FIGURE F-16

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-16



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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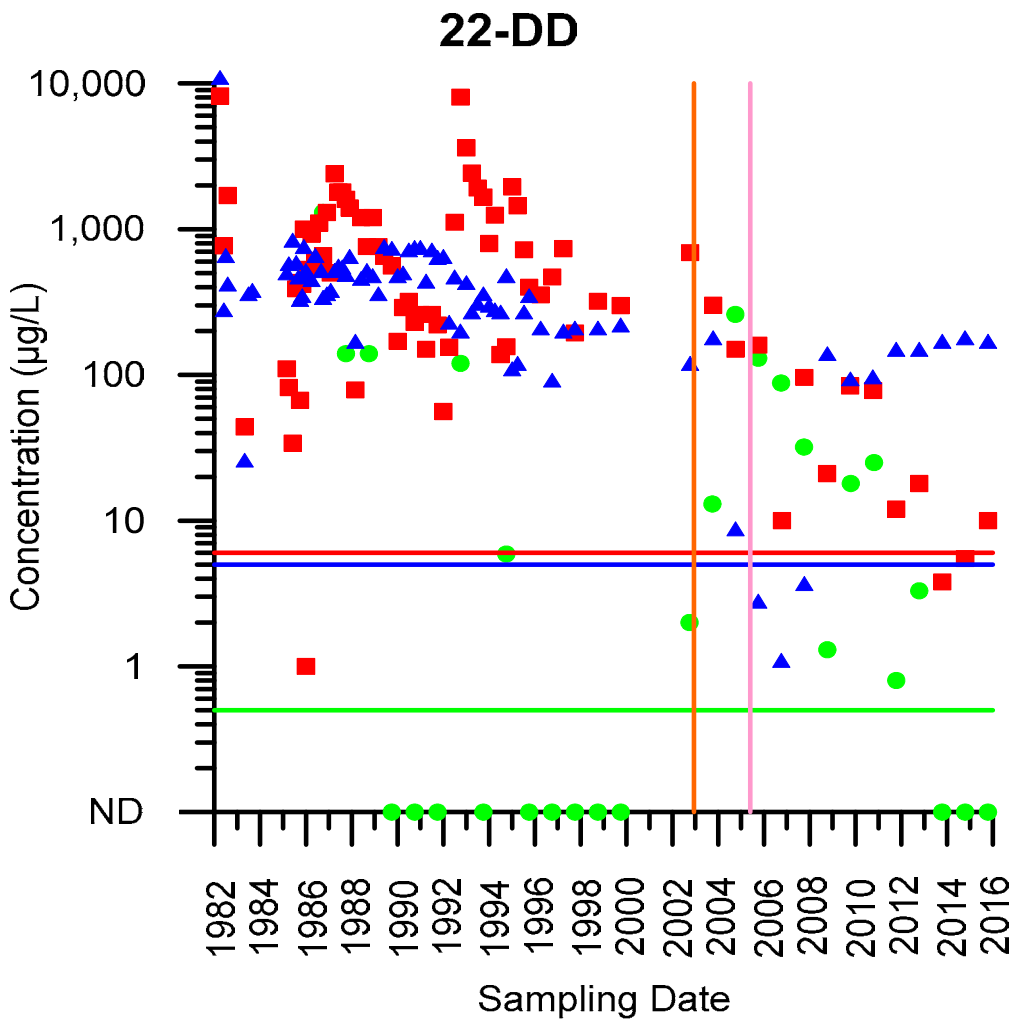
FIGURE F-17

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-17



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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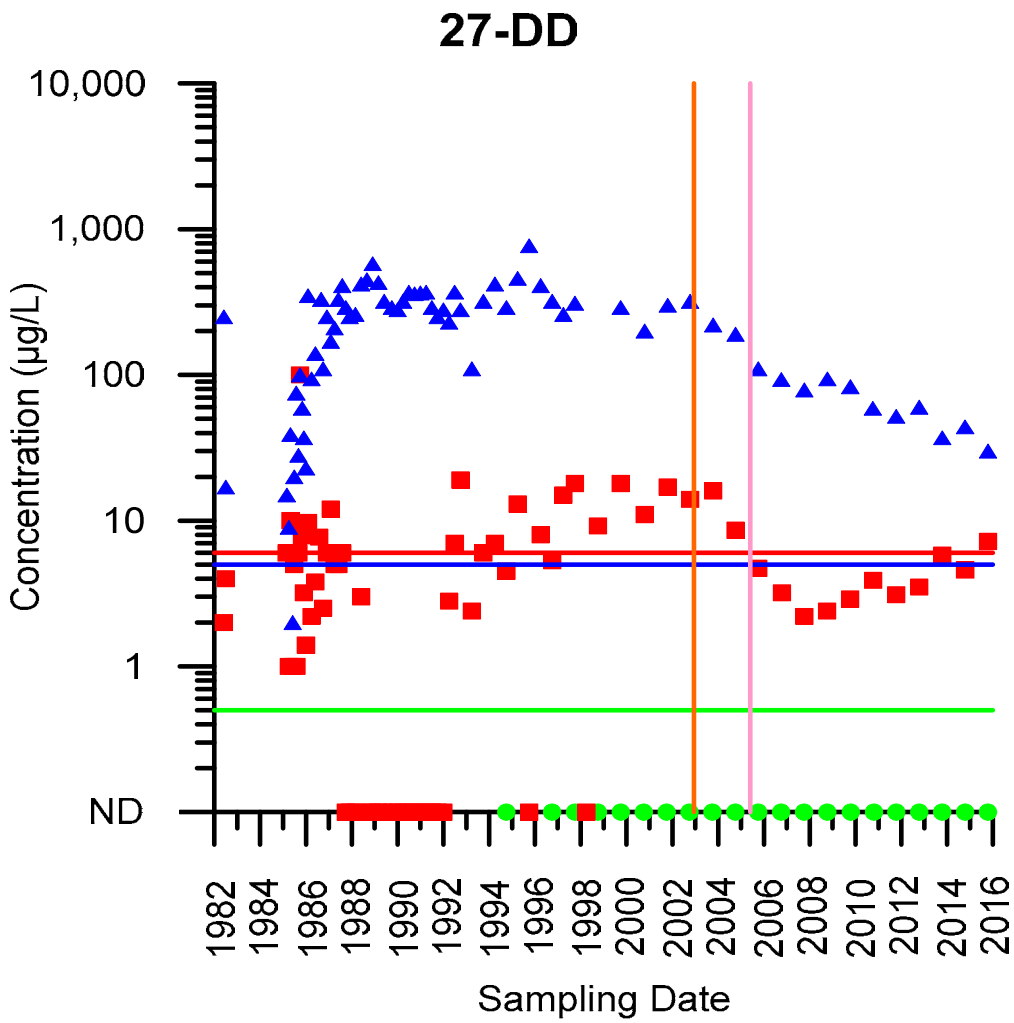
FIGURE F-18

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-18



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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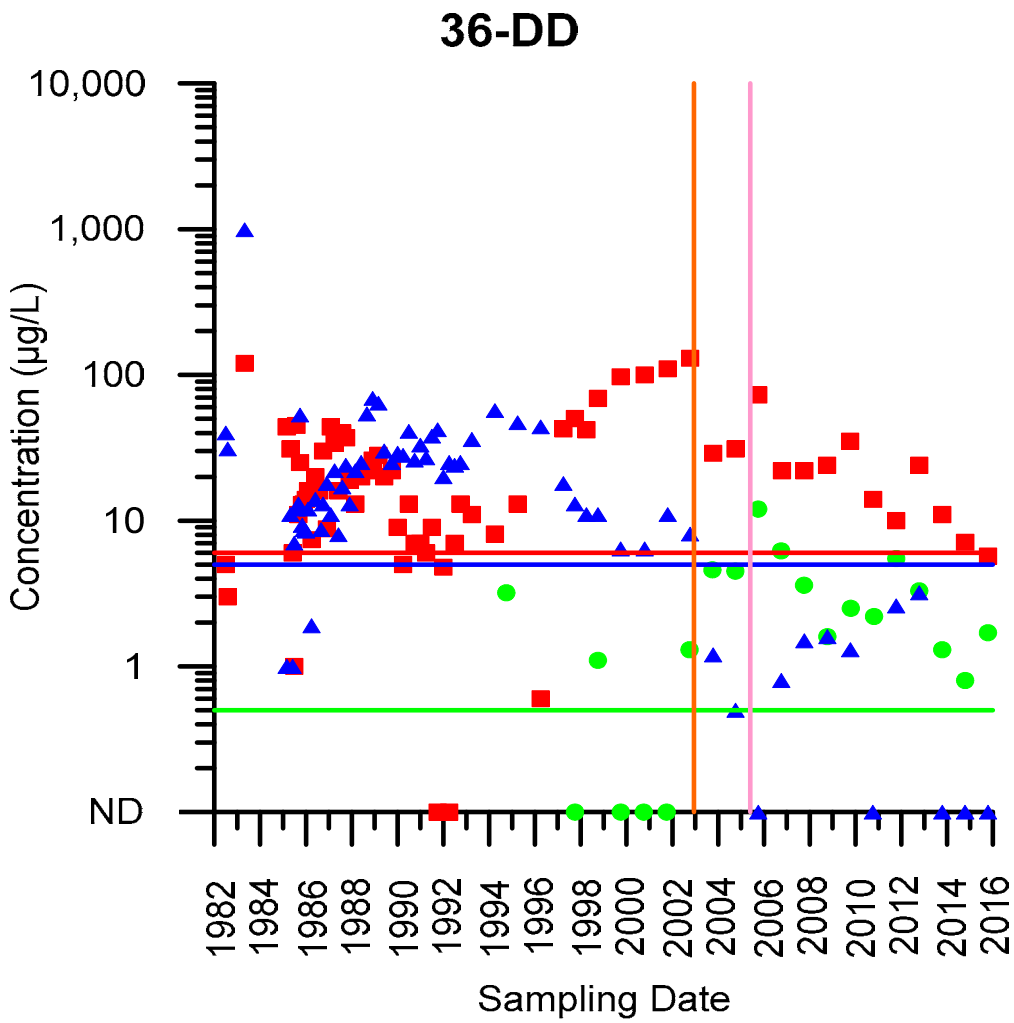
FIGURE F-19

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-19



EXPLANATION

- TCE
- cDCE
- VC
- Cleanup Goal for TCE
- Cleanup Goal for cDCE
- Cleanup Goal for VC
- Start of ISB Pilot Test
- Start of full-scale ISB

ABBREVIATIONS

TCE = trichloroethene
cDCE = cis-1,2-dichloroethene
VC = vinyl chloride
ISB = in situ bioremediation

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FIGURE F-20

\\oak\Common\39751_AMD_Former 901-902 Thompson Place\Deliverables\Annual GWMR\201519_App F_concentration trends\backup files\[Figure template.xlsx]Figure F-20